Highgate School Dyne House and Island Site

Basement Impact Assessment

EXP-REP-XXX-001

Rev 03

expedition

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1 Non-Technical Summary

The site location is Highgate School, Southwood Lane, Highgate, London, N6 5EE. The site is comprised of two plots: Dyne House and Island, located east and west of Southwood Lane, respectively.

The current development / properties on the Dyne House plot comprises the five-storey Dyne House school building with existing one-level basement and the two-storey Gym and Geography Building with no existing basement. Dyne House shares a Party Wall with a residential structure on 16 Southwood Lane.

The current development on the Island plot is comprised of a two-storey building with no existing basement. An underground tunnel can be found beneath Southwood Lane which connects the two-storey building to Dyne House. The building shares Party Walls to the west and south with the Central Hall and Big School buildings of Highgate School, respectively.

The proposed development works for the Dyne House plot comprises the redevelopment and expansion of Dyne House, the demolition of the existing Gym and Geography Building, excavation of a one- to three-level basement, and construction of a one- to two-storey teaching facility in its place. The Dyne House expansion will involve the excavation of a one-level basement adjacent to the existing basement.

The proposed development on the Island plot comprises the demolition of the existing structure, excavation of a one-level basement, and construction of a two-storey structure.

The proposed excavations will be supported by embedded retaining walls.

Temporary propping will be utilised, prior to proceeding with bulk excavation works. The propping will increase the stiffness of the retention systems during construction and reduce the risk of adversely affecting neighbouring structures and/or third-party assets, due to excessive ground movements.

The following assessments are presented in the current document:

- Screening.
- Scoping.
- Additional evidence/assessments (as required), including:
    - Slope stability assessment.
    - Hydrogeological assessment.
    - Ground movement assessment (GMA).
    - Construction methodology and management plan.
    - Architectural and structural drawings.
- Basement Impact Assessment (BIA).

The site is generally sloping steeply downwards from west to east, with elevations ranging from approximately +126.0mOD to +111.0mOD.

The ground conditions beneath the site vary due to its sloping nature and generally comprise (based on a review of BGS data and site-specific ground investigations):

- Made Ground: to a depth of 1.0 to 1.5 metres below ground level (mBGL). Madeground thickness up to 3.4m (Trial Pit D) is found at the school playground area (Parade Grounds).
- Bagshot Formation: to a maximum depth of 11.5mBGL. The thickness of this stratum reduces from west to east and is not observed under the eastern sections of the site.
- Claygate Member: The thickness of the Claygate Member has not been proven by site-specific ground investigation works. Based on BGS boreholes in the vicinity of the site, the Claygate Member is expected to be at least 20m thick and is underlain by the London Clay Formation, which is present to depths of approximately 129mBGL.

The hydrogeological conditions based on the historical ground investigation and additional round of groundwater monitoring at the site, relevant to the proposed development, are anticipated to comprise:

- Local bodies of water within the Made Ground and superficial deposits flowing from west to east.
- A hydrostatic pore water pressure distribution within the London Clay Formation.

The BIA has assessed land stability, and the impacts of the proposed development on neighbouring structures will be limited to *Category 1 – Very Slight*, in accordance with the Burland Scale.

The BIA has identified that construction of the proposed rear basement is likely to result in a local increase in groundwater head of approximately 1m, with this maximum increase coincident with the upstream side of the retaining wall. In the areas surrounding the proposed basement, this effect is lesser. Considering the nature of the existing buildings, anticipated foundations, and depths to the groundwater table, the alterations to the local groundwater flow regime due to the proposed works are expected to have a limited effect on the neighbouring properties.

2 Introduction

2.1 Overview

A-squared Studio Engineers Ltd (A-squared) were engaged by Expedition Engineering Ltd (Expedition) to prepare a Basement Impact Assessment (BIA) for the proposed development of the Dyne House and Island sites located within the Highgate School campus in Highgate, London.

The purpose of this assessment is to consider the potential effects of the proposed developments at the Dyne House and Island sites along Southwood Lane, Highgate, London, N6 5EE, on the local hydrology, geology and hydrogeology, and the potential impacts to neighbours and the wider environment.

The locations of the proposed development are shown in Figure 2-1.

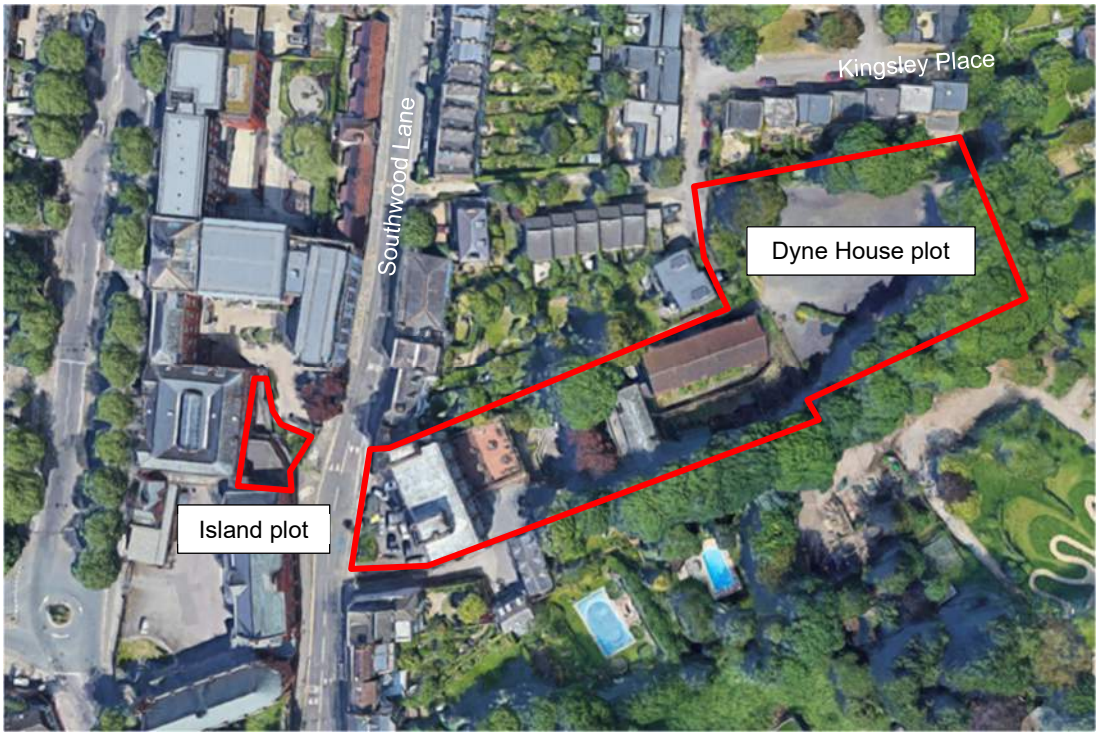


Figure 2-1: Dyne House and Island site location

The development site is located within the jurisdiction of the London Borough of Haringey.

The BIA has followed the approach developed by the London Borough of Camden, which is considered to represent current industry best practice and is aligned with Haringey specific basement development guidance.

The BIA comprises the following elements:

- Screening.
- Scoping.
- Additional evidence/assessments (as required), including:

  - Slope stability assessment.
  - Hydrogeological assessment.
  - Ground movement assessment (GMA).
  - Construction methodology and management plan.
  - Architectural and structural drawings.
- Basement Impact Assessment.

2.2 Credentials

The BIA has been reviewed by Alex Nikolic. Alex is a Chartered Member of the Institution of Civil Engineers (MICE) with 20 years of industry experience in geotechnical design and construction of ground engineering works. Alex has attained post-graduate qualifications, including a Master of Science in Soil Mechanics (MSc DIC) from the Imperial College London and a Master of Studies (MSt Cantab) in Sustainable Development from the University of Cambridge. Alex was formerly the Director of Ground Engineering at Buro Happold.

The BIA has been approved by Tony Suckling. Tony is a Chartered Fellow of the Institution of Civil Engineers (FICE) and a Fellow of the Geological Society (FGS). Tony has a Master of Science (MSc) in Geotechnical Engineering from City University. Tony is a Registered Ground Engineering Professional (RoGEP) with almost 30 years of industry experience in geotechnical design and construction of ground engineering works. Tony has previously held the position of Technical Director for Balfour Beatty Ground Engineering Ltd. Tony has been a past Chairman of the Federation of Piling Specialists Technical Committee and a Board Member of the Deep Foundation Institute Europe. Tony was part of the steering group for CIRIA C760 Guidance on Embedded Retaining Wall Design.

2.3 Sources of Information

The following baseline data has been referenced to complete the BIA in relation to the proposed development:

- *Site Investigation Report* prepared by Geotechnical & Environmental Associates Ltd (GEA), dated September 2015.
- *Site Investigation Report prepared* by Listers Geotechnics, dated November 2018.
- *Highgate School Dyne House Hydrogeological Desk Study Report* produced by A-squared, dated July 2015.
- *Highgate School Dyne House III RIBA Stage 2 Report* produced by Expedition, dated October 2018.
- *Dyne House 3 & Island Site Construction Methodology and Management Plan* prepared by Blue Sky Building (BSB), dated November 2019.
- *Drainage Strategy Report* produced by Expedition, dated December 2019.
- Architectural drawings produced by Hopkins Architects Ltd (Hopkins), dated March 2017.
- Public domain geological mapping from British Geological Society Geology of Britain Viewer and Borehole Viewer.
- Building GMA Report prepared by A-squared, dated Aug 2024.
- Hydrogeological Study report prepared by A-squared Aug 2024.

2.4 Existing Development

The development site is located along Southwood Lane, London, N6 5EE. The Dyne House plot has approximate dimensions of 170m-long by 30m-wide, while the Island plot has approximate dimensions of 25m-long by 15m-wide, covering areas of approximately 0.56ha and 0.02ha, respectively.

The Island plot is relatively flat, with existing ground surface elevations of approximately +126.0mOD. The existing ground level at the Dyne House plot varies from approximately +126.0mOD in the west to +111.0mOD in the east.

The site is within a wider setting and is founded on a slope, with decreasing ground level towards the east. The average slope angle of the Dyne House plot is approximately 8°, excluding the relatively flat Parade Grounds in the eastern section of the site.

The Dyne House plot is currently occupied by various structures of Highgate School. Dyne House, on the western end of the plot, is a five-storey reinforced concrete frame structure with a one-level basement. The Gym and Geography building, located at the centre of the plot, is a two-storey 'L'-shaped masonry structure with no basement. Both the Dyne House and the Gym and Geography Building are currently occupied. A 1m- to 2m-deep disused swimming pool is located directly south of the Gym and Geography Building. The eastern section of the plot is covered in asphalt and is currently used as a sports and recreation area.

The Island plot is comprised of a two-storey structure with no basement, directly adjacent to the Central Hall and Big School buildings of Highgate School. It is assumed to be currently occupied. An existing underground link tunnel to Dyne House can be accessed through the plot.

2.5 Neighbouring Properties and Infrastructure

The existing Dyne House structure shares a Party Wall along a portion of its northern boundary with the residential property at 16 Southwood Lane. The structure occupying the Island plot shares Party Walls on its western and southern boundaries with the Highgate School Central Hall and Big School buildings, respectively. The Gym and Geography Building shares no Party Walls with other structures and is detached on all sides.

The closest buildings to the Dyne House plot are 16 Southwood Lane, a three-storey residential building to the north, 12 Southwood Lane, a three-storey residential building to the south, and 23A & 23B Kingsley Place, a three-storey residential building to the north.

The closest buildings to the Island plot are the Highgate School Central Hall, Big School, and Science Buildings, three- to four-storey school buildings to the west, south, and north, respectively.

There are several listed buildings within the zone of influence of the proposed development, including the Highgate School Old School Building (Grade II Listed), Nos. 4 to 22 Southwood Lane (Grade II Listed), Highgate School Chapel (Grade II Listed), and the Highgate Tabernacle (Grade II Listed).

Southwood Lane separates the two plots, bounding the Dyne House plot to the east and the Island plot to the west.

An existing Thames Water sewer is present at the site and runs in a north-south direction between Dyne House and the Gym and Geography Building. At the time of writing, Thames Water has been engaged regarding this project in order to determine scheme proposals which effectively safeguard this asset.

Other asset owners with existing underground services that may be impacted by the proposed development include the following:

- London Borough of Haringey and the Greater London Authority.
- Thames Water Ltd – Clean water and wastewater
- BT (BT Group Plc) and Virgin Media Ltd – Telecoms.
- UK Power Networks Ltd – Electricity distribution.
- Cadent Gas Ltd and Southern Gas Networks Plc – Gas.

Asset protection teams for the assets listed in 0 will be engaged as the design of the proposed development continues. Where necessary, separate GMAs will be prepared to meet design assurance requirements.

2.6 Proposed Development

The proposed development sketches and drawings are included in Appendix B.

The developments are planned to be for private educational use.

The existing Dyne House structure will be redeveloped and extended towards Southwood Lane. This extension includes the excavation of a one-level basement connected to the existing basement and the construction of a five-storey reinforced concrete frame structure adjacent to the existing Dyne House. The average excavation depth to formation level is 4.0m (+121.0mOD). The existing Auditorium located in the eastern portion of Dyne House will not be modified.

The Gym and Geography Building will be demolished and a one- to two-level structure with one- to three-level basement, referred to as the 'Rear Block' will be constructed in its place. Excavation depths for the proposed basement range between 4.0mBGL and 11.0mBGL due to the sloping nature of the site (approximate basement formation level at +107.0mOD). This proposed structure will be connected to the redeveloped Dyne House via a proposed one-level bridge link structure.

The Island plot development involves the demolition of the existing structure on-site, excavation of a one-storey basement, and construction of a two-storey reinforced concrete structure. The average excavation depth to formation level at this plot is 4.5mBGL (+121.0mOD).

The proposed excavation perimeters will be retained by embedded retaining walls.

Outline structural arrangements and a Construction Methodology and Management Plan prepared by Expedition and Blue Sky Building respectively are presented in Appendix D.

Temporary props / shoring will be installed prior to proceeding with bulk excavation works. Such measures will increase the system stiffness of the retaining walls and reduce the risk of adversely affecting neighbouring structures and third-party assets, due to excessive ground movement. The detailed design of this temporary propping will be coordinated with the project building damage ground movement assessment, which will define the limits of lateral retaining wall deflection which must be adhered to.

The basements will be reduced to the formation level using standard means and methods of excavation in a bottom up construction sequence.

3 Screening

3.1 Subterranean (Groundwater) Flow Screening Flowchart

Question		Response	Details
1a.	Is the site located directly above an aquifer?	Yes	Yes, the site is underlain by the Bagshot Formation and Claygate Member. Both strata are classed as Secondary 'A' Aquifers.
1b.	Will the proposed basement extend beneath the water table surface?	Yes	Monitoring data from the GEA *Site Investigation Report* indicates that the proposed Rear Block basement in the east of the Dyne House site will extend beneath the water table surface. All other proposed basements will not extend beneath the water table surface.
2.	Is the site within 100m of a watercourse, well (used / disused) or potential spring line?	Yes	The boundary between the Bagshot Formation and Claygate Member is a potential spring line.
3.	Will the proposed basement development result in a change in the proportion of the hard surfaced / paved areas?	Yes	There will be an increase in the amount of hardstanding area present.
4.	As part of the site drainage, will more surface water (e.g. rainfall and run-off) than at present be discharged to the ground (e.g. via soakaways and / or SUDS)?	No	The proposed development will maintain the existing surface water discharge conditions.

3.2 Stability Screening Flowchart

Question		Response	Details
1.	Does the existing site include slopes, natural or man-made, greater than 7 degrees (approximately 1 in 8)?	Yes	The Dyne House plot includes slopes of approximately 8 degrees. The Island plot is generally flat.
2.	Will the proposed re-profiling or landscaping at the site change slopes at the property boundary to more than 7 degrees (approximately 1 in 8)?	No	There are no re-profiling / landscaping works proposed that will increase the slopes existing on site to gradients greater than 7 degrees.
3.	Does the development neighbour land, including railway cuttings and the like, with a slope greater than 7 degrees (approximately 1 in 8)?	Yes	Adjacent properties have a similar sloping topography to the site.
4.	Is the site within a wider hillside setting in which the general slope is greater than 7 degrees (approximately 1 in 8)?	Yes	The site is founded on a wider hillside setting, with the main Highgate School grounds immediately west of the site forming a localised plateau. Ground generally slopes away from the school grounds. There may be potential slopes with gradients greater than 7 degrees.
5.	Is the London Clay the shallowest strata at the site?	No	BGS information and previous site-specific ground investigation proved the presence of the Bagshot Formation and Claygate Member overlying the London Clay.
6.	Will any trees be felled as part of the development and/or are any works proposed within any tree protection zones where trees are to be retained?	Yes	Trees will be felled in order to enable the construction of the Dyne House front extension and to allow site access from Kingsley Place.
7.	Is there a history of seasonal shrink-swell subsidence in the local area and/or evidence of such effects at the site?	Yes	The Claygate Member and London Clay strata can be classified as having a high volume change potential and hence can lead to seasonal shrink-swell subsidence where buildings are founded in desiccated soils. However, there is no specific evidence of subsidence having been experienced on site or in the immediate surrounding area.
8.	Is the site within 100m of a watercourse or a potential spring line?	Yes	The boundary between the Bagshot Formation and Claygate Member is a *potential* spring line.

9.	Is the site within an area of previously worked ground?	Yes	BGS 1:50,000 geological mapping does not show the site to be located in an area of previously worked ground. Historical maps show that the eastern section of the site has been subjected to filling and regrading. Borehole data found in the GEA *Site Investigation Report* also shows a significant thickness of made ground in the eastern sections of the site.
10.	Is the site within an aquifer? If so, will the proposed basement extend beneath the water table such that dewatering may be required during construction?	Yes	Yes, the site is underlain by the Bagshot Formation and Claygate Members, which are classified as Secondary 'A' Aquifers. Monitoring data from GEA indicates that the proposed basement will extend beneath the water table surface, particularly for the Rear Block eastern sections of the site. Dewatering is likely to be required during construction however this will be limited/mitigated by means of an embedded wall cut-off in the short-term condition.
11.	Is the site within 5m of a highway or pedestrian right of way?	Yes	Southwood Lane runs north to south through the site, between the Island and Dyne House plots. Kingsley Place also bounds the site in the north.
12.	Will the proposed basement significantly increase the differential depth of foundations relative to neighbouring properties?	Yes	The differential depth of the foundations of the existing development relative to neighbouring properties will increase, especially in the case of the Island plot.
13.	Is the site over (or within the exclusion zone of) any tunnels, e.g. railway lines?	No	There are no tunnels passing through the site. It is noted that there is a Thames Water sewer onsite, running north-south immediately east of the existing Dyne House auditorium.

3.3 Surface Water and Flooding Screening Flowchart

Question		Response	Details
1.	As part of the proposed site drainage, will surface water flows (e.g. volume of rainfall and peak run-off) be materially changed from the existing route?	No	The existing route is expected to be incorporated into the scheme.
2.	Will the proposed basement development result in a change in the proportion of hard surfaced / paved external areas?	Yes	There will be an increase in the amount of hardstanding area present.
3.	Will the proposed basement result in changes to the profile of the inflows (instantaneous and long-term) of surface water being received by adjacent properties or downstream watercourses?	No	The proposed basement is not anticipated to change the surface water discharged from the property. New surface water attenuation methods, such as attenuation tanks, landscaping, and green roofs, are proposed to manage the discharge, as detailed in the *Highgate School Dyne House III RIBA Stage 2 Report*.
4.	Will the proposed basement result in changes to the quality of surface water being received by adjacent properties or downstream watercourses?	No	No change in surface water quality is anticipated.
5.	Is the site in an area identified to have surface water flood risk according to either the Local Flood Risk Management Strategy or the Strategic Flood Risk Assessment or is it at risk from flooding, for example because the proposed basement is below the static water level of nearby surface water feature?	No	The Envirocheck Report found in the GEA *Site Investigation Report* indicates that the site has a very low flood risk. It is noted that there are areas of low to high flood risk surrounding the eastern section of the site. These are located downslope of the site and are not expected to affect the site's flood risk potential.

3.4 Non-Technical Summary of Screening Process

The screening process identifies the following issues to be carried forward to scoping for further assessment:

- The proposed Rear Block basement formation level will extend beneath the groundwater surface.
- Slopes greater than 7 degrees within and surrounding the site.
- There may be a risk of shrink-swell subsidence in the Claygate Member and London Clay due to removal of trees and seasonal variations in groundwater table.
- The boundary between the Bagshot Formation and Claygate Member is a potential spring line.

- The site is founded on some areas of previously worked ground related to the regrading of the eastern sections.
- Proposed excavations are adjacent to public highways and neighbouring structures.
- The proposed basement will increase the differential depth of foundations relative to neighbouring properties.
- A Thames Water sewer passes directly through the site.
- The impermeable site area will increase due to the proposed development

The other potential concerns considered within the screening process have been demonstrated to be not applicable or not significant when applied to the proposed development.

4 Scoping

4.1 Subterranean Flow: The proposed Rear Block basement formation level will extend beneath the groundwater surface.

Hazards

The groundwater regime at the site may be affected by the proposed basements.

Potential Impacts

Basement construction may result in damming of the aquifers and groundwater flow regime.

Changes in groundwater head resulting in stress changes or slope instability within the ground.

Ground movements associated with the stress changes in the ground may cause damage to existing properties.

Mitigating Factors

Based on data from site-specific groundwater monitoring conducted by GEA and Listers Geo, the proposed basements of the Dyne House front extension and Island structure will not extend below the water table.

Assessments and Further Actions

A site-specific hydrogeological study, discussed in Section 6.1, was conducted to assess the impact of proposed works on the groundwater regime. The assessment shows that construction of the proposed basement may cause an approximate rise in groundwater level of 1.0m immediately behind the proposed basement.

This assessment also considers the cumulative effects of the Dyne House front extension and Island basements and surrounding neighbouring buildings on the groundwater regime. Site-specific groundwater monitoring data indicates that the water table at the island plot and Dyne House front extension site is located beneath these proposed basements, and the hydrogeological modelling shows that the increase in water level at the rear of the rear block basement will not impact the surrounding neighbouring buildings.

The results of this assessment can be considered as conservative and no further reanalysis of the hydrogeological site conditions is necessary at this stage.

The excavation of the proposed basement will be performed by installing a groundwater cut-off wall into the Claygate Member, preventing significant groundwater flow into the basement. Dewatering works within the basement cut-off retaining wall will not impact the hydrogeological regime outside the basement (i.e. no groundwater table draw-down will occur).

4.2 Subterranean Flow: Is the site within 100m of a watercourse, well (used / disused) or potential spring line

Hazards

The groundwater regime at the site may be affected by the proposed basements.

Potential Impacts

Basement construction may result in damming of the spring line and groundwater flow regime.

Changes in groundwater head resulting in stress changes or slope instability within the ground.

Ground movements associated with the stress changes in the ground may cause damage to existing properties.

Mitigating Factors

Based on data from site-specific groundwater monitoring conducted by GEA , Listers Geotechnics and A2SI, the proposed basements of the Dyne House front extension and Island structure will not extend below the water table.

In addition, based on local knowledge and a site-walkover undertaken, there is no evidence of existing spring lines on or immediately adjacent to the site. It is likely that the recorded water within the Bagshot Formation is perched water above the Claygate Member and doesn't represent a groundwater table with hydraulic connectivity between the upstream water table within the Bagshot Formation and the recorded water table at the Parade Ground. The perched water table is expected to fluctuate seasonally primarily due to water dissipation and recharge from precipitation. However, no significant long-term variation in the water table level is anticipated.

An additional round of groundwater monitoring was conducted on August 9th, 2024. The recorded standing water levels from this monitoring visit are generally consistent with the data collected in 2015 and 2018.The comparison table is shown in Table 5.3.

Assessments and Further Actions

A site-specific hydrogeological study, discussed in Section 6.1, has been conducted in order to assess the cumulative impact of existing basements and the proposed basement works on the groundwater regime. The assessment shows that construction of the proposed basement may cause an approximate rise in groundwater level of 1.0m immediately behind the proposed basement. This assessment is inherently conservative as there is no sign of actual groundwater flow path or continuous groundwater flow between the Bagshot formation boundary to the east Claygate member.

The groundwater level data at Dyne house footprint is approximately 3m below the formation level (121mOD) of the proposed basement at (118mOD). The hydrogeological assessment undertaken indicates a potential groundwater level rise of 1m at the rear basement location. All neighbouring building basements do not extend below the water table in this event.

4.3 Stability: Slopes greater than 7 degrees within and surrounding the site

Hazards

The site includes slopes greater than 7 degrees.

The site is founded on a greater hillside setting which may contain areas with slope gradients greater than 7 degrees.

Potential Impacts

Slope instability within the site and neighbouring sites.

Potential for larger slope failure systems, including re-activation of pre-existing slides as a result of the proposed works.

Mitigating Factors

No signs of instability or ground movements were observed during various site walkovers.

The proposed embedded retaining wall and associated temporary propping measures adopted for any basement extension works will be designed to provide adequate restraint to any potential slope instability surrounding the site.

Assessments and Further Actions

A slope stability assessment, discussed in Section 6.2, has been carried out based on indicative slope geometry provided by the project team. The assessment shows that adequate slope stability is maintained.

4.4 Stability: Risk of shrink-swell subsidence in the Claygate Member and London Clay due to removal of trees and seasonal variations in groundwater table.

Hazards

Seasonal shrinking and swelling (subsiding and heaving) of the Claygate Member and London Clay Formation underneath the site.

Swelling (heaving) of the Claygate Member and London Clay Formation due to removal of trees.

Potential Impacts

Damage to the proposed new foundation / retention systems and neighbouring properties.

Assessments and Further Actions

The western sections of the site have the Bagshot Formation overlying the Claygate Member and London Clay Formation. This stratum is not typically susceptible to seasonal shrink-swell.

Trees will mostly be removed in areas underlain by the Bagshot Formation and thus, this is not anticipated to cause ground swelling / heave.

Site-specific ground investigation data from GEA and Listers Geotechnics indicate the presence of near-surface desiccated clay layers in the eastern sections of the site. No construction is anticipated in these areas. Furthermore, the proposed basements and foundations will extend beneath these desiccated layers.

Where necessary, substructure elements requiring mitigation will be detailed accordingly with void formers or proprietary heave mitigation products.

4.5 Stability: The site is founded on some areas of previously worked ground related to the regrading of the eastern sections.

Hazards

Potential for Made Ground/reworking natural strata with more adverse geotechnical properties to be present beneath the site.

Potential Impacts

Exceedances of the ultimate limit states of the proposed new foundation / retention systems.

Exceedances of the serviceability thresholds of the proposed development due to unexpected settlements.

Mitigating Factors

The regrading works were focused on the eastern section of the site where no construction is anticipated.

Site-specific ground investigation indicates that the proposed basements will be founded in natural strata.

Assessments and Further Actions

The presence of previously worked ground will not have a significant impact on the proposed works.

4.6 Stability: Proposed excavations are adjacent to public highways and neighbouring structures.

Hazards

Deep excavations carried out adjacent to public highways and neighbouring structures.

Potential Impacts

Collapse of the excavation and associated impact on surrounding assets.

Damage to the road surface or buried services within the public highway due to excessive ground movements.

The proposed development will increase the differential foundation depths with neighbouring properties. Construction and excavation works will cause ground movements that may damage these properties.

Mitigating Factors

The proposed basements abutting neighbouring properties and adjacent to Southwood Lane are limited to a single storey basement. The risk profile for these basements are expected to be proportional to the excavation depth.

Basement excavation works are located more than 5m from Kingsley Place.

Numerous basements of similar depth and scale have been successfully constructed throughout London within similar geological conditions and urban settings.

Assessments and Further Actions

A ground movement assessment has been carried out to determine the impact of proposed excavation works on the neighbouring properties, discussed in Section 0. The assessment shows a maximum damage classification of *Category 1 – Very Slight* for the neighbouring properties, in accordance with the Burland Scale.

The ground movement assessment shows that differential movement gradients of 1vertical:500horizontal are unlikely to be exceeded along the adjacent pavement at Southwood Lane in peak settlement gradient areas. The settlement calculated is generally less than 10mm along the adjacent Southwood Lane. It is noted that the ground movement assessment carried out is inherently conservative. The analyses undertaken are greenfield, adopting a Boussinesq analysis methodology, which neglects the stiffness of the substructure and building frame/stability system.

A ground movement assessment will be performed to determine the impact of the proposed excavation works on the buried utilities and other third-party assets surrounding the site. The proposed assessment will confirm anticipated damage categories in accordance with performance limits set by the relevant third-party asset protection teams.

Appropriate ground movement monitoring measures shall be implemented during construction to assess the performance of the earth retention system (baseline monitoring pre-commencement of the works should be carried out to determine any potential existing movement trends).

Design of the temporary propping shall be carried out by an appropriately experienced and qualified specialist / engineer in accordance with relevant Eurocodes/British Standards, Codes of Practice, and industry standards. The design should allow for appropriate surcharging behind the embedded retaining wall to reflect the type and intensity of traffic and building loads, as well as the sloped existing ground surface. The retaining walls shall be designed to limit deflections to within those presented in the scheme ground movement impact assessment, ensuring adjacent properties / third party assets are safeguarded.

4.7 Stability: A Thames Water sewer passes directly through the site.

Hazards

A Thames Water sewer is present at a shallow depth passing immediately east of the existing Dyne House auditorium. The proposed Bridge Link is located above this sewer.

Potential Impacts

Damage to the sewer from the ground movements induced by the proposed works.

Assessments and Further Actions

A preliminary ground movement assessment has been performed to determine the potential impact of the proposed excavation works on the Thames Water sewer. The initial assessment indicates limited damage impact that is within the performance limits/thresholds set by Thames Water.

Thames Water has been engaged by the project team and is aware of the proposed development. Liaison with Thames Water will continue as the design of the basements progresses.

4.8 Surface Water and Flooding: The impermeable site area will increase due to the proposed development.

Hazards

The proposed development will increase impermeable site area.

Potential Impacts

Risk of flooding in the development and affect the surrounding developments.

Assessments and Further Actions

A site wide flood risk assessment have been carried out and concluded that flood risk from surface water and overland flows is considered low. A surface drainage strategy has also been developed for the site which can be found in the *Sustainable Urban Drainage Statement* dated 1st July 2022.

5 Site Investigation

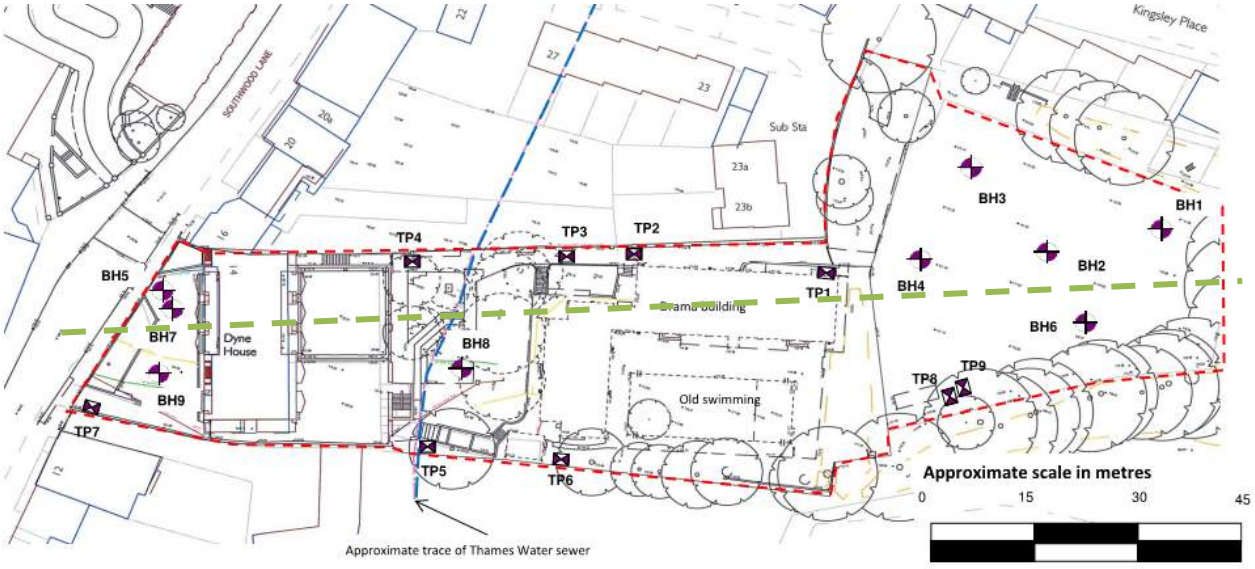
A site-specific ground investigation was carried out in March to May 2015 by GEA and 2018 by Listers Geotechnics. In addition, a further round of groundwater monitoring visit has been undertaken be A2SI Ltd on 9th Aug 2024 to validate the historical groundwater table.

5.1 GEA ground investigation

The information from the 2015 investigation provided to the project team included the following:

- 5no. windowless sampler boreholes to a maximum depth of 6.0mBGL.
- 4no. cable percussive boreholes to a maximum depth of 24.0mBGL.
- 7no. hand excavated trial pit exposing the existing foundations and boundary walls.
- 2no. mechanically excavated trial pits for soakage tests.
- 3no. groundwater monitoring standpipes to 6.0mBGL, 8.0mBGL, and 13.0mBGL.
- 5no. vibrating wire piezometers depths of 16.0mBGL and 21.0mBGL in BH7 and 11.5mBGL to 23.5mBGL in BH8.
- Geotechnical in-situ and laboratory testing.
- Geo-environmental laboratory testing.
- Groundwater and gas monitoring.

The locations of the ground investigation positions are shown in Figure 5-1.



Section in Figure 5.2 marked by green dotted line.
Source: *Site Investigation Report* prepared by GEA, dated September 2015.

Figure 5-1: Exploratory hole locations of the site-specific ground investigation undertaken in 2015.

The site stratigraphy varies from west to east, as shown in Figure 5-2. There is a reduction in thickness of the Bagshot Formation from west to east, following the slope of the ground surface. In the eastern area of the site, the Bagshot Formation is no longer observed, and Made Ground is observed to directly overlie the Claygate Member.

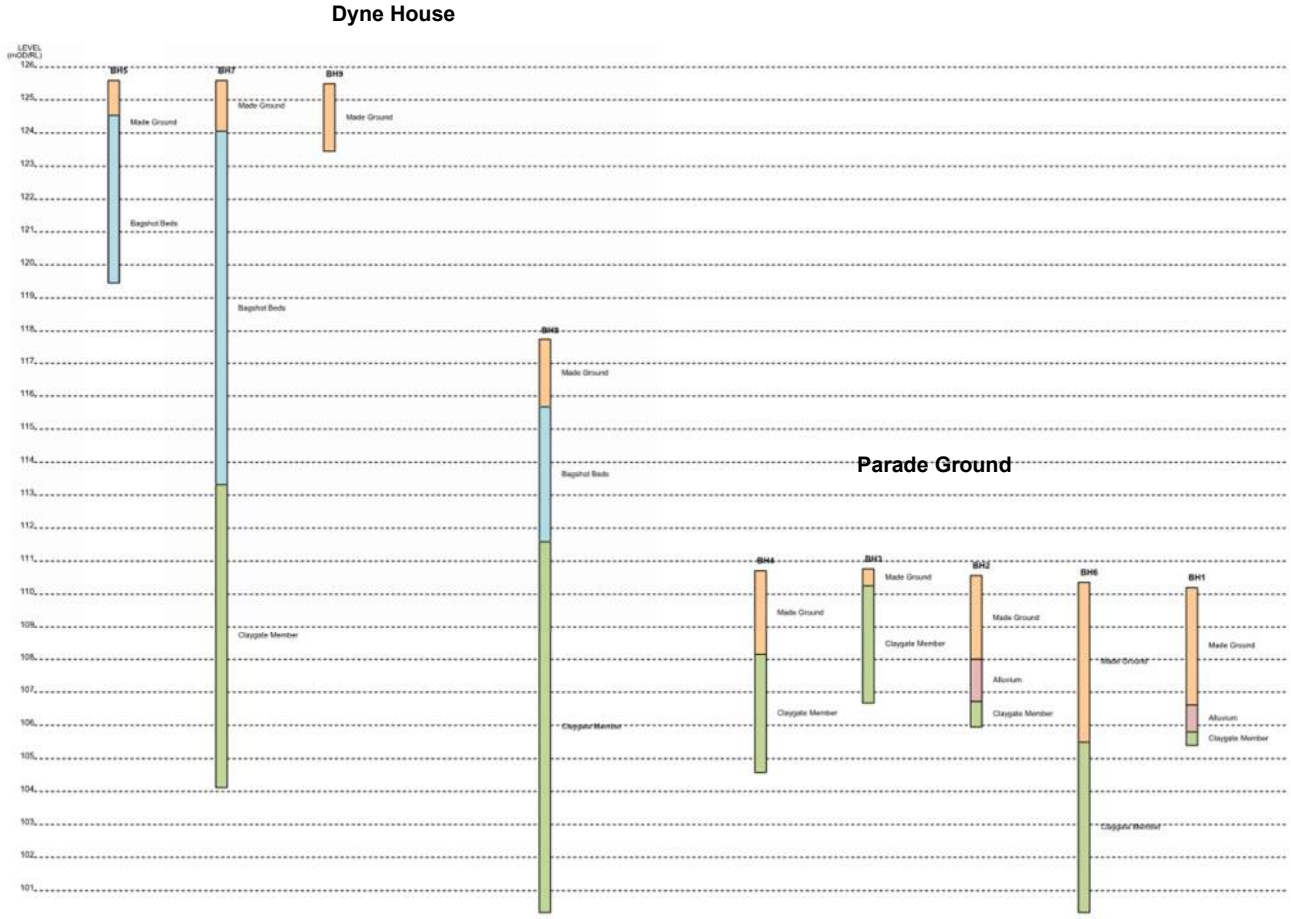


Figure 5-2: Indicative cross-section through site-specific boreholes (west to east)

The encountered ground conditions are summarised in Table 5.1.

Table 5.1: Encountered stratigraphic profile – 2015 GI

Stratum	Depth Encountered (mBGL)	Thickness (m)	Description
Made Ground	0.0[1]	1.0 to 1.5	• Topsoil and anthropogenic deposits of undifferentiated clays, sands and gravels.
Bagshot Formation[1][2]	1.5[3]	0 to 11.5	• Firm light brown to brown silty sandy gravelly CLAY / SAND with sand partings.
Claygate Member[1]	1.0 to 13.0[4]	Proven to depths of 15.0m	• Firm to stiff brown / orange slightly silty CLAY with occasional silt partings. • Stiff to very stiff fissured brown CLAY with occasional bands of silty sand.

1. Ground surface elevation varies from approximately +126.0mOD in the west to +111.0mOD in the east.
2. Depth and thickness of the Bagshot Formation and Claygate Member strata vary due to the sloping nature of the site.
3. The Bagshot Formation stratum reduces in thickness from west to east and is not present over the eastern sections of the site.
4. The Bagshot Formation is only encountered in the western sections of the site, from approximately 1.5mBGL (+124.5mOD).
5. The Claygate Member is encountered at depths ranging from approximately 1.0mBGL (+110.0mOD) in the east to 13.0mBGL (+113.0mOD) in the west.

Standpipe monitoring encountered a perched water table in the Bagshot Formation and Claygate Member, as shown in Figure 5-3.

Table 1			
Date	Depth To Groundwater (mbgl) [Level (m OD)]		
	BH6	BH7	BH8
	Claygate Member	Bagshot Formation	Bagshot Formation
15/4/2015	5.65 [105.15]	7.75 [117.95]	n/a
27/5/2015	5.13 [104.87]	8.12 [117.58]	n/a
9/6/15	5.35 [105.45]	8.16 [117.54]	2.30 [115.70]

Source: *Site Investigation Report* prepared by GEA, dated September 2015.

Figure 5-3: Standpipe monitoring data

Vibrating wire piezometer monitoring also encountered a perched water table in the Bagshot Formation and Claygate Member, as shown in Figure 5-4.

Table 2					
VWP monitoring data (9/6/15)					
	BH7		BH8		
Depth of installations (level)	16.00 (109.70)	21.00 (104.70)	11.50 (106.5)	17.50 (100.5)	23.50 (94.50)
Geological formation	Claygate	Claygate	Claygate	Claygate	Claygate
Approximate pore water pressure (kPa)	65 to 71	65	45	104	155
Approximate depth to water (m) (Level m OD)	9.38 to 8.77 (116.32 to 116.93)	14.38 (111.32)	6.92 (111.08)	6.9 (111.10)	7.7 (110.3)

Source: *Site Investigation Report* prepared by GEA, dated September 2015.

Figure 5-4: Vibrating wire piezometer monitoring data

5.2 Listers Geotechnics ground investigation

The 2018 ground investigation is mainly located at the west side of the site at the Island Site, the borehole plan is shown below in . The encountered ground conditions are summarised below in Table 5.2.

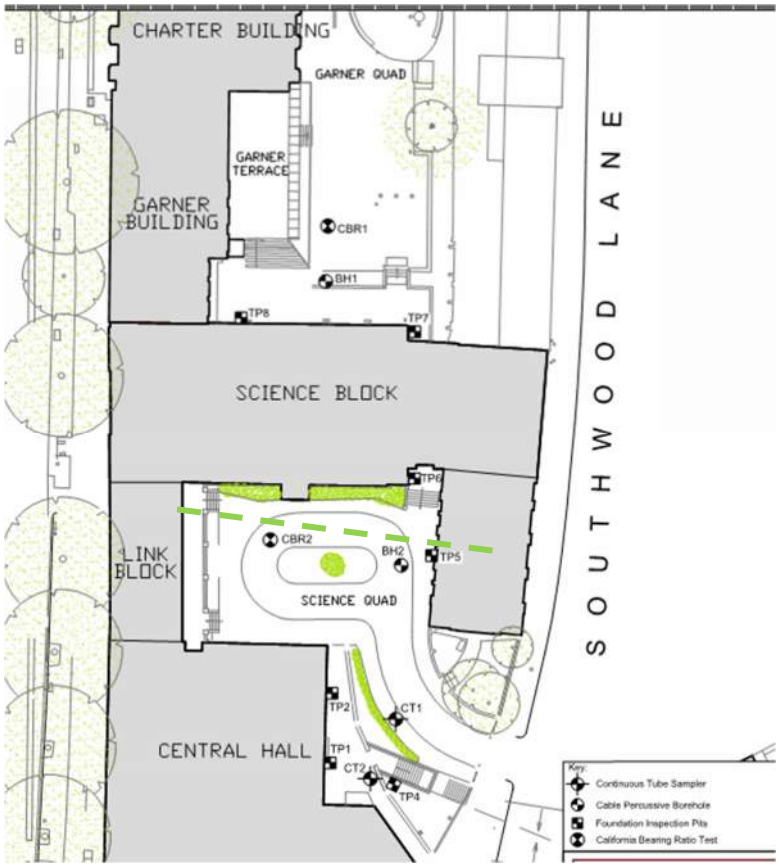


Figure 5-5 2018 Ground Investigation exploratory plan

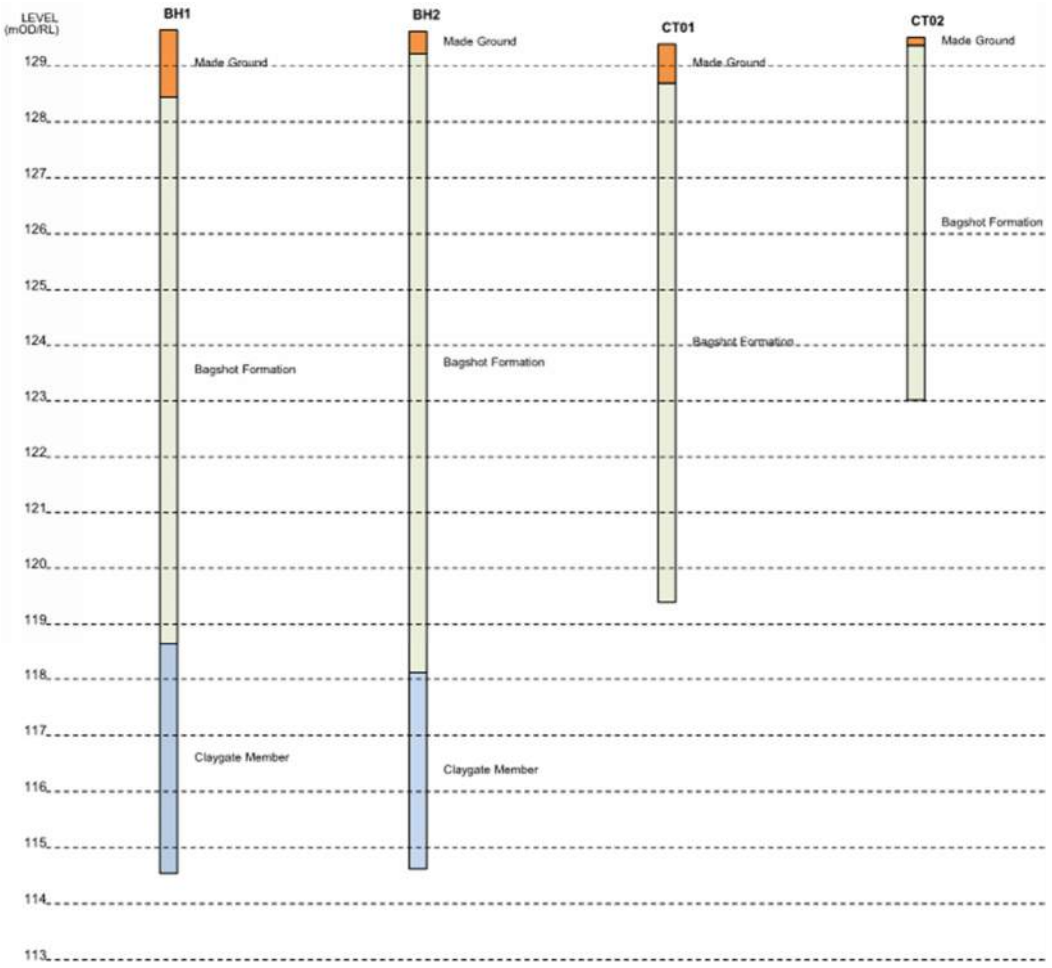


Figure 5-6: Indicative cross-section through Island Plot site-specific boreholes

Table 5.2 Encountered stratigraphic profile - 2018 GI

Stratum	Depth Encountered (mBGL)	Thickness (m)	Description
Made Ground	0.0[1]	0.4 to 1.2	• Topsoil and anthropogenic deposits of brown sandy CLAY with brick fragments
Bagshot Formation[2][3]	1.2[3]	9.8 to 11.1	• Firm brown and orange brown silty sandy gravelly CLAY / SAND with sand partings.
Claygate Member[5]	11.0 to 11.5	Proven to depth of 4m	• Stiff grey sandy CLAY

1. Ground surface elevation varies is approximately +126.6mOD.
2. Depth and thickness of the Bagshot Formation and Claygate Member strata vary due to the sloping nature of the site.
3. The Bagshot Formation stratum reduces in thickness from west to east and is not present over the eastern sections of the site.
4. The Bagshot Formation is only encountered in the western sections of the site, from approximately 1.sBGL (+125.4mOD).
5. The Claygate Member is encountered at depth approximately 11.0mBGL (+115.64mOD).

Standpipe monitoring installed at BH1 and BH2 encountered perched water table in the Bagshot Formation and Claygate Member. Groundwater was encountered during intrusive works between 8m and 12.5mbgl. and during the subsequent groundwater monitoring at 8.6mbgl.

5.3 A2SI additional groundwater monitoring

An additional groundwater monitoring visit was carried out by A2SI on 9th Aug 2024. The data collected on all boreholes (GEA and Listers) from the site is shown below in Table 5.3. It is noted from the collected data that from 2015-2024 the groundwater level seems to have remained relatively consistent.

Table 5.3Groundwater level comparison table

Borehole	GEA 2015 (mBGL)	Lister Geotechnics 2018 (mBGL)	A2SI Ltd 2024 (mBGL)
BH01	-	8.00	8.54
BH02	-	10.50	Dry
BH06	5.13-5.65	-	5.48
BH07	7.75-8.16	-	8.30
BH08	2.30	-	2.7

6 Additional Assessments

6.1 Hydrogeological Assessment

This hydrogeological assessment has been carried out by A-squared to address Scoping Point 4.1 where the proposed rear block basement will extend below the recorded standing water level. The hydrogeological study report can be found in Appendix E.

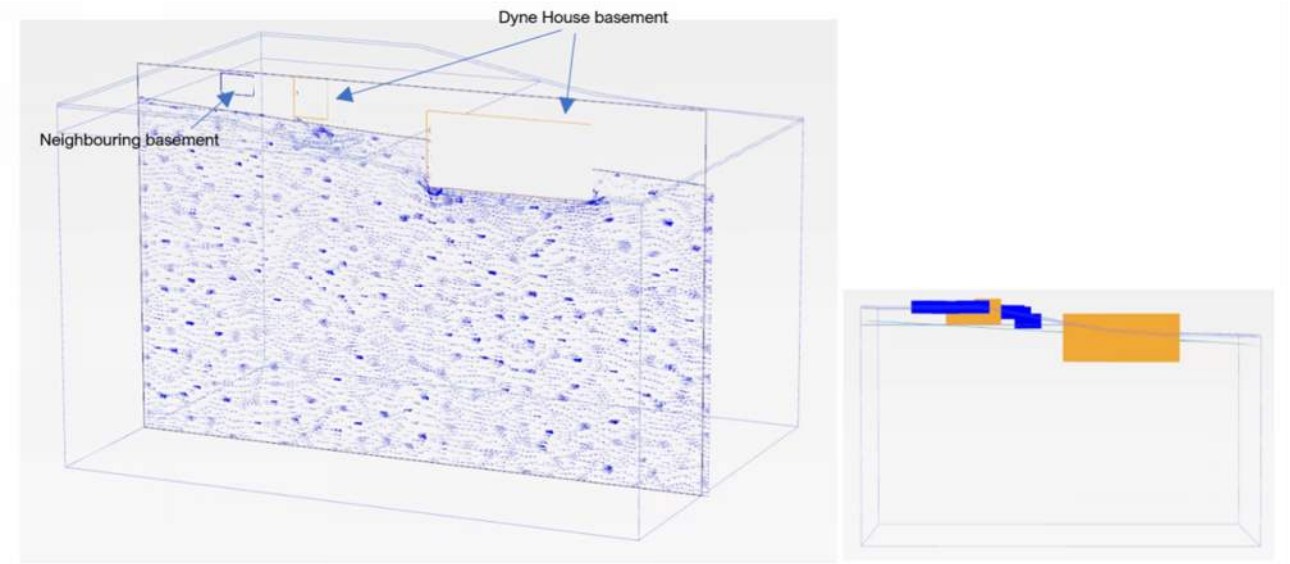
The 3-dimensional flow of groundwater within the development site has been modelled using PLAXIS 3D to determine the cumulative effects of the existing neighbouring basements and proposed construction works on the hydrogeological regime.

The assessment has been performed adopting a moderately conservative ground model based on results of a desk-based review and bounding the groundwater table observed during subsequent site-specific ground investigation conducted by GEA and Listers Geotechnics.

Figure 6-1 shows a sample output from the PLAXIS 3D showing the pre- and post-construction groundwater table elevation.

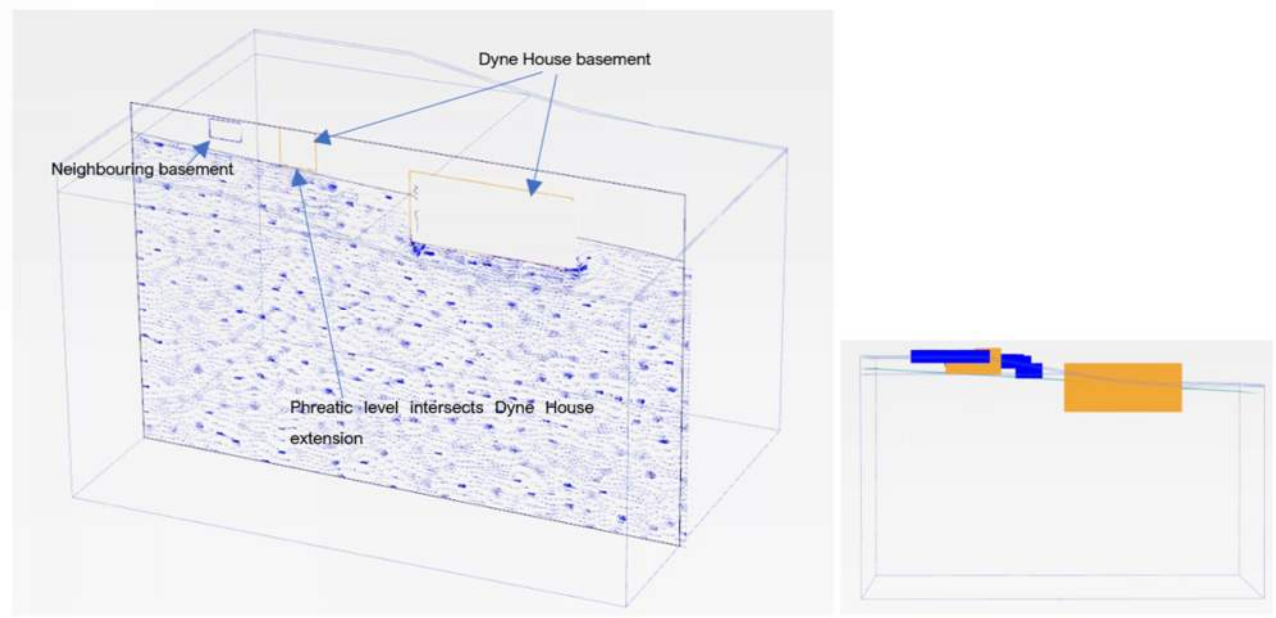
An additional round of groundwater monitoring was carried out on 9th August 2024 to validate the groundwater data collected by GEA and Listers Geotechnics in 2015 and 2018 respectively. The latest groundwater data is generally consistent with the historical data as shown in Table 5.3 and have been used as the baseline groundwater data in the Hydrogeological assessment.

Beyond the measured data set, an additional sensitivity analysis run has been undertaken with a 1m increase in water head to account for seasonal fluctuations (i.e. heavy rainfall / winter).



Source: *Highgate School Dyne House Hydrogeological Study Report* prepared by A-squared, dated Aug 2024

Figure 6-1: Example cross-section of PLAXIS 3D output from hydrogeological assessment (west to east) – Baseline



Source: *Highgate School Dyne House Hydrogeological Study Report* prepared by A-squared, dated Aug 2024

Figure 6-2:Example cross-section of PLAXIS 3D output from hydrogeological assessment (west to east) – Sensitivity Case

The assessment indicates that construction of the proposed basement may result in a rise in the groundwater table surface of approximately 1m behind the proposed deepest basement.

The maximum groundwater head increase of approximately 1m is observed to be coincident with the flow obstruction (i.e. the upstream basement wall). In the areas surrounding the proposed basement, the extent of the groundwater head rise is lesser. As flow is permitted around the basement, this effect reduces with lateral offset from the basement perimeter.

Indicatively, the range of increase in groundwater head in the vicinity of the neighbouring properties is between 0.5m and 0.9m. Considering the nature of the existing buildings, anticipated foundations, and depths to the groundwater table, the change to the local groundwater regime is expected to have a limited effect on the neighbouring properties.

The results of this assessment can be considered as conservative due to the modelling assumptions and boundary conditions adopted in the analytical simulation. No further reanalysis is considered to be required at this stage. It is also noted that the site investigation works undertaken to date have not proven the existence of a continuous groundwater flow regime across the development site. The analysis which has been undertaken assumes that such a groundwater flow regime is present, therefore the assessment inputs are considered to be suitably conservative for the purpose of determining worst-case / unlikely to be exceeded impacts.

The groundwater monitoring visits carried out by GEA were between April to June and the visits carried out by Listers Geotechnics around the Aug-Sept period. A further additional groundwater monitoring round undertaken by A2SI in August 2024 confirms that the data retrieved from site in 2015 & 2018 is still valid.

6.2 Slope Stability Assessment

This assessment has been carried out to address Scoping Point 4.3.

The profile of the sloping ground surface of the Dyne House plot has been modelled using the GeoStudio SLOPE software package to determine its stability condition following construction of the proposed development.

The assessment considers both local and larger slip mechanisms that may impact the site and surrounding areas.

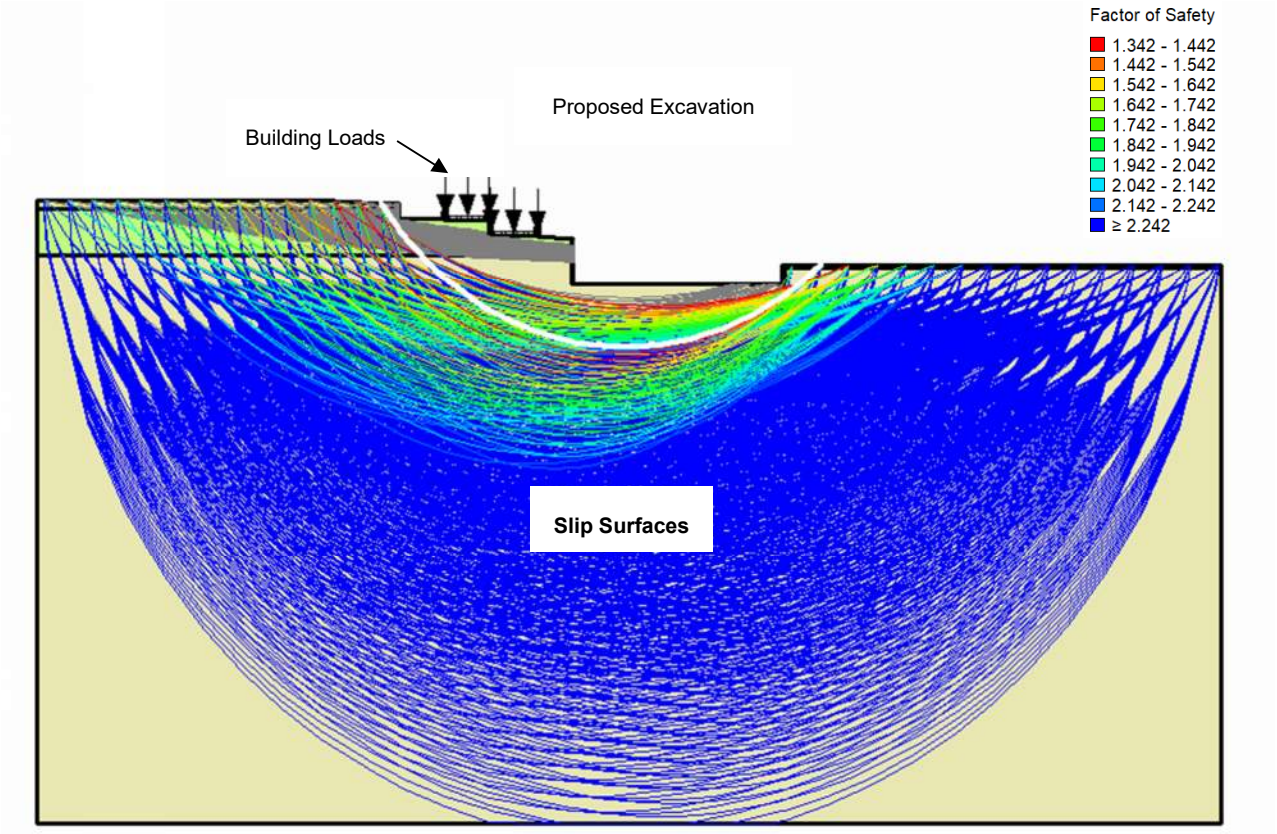
Soil parameters have been selected based on results from the site-specific ground investigation conducted by GEA.

Eurocode 7 Design Approach 1 Combination 2 (EC7 DA1-C2) partial safety factors have been applied to all modelled soils.

The model geometry is based on architectural plans provided by the project team.

The building loads from the existing Dyne House building have been modelled.

The assessments of the profile indicate the slope is stable following the proposed works, with Eurocode 7 Factor of Safety (FoS) values greater than 1, which corresponds to an additional stability over and above the soil strength and loading partial factors applied in the EC7 DA1-C2 analysis. An indicative image showing the slip surfaces assessed in presented in Figure 6-3. Further details of the analysis can be found in the Appendix E.



All slip surfaces satisfy Eurocode 7 ultimate limit state criteria.

Figure 6-3: Indicative plot of the slip surfaces assessed in GeoStudio SLOPE for the slope following the proposed works on the Dyne House plot

The analysis of the slope has not highlighted any hazards or instability issues and no further assessment is required.

6.3 Thames Water Ground Movement Assessment

A preliminary ground movement assessment has been conducted to address Scoping Point 4.7.

The impact of the proposed works on the Thames Water sewer running through the site has been assessed using the Oasys Pdisp and Xdisp software packages, in general accordance with typical thresholds for the type of structure concerned (which will be confirmed through engagement with the asset protection teams).

The GMA has been carried out in accordance with CIRIA C760 and takes into account the construction methodology and site-specific ground and groundwater conditions.

The sewer deformations induced by ground movements have been assessed in the long-term condition, accounting for time-dependent heave and load redistribution.

Soil parameters have been selected based on results from the site-specific ground investigation conducted by GEA.

The location of the Thames Water sewer is assumed based on the *Highgate School Dyne House III RIBA Stage 2 Report*. The sewer is modelled as a 450mm diameter vitrified clay pipe at ground level.

It is noted that the *Highgate School Dyne House III RIBA Stage 2 Report* specifies that selected sections of the existing sewer will be realigned and replaced with a 450mm cast iron pipe.

The preliminary assessment indicates that the induced strains, joint rotation and joint pull-out are within Thames Water criteria.

This assessment will be refined as the substructure design progresses and will take cognisance of both temporary and permanent works proposals.

7 Construction Methodology / Engineer Statements

7.1 Outline Temporary and Permanent Works Proposals

The outline basement construction proposal is to construct the basement using a *bottom-up* methodology.

Standard means and methods of excavation are expected to be suitable to excavate the basement, based upon the ground conditions proven through previous ground investigation works. This will be confirmed by the upcoming site-specific ground investigation.

The basement excavation will be restrained by embedded retaining walls which are propped in the temporary condition prior to the installation of permanent works slabs.

Design of the retaining walls and temporary propping shall be carried out in accordance with the relevant Eurocodes, non-conflicting codes of practice, and associated design best practice. The detailed design of the temporary propping will be coordinated with the scheme ground movement impact assessment, which will be used to define maximum retaining wall lateral deflections.

Preliminary retaining wall calculations have been carried out at this stage to verify the deflections of the proposed retaining walls and assumed propping arrangements to coordinate with the assumptions made in the ground movement assessment. Further details are shown in Appendix D.

A general plan and analysed sections are shown below in Figure 7-1 and Figure 7-2.

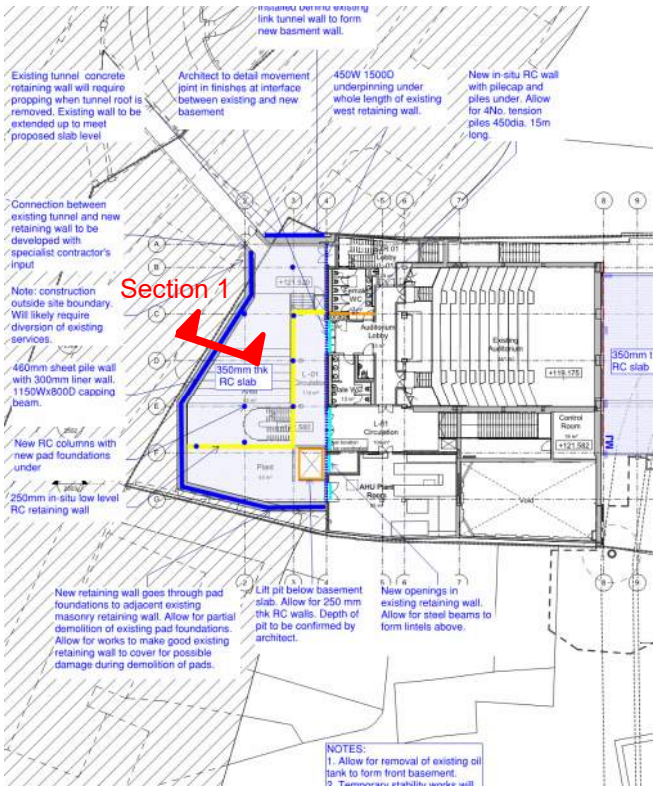


Figure 7-1 Retaining wall calculation section at Dyne House Front Extension

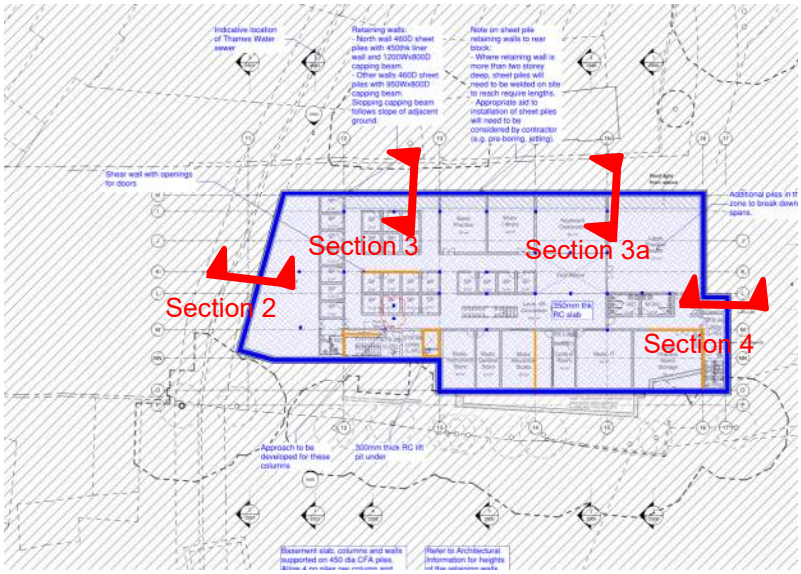


Figure 7-2 Retaining wall calculation sections at rear block basement

7.2 Ground Movement and Damage Impact Assessment

A GMA has been carried out in accordance with CIRIA C760 and takes into account the construction methodology and site-specific ground and groundwater conditions. The ground movement assessment is included in Appendix C.

All structures / properties within the zone of influence of the proposed development have been assessed.

The following assumptions have been made within the GMA:

- The buildings included in the GMA are assumed to be founded on ground surface.
- The basements will be fully propped for majority of the site apart from the retaining wall facing the Parade Ground.
- The walls of the above-mentioned buildings are assumed to behave as equivalent beams.

The ground movements resulting from the works comprise deformations arising from the following mechanisms:

- Installation of the embedded retaining walls.
- Bulk excavation works.

The following structures were assessed, having been identified as falling within the zone of influence of the proposed development:

- Highgate School – Big School Building
- Highgate School – Science Building
- Highgate School – Link Building
- Highgate School – Central Hall
- 10 Southwood Lane
- 12 Southwood Lane
- 14 Southwood Lane
- 16 Southwood Lane

- 18 Southwood Lane
- 20 Southwood Lane
- 22 Southwood Lane
- Highgate Tabernacle
- 23-27 Kingsley Place
- 23A & 23B Kingsley Place
- 28 Kingsley Place

In accordance with the Burland Scale, the potential damage impacts are assessed not to be greater than *Category 1 – Very Slight.*

The expected ground movements resulting from the proposed works are proposed to be limited by means of temporary propping, which is planned to be installed during the basement excavation phase.

The 1mm settlement contour zone of influence from the GMA is shown below in Figure 7-3.

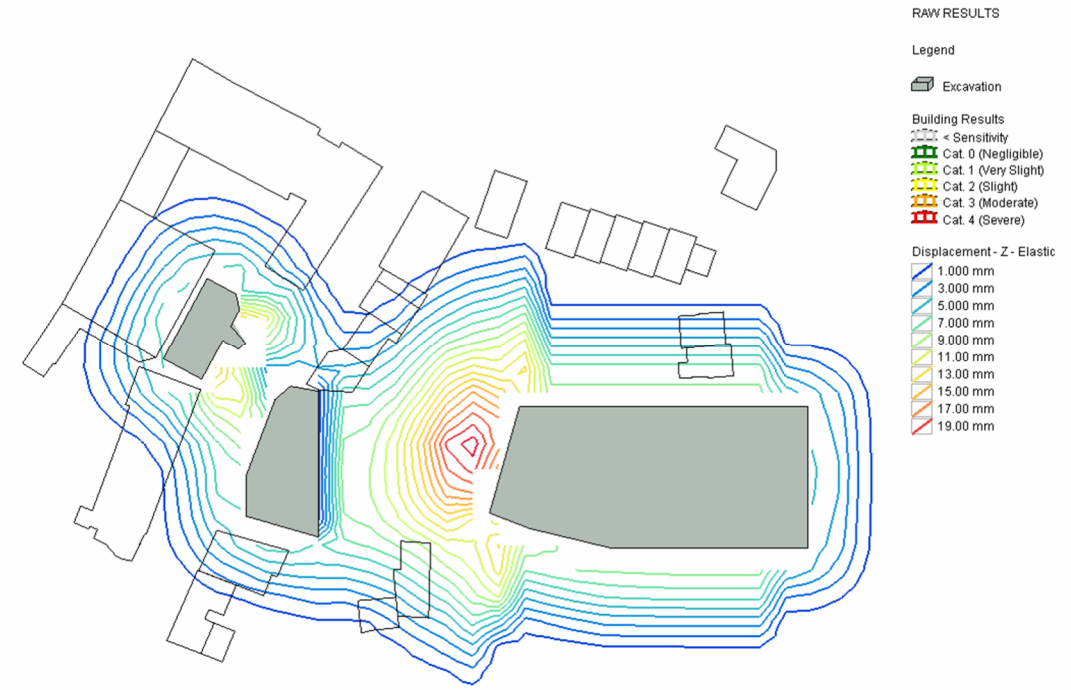


Figure 7-3 1mm contour zone of influence

The following mitigation measures are proposed to reduce ground movements and damage:

- Design of the embedded retaining wall and temporary propping measures shall be carried out in accordance with the relevant Eurocodes, non-conflicting codes of practice, and associated design best practice.
- Retaining wall construction to be performed by an experienced ground engineering contractor.
- Frequent monitoring of neighbouring properties to be carried out during excavation, to validate ground movement predictions against reality.
- Development of a monitoring-trigger-action plan that identifies trigger levels, responsible personnel and actions to be followed in the event of a trigger level exceedance.

- Incorporating stiff, high level props into the temporary works design of the basement excavation, so as to provide a high stiffness wall. Design details regarding minimum wall flexural stiffness, prop stiffness and arrangement, shall be defined as part of detailed design development.
- Designated areas for stacking and storing materials behind the embedded retaining wall should be identified. These should be located away from sensitive structures. The design of the retaining wall should incorporate an appropriate surcharge load to the rear of the wall, to capture effects of stacking and storing materials, vehicle traffic, etc.
- The GMA did not consider the impact of the proposed development on existing buried utilities surrounding the site. It is expected that these assets will be assessed (if applicable to the proposed works) following engagement of the asset owner and direction from the asset protection team, with regards to establishing limiting performance criteria. In the instance of Thames Water, a preliminary assessment has been performed for the existing sewer passing through the site, as discussed in Section 6.3.

7.3 Control of Construction Works

A preliminary Construction Management Plan (*Construction Methodology and Management Plan)* for the site has been developed by BSB which covers the items in this section in detail.

Work method statements and logistics strategies developed for main stages of the construction works, outlining the means and methods of safely carrying out the works. Key risks and associated mitigation measures are also detailed.

Details of temporary propping and temporary works, required to ensure structural stability is maintained throughout demolition and excavation.

To help ensure that any ground movements are limited, the selected contractor should be experienced in this sort of work and will be required to engage a competent designer to prepare detailed temporary works proposals and ensure that work on site is well supervised.

A full Construction Management Plan will be produced by the selected contractor following their appointment and submitted to the London Borough of Haringey for Approval prior to works beginning.

Environmental considerations, including site waste management and noise / vibration / dust mitigation.

8 Basement Impact Assessment

8.1 General

The Conceptual Site Model (CSM) is described below:

- The ground conditions of the site generally comprise Made Ground overlying the Bagshot Formation and Claygate Member. The Bagshot Formation thins from west to east and is not observed in the eastern sections of the site.
- Groundwater monitoring indicates finite bodies of local perched groundwater were observed to be present within the Bagshot Formation and Claygate Beds.
- The site is within a wider hillside setting and is founded on a slope, with increasing ground level towards the west.
- The current development on the Dyne House plot comprises the five-storey Dyne House building with one-level basement and the two-storey Gym and Geography Building with no underground space. Dyne House shares a Party Wall with 16 Southwood Lane in the north. The Gym and Geography Building is detached on all sides.
- The current development on the Island plot comprises a two-storey structure with no below ground space / basements. The structure shares Party Walls with the Highgate School Central Hall and Big School buildings to the west and south, respectively.
- The proposed development works on the Dyne House plot comprise the redevelopment of Dyne House and expansion towards Southwood Lane through the construction of a five-storey extension with one-level basement. The Gym and Geography Building will be demolished and a one- to two-level structure with one- to three-level basement will be constructed in its place. A one-level bridge structure linking this new development with the existing Dyne House will also be constructed.
- The Island plot proposed development works involve the demolition of the existing structure and construction of a two-storey structure with one-level basement.
- Neighbouring buildings are assumed to be founded near surface when conducting building damage impact assessment. For the hydrogeological assessment, the neighbouring buildings have been conservatively assumed to have a single storey basement to yield the maximum cumulative impact.
- The nearest highway/footpath adjacent to the proposed basement works is Southwood lane.
- The proposed development may result in limited impact/cosmetic damage to the neighbouring buildings with a maximum damage *Category 1 – Very Slight*. Any potential damage will be mitigated by appropriate construction means and methods (such as temporary propping/shoring and controlled excavation operations).

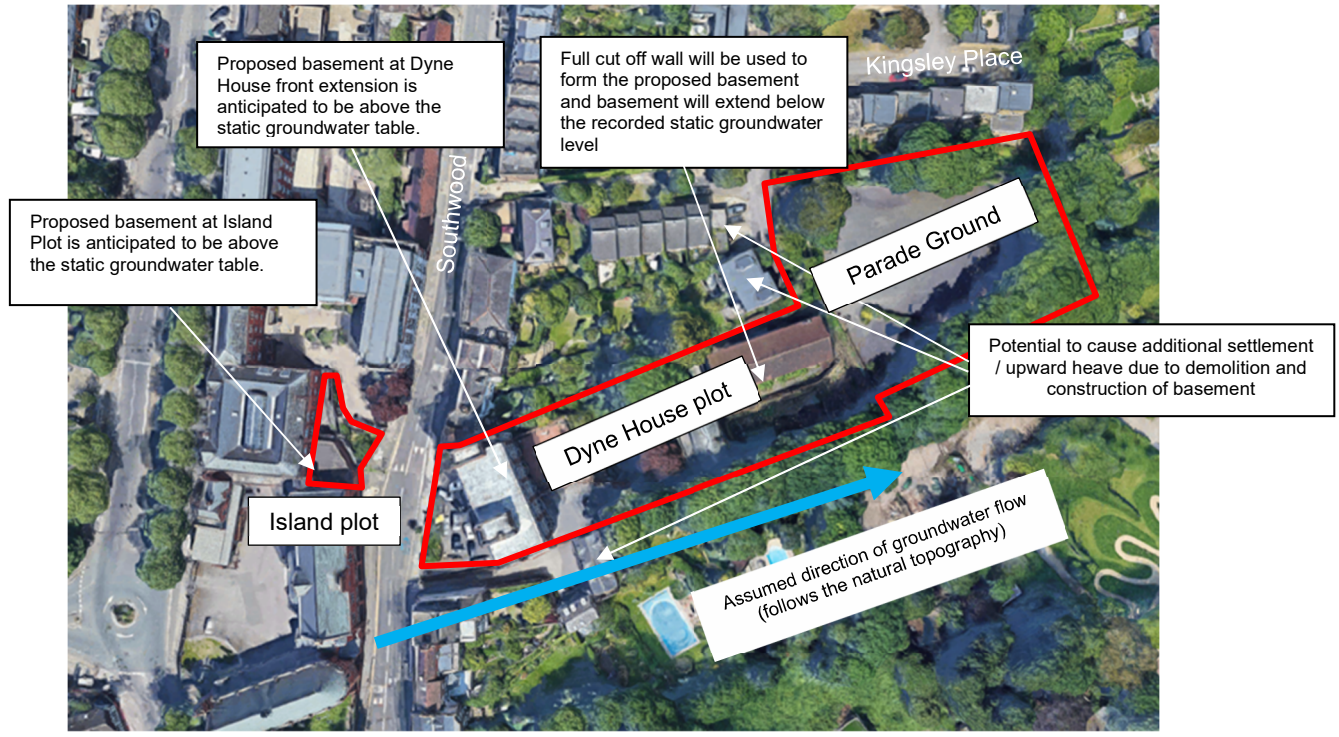


Figure 8-1 Conceptual site model plan

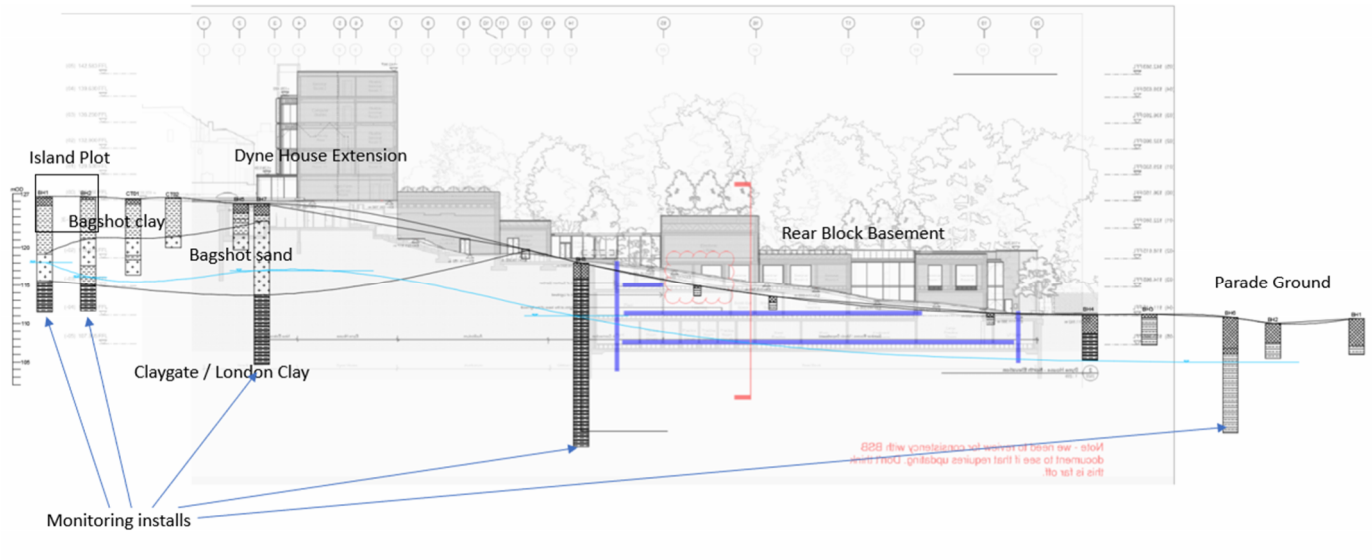


Figure 8-2 Conceptual site model section

8.2 Land Stability / Slope Stability

There is a risk of movement and damage to the development due to volumetric changes of the Claygate Member and London Clay Formation. Evidence of seasonal shrink-swell has been observed during site-specific ground investigations. The scheme design development will consider heave mitigation measures (if appropriate) and the relevant soil structure interaction mechanisms.

A GMA has concluded that ground movements caused by excavation and construction of the proposed development will be limited. The upper bound damage category for surrounding structures within the zone of influence of the proposed development has been assessed as *Category 1 – Very Slight,* in accordance with the Burland Scale.

Assessments of the stability of the adjacent slope and hillside have concluded that no instability is induced by the development.

Preliminary assessments of the impact of the proposed works on the Thames Water sewer running through the site indicate that induced movements do not exceed Thames Water criteria.

The BIA has concluded that the risks to the adjacent properties, slopes and infrastructure (including ultimate and serviceability limit state considerations) is limited and will be mitigated in a reasonable fashion as part of design development.

8.3 Hydrology and Groundwater Flooding

The BIA has concluded that there is a low risk of groundwater flooding. In addition, no evidence of springs on site from local knowledge and site-walkover.

The BIA has identified that construction of the proposed rear basement is likely to result in a local increase in groundwater head of approximately 1m, with this maximum increase coincident with the upstream side of the retaining wall. In the areas surrounding the proposed basement, this effect is lesser. Considering the nature of the existing buildings, anticipated foundations, and depths to the groundwater table, the alterations to the local groundwater flow regime due to the proposed works are expected to have a limited effect on the neighbouring properties.

The BIA concluded that there are no impacts to the wider hydrological environment.

8.4 Hydrology, Surface Water Flooding and Sewer Flooding

The BIA has concluded that there is a very low to low risk of surface water flooding.

The BIA has concluded that there are no significant impacts to the wider hydrological environment.

Appendix A. Site investigation report

SITE INVESTIGATION & BASEMENT IMPACT ASSESSMENT REPORT

Dyne House
Highgate School
London N6

Client: Highgate School

Engineer: A-squared Studio

J15093

September 2015






GEA Geotechnical & Environmental Associates

Document Control

Project title	Dyne House, Highgate School, London, N6 5EE	**Project ref**	J15093
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Issue No	Status	Date	Approved for Issue
1	Final	30 September 2015	

This report has been issued by the GEA office indicated below. Any enquiries regarding the report should be directed to the office indicated or to Steve Branch in our Herts office.

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APPENDIX

EXECUTIVE SUMMARY

This executive summary contains an overview of the key findings and conclusions. No reliance should be placed on any part of the executive summary until the whole of the report has been read. Other sections of the report may contain information that puts into context the findings that are summarised in the executive summary.

BRIEF

This report describes the findings of a site investigation carried out by Geotechnical and Environmental Associates Limited (GEA) on the instructions of A-squared Studio, on behalf of Highgate School, with respect to the refurbishment and extension of the existing Dyne House structure. Additional accommodation and teaching space will be provided by a new extension to the front of Dyne House including a 4 m deep basement and construction of buildings at the rear of the Dyne House including another basement which will be approximately 13.5 m deep. The purpose of the investigation has been to determine the ground conditions, to provide information for the design of new foundations and retaining walls, to assess the impact that the basement will have on the hydrogeology of the surrounding area, and to to provide a preliminary assessment of the presence of contamination. The report also includes a Basement Impact Assessment (BIA) to assist with the planning application; the site is located within the London Borough of Haringey but for the purpose of the BIA the approach followed by the London Borough of Camden has been adopted.

SITE HISTORY

The historical maps indicate the site to have been occupied by a school for its entire development history. The existing layout of the school is shown to have been constructed between maps dated 1935 and 1952 and the existing Dyne House structure was built in the 1960s. The historical maps indicate that the playing field in the east had been subject to re-levelling by the placement of fill between 1935 and 1952. Several pond features were identified within 120 m of the site on the historical maps. A tank was formerly located at the front of Dyne House and was removed in the last 10 to 15 years.

GROUND CONDITIONS

The investigation has generally confirmed the expected ground conditions in that, below a typically moderate, but locally significant thickness of made ground, the Bagshot Formation was found to be underlain by the Claygate Member, which extended to the maximum depth of the investigation, of 24.00 m (94.00 m OD). An increased thickness of made ground was recorded in the east of the site, varying from 0.50 m (110.70 m OD) to 4.0 m (106.80 m OD), reflecting levelling of this area in the 1950s. Elsewhere the made ground extended to depths of 2.3 m (123.40 m OD) and 2.0 m (116.00 m OD) and comprised grey and brown sandy gravelly clay with occasional cobbles of concrete, tile, coal, ash, clinker, metal, slate and redundant pipes. Alluvium was encountered in some boreholes drilled in the east of the site and extended to depths of between 3.75 m (107.25 m OD) and 4.75 m (106.05 m OD). The Bagshot Formation typically comprised firm brown silty sandy gravelly clay with partings of coarse sand to buff silty sand and extended to depths of 6.0 m (112 m OD) and 15.0 m (110.70 m OD). The Claygate Member comprised firm becoming stiff orange-brown or brown and grey silty sandy clay with partings of clayey sand and extended to the maximum depth of the investigation, of 24.00 m (94.00 m OD). Water strikes and groundwater monitoring information generally indicate groundwater to be at a level of about 116 m OD in the west of the site, lowering to around 105 m OD in the east. Contamination testing has indicated elevated concentrations of arsenic, lead and polycyclic aromatic hydrocarbons in samples of made ground tested.

RECOMMENDATIONS

Given the depth of the proposed basements, a bored pile retaining wall is likely to be the most appropriate means of supporting the excavation and some form of groundwater control will be required as water has been measured within the proposed depth of the basement excavations. The redevelopment will not introduce any pathways to the measured contamination, however localised remediation will be required in any new soft landscaping areas. It would be prudent to conduct further investigation around the former tank or carry out a watching brief during construction.

BASEMENT IMPACT ASSESSMENT

It has been concluded that the impacts identified can be mitigated by appropriate design and standard construction practice. Groundwater is expected to be present within the deeper basement excavation and a ground movement assessment and slope stability analysis will allow the design to account for any potential issues.

Part 1: INVESTIGATION REPORT

This section of the report details the objectives of the investigation, the work that has been carried out to meet these objectives and the results of the investigation. Interpretation of the findings is presented in Part 2.

1.0 INTRODUCTION

Geotechnical and Environmental Associates Limited (GEA) has been commissioned by A-squared Studio, on behalf of Highgate School, to carry out a desk study and ground investigation at Dyne House, Southwood Lane, London, N6 5EE. The report also includes a Basement Impact Assessment (BIA) to assist with the planning application; the site is located within the London Borough of Haringey but for the purpose of the BIA the approach followed by the London Borough of Camden has been adopted as it is now widely known and is considered to provide a robust approach to the issues of potential concern.

GEA has previously worked at the site in 2008 and information from the previous investigation (report ref J08021 dated 4 April 2008) is included where necessary.

1.1 Proposed Development

It is understood that consideration is being given to the redevelopment and extension of Dyne House. Construction of additional accommodation and teaching space will include an extension at the front of Dyne House and a 4 m deep basement plus the construction of buildings to the rear of Dyne House which will include a 13.5 m deep basement extending to a level of 103.66 m OD.

This report is specific to the proposed development and the advice herein should be reviewed once the development proposals have been finalised.

1.2 Purpose of Work

The principal technical objectives of the work carried out were as follows:

- to check the history of the site with respect to previous contaminative uses;
- to determine the ground conditions and their engineering properties;
- to provide advice and information with respect to the design of suitable foundations and retaining walls;
- to assess the impact of the proposed basement on the local hydrogeology;
- to determine the feasibility of shallow soakaways;
- to determine the foundation details of shallow foundations;
- to provide an indication of the degree of soil contamination present; and
- to assess the risk that any such contamination may pose to the proposed development, its users or the wider environment.

1.3 Scope of Work

In order to meet the above objectives, a desk study was carried out followed by a ground investigation. The desk study comprised:

- a review of available historical Ordnance Survey (OS) maps;
- a review of readily available geology maps and hydrogeology maps; and
- a walkover survey of the site carried out in conjunction with the fieldwork.

In the light of this desk study an intrusive ground investigation was carried out which comprised, in summary, the following activities:

- three boreholes advanced by cable percussive methods to a maximum depth of 24.00 m;
- a series of boreholes advanced to a maximum depth of 6.00 m by window sampling methods;
- installation of three groundwater monitoring standpipes within the boreholes, to depths of between 6.00 m and 13.00 m;
- installation of five vibrating wire piezometers to depths of between 11.50 m and 23.50 m;
- a series of hand excavated trial pits to investigate the existing foundations;
- a mechanically excavated trial pit to allow a soakage test to be carried out;
- standard penetration tests (SPTs), carried out at regular intervals in the cable percussion borehole, to provide additional quantitative data on the strength of the soils;
- testing of selected soil samples for contamination and geotechnical purposes; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

The report includes a contaminated land assessment which has been undertaken in accordance with the methodology presented in Contaminated Land Report (CLR) 11[1] and involves identifying, making decisions on, and taking appropriate action to deal with, land contamination in a way that is consistent with government policies and legislation within the United Kingdom. The risk assessment is thus divided into three stages comprising Preliminary Risk Assessment, Generic Quantitative Risk Assessment, and Site-Specific Risk Assessment.

1.3.1 Basement Impact Assessment

The work carried out also includes a Hydrological and Hydrogeological Assessment and Land Stability Assessment (also referred to as Slope Stability Assessment), all of which form part of the BIA procedure specified in the London Borough of Camden (LBC) Planning Guidance

1 *Model Procedures for the Management of Land Contamination* issued jointly by the Environment Agency and the Department for Environment, Food and Rural Affairs (DEFRA) Sept 2004

CPG4[2] and their Guidance for Subterranean Development[3] prepared by Arup ("the Arup report"). The aim of the work is to provide information on surface water, land stability and groundwater and in particular to assess whether the development will affect neighbouring properties or groundwater movements and whether any identified impacts can be appropriately mitigated by the design of the development.

1.3.2 Qualifications

The land stability element of the Basement Impact Assessment (BIA) has been carried out by Martin Cooper, a BEng in Civil Engineering, a chartered engineer (CEng), member of the Institution of Civil Engineers (MICE), and Fellow of the Geological Society (FGS) who has over 20 years' specialist experience in ground engineering. The subterranean (groundwater) flow assessment has been carried out by John Evans, MSc in Hydrogeology, Chartered Geologist (CGeol) and Fellow of the Geological Society of London (FGS). The surface water and flooding assessment has been carried out by Rupert Evans, a hydrologist with more than ten years consultancy experience in flood risk assessment, surface water drainage schemes and hydrology / hydraulic modelling. Rupert Evans is a Chartered Environmentalist, Chartered Water and Environmental Manager and a Member of CIWEM.

The assessments have been made in conjunction with Steve Branch, a BSc in Engineering Geology and Geotechnics, MSc in Geotechnical Engineering, a chartered geologist (CGeol) and Fellow of the Geological Society (FGS) with 25 years' experience in geotechnical engineering and engineering geology.

All assessors meet the qualification requirements of the Council guidance.

1.4 Limitations

The conclusions and recommendations made in this report are limited to those that can be made on the basis of the investigation. The results of the work should be viewed in the context of the range of data sources consulted and the number of locations where the ground was sampled. No liability can be accepted for information in other data sources or conditions not revealed by the sampling or testing. Any comments made on the basis of information obtained from the client or other third parties are given in good faith on the assumption that the information is accurate; no independent validation of such information has been made by GEA.

2.0 THE SITE

2.1 Site Description

The site is located approximately 0.75 km southwest of Highgate London Underground Station, and fronts onto Southwood Lane to the west. It is bounded to the north, east and along part of the southern boundary by houses with associated garden areas, whilst what appears to be a storage yard borders the site to the southeast. The site may be additionally located by National Grid Reference 528432, 187532 and is shown on the map extract overleaf.

A walkover of the site was carried out by a geotechnical engineer from GEA at the time of the fieldwork. The site covers an irregular area measuring approximately 170 m west-east by

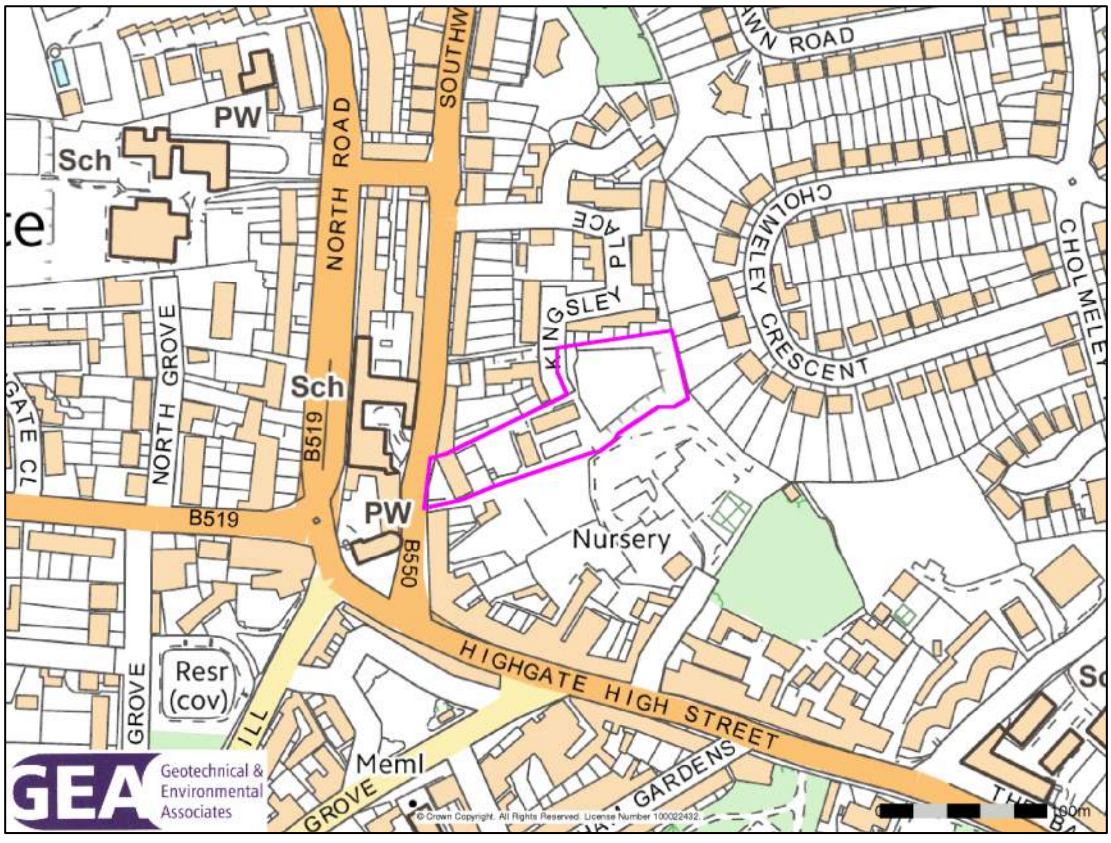
2 London Borough of Camden Planning Guidance CPG4 *Basements and lightwells*
3 Ove Arup & Partners (2010) *Camden geological, hydrogeological and hydrological study. Guidance for Subterranean Development.* For London Borough of Camden November 2010

70 m north-south at its maximum extents and is currently occupied by several school buildings and a playground located in the east. The site slopes relatively steeply down towards the east and south, with the highest point at the western boundary with Southwood Lane, at a level of about 125.80 m OD, reducing to a level of about 111.20 m OD at the playground.

Dyne House is a five-storey block of classrooms with a single level basement and fronts onto Southwood Lane to the west with a small parking area directly in front of the building. A driveway off Southwood Lane leads to an area of parking along the southern boundary of the site.

The two-storey Drama Department building is located in the centre of the site and forms an approximately 'L' shaped building. A disused, 1 m to 2 m deep, outdoor swimming pool is located to the south of this building and was partially filled with vegetation, discarded wood and fencing.

Between Dyne House and the Drama Department building is an area of hardstanding and a steeply sloping bank and retaining wall. The area between Dyne House and the Drama Department building is at a level of about 117.70 m OD. The playground in the east is tarmac covered and a gate provides vehicular access to the playground from Kingsley Place to the north.



Due to the sloping nature of the site there are numerous retaining walls within the site and along the boundary. The northern boundary wall, to the west of Kingsley Place, is a retaining wall varying from 1 m to 3 m high, with the ground to the north at a higher elevation.

A small area of soft landscaping is present at the front of Dyne House and with the exception of vegetated banks along the boundaries the site is essentially all hard covered.

There is a series of semi-mature deciduous trees in the centre of the site which are about 15 m to 18 m high. Parts of the southern boundary are almost entirely covered with semi-mature deciduous trees ranging from about 5 m to 15 m in height and several other trees are located around the playground in the east of the site. A Tree Survey Report has been produced for the site by Arbtech and detailed information is contained within their report dated 10 April 2015.

Anecdotal information from the school suggests that there was formerly an underground heating oil tank located at the front of Dyne House which has recently been removed. Some parts of the pipework are still present within the basement at the front of Dyne House, but the buried pipes that connected to the tank are understood to have been removed at the same time as the tank.

Dyne House forms part of a larger area occupied by Highgate School and buildings on the western side of Southwood Lane are also occupied by the school. The two sites are connected by an underpass which enters the Dyne House basement in the northwestern corner of the site.

2.2 Site History

The site history has been researched by reference to internet sources and historical Ordnance Survey (OS) maps obtained from the Envirocheck database.

The earliest map studied, dated 1864, shows a building on the westernmost part of the site which appears to be labelled as Cholmeley School, a small outbuilding and deciduous trees or possibly an orchard are shown in the centre of the site whilst the eastern part is shown as open land with trees. Houses fronting onto Southwood Lane are shown to the north and south of the site whilst other surrounding land is typically shown as fields. A chapel is shown about 40 m west of the site and a clay pit is shown about 200 m northeast of the site. Four circular features or possible ponds are shown within 20 m to 120 m of the site, towards the north, east, southeast and south of the site.

Cholmeley School was re-labelled as Cholmeley House between 1870 and 1896, and between 1896 and 1915 two buildings were constructed in the centre of the site, along with an outbuilding in the north. The existing housing to the east was constructed between 1915 and 1935. During the same period, Southwood Lodge was constructed to the north and the land immediately adjacent to the north of the site had been subject to levelling and the nearby ponds had also been infilled during this time.

Between 1935 and 1952 the buildings in the centre of the site had been redeveloped with what appears to be the existing building, including the swimming pool adjacent to the southern boundary and the playing field in the east had reportedly been levelled by the placement of fill. Cholmeley House was renamed Dyne House by 1952 and between 1962 and 1968 the original house was redeveloped with the existing building and the entire site is shown in the current layout on the 1968 map.

Southwood Lodge was demolished and redeveloped with the existing housing at some time between 1962 and 1968, whilst the adjacent land to the south continued to be labelled as a nursery.

A Thames Water sewer crosses the site at an assumed depth of approximately 2 m, to the east of Dyne House and the approximate surface trace is shown on the site plan in the appendix.

2.3 Other Information

A search of public registers and databases has been made via the Envirocheck database and relevant extracts from the search are appended. Full results of the search can be provided if required.

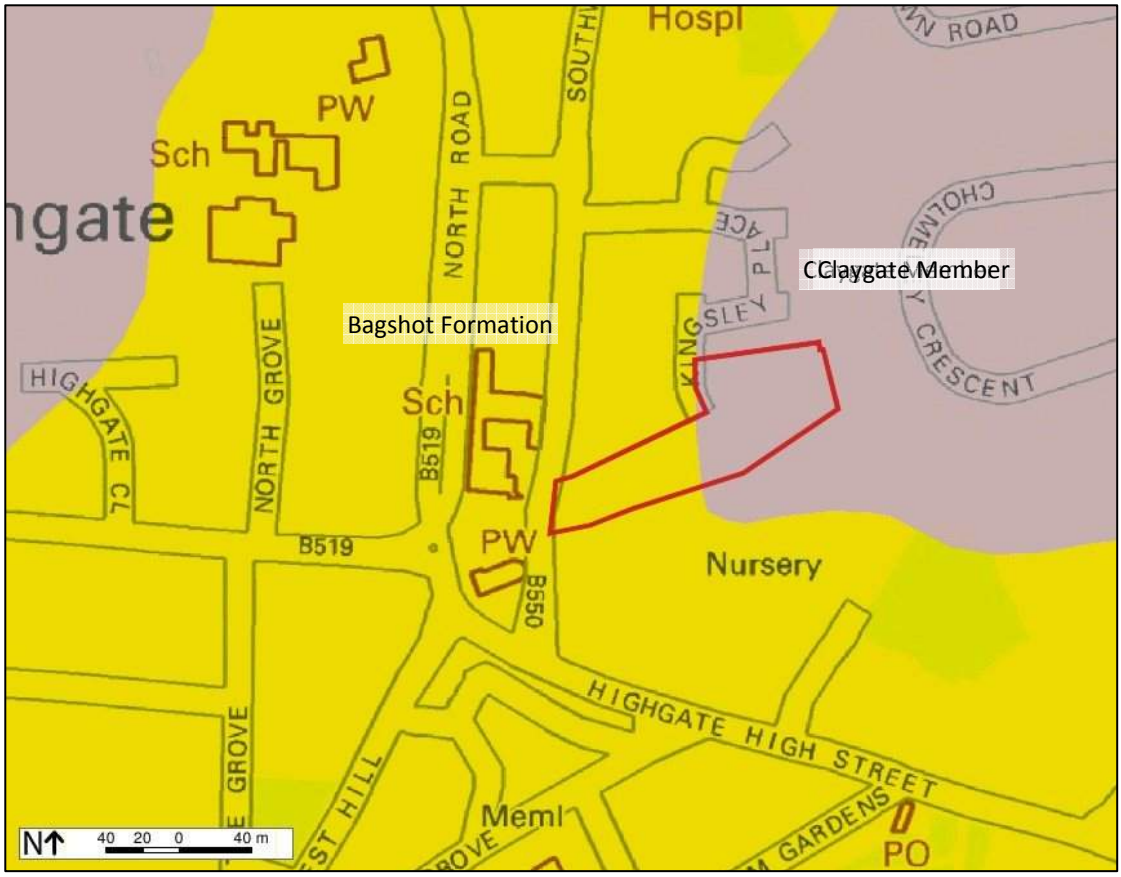
The Envirocheck report has indicated no landfill sites, waste management or waste transfer sites located within 1 km of the site.

Additionally, there have been no pollution incidents to controlled waters within 500 m of the site.

The site is not within an area shown by the Environment Agency to be at risk from flooding from rivers or the sea and does not lie within any known areas of sensitive land use.

Reference to records compiled by the Health Protection Agency (formerly the National Radiological Protection Board) indicates that the site falls within an area where less than 1% of homes are affected by radon emissions and therefore radon protective measures will not be necessary.

2.4 Geology



The extract above of the British Geological Survey map of the area (sheet 256) indicates that the western part of the site is underlain by the Bagshot Formation, overlying the Claygate

Member, whilst the Claygate Member outcrops at the surface in the eastern part of the site, and is in turn underlain by the London Clay Formation. The geology in this area is generally approximately horizontally bedded such that the boundary between the geological formations roughly follows the ground surface contour lines. The boundary of the Bagshot Formation and Claygate Member shown on the map above is at a level of between about 113.50 m OD and 111.00 m OD and the Claygate Member extends to a level of between 95 m OD and 90 m OD.

A borehole drilled by the BGS on Hampstead Lane, generally referred to as the Hampstead Heath borehole, to a depth of 66.74 m (61.97 m OD), about 2.3 km southwest of the site at National Grid Reference 526455, 186890, found the Bagshot Formation to extend to a level of 109.71 m OD and penetrated the full thickness of the Claygate Member. This borehole found the Claygate Member to extend to a level of 93.71 m OD and in the lower 5 m to 10 m of the Claygate Member, it encountered yellowish brown silt interbedded with occasional sand and clay with varying quantities of silt, sand and clay. A band of limestone was encountered between 97.06 m OD and 96.76 m OD. The London Clay was encountered at a level of 93.71 m OD and comprised an initial layer of clayey slightly sandy silt with occasional layers of silty clay extending to a depth of 42.92 m (85.82 m OD) which was underlain by layers of fissured grey clay, silty clay and clayey silt and extended to a depth of 66.74 m (61.97 m OD).

The British Geological Society Lexicon describes the Bagshot Formation as pale yellow-brown to pale grey or white, locally orange or crimson, fine to coarse grained sand that is frequently micaceous and locally clayey, with sparse glauconite and sparse seams of gravel. The sands are commonly cross-bedded but some are laminated. Thin beds and lenses of laminated pale grey to white sandy or silty clay or clay ('pipe-clay') occur sporadically, becoming thicker towards the top of the formation. According to the British Geological Society memoir, the Claygate Member comprises alternating beds of clayey silt, very silty clay, sandy silt and glauconitic silty fine sand. The lower part of the Claygate Member is generally more bioturbated. A bed of calcareous concretions is present near the base in many places.

The London Clay Formation is homogenous, slightly calcareous silty clay to very silty clay, with some beds of clayey silt grading to silty fine grained sand.

The 2008 GEA borehole was drilled from a level of about 118.00 m OD in the centre of the site and encountered the expected ground conditions, in that below a moderate thickness of made ground, the Bagshot Formation was underlain by the Claygate Member which extended to the full depth of the borehole. The made ground comprised brown silty slightly sandy clay with brick fragments and gravel and extended to a depth of 1.0 m. The Bagshot Formation initially comprised loose pale brown very clayey silty medium to coarse sand with occasional fine to medium gravel and layers of orange-brown silty very sandy clay to a depth of 4.0 m, which was underlain by firm orange-brown silty very sandy clay with fine to coarse angular to rounded gravel, partings of grey silt and layers of very clayey silty sand to a depth of 6.0 m (112 m OD). The Claygate Member initially comprised firm becoming stiff dark grey silty slightly sandy clay with partings of orange-brown silty sand to a depth of 8.0 m, which was in turn underlain by stiff becoming very stiff dark grey silty fissured clay to a depth of 11.0 m. Below 11.0 m, very stiff dark grey silty slightly sandy fissured clay was encountered to a depth of 11.5 m and underlain by medium dense dark greenish grey very clayey silty sand to a depth of 12.5 m. Beneath the sand horizon, the Claygate Member comprised very stiff silty very sandy clay and very clayey sand, to the maximum depth investigated of 15.5 m. A claystone was encountered at a depth of 12.5 m within this horizon.

An inflow of groundwater was encountered at a depth of 4.2 m and subsequently rose to a depth of 3.8 m.

2.5 Hydrology and Hydrogeology

The Bagshot Formation and Claygate Member are classified as Secondary 'A' Aquifers, meaning they have permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers as defined by the Environment Agency (EA). The London Clay Formation is classified as Unproductive Strata with soils that have a low permeability and negligible significance to local water supply, as defined by the EA.

Spring lines can be present at the interface of the Bagshot Formation and the Claygate Member, and to a much lesser extent at a lower level at the boundary between the Claygate Member and the underlying, essentially impermeable London Clay. These springs have been the source of a number of London's "lost" rivers, notably the Fleet, Westbourne and Tyburn, which all rose on Hampstead Heath.

The nearest surface water feature to the site is located 339 m to the south of the site which is a pond in Waterlow Park. The site is not within an area at risk from flooding as defined by the EA.

The historical maps indicate several ponds within the vicinity of the site and the boundary between the Bagshot Formation and Claygate Member is located on the site which can be a source of springs. It is likely that any springs in the vicinity of the site would have drained towards the southeast, east or northeast, based on the local topography. Reference to Appendix 4, Map 3.1 in the Haringey Draft Basement Policy[4] indicates that a number of tributaries of Cholmeley Brook originated on or close to the eastern part of the site and flowed eastwards. Historically[5], an eastern tributary of the Fleet originated near Kenwood House, Highgate, which drained into man made ponds before crossing what is now Highgate West Hill toward Swain's Lane, which is southwest of the site, adjacent to Waterlow Park. The Fleet flowed in a southerly direction where it ultimately joined the River Thames near Blackfriars Bridge.

Groundwater is likely to be present within the Bagshot Formation sand and is likely to flow in a generally easterly direction, following topographic contours. Groundwater within the Claygate will also flow toward the east, however at a significantly lower rate than in the Bagshot Formation. Any groundwater flow within the London Clay will be at a very slow rate, due to its negligible permeability. The permeability will be predominantly secondary, through fissures in the clay. Published data indicates the horizontal permeability of the London Clay to generally range between 1×10^{-11} m/s and 1×10^{-9} m/s. Vertical permeability within the Claygate is also likely to be slow in view of the presence of layers of clay, but horizontal permeability is likely to be one or two orders of magnitude higher.

The site is predominantly covered in hardstanding, such that infiltration of rain water into the ground beneath the site is limited to isolated areas of soft landscaping in the west of the site, the centre of the site and the ramp down to the playground. The majority of surface runoff is likely to drain into sewers.

4 Haringey Council Planning Regeneration & Economy, *Draft Basement Development Guidance Note,* June 2012
5 Nicholas Barton (2000) *London's Lost Rivers.* Historical Publications Ltd

2.6 Preliminary Risk Assessment

Part IIA of the Environmental Protection Act 1990, which was inserted into that Act by Section 57 of the Environment Act 1995, provides the main regulatory regime for the identification and remediation of contaminated land. The determination of contaminated sites is based on a "suitable for use" approach which involves managing the risks posed by contaminated land by making risk-based decisions. This risk assessment is carried out on the basis of a source-pathway-receptor approach.

2.6.1 Source

The historical usage of the site that has been established by the desk study and the site walkover indicates that the site has a small potential for contamination in association with the orchard, however the use of the site as a school does not provide obvious sources of contamination at the site, nor are there any nearby in the immediate vicinity. This is with the exception of the possibility of the oil tank at the front of Dyne House, which is a potential source of contamination.

No sources of landfill gas have been identified within 1 km of the site. Several ponds are located within the proximity of the site, but the maps generally indicate these to have been infilled prior to 1935 and it is therefore considered that any generation of gas is now complete. However, traces of hydrocarbons may be present in the soil to the west of Dyne House, associated with the former underground tank, which would be a potential source of soil vapours.

2.6.2 Receptor

The continued use of the site as a school will not result in extensive exposure to the soil and thus represents a moderate to low sensitivity end-use. Being underlain by a Secondary 'A' Aquifer, groundwater is likely to represent a relatively sensitive receptor. Adjacent sites are a potential receptor for contamination migrating off the site.

2.6.3 Pathway

The redevelopment will not create any new exposure pathways for end users. The presence of the building and the hardstanding will effectively form a barrier between any contaminants within the near-surface soils and end users or infiltration of surface water. Only in soft landscaped areas could there be a potential for contaminant exposure pathways, although such pathways are already in existence. Surface water run-off will create a pathway for contamination to reach groundwater and adjacent sites, although this pathway is already in existence.

Buried services will be exposed to any contaminants within the soil through direct contact and site workers will come into contact with the soils during demolition and construction works.

2.6.4 Preliminary Risk Appraisal

On the basis of the above it is considered that there is a low to moderate risk of there being a significant contaminant linkage at this site which would result in a requirement for major remediation work. The moderate assessment is primarily being driven by the presence of the former heating oil tank.

3.0 SCREENING

The London Borough of Camden guidance suggests that any development proposal that includes a subterranean basement should be screened to determine whether or not a full Basement Impact Assessment (BIA) is required.

3.1 Screening Assessment

A number of screening tools are included in the Arup report and for the purposes of this report reference has been made to Appendix E which includes a series of questions within a screening flowchart for three categories; groundwater flow; land stability; and surface water flow. Responses to the questions are tabulated on the following page.

3.1.1 Subterranean (groundwater) Screening Assessment

Question	Response for Dyne House
1a. Is the site located directly above an aquifer?	Yes, the western part of the site is located above the Bagshot Formation and the eastern part is above the Claygate Member, both are Secondary 'A' Aquifers.
1b. Will the proposed basement extend beneath the water table surface?	Likely; the deepest part of the basement will be at a level of about 103.66 m OD, within the Claygate Member and groundwater is likely to be present in the overlying Bagshot Formation.
2. Is the site within 100 m of a watercourse, well (used/ disused) or potential spring line?	Yes, the boundary between the Bagshot Formation and Claygate Member is a potential spring line.
3. Is the site within the catchment of the pond chains on Hampstead Heath?	No. These are located about 600 m southwest of the site and groundwater flowing from the site is likely to flow toward the east.
4. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	Yes, there will be a very small increase in hard surfacing as two small planting beds will be removed.
5. As part of the site drainage, will more surface water (e.g. rainfall and run-off) than at present be discharged to the ground (e.g. via soakaways and/or SUDS)?	Yes, shallow soakaways are being considered however it is likely that the majority of drainage will be discharged as present, to sewers.
6. Is the lowest point of the proposed excavation (allowing for any drainage and foundation space under the basement floor) close to or lower than, the mean water level in any local pond or spring line?	Yes, the basement will extend to a depth of about 103.66 m OD and the potential spring line between the Bagshot Formation and Claygate Member is at a level of about 111.00 m OD.

The above assessment has identified the following potential issues that need to be assessed:

Q1a. The site is located above a Secondary 'A' Aquifer.
Q1b. The proposed basement may extend beneath the water table surface.
Q2. The boundary between the Bagshot Formation and Claygate Member is a spring line.
Q4. The area of hardstanding will increase.
Q5. Shallow soakaways are being considered.
Q6. The basement will extend below a spring line.

The potential issues that need to be assessed, along with the possible effects of the basement construction on the local hydrology and hydrogeology and are discussed further in Part 2 of this report.

3.1.2 Stability Screening Assessment

Question	Response for Dyne House
1. Does the existing site include slopes, natural or manmade, greater than 7°?	Yes, reference to the ARUP Slope Angle Map indicates that the site has slope angles from less than 7° to greater than 10°. Based on site survey information, the angle of the slope at the site is approximately 10°.
2. Will the proposed re-profiling of landscaping at the site change slopes at the property boundary to more than 7°?	Yes, steps will be introduced to connect different levels which will probably have angles greater than 7°.
3. Does the development neighbour land, including railway cuttings and the like, with a slope greater than 7°?	Yes, the ARUP map indicates the surrounding landscape to also have slopes greater than 7°.
4. Is the site within a wider hillside setting in which the general slope is greater than 7°?	Yes, as above, the ARUP map indicates the surrounding landscape to also have slopes greater than 7°.
5. Is the London Clay the shallowest strata at the site?	No, as shown on the geology map
6. Will any trees be felled as part of the proposed development and / or are any works proposed within any tree protection zones where trees are to be retained?	Yes, several trees will be felled.
7. Is there a history of seasonal shrink-swell subsidence in the local area and / or evidence of such effects at the site?	Yes, the area is prone to these effects as a result of the presence of shrinkable Claygate Member and abundant mature trees.
8. Is the site within 100 m of a watercourse or potential spring line?	Yes, the potential spring line between the Bagshot Formation and Claygate Member crosses the site.
9. Is the site within an area of previously worked ground?	No.
10a. Is the site within an aquifer?	Yes, both the Bagshot Formation and Claygate Member are classified as Secondary 'A' Aquifers.
10b. Will the proposed basement extend beneath the water table such that dewatering may be required during construction?	Yes, the previous investigation indicated that groundwater is present at a level of 114.00 m OD and the deepest part of the basement will be at a level of about 103.66 m OD.
11. Is the site within 50 m of Hampstead Heath ponds?	No, the Hampstead Ponds are located over 500 m to southwest of the site.
12. Is the site within 5 m of a highway or pedestrian right of way?	Yes, the site fronts onto a public road to the west and another to the north of the site.
13. Will the proposed basement significantly increase the differential depth of foundations relative to neighbouring properties?	Yes, the development will increase the foundation depths relative to the neighbouring properties to a relatively significant extent.
14. Is the site over (or within the exclusion zone of) any tunnels, eg railway lines?	No, online mapping indicates no nearby tunnels or railway lines.

The above assessment has identified the following potential issues that need to be assessed:

Q1. There are slopes on the site greater than 7°
Q2. Some reprofiling at the site will lead to future slopes greater than 7°
Q3. Neighbouring land is greater than 7°
Q4. Site is within a wider hillside setting where the slopes are generally greater than 7°
Q6. Trees will be removed
Q7. There is a history of seasonal shrink-swell in the Claygate Member
Q8. The site is within 100 of a spring line and watercourse
Q9. The site has an area of worked ground
Q10a. The site is above a Secondary 'A' Aquifer
Q10b. The proposed basement may extend beneath the water table
Q12. The site is within 5 m of a public highway

Q13. The development will increase the foundation depths relative to the neighbouring properties to a relatively significant extent.

The potential issues that need to be assessed, along with the possible effects of the basement construction on the local hydrology and hydrogeology and are discussed further in Part 2 of this report.

3.1.3 Surface Flow and Flooding Screening Assessment

Question	Response for Dyne House
1. Is the site within the catchment of the pond chains on Hampstead Heath?	No. Figure 14 of the Arup report confirms that the site is not located within this catchment area.
2. As part of the proposed site drainage, will surface water flows (e.g. volume of rainfall and peak run-off) be materially changed from the existing route?	No – any additional surface water gained from an increased hardstanding area will be attenuated to ensure they are not increased or altered.
3. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	Yes – two small areas of planting will be removed resulting in a slight increase in the percentage of hardstanding of about 3%.
4. Will the proposed basement development result in changes to the profile of the inflows (instantaneous and long term) of surface water being received by adjacent properties or downstream watercourses?	No – it is proposed to allow for new attenuation to control how water is stored from additional hardstanding areas. The attenuation size will be based upon peak surface water flows and discharge rates into existing sewers will be agreed with Thames Water
5. Will the proposed basement result in changes to the quantity of surface water being received by adjacent properties or downstream watercourses?	No - the proposed basement is very unlikely to result in any changes to the quality of surface water being received by adjacent properties or downstream watercourses. It is proposed to allow for new attenuation to control how water is stored from additional hardstanding areas.
6. Is the site in an area known to be at risk from surface water flooding such as South Hampstead, West Hampstead, Gospel Oak and Kings Cross, or is it at risk of flooding because the proposed basement is below the static water level of a nearby surface water feature?	Yes. The Haringey SFRA indicates a low risk from rivers and reservoirs. However, the Environment Agency online flood map shows that the part of the site intended for the basement and above ground works has a very low to low flooding risk from surface water. The area of hardstanding across the north east part of the site has a low and medium surface water flooding risk. The basement is likely to be constructed within perched water tables, however, the mitigation measures outlined in this BIA such as tanking the basement will reduce the risk to acceptable levels. The site is located within the Haringey Drainage Area number HDA-01 as identified in the Haringey SFRA. Therefore, a flood risk assessment may be required.

The above assessment has identified the following potential issues that need to be assessed further.

Q3 The area of hardstanding will increase by about 3%.
Q6 The site is in an area of low risk of flooding.

The basement will largely be beneath the footprint of the buildings and existing hardstanding area, such that the 1m distance between the roof of the basement and ground surface as recommended by Chapter 5 of the Arup report does not apply across these areas. However, as the basement and development will also extend into parts of the site that are currently permeable, these parts will have a distance between the roof of the basement and ground surface of less than 1 m. It is considered that the use of SUDS attenuation will mitigate any impact by not meeting the 1 m requirement.

4.0 SCOPING AND SITE INVESTIGATION

The purpose of scoping is to assess in more detail the factors to be investigated in the impact assessment. Potential impacts are assessed for each of the identified potential impact factors.

The potential impacts of the proposed development on surface flow and flooding and subterranean flow will need to be dealt with in separate assessments, such that the following section focuses on the potential impacts that may have an impact on slope stability.

4.1 Potential Impacts

The following potential impacts have been identified.

Potential Impact	Consequence
The site is located above a Secondary 'A' Aquifer and the basement may be below the groundwater table.	The basement may alter the groundwater regime and result in a upstream damming effect or divert the groundwater flow to cause flooding. Dewatering can cause settlement issues.
The site is on a potential spring line and the basement may impact on the groundwater regime. Additionally, groundwater may flow into the basement excavation and if infiltration is reduced this may decrease stability.	The basement may alter the existing groundwater regime, either by increasing or decreasing the flow or it may reactivate old springs in the vicinity. It may also impact groundwater quality downstream. Water flowing into the excavation would decrease stability of the excavation. Seasonal spring lines can also affect slope stability.
An increase in hardstanding will decrease the recharge to the underlying aquifer.	Groundwater flow levels may decrease and the groundwater regime may be altered leading to potential instability, and reduction in groundwater quality.
The usage of shallow soakaways may increase groundwater flow in some areas.	An increase in flow will change the groundwater regime and may activate old springs, change water quality and potentially cause instability.
Slopes greater than 7° on and surrounding the site may be unstable	Changes to slopes with an angle greater than 7° may induce ground instability on the site and surrounding area.
Trees being removed and seasonal shrink-swell can result in foundation movements.	If a new basement is not dug to below the depth likely to be affected by tree roots this could lead to damaging differential movement between the subject site and adjoining properties. Removing trees can result in heave in desiccated soil. However at this site the trees will be removed in areas underlain by the Bagshot Formation, and seasonal shrink swell is not considered to be an issue in this predominantly sandy soil.
Worked ground comprises unpredictable material	The made ground could be loose or comprise soft or hard material or layers which could lead to instability in excavations and groundwater flow may be difficult to determine.
Site within 5 m of a highway or pedestrian right of way.	Excavation of a basement may result in structural damage to the road or footway.
Founding depths relative to neighbours.	If not designed and constructed appropriately, the excavation of a basement may result in structural damage to neighbouring buildings and structures.
There may be a risk of flooding	The proposed basement may flood

These potential impacts have been investigated through the site investigation, as detailed in Section 9.0.

4.2 Exploratory Work

In view of the limited access and in order to meet the objectives described in Section 1.2 as far as possible within these access constraints, three boreholes were advanced to depths of 15.00 m, 21.00 m and 24.00 m by means of cable percussion techniques; two of the boreholes were drilled using a dismantlable rig whilst the third was drilled using a standard rig. In addition, five window sampler boreholes were drilled across the site to a maximum depth of 6.00 m. Seven trial pits were hand excavated to expose the existing foundations of buildings on site and boundary walls and two trial pits were mechanically excavated to enable a soakage test to be carried out.

During boring, disturbed and undisturbed samples were obtained from the boreholes for subsequent laboratory examination and testing. Standard Penetration Tests (SPTs) were carried out at regular intervals to provide additional quantitative data on the strength of soils encountered.

Three groundwater monitoring standpipes were installed, within Borehole Nos 6, 7 and 8 to depths of 8 m, 13 m and 6 m respectively. Vibrating Wire Piezometers (VWPs) were installed in Borehole Nos 7 and 8. The VWP tips were placed at depths of 16 m and 21 m in Borehole No 7 and 11.5 m, 17.5 m and 23.5 m in Borehole No 8. The standpipes in Borehole Nos 6 and 7 have been monitored on three occasions; the standpipe in Borehole No 8 and the VWPs have been monitored on a single occasion.

A selection of the samples recovered from the boreholes was submitted to a soil mechanics laboratory for a programme of geotechnical testing and an analytical laboratory for a programme of contamination testing.

All of the above work was carried out under the supervision of a geotechnical engineer from GEA.

The borehole records and results of the contamination laboratory testing are appended, together with a site plan indicating the exploratory positions. The Ordnance Datum (OD) levels indicated on the borehole and trial pit records and quoted within the report have been interpreted from spot heights shown on a topographical survey drawing provided by A-squared Studio (ref 1040/GA/002, dated April 2014).

4.3 Sampling Strategy

The borehole and trial pit locations were generally specified by A-squared Studio and agreed on site with GEA, in accessible areas whilst avoiding areas of buried services.

It was originally proposed to drill a series of boreholes in proximity of the former tank but access restrictions and the presence of buried obstructions and services prevented these from being carried out. A cable percussion borehole, Borehole No 9 was commenced in close proximity to the former location of the tank, but was abandoned at a depth of 2.0 m due to a significant thickness of concrete. It was originally proposed to drill Borehole No 8 to a depth of 25 m, but the presence of a claystone and associated water strike at 23.0 m prevented the borehole achieving the proposed depth.

Seven samples of made ground were subjected to analysis for a range of common industrial contaminants and contamination indicative parameters. For this investigation the analytical suite for the soil included a range of metals, speciation of total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), total cyanide and monohydric phenols. The

soil samples were selected to provide a general view of the chemical conditions of the soils that are likely to be involved in a human exposure or groundwater pathway and to provide advice in respect of re-use or for waste disposal classification. In addition, a single sample was also scheduled for Waste Acceptance Criteria testing.

The contamination analyses were carried out at a MCERTs accredited laboratory with the majority of the testing suite accredited to MCERTS standards. Details of the MCERTs accreditation and test methods are included in the Appendix together with the analytical results.

5.0 GROUND CONDITIONS

The investigation has generally confirmed the expected ground conditions in that, below a typically moderate, but locally significant thickness of made ground, the Bagshot Formation was found to be underlain by the Claygate Member, which extended to the maximum depth of the investigation, of 24.00 m (94.00 m OD).

5.1 Made Ground

The made ground encountered in the playground extended to depths of between 0.50 m (110.70 m OD) and 4.0 m (106.80 m OD) and was found to be shallower in the northwestern corner and deeper toward the south and east of the playground, where more filling is likely to have occurred. The made ground comprised various layers including dark brown and grey clayey occasionally gravelly sand with coal, charcoal and brick fragments, grey and brown sandy gravel, with whole bricks, occasional fragments and sections of concrete up to about 400 mm in diameter, tile, coal, ash, clinker, metal, slate and redundant pipes.

The made ground elsewhere on site typically comprised brown and grey clayey gravelly sand with pockets of clay and fragments of brick or brown sandy gravelly clay with pockets of cobbles of brick which extended to depths of between 1.2 m (124.50 m OD) and 2.0 m (116.00 m OD).

A significant thickness of concrete and compacted brick was encountered in Borehole No 9, the base of which was not proved but extended beyond 2.0 m and is likely to be associated with the infilling of the former tank excavation.

Apart from the presence of fragments of extraneous material noted above, no visual or olfactory evidence of contamination was observed during the fieldwork. Seven samples of the made ground have been sent for contamination testing and the results are presented in Section 5.6.

No obvious olfactory signs of contamination were noted in boreholes drilled near the former tank to the front of Dyne House.

5.2 Alluvium

Alluvium was encountered in Borehole Nos 1, 2 and 6 which were drilled in the east of the playground area. It comprised either firm grey mottled brown and slightly organic silty sandy clay or grey and black slightly organic sand with occasional gravel, grading into a sandy gravelly clay which extended to depths of between 3.75 m (107.25 m OD) and 4.75 m (106.05 m OD). These boreholes were drilled in the east of the site and the Alluvium may be associated with the former tributaries of Cholmeley Brook in this area.

The results of laboratory testing indicate organic contents of 2.1 % and 2.6 % in this soil.

No evidence of contamination was noted in these soils.

5.3 Bagshot Formation

The Bagshot Formation was encountered in Borehole Nos 5, 7 and 8 and typically comprised firm, low strength brown silty occasionally very sandy gravelly clay with partings of coarse sand, orange-brown very clayey fine to coarse sand with occasional fine gravel and light brown to buff slightly silty fine sand and extended to depths of 6.0 m (112 m OD) and 12.0 m (113.70 m OD).

5.4 Claygate Member

The Claygate Member comprised firm becoming stiff, high to very high strength orange-brown or brown and grey silty occasionally sandy clay with indistinct partings of clayey sand or silt and extended to the maximum depth of the investigation, of 24.00 m (94.00 m OD).

The clay was visually assessed to be partially desiccated in Borehole No 3 to a depth of 1.0 m.

Claystones were encountered in Borehole No 7 at a depth of 20.70 m (105.00 m OD) and Borehole No 8 at a depth of 23.0 m (95.00 m OD).

The results of laboratory plasticity index tests indicate that the clay is of medium to high volume change potential.

No evidence of contamination was noted in these soils.

5.5 Groundwater

Seepages of groundwater were encountered in the Bagshot Formation at depths of 4.0 m (121.70 m OD) and 6.0 m (119.70 m OD) in Borehole No 5. Borehole No 7 encountered a groundwater strike at 9.0 m (116.70 m OD) which rose to 8.0 m after a rest period of 20 minutes and seepages were also encountered in Borehole No 8 at depths of 4.30 m (113.70 m OD) and 6.27 m (111.73 m OD), the latter of which rose to a depth of 5.70 m after a rest period of 20 minutes.

Groundwater inflows were also encountered within the Claygate Member; Borehole No 4 encountered a seepage at a depth of 4.0 m (107.15 m OD) and Borehole No 6 encountered a seepage at 6.0 m (104.80 m OD). Borehole Nos 7 and 8 encountered slow inflows at depths of 21.00 m (104.70 m OD) and 14.70 m (103.30 m OD) respectively which both rose after a rest period of 20 minutes by 3 m and 2.4 m respectively. Numerous seepages of groundwater were encountered below about 15 m in Borehole No 8.

The results of the monitoring of the three standpipes and three VWPs are shown in the table below.

Table 1			
Date	Depth To Groundwater (mbgl) [Level (m OD)}		
	BH6	BH7	BH8
	Claygate Member	Bagshot Formation	Bagshot Formation
15/4/2015	5.65 [105.15]	7.75 [117.95]	n/a
27/5/2015	5.13 [104.87]	8.12 [117.58]	n/a
9/6/15	5.35 [105.45]	8.16 [117.54]	2.30 [115.70]

Table 2					
VWP monitoring data (9/6/15)					
	BH7		BH8		
Depth of installations (level)	16.00 (109.70)	21.00 (104.70)	11.50 (106.5)	17.50 (100.5)	23.50 (94.50)
Geological formation	Claygate	Claygate	Claygate	Claygate	Claygate
Approximate pore water pressure (kPa)	65 to 71	65	45	104	155
Approximate depth to water (m) (Level m OD)	9.38 to 8.77 (116.32 to 116.93)	14.38 (111.32)	6.92 (111.08)	6.9 (111.10)	7.7 (110.3)

The monitoring indicates a groundwater level at around 117.95m OD to 115.70m OD in the west of the site. The water level across the site generally mirrors the topography with a water level measured at around 111.1 m OD in the centre of the site and at 105.00 m OD in the east.

The groundwater levels indicate a hydraulic gradient down towards the east, generally following the topography.

The piezometers indicate pore water pressures in the Claygate Member in the region of 45 kPa to 70 kPa. Higher pore water pressures have been measured in piezometers below the measured water table in the Claygate Member.

The raw data from the vibrating wire piezometer monitoring is included in the appendix.

5.6 Soil Contamination

The table below sets out the range of values measured within seven samples analysed; all concentrations are in mg/kg unless otherwise stated.

Determinant	Maximum Concentration	Minimum Concentration	Number of samples below detection limit
Arsenic	**150**	19	none
Cadmium	26	0.1	none
Chromium	83	32	none
Copper	700	37	none
Mercury	1.4	0.49	none
Nickel	110	16	None
Lead	**5900**	230	none
Selenium	0.31	<0.2	four
Zinc	2000	120	none
Total Cyanide	<0.5	<0.5	seven
Total Phenols	<0.3	<0.3	seven
Sulphide	30	1.6	none
Total PAH	250	17	none
Benzo(a)pyrene	24	1.3	none
Naphthalene	1.8	<0.1	two
TPH	420	20	none
Total Organic Carbon %	13	1.1	none
Figure in bold indicates concentration in excess of risk-based soil guideline values, as discussed in Part 2 of this report			

5.6.1 Generic Quantitative Risk Assessment

The use of a risk-based approach has been adopted to provide an initial screening of the test results to assess the need for subsequent site-specific risk assessments. To this end the table below indicates those contaminants of concern that have values in excess of a generic human health risk based guideline values which are either that of the CLEA[6] Soil Guideline Value where available, or is a Generic Screening Value calculated using the CLEA UK Version 1.06[7] software assuming a residential end use with plant uptake, or is based on the DEFRA Category 4 Screening values[8]. The key generic assumptions for this end use are as follows:

- that groundwater will not be a critical risk receptor;
- that the critical receptor for human health will be young female children aged zero to six years old;
- that the exposure duration will be six years;

6 *Updated Technical Background to the CLEA Model (Science Report SC050021/SR3) Jan 2009* and Soil Guideline Value reports for specific contaminants; all DEFRA and Environment Agency.
7 Contaminated Land Exposure Assessment (CL|EA) Software Version 1.06 Environment Agency 2009
8 CL:AIRE (2013) *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination* Final Project Report SP1010 and DEFRA (2014) *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination* Policy Companion Document SP1010

- that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and indoor dust, and inhalation of indoor and outdoor dust and vapours; and

- that the building type equates to a two-storey small terraced house.

It is considered that these assumptions are acceptable for this generic assessment of this site, although conservation as the site is a school and exposure pathways will be significantly less. The tables of generic screening values derived by GEA and an explanation of how each value has been derived are included in the Appendix.

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of these generic screening values there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include;

- additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;

- site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or

- soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.

The concentrations of the contaminants of concern highlighted by a comparison of the measured concentrations against the generic screening values are arsenic, lead and several components of polycyclic aromatic hydrocarbons (PAH) and total PAH.

Contaminant of Concern	Maximum concentration recorded (mg/kg)	Location(s) of elevated concentration(s)	Generic Risk-Based Screening Value
Arsenic	150	BH2 0.5 m BH4 0.80 m	40
Lead	5900	BH1 0.5 m BH2 0.5 m BH3 0.3 m BH4 0.8 m BH5 0.8 m TP7 0.2 m	310
Total Organic Carbon	13	BH2 0.5 m BH3 0.3 m BH4 0.8 m	6
Benzo(a)anthracene	21	BH1 0.5 m BH2 0.5 m	9.4
chrysene	24	BH1 0.5 m BH2 0.5 m	15
Benzo(b)fluoranthene	29	BH1 0.5 m BH2 0.5 m	11.2

Contaminant of Concern	Maximum concentration recorded (mg/kg)	Location(s) of elevated concentration(s)	Generic Risk-Based Screening Value
Benzo(a)pyrene	24	BH1 0.5 m BH2 0.5 m	5.3
Indendo(1,2,3-c,d)pyrene	16	BH1 0.5 m BH2 0.5 m	6.7
Dibenzo(a,h)anthracene	4.6	BH1 0.5 m BH2 0.5 m	1.41
Total PAH	250	BH1 0.5 m BH2 0.5 m	75.7

The significance of these results is considered further in Part 2 of the report.

5.7 Existing Foundations

The findings of the trial pits are summarised in the table below. Sketches and photographs of each pit are included in the Appendix.

Trial Pit No	Structure	Foundation detail	Bearing Stratum
1	Drama building	Corbels and concrete strip Top 70 mm Base 690 mm Lateral projection 450 mm	Firm brown mottled orange-brown and grey sandy gravelly clay
2	Retaining wall along northern boundary	Variable, concrete strip and brick Top zero to 40 mm Base 400 mm to 700 mm Lateral projection zero to 1050 mm	Made ground and firm brown silty sandy clay
3	Retaining wall along northern boundary	Variable, brick corbel and concrete Top 60 mm to 200 mm Base 50 mm to 800 mm Lateral projection 90 mm to 1000 mm	Dark orange-brown clayey sand
4	Retaining wall along northern boundary	Concrete Top 70 mm Base 190 mm to 210 mm Lateral projection zero to 1000 mm	Firm brown silty slightly sandy clay
5	Southern boundary fence	Concrete beam Top n/a Base 100 mm Lateral projection zero	Made ground
6	Southern boundary fence	Cobbles Top 210 mm Base 390 mm Lateral 60 mm	Brown clayey silty sand
7	Retaining wall along southern boundary	Concrete strip Top 100 mm Base 520 mm Lateral 600 mm	Made ground

Part 2: DESIGN BASIS REPORT

This section of the report provides an interpretation of the findings detailed in Part 1, in the form of a ground model, and then provides advice and recommendations with respect to the basement excavation and the potential impact on the hydrogeology.

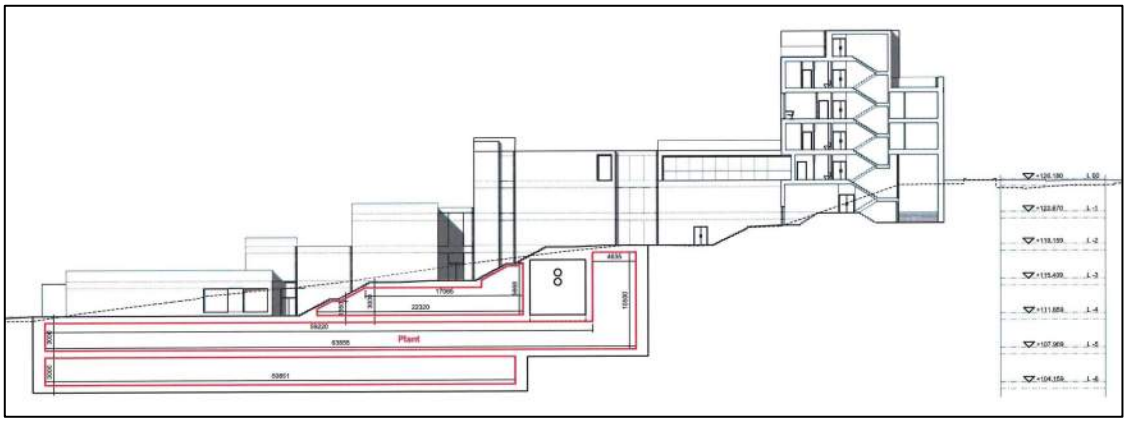
6.0 INTRODUCTION

It is understood that consideration is being given to the redevelopment and extension of the existing Dyne House structure and construction of additional accommodation and teaching space. The development will include the extension of Dyne House towards the front and rear, each with a separate basement structure. The extension at the front of the Dyne House will comprise a single level basement over three-storeys, the basement is assumed to be about 4 m deep extending to a level of about 121.00 m OD.

The extension at the rear will be more extensive, replacing the existing Drama Department building, and will comprise single storey to three-storey buildings over a double and triple level basement. The maximum depth of the basement excavation will be about 13.50 m, extending to levels of about 106.66 m OD and 103.66 m OD.

Loads are anticipated to be moderate to high.

The section below provides an indication of the extent of the proposed basement.



7.0 GROUND MODEL

The desk study indicated that the site has been used as part of a school for its entire development history, although the maps indicate several buildings to have occupied the site, and on the basis of the fieldwork, the ground conditions at this site can be characterised as follows:

- The site is underlain by a moderate to significant thickness of made ground overlying the Bagshot Formation which is underlain by the Claygate Member;
- a Thames Water sewer crosses the site;
- the made ground generally extends to depths of between about 1.0 m and 2.0 m across

the site, with an increase in thickness in the east of the site of up to 4.0 m where historical regrading has occurred;

- made ground generally comprises grey and brown sandy gravelly cobble with occasional boulders and fragments of concrete and tile, coal, ash, clinker, metal, slate and redundant pipes to brown silty clay;
- Alluvium comprising organic clay or organic clayey gravely sand and extends to depths of between 3.75 m (107.25 m OD) and 4.75 m (106.05 m OD) in the east of the site;
- the Bagshot Formation was encountered on the higher ground in the west of the site and comprises either firm brown silty very sandy gravelly clay or light brown to buff silty fine sand and extends to depths of between 6.0 m (112.00 m OD) and 12.0 m (113.70 m OD);
- the Claygate Member comprises firm becoming stiff and very stiff orange-brown or brown and grey silty occasionally sandy clay with indistinct partings of clayey sand or silt and extends to the maximum depth investigated, of 24.00 m (94.00 m OD);
- the clay was visually assessed to be partially desiccated in Borehole No 3 to a depth of 1.0 m;
- groundwater has been measured at a level of approximately 116 m OD in the west of the site, lowering to around 105 m OD in the east;
- groundwater flow is likely to be toward the east; and
- contamination testing has indicated elevated concentrations lead, arsenic, several constituent PAH's and total PAH in the made ground.

8.0 ADVICE AND RECOMMENDATIONS

Given the depth of the proposed basements, it would be practical to consider using a bored piled retaining wall to support the excavation and some form of groundwater control will be required in the deep basement excavation as groundwater inflows will be encountered.

The redevelopment will not introduce any pathways from measured contamination, but localised remediation will be required in soft landscaping areas. It would be prudent to maintain a watching brief during construction.

8.1 Basement Construction

8.1.1 Basement Excavations

It is understood that the the basement excavations will have three levels; the basement to the front of Dyne House will be about 4 m deep, to a level of about 121.00 m OD and the basement to the rear of Dyne House will extend to depths of about 10.50 m (106.66 m OD) and 13.50 m (103.66 m OD). Formation level for the shallowest basement will be within the Bagshot Formation and for the deeper sections will be in the Claygate Member.

Groundwater seepage was noted at depths of 4.0 m (121.70 m OD), 6.0 m (119.7 m OD) and

9.0 m (116.7 m OD) in the location of the shallowest basement at the front of Dyne House. On this basis water may be present near the base of the excavation, although monitoring has indicated groundwater to be present at a depth of about 8.0 m (117 m OD) in the west of the site, which is below the assumed basement depth in this area. Monitoring of the standpipes should be continued to provide an understanding of water levels across the site and whether the groundwater in the Claygate and Bagshot Formations are connected hydraulically.

The deeper basement in the central and eastern part of the site which will extend to a level of about 103.66 m OD is likely to encounter groundwater. Initial inflows can be expected from within the Bagshot Formation at around 115 m OD in the western part of the excavation, lowering to 105 m OD in the east. As noted above, monitoring of the standpipes should however be continued to establish equilibrium levels and determine the extent of any seasonal fluctuations.

It would therefore be prudent, once access is available, to carry out a number of trial excavations, to depths as close to the full basement depth as possible, to provide an indication of the likely groundwater conditions. It is likely that the rate of groundwater inflow may be significant near the base of the Bagshot Formation and relatively slow within the clayey Claygate Member but it is recommended that the selected contractor has a contingency plan in place to deal with more significant or prolonged inflows as a precautionary measure if a watertight temporary retention scheme is not adopted.

The design of basement support in the temporary and permanent conditions needs to take account of the need to maintain the stability of the excavation, slopes and surrounding structures, namely the neighbouring houses to both the north and south, and to protect against groundwater inflows. The depth of the foundations of the nearby buildings is unknown.

The most appropriate form of supporting the basement excavations may be by some form of bored pile wall, which would have the advantage of being incorporated into the permanent works and will be able to provide support for structural loads. The monitoring carried out to date indicates that groundwater will be encountered within the excavation; it is therefore recommended that a secant wall should be adopted, particularly in the central part of the site.

The ground movements associated with the basement excavation will depend on the method of excavation and support and the overall stiffness of the basement structure in the temporary condition. Thus, a suitable amount of propping will be required to provide the necessary rigidity. In this respect the timing of the provision of support to the wall will have an important effect on movements.

An assessment of the ground movements associated with the basement excavation may be required as part of the planning process or could be completed as design progresses.

8.1.2 Retaining Walls

The following parameters are suggested for the design of the permanent basement retaining walls.

Stratum	Bulk Density (kg/m^3)	Effective Cohesion (c' – kN/m^2)	Effective Friction Angle (Φ' – degrees)
Made ground	1700	Zero	27
Bagshot Formation (clay)	1850	Zero	24
Bagshot Formation (sand)	1850	Zero	33
Claygate Formation	1950	Zero	25

Monitoring has indicated that groundwater will not be encountered in the shallow basement to the front of Dyne House, monitoring should be continued to confirm the design water level in this area. Groundwater will be encountered in the deeper basement excavation at the rear of Dyne House and further monitoring should be done to confirm the design water level, however this is likely to be at a level of about 115 m OD. Reference should be made to BS8102:2009[9] with regard to requirements for waterproofing and design with respect to groundwater pressures.

8.1.3 Basement Heave

It is unlikely that any significant heave will be realised at the base of the 4 m deep basement upon the assumption that about 11 m of sand will remain above the Claygate Member, however it may be prudent to check this once loads are known.

The proposed construction of the deep basement will result in an unloading of the Claygate Member at formation level. The excavations will result in an approximate unloading of around 270 kN/m^2 which will result in an elastic heave and long term swelling of Claygate Member and underlying London Clay.

The effects of these movements will need to be considered in more detail once the basement design has been finalised and a Ground Movement Analysis (GMA) is proposed to be carried out.

8.2 Spread Foundations

The excavation of the shallow basement will result in a formation level within the Bagshot Formation and it should be possible to adopt moderate width pad or strip foundations in the dense sand, designed to apply a net allowable bearing pressure of 120 kN/m^2 below the level of the proposed basement floor. It is unlikely that it will be possible to attain the required depths without encountering groundwater inflows, and if inflows are such that spread foundations cannot be utilised, then recourse should be made to the use of a piled foundation solution.

8.3 Piled Foundations

For the ground conditions at this site, driven or bored piles could be adopted. Driven piles would have the advantage of minimising the spoil that is generated, but consideration would need to be given to the effects of noise and vibrations on neighbouring sites. Some form of bored pile may therefore be more appropriate. A conventional rotary augered pile could be

9 BS8102 (2009) *Code of practice for protection of below ground structures against water from the ground*

considered, but temporary casing would be needed to protect against groundwater inflows and instability from within the made ground, Bagshot Formation and Claygate Member. Therefore, to avoid the requirement for casing, bored piles installed using continuous flight auger (cfa) techniques may be more appropriate.

The following tables of ultimate coefficients may be used for the preliminary design of bored piles, for retaining walls and for any structural loads, based on the measured SPT & cohesion / level graph in the appendix. For the purposes of preliminary design, the boundary between the Bagshot Formation and Claygate Member has been assumed to be at 113.00 m OD. Groundwater has been assumed to be at a level of 116 m OD.

Stratum	Level m OD	kN / m^2
Ultimate Skin Friction		
Made Ground, Bagshot Formation, Claygate Member	GL to 4.00 (126.00 m OD to 122.00 m OD) and GL to 13.5 m (118 m OD to 104 m OD)	Ignore (Basement excavations)
Bagshot Formation (ϕ= 36)	122.00 m OD to 113.00 m OD	65
Claygate Member (BH8) (α=0.5)	113.00 m OD to 106.00 m OD	Increasing linearly 50 to 90
Claygate Member (BH6) (α=0.5)	106.00 m OD to 94.00 m OD	Increasing linearly 35 to 70
Ultimate End Bearing		
Bagshot Formation	118 m OD to 116 m OD	Increasing linearly 9,300 to 11,700
Claygate Member (BH8) (α=0.5)	113.00 m OD to 106.00 m OD	Increasing linearly 945 to 1665
Claygate Member (BH6) (α=0.5)	106.00 m OD to 94.00 m OD	Increasing linearly 630 to 1350

On the basis of the above coefficients and using factor of safety of 3.0 it has been estimated that a 450 mm diameter pile extending 10 m below ground level or 6.0 m below the shallow basement level of about 124 m OD to 114 m OD, should provide a safe working load of about 800 kN.

Using the lower cohesion values for the Claygate Member encountered in Borehole No 6, 450 mm diameter piles extending to a level of about 94 m OD, or about 10 m below the deepest part of the deeper basement should provide a safe working load of about 340 kN.

The above examples are not intended to constitute any form of recommendation with regard to pile size or type, but merely serve to illustrate the use of the above coefficients. Specialist piling contractors should be consulted with regard to the design of an appropriate piling scheme, and

their attention should be drawn to the presence of groundwater within the Bagshot Formation, Claygate Member, claystones and sloping nature of the site and apparent variability in strength of the Bagshot Formation and Claygate Member horizontally.

8.4 Shallow Excavations

On the basis of the trial pit findings it is considered likely that it will not be feasible to form relatively shallow excavations terminating within the made without the requirement for lateral support.

Where personnel are required to enter excavations, a risk assessment should be carried out and temporary lateral support or battering of the excavation sides considered in order to comply with normal safety requirements.

Inflows of groundwater are likely to be encountered in shallow excavations from perched water tables within the made ground, such inflows should be suitably controlled by sump pumping.

8.5 Basement Floor Slab

Following the excavation of the deeper basement, it is possible that the floor slab for the proposed basement will need to be suspended over a void or layer of compressible material to accommodate the anticipated heave and any potential uplift forces from groundwater pressures unless the slab can be suitably reinforced to cope with these movements. This should be reviewed once the levels and loads are known. Consideration may need to be given to the requirement for tension piles.

It should be possible to adopt a ground bearing floor slab for the shallow basement floor slab, assuming soft spots are identified and remove and replaced with suitable fill.

8.6 Effect of Sulphates

Chemical analyses has revealed relatively low concentrations of soluble sulphate and near-neutral pH in accordance with Class DS-1 conditions of Table C2 of BRE Special Digest 1:SD Third Edition (2005). The measured pH values of the samples show that an ACES class of AC-1 would be appropriate for the site. This assumes a mobile water condition at the site. The guidelines contained in the above digest should be followed in the design of foundation concrete.

8.7 Surface Water Drainage

A single soakage test was carried out in Trial Pit No 9 which extended to a depth of 2.6 m. A total of 1000 litres of water was quickly transferred into the trial pit to create a head of water to allow a soakage test to be conducted, however the rate of soakage was equal or better than the rate at which it was pumped into the trial pit.

On this basis shallow soakaways within the made ground would be feasible at the site, however consideration would need to be given to the migration of contamination and the method will need to be agreed by the local authority.

8.8 Site Specific Risk Assessment

The desk study research has indicated that the site has not generally had a contaminative history,

having been occupied by school buildings throughout its developed history. A tank was formerly located at the front of Dyne House which was removed in the last ten years. Boreholes drilled in proximity to this area did not indicate any olfactory signs of contamination. In addition, the eastern part of the site has been subject to the placement of fill.

Contamination testing has measured elevated concentrations of arsenic, lead, several constituents of PAH and total PAH in some of the samples of made ground tested. These concentrations could pose a potentially unacceptable risk to human health through direct contact, accidental ingestion or inhalation of soil or soil derived dust. Most of the samples tested were derived from the filled area in the east of the site, with a single sample tested from the car park in the west.

The source of the lead and PAH contamination is not known but is most likely as a result of fragments of extraneous material such as coal, charcoal and ash within the made ground. Further assessment of the PAH concentrations indicate that the PAH is probably of a petrogenic origin, and is typical of made ground containing coal.

The arsenic, lead and PAH contamination, including benzo(a)pyrene, is considered unlikely to be in a soluble form, such that a risk to groundwater or adjacent sites is not envisaged. The underlying London Clay is classed as Unproductive Strata and therefore contamination to the chalk aquifer at depth is not anticipated. The basement excavation will remove much of the made ground and the hardstanding will provide a barrier between the contaminated soil and end users.

Although no visual or olfactory evidence of contamination was identified in the boreholes in close proximity to the tank, there is a possibility that residual contamination remains in this area. However, the proposed excavation to the front of Dyne House would be expected to remove any potentially contaminated soil and prevent a risk to end users. It is also recommended that a watching brief is maintained during groundwork in the area of the former tank. If contamination is encountered further investigation will be required and the risk assessment should be reviewed.

8.8.1 End Users

End users will be effectively isolated from direct contact with the identified contaminants by the extent of buildings and areas of external hardstanding. All of the samples tested as part of the investigation are currently in areas covered by hardstanding. If the proposals are amended to incorporate new soft landscaping in the eastern playground then imported soil will be required to prevent a risk to site users. Similarly, if new landscaping is proposed towards the centre of the site additional testing is recommended in this area, or imported soil will need to be provided.

8.8.2 Site Workers

Site workers should be made aware of the contamination and a programme of working should be identified to protect workers handling any soil. The method of site working should be in accordance with guidelines set out by HSE and CIRIA[10] and the requirements of the Local Authority Environmental Health Officer.

[10] CIRIA (1996) *A guide for safe working on contaminated sites* - Report 132, Construction Industry Research and Information Association

8.8.3 Buried Services

Consideration may need to be given to the protection of buried plastic services if they are to be laid within the made ground which is rich in ash. Details of the proposed protection measures for buried plastic services will in any case need to be approved by the EHO and the relevant service authority prior to the adoption of any scheme.

8.9 Waste Disposal

Any spoil arising from excavations or landscaping works, which is not to be re-used in accordance with the CL:AIRE guidance[11], will need to be disposed of to a licensed tip. Under the European Waste Directive, waste is classified as being either Hazardous or Non-Hazardous and landfills receiving waste are classified as accepting hazardous or non-hazardous wastes or the non-hazardous sub-category of inert waste in accordance with the Waste Directive. Waste going to landfill is subject to landfill tax at either the standard rate of £82.60 per tonne (about £150 per m^3) or at the lower rate of £2.60 per tonne (roughly £5 per m^3). However, the classification for tax purposes is not the same as that for disposal purposes. Currently all made ground and topsoil is taxable at the 'standard' rate and only naturally occurring rocks and soils which are accurately described as such in terms of the 2011 Order[12] would qualify for the 'lower rate' of landfill tax.

Based upon on the technical guidance provided by the Environment Agency[13] it is considered likely that the made ground from this site, as represented by the seven chemical analyses carried out, would be classified as a hazardous waste under the waste code 17 05 03 (soils and stones containing dangerous substances) and would be taxable at the higher rate. This is due to the 5900 mg/kg concentration of lead encountered in one sample from Borehole No 2 and it may be that further testing or zoning could reduce the amount of hazardous material removed from site. It is likely that the natural soils, if separated out, could be classified as an inert waste also under the waste code 17 05 04. This material would be taxable at the lower rate, if accurately described as naturally occurring sand and gravel in terms of the 2011 Order on the waste transfer note. As this site has not had a contaminative history there should be no requirement for WAC leaching analyses to confirm that this material is suitable for landfilling, although this would require confirmation from the receiving site.

Under the requirements of the European Waste Directive all waste needs to be pre-treated prior to disposal. The pre-treatment process must be physical, thermal, chemical or biological, including sorting. It must change the characteristics of the waste in order to reduce its volume, hazardous nature, facilitate handling or enhance recovery. The waste producer can carry out the treatment but they will need to provide documentation to prove that this has been carried out. Alternatively, the treatment can be carried out by an approved contractor. The Environment Agency has issued a position paper[14] which states that in certain circumstances, segregation at source may be considered as pre-treatment and thus excavated material may not have to be treated prior to landfilling if the soils can be segregated onsite prior to excavation by sufficiently characterising the soils insitu prior to excavation.
The above opinion with regard to the classification of the excavated soils and its likely landfill taxable rate is provided for guidance only and should be confirmed by the receiving landfill once the soils to be discarded have been identified.

11 CL:AIRE (2011) *The Definition of Waste: Development Industry Code of Practice* Version 2, March 2011
12 *Landfill Tax (Qualifying Material) Order 2011*
13 Environment Agency (2013) *Hazardous Waste: Interpretation of the definition and classification of hazardous waste. Technical Guidance* WM2 Third Edition, August 2013
14 Regulatory Position Statement (2007) *Treating non-hazardous waste for landfill - Enforcing the new requirement* Environment Agency 23 Oct 2007

The local waste regulation department of the Environment Agency should be contacted to obtain details of tips that are licensed to accept the soil represented by the test results. The tips will be able to provide costs for disposing of this material but may require further testing.

9.0 BASEMENT IMPACT ASSESSMENT

Superseded - refer to Basement Impact Assessment 2019

flooding	

Superseded - refer to Basement Impact Assessment 2019

Superseded - refer to Basement Impact Assessment 2019

10.0 OUTSTANDING RISKS AND ISSUES

This section of the report aims to highlight areas where further work is required as a result of limitations on the scope of this investigation, or where issues have been identified by this investigation that warrant further consideration. The scope of risks and issues discussed in this section is by no means exhaustive, but covers the main areas where additional work is considered to be required.

The ground is a heterogeneous natural material and variations will inevitably arise between the locations at which it is investigated. This report provides an assessment of the ground conditions based on the discrete points at which the ground was sampled, but the ground conditions should be subject to review as the work proceeds to ensure that any variations from the Ground Model are properly assessed by a suitably qualified person.

As discussed throughout the report, groundwater is likely to be encountered during the basement excavations although groundwater monitoring should be continued to confirm equilibrium levels and trial excavations should be considered to assess the extent of inflows to be expected.

Samples of soil tested indicated elevated concentrations of contaminants and some form of remediation will be required if new areas of soft landscaping are proposed. It would be prudent to review the risk assessment once the construction methodology has been agreed.

Further investigation or a watching brief should be maintained in the area of the former tank at the front of Dyne House.

A ground movement assessment will be completed in conjunction with this report and the design of the basement will need to consider the slop stability of the site, which should be assessed separately.

APPENDIX

Borehole Records

Trial Pit Records

Geotechnical Test Results

Chemical Test Results

Generic Risk-Based Soil Screening Values

SPT & Cohesion Level Graph

Envirocheck Information

Historical Maps

Site Plan

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Number** **BH1**
Excavation Method Drive-in Window Sampler	**Dimensions**	**Ground Level (mOD)** 110.65	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				110.55	(0.10) 0.10	Tarmac		
0.50	D				(0.90)	MADE GROUND (dark brown and grey clayey occasionall gravelly sand with coal, charcoal and brick fragments)		
				109.65	1.00	MADE GROUND (brown silty clay)		
					(0.60)			
				109.05	1.60	MADE GROUND (bricks)		
					(0.40)			
				108.65	2.00	MADE GROUND (blackish grey clayey sand and gravel with brick fragments)		
					(1.50)			
				107.15	3.50	Firm grey mottled brown and slightly organic silty sandy CLAY		
4.00	D				(0.80)			
				106.35	4.30	Firm brown mottled grey silty CLAY		
4.50	D				(0.40)			
				105.95	4.70	Complete at 4.70m		

Remarks	**Scale (approx)**	**Logged By**
	1:50	ME
	Figure No.	J15093.BH1

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Number** **BH2**
Excavation Method Drive-in Window Sampler	**Dimensions**	**Ground Level (mOD)** 111.00	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				110.90	(0.10) 0.10	Tarmac		
0.50	D				(0.90)	MADE GROUND (dark grey gravelly sand with occasional coal and clinker with concrete and sandstone fragments)		
				110.00	1.00			
				109.80	(0.20) 1.20	MADE GROUND (brown mottled grey silty clay)		
					(1.10)	MADE GROUND (brown and black clayey gravelly sand with coal and clinker fragments)		
				108.70	2.30			
				108.50	(0.20) 2.50	MADE GROUND (bricks)		
3.00	D				(1.25)	Grey and black slightly organic SAND with occasional gravel grading into sandy gravell clay at the base		
				107.25	3.75			
4.00	D				(0.75)	Firm orange-brown mottled grey silty sandy CLAY with partings of firm to medium sand		
				106.50	4.50			
						Complete at 4.50m		

Remarks

Scale (approx)	Logged By
1:50	ME

Figure No.
J15093.BH2

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Number** **BH3**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
Drive-in Window Sampler		111.20	Highgate School	J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				111.14	(0.06)	Tarmac		
					0.06			
0.30	D				(0.44)	MADE GROUND (dark grey sandy gravelly clay with fragments of clinker, ash, coal, tarmac and bricks)		
				110.70	0.50			
0.60	D				(0.20)			
0.80	D			110.50	0.70	'Firm to stiff' orange-brown sandy gravelly CLAY. Gravel is fine to coarse and rounded, desiccated soil.		
					(0.30)			
				110.20	1.00	'Stiff' orange brown mottled grey sandy CLAY		
						Soft becoming firm sandy CLAY		
1.80	D							
					(2.70)			
				107.50	3.70			
3.80	D				(0.30)	Firm grey slighlty sandy CLAY with fine selenite crystals		
				107.20	4.00			
						Complete at 4.00m		

Remarks	**Scale (approx)**	**Logged By**
	1:50	ME
	Figure No.	
	J15093.BH3	

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Number** **BH4**
Excavation Method Drive-in Window Sampler	**Dimensions**	**Ground Level (mOD)** 111.15	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				111.10	(0.05) 0.05	Tarmac		
			pp = 4.5 pp = 4.5			MADE GROUND (Black and grey cobbly gravelly sand with pockets of clay and fragments of ash, clinker, brick and concete)		
0.80	D		pp = 4.5 pp = 4.5		(1.45)			
			pp = 4.5					
			pp = 4.5 pp = 1	109.65	1.50	MADE GROUND (Grey silty very sandy slightly organic clay with rare brick fragments)		
			pp = 1.25 pp = 1.5		(1.00)			
			pp = 2					
			pp = 2.75 pp = 1.5	108.65	2.50	Firm becoming stiff orange-brown mottled grey silty sandy CLAY with partings of fine to medium sand		
			pp = 2 pp = 2.25					
3.00	D		pp = 3					
			pp = 2.5 pp = 3					
			pp = 3 pp = 2					
4.00	D		seepage(1) at 4.00m. pp = 2 pp = 2.5 pp = 2.25		(2.90)			▽1
			pp = 2.5 pp = 2.75					
			pp = 3.5					
			pp = 3 pp = 3.25	105.75	5.40	Stiff grey silty CLAY with occasional light grey partings of fine sand		
5.50	D		pp = 4 pp = 3.25		(0.60)			
			pp = 3.5	105.15	6.00			
						Complete at 6.00m		

Remarks
pp denotes pocket penetrometer reading

Scale (approx)	**Logged By**
1:50	ME

Figure No.
J15093.BH4

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Number** **BH5**
Excavation Method Drive-in Window Sampler	**Dimensions**	**Ground Level (mOD)** 125.70	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				125.63	(0.07) 0.07	Tarmac		
						MADE GROUND (brown clayey gravelly sand with pocklets of clay and brick fragments)		
0.80	D				(1.13)			
			pp =	124.50	1.20			
			pp = 1.25			Firm brown silty occasionally very sandy gravelly CLAY with partings of coarse sand. Gravel is fine to coarse and rounded		
1.50	D				(0.80)			
			pp = 1.5 pp = 2					
			pp = 2	123.70	2.00			
2.30	D		pp = 3 pp = 2		(0.50)	Orange-brown very clayey fine to coarse SAND with occasional fine flint gravel. Gravel is rounded and fine		
				123.20	2.50			
			pp = 3 pp = 2			Firm becoming stiff orange-brown silty very sandy CLAY with partings of fine sand		
3.00	D		pp = 2.25		(1.50)			
			pp = 1.25 pp = 1.5					
			pp = 1.5 pp = 1.75					
			seepage(1) at 4.00m. pp = 3	121.70	4.00	Light brown to buff slightly silty fine SAND		▽1
5.00	D				(2.00)			
			seepage(2) at 6.00m.	119.70	6.00			▽2
						Complete at 6.00m		

Remarks
pp denotes pocket penetrometer reading

Scale (approx)	**Logged By**
1:50	ME

Figure No.
J15093.BH5

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Borehole Number** **BH6**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion		110.80	Highgate School	J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					110.74	(0.06) 0.06	Tarmac		
0.30	D						MADE GROUND (grey and brown sandy gravel with pockets of clay and fagments of coal, brick and concrete)		
0.50	B								
1.20-1.65 1.20	CPT N=27 B		DRY	5,8/4,4,11,8					
1.75	D					(3.69)			
2.00-2.45 2.00	CPT N=19 B	2.00	DRY	5,8/4,4,3,8					
2.75	D								
3.00-3.45 3.00	CPT N=10 B	3.00	DRY	8,2/2,2,4,2					
3.75	D				107.05	3.75 (0.25)	MADE GROUND (grey silty slightly organic clay with sand and rare brick fragments)		
4.00-4.45 4.00	CPT N=11 B	4.00	DRY	1,1/2,3,3,3	106.80	4.00	Soft pale grey clayey silty SAND (possible made ground)		
						(0.75)			
4.75	D				106.05	4.75	Soft becoming firm orange-brown mottled grey silty sandy CLAY with partings of clayey sand		
5.00-5.45 5.00	CPT N=10 B	5.00	DRY	1,1/2,2,3,3					
						(2.25)			
6.00	D			Seepage(1) at 6.00m.					▽1
6.50-6.95	U	6.00	6.00	24 blows					
					103.80	7.00	Stiff high strength grey silty slighl sandy CLAY with partings of fine grey sand, clayey sand and rare shell fragments and pyrite nodules		
7.50	D								
8.00-8.45 8.00	SPT N=17 D	7.00	7.00	2,3/3,4,5,5					
9.00	D								
9.50-9.95	U	7.00	7.00	26 blows					

Remarks
Setup rig over position, 1 hr
Standpipe installed to a depth of 8.0 m
Demobalise rig, bag spoil and clean down position, 1 hr

Scale (approx)	**Logged By**
1:50	ME

Figure No.
J15093.BH6

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Borehole Number** **BH6**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion		110.80	Highgate School	J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D								
11.00-11.45 11.00	SPT N=19 D	7.00	8.00	2,4/4,5,5,5					
12.00	D								
12.50-12.95	U	7.00	9.00	27 blows		(8.00)			
13.50	D								
14.55-15.00 14.55	SPT N=23 D	7.00	10.00	2,3/5,5,6,7					
					95.80	15.00	Complete at 15.00m		

Remarks	**Scale (approx)**	**Logged By**
	1:50	ME
	Figure No.	
	J15093.BH6	

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Borehole Number** **BH7**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion	120 mm to 10.00m 100mm to 20.00m	125.70	Highgate School	J15093
	Location	**Dates** 08/04/2015- 09/04/2015	**Engineer** A-squared Studio	**Sheet** 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					125.64	(0.06) 0.06	Tarmac		
					125.40	(0.24) 0.30	Concrete		
0.50	B						MADE GROUND (brown and grey clayey gravelly sand with pockets of clay and fragments of brick)		
1.00	D					(1.20)			
1.20-1.65	CPT N=6			1,1/2,1,1,2					
1.20	B				124.20	1.50	Soft orange-brown silty sandy gravelly CLAY. Gravel is fine to coarse, rounded to subround		
1.75	D					(0.80)			
2.00-2.45	CPT N=14			2,2/3,3,3,5					
2.00	B				123.40	2.30	Medium dense dark orange-brown silty fine SAND with occasional fine rounded gravel with partings of pale orange-brown clay		
2.75	D								
3.00-3.45	U FAIL					(1.70)			
3.45	D								
3.50-3.95	CPT N=17			2,2/3,4,4,6					
3.50	B								
4.00-4.45	SPT N=22			2,4/5,5,6,6	121.70	4.00	Medium dense brown slightly silty fine SAND		
4.00	D								
4.75	D								
5.00-5.45	SPT N=26			3,5/6,6,7,7		(2.00)			
5.00	D								
6.00	D				119.70	6.00	Medium dense brown silty fine SAND with partings of sot orange-brown mottled grey clay		
6.50-6.95	SPT N=21			5,4/5,5,6,5					
6.50	B								
7.50	D								
8.00-8.45	CPT N=23			3,5/6,5,6,6					▼1
8.00	B								
9.00	D			Water strike(1) at 9.00m, rose to 8.00m in 20 mins.		(6.00)			▽1
9.50-9.95	SPT N=26			3,5/5,7,7,7					
9.50	B								

Remarks

Scale (approx)	**Logged By**
1:50	ME

Figure No.
J15093.BH7

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Borehole Number** **BH7**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion	120 mm to 10.00m 100mm to 20.00m	125.70	Highgate School	J15093
	Location	**Dates** 08/04/2015- 09/04/2015	**Engineer** A-squared Studio	**Sheet** 2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D								
11.00-11.45 11.00	SPT N=21 D			3,4/4,5,5,7		(6.00)			
12.00	D				113.70	12.00	Firm becoming stiff and very high strength dark brownish grey silty sandy CLAY with partings of grey silty sand and silt. Claystone encountered at 20.70 m		
12.50-12.95 12.50	SPT N=22 D			3,4/5,6,5,6					
13.50	D								
14.00-14.45 14.00	CPT N=25 B			3,5/5,6,6,8					
15.00	D								
15.50-15.95	U			35 blows					
16.50	D					(9.00)			
17.00-17.45 17.00	SPT N=29 D			3,5/6,7,8,8					▼2
18.00	D								
18.50-18.95	U			45 blows					
19.50	D								
20.00-20.45	SPT N=32			4,5/7,7,8,10					

Remarks

Scale (approx)	**Logged By**
1:50	ME

Figure No.
J15093.BH7

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Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Borehole Number** **BH7**

Boring Method	**Casing Diameter**	**Ground Level (mOD)**	**Client**	**Job Number**
Cable Percussion	120 mm to 10.00m 100mm to 20.00m	125.70	Highgate School	J15093
	Location	**Dates** 08/04/2015- 09/04/2015	**Engineer** A-squared Studio	**Sheet** 3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.00	D					(9.00)			
				Water strike(2) at 21.00m, rose to 18.00m in 20 mins. 25/	104.70	21.00			▽2
21.00-21.01	CPT 25*/10						Complete at 21.00m		

Remarks	**Scale (approx)**	**Logged By**
	1:50	ME
	Figure No.	
	J15093.BH7	

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GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Borehole Number BH8
Boring Method Cable Percussion	Casing Diameter 150mm to 15.00m	Ground Level (mOD) 118.00	Client Highgate School	Job Number J15093
	Location	Dates 22/05/2015- 28/05/2015	Engineer A-squared Studio	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					117.90	(0.10) 0.10	Concrete		
0.40	D1						MADE GROUND (brown sandy gravelly clay with cobbles and pockets of gravelly cobbles of brick)		
0.90	D2					(1.70)			
1.20-1.65 1.20	CPT N=2 B1	1.20	DRY	1,0/0,1,0,1					
1.80	D3				116.20	1.80 (0.20)	MADE GROUND (brown sandy clay)		
2.00-2.45 2.00	SPT N=5 S1	1.50	DRY	1,0/1,2,1,1	116.00	2.00	Soft becoming firm brown mottled grey silty very sandy CLAY with occasional gravel		
2.70	D4								
3.00-3.45 3.00	SPT N=7 S2	1.50	DRY	1,0/2,1,2,2		(2.30)			
3.70	D5								
4.00-4.45	U1								
				seepage(1) at 4.30m, no rise after 20 mins, sealed at 7.50m.	113.70	4.30	Medium dense orange-brown very clayey fine SAND with partings of firm sandy CLAY		▼1
4.50	D6								
4.80	D7								
5.00-5.45 5.00	SPT N=10 S3	1.50	DRY	2,2/1,3,3,3		(1.70)			
									▼2
6.00-6.45	U2				112.00	6.00	Firm becoming stiff high strength grey mottled dark brown silty sandy CLAY with silt horizons		▽2
				seepage(2) at 6.27m, rose to 5.70m in 20 mins, sealed at 7.50m. 27/05/2015:DRY					
6.50	D8								
				28/05/2015:2.70m 28/05/2015:					
7.50-7.95 7.50	SPT N=11 S4	7.50	DRY	2,3/2,3,2,4					
9.00	U3								
9.50	D9								

Remarks
Manhandle rig and ancillerarly equipment to position with four man crew and mini digger, 8 hrs
Excavating service pit to 1.2 m, 1 hr 15 mins
Chiselling from 23.0 m to 23.4 m, 30 mins
Groundwater seepages from 15.0 m downward constant
Vibrating wire piezometers installed at 23.5 m, 17.5 m and 11.5 m
Groundwater monitoring standpipe installed to a depth of 6.0 m, response zone between 4 m and 6 m
Tidy drilling position and demobalise rig with four man crew and mini digger, 8 hrs

Scale (approx)	Logged By
1:50	ME

Figure No.
J15093.BH8

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GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Borehole Number BH8

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	150mm to 15.00m	118.00	Highgate School	J15093
	Location	**Dates** 22/05/2015- 28/05/2015	**Engineer** A-squared Studio	**Sheet** 2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50-10.95 10.50	SPT N=18 S5	7.50	DRY	3,3/4,4,5,5					
12.00-12.45	U4								▼3
12.50	D10								
13.50-13.95 13.50	SPT N=23 S6	7.50	13.10	3,4/5,5,6,7					
15.00-15.45	U5			slow/medium(3) at 14.70m, rose to 12.30m in 20 mins, sealed at 15.00m.					▽3
15.50	D11								
16.50-16.95	U6								
17.00	D12					(18.00)			
18.00-18.45	U7								
18.50	D13								
19.50-19.95	U8								

Remarks	Scale (approx)	Logged By
	1:50	ME
	Figure No. J15093.BH8	

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GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Borehole Number **BH8**
Boring Method Cable Percussion	**Casing Diameter** 150mm to 15.00m	**Ground Level (mOD)** 118.00	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 22/05/2015- 28/05/2015	**Engineer** A-squared Studio	**Sheet** 3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.00	D14								
21.00-21.45	U9								
21.50	D15					(18.00)			
22.50-22.95	U10								
23.00	D16								
23.50-23.95 23.50	SPT N=32 S7	15.00	18.20	6,6/7,8,8,9	94.00	24.00	Complete at 24.00m		

Remarks

Scale (approx)	Logged By
1:50	ME

Figure No.
J15093.BH8

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GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Borehole Number BH9
Boring Method Cable Percussion	Casing Diameter 100mm to 1.00m	Ground Level (mOD) 125.60	Client Highgate School	Job Number J15093
	Location	Dates 07/04/2015	Engineer A-squared Studio	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.30)	Tarmac over concrete		
					125.30	0.30			
						(0.20)	MADE GROUND (cemented brick recovered as gravel and cobbles)		
					125.10	0.50			
							Concrete		
						(1.30)			
					123.80	1.80			
						(0.20)	MADE GROUND (cemented brick recovered as gravel and cobbles)		
					123.60	2.00			
							Abandoned at 2.00m		

Remarks
Chiselling from ground level to 2.0 m, 2 hrs
Unable to instal casing vertically, spent 1 hr 30 mins breaking side of borehole, no progress so abandonded borehole
Groundwater not encountered

Scale (approx)	Logged By
1:50	ME

Figure No.
J15093.BH9

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GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware,Herts
SG12 7QE

Standard Penetration Test Results

Site : Dyne House, Highgate School, London, N6 5EE

Client : Highgate School

Engineer : A-squared Studio

Job Number J15093

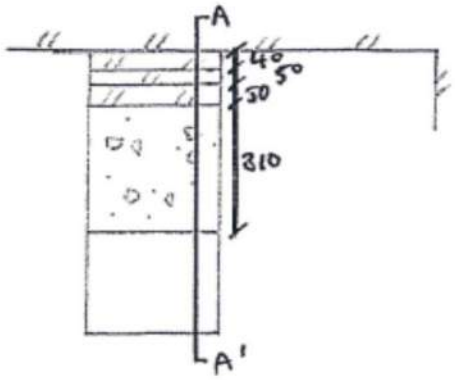
Sheet 1 / 1

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH6	1.20	1.35	1.65	CPT	5	8	4	4	11	8	N=27	
BH6	2.00	2.15	2.45	CPT	5	8	4	4	3	8	N=19	
BH6	3.00	3.15	3.45	CPT	8	2	2	2	4	2	N=10	
BH6	4.00	4.15	4.45	CPT	1	1	2	3	3	3	N=11	
BH6	5.00	5.15	5.45	CPT	1	1	2	2	3	3	N=10	
BH6	8.00	8.15	8.45	SPT	2	3	3	4	5	5	N=17	
BH6	11.00	11.15	11.45	SPT	2	4	4	5	5	5	N=19	
BH6	14.55	14.70	15.00	SPT	2	3	5	5	6	7	N=23	
BH7	1.20	1.35	1.65	CPT	1	1	2	1	1	2	N=6	
BH7	2.00	2.15	2.45	CPT	2	2	3	3	3	5	N=14	
BH7	3.50	3.65	3.95	CPT	2	2	3	4	4	6	N=17	
BH7	4.00	4.15	4.45	SPT	2	4	5	5	6	6	N=22	
BH7	5.00	5.15	5.45	SPT	3	5	6	6	7	7	N=26	
BH7	6.50	6.65	6.95	SPT	5	4	5	5	6	5	N=21	
BH7	8.00	8.15	8.45	CPT	3	5	6	5	6	6	N=23	
BH7	9.50	9.65	9.95	SPT	3	5	5	7	7	7	N=26	
BH7	11.00	11.15	11.45	SPT	3	4	4	5	5	7	N=21	
BH7	12.50	12.65	12.95	SPT	3	4	5	6	5	6	N=22	
BH7	14.00	14.15	14.45	CPT	3	5	5	6	6	8	N=25	
BH7	17.00	17.15	17.45	SPT	3	5	6	7	8	8	N=29	
BH7	20.00	20.15	20.45	SPT	4	5	7	7	8	10	N=32	
BH7	21.00	21.01		CPT	25						25*/10mm	
BH8	1.20	1.35	1.65	CPT	1	0	0	1	0	1	N=2	
BH8	2.00	2.15	2.45	SPT	1	0	1	2	1	1	N=5	
BH8	3.00	3.15	3.45	SPT	1	0	2	1	2	2	N=7	
BH8	5.00	5.15	5.45	SPT	2	2	1	3	3	3	N=10	
BH8	7.50	7.65	7.95	SPT	2	3	2	3	2	4	N=11	
BH8	10.50	10.65	10.95	SPT	3	3	4	4	5	5	N=18	
BH8	13.50	13.65	13.95	SPT	3	4	5	5	6	7	N=23	
BH8	23.50	23.65	23.95	SPT	6	6	7	8	8	9	N=32	

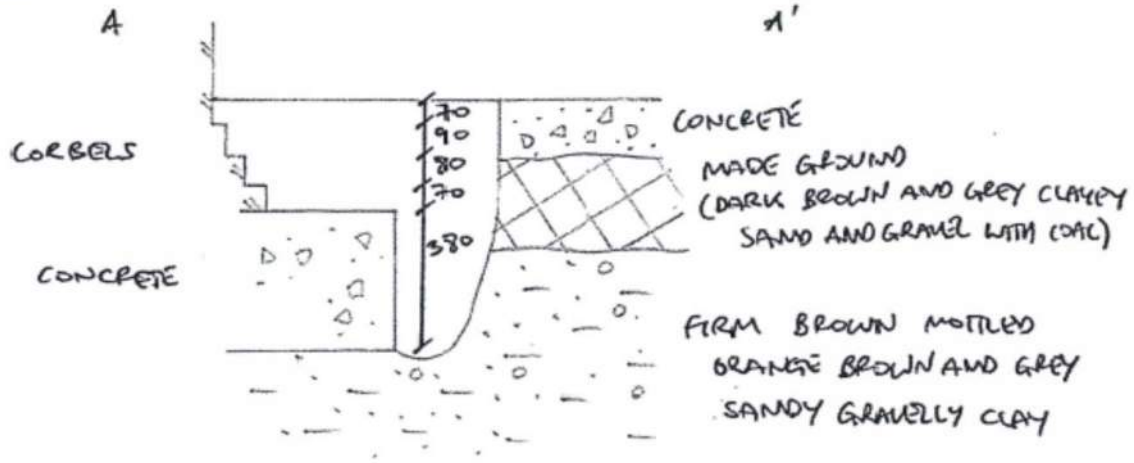
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GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware Herts SG12 7QE			**Site** Dyne House, Highgate School, London, N6 5EE	**Trial Pit Number** 1
Excavation Method Manual	**Dimensions**	**Ground Level (mOD)**	**Client** Highgate School	**Job Number** J15093
	Location	**Dates**	**Engineer** A-squared Studio	**Sheet** 1 / 1

PLAN



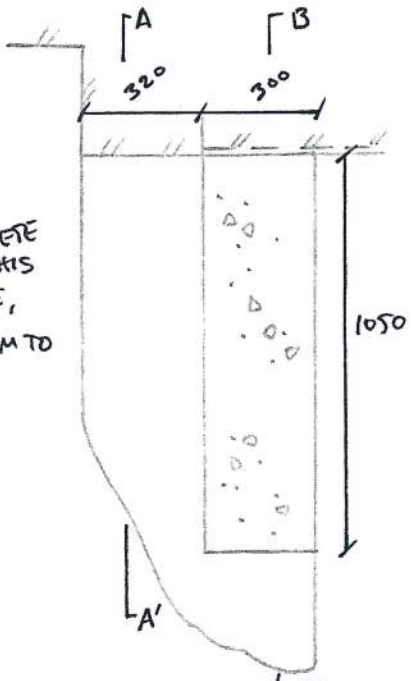
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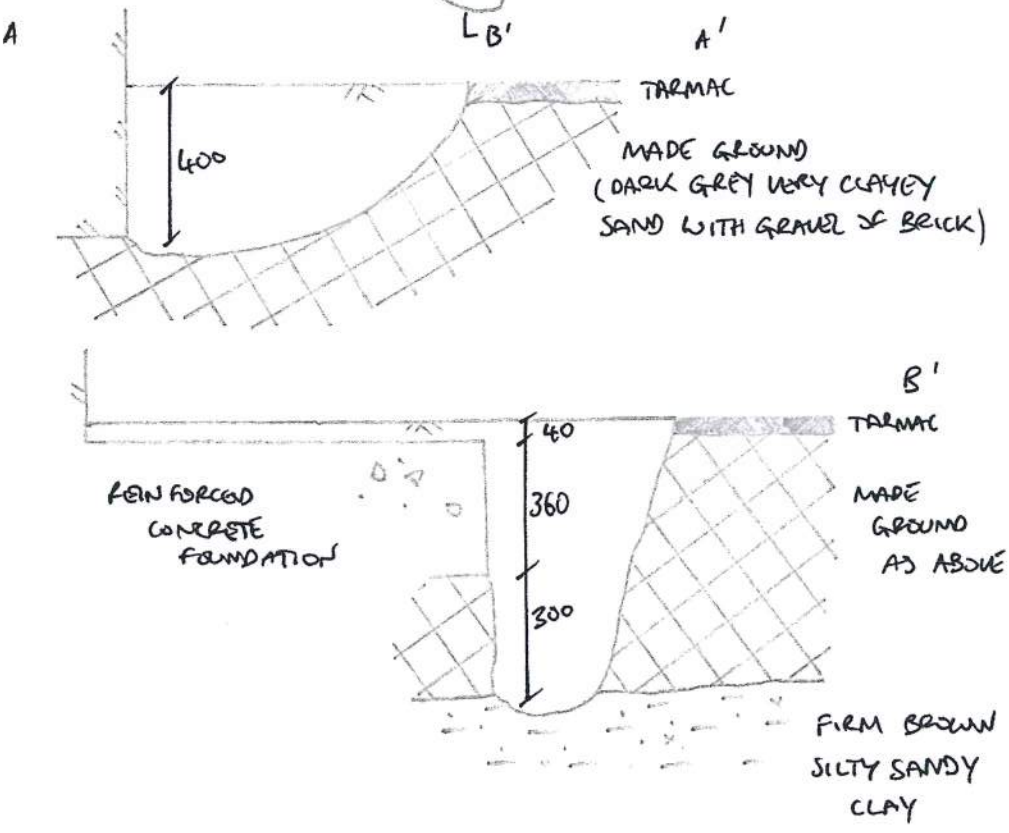
Remarks: All dimensions in millimetres Sides of trial pit remained stable during excavation Groundwater: Not encountered	Scale: 1:20 Logged by: ME

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Trial Pit Number 2
Excavation Method Manual	**Dimensions (mm)**	**Ground Level (mOD)**	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 31/3/15	**Engineer** A-squared Studio	**Sheet** 1 / 1

PLAN



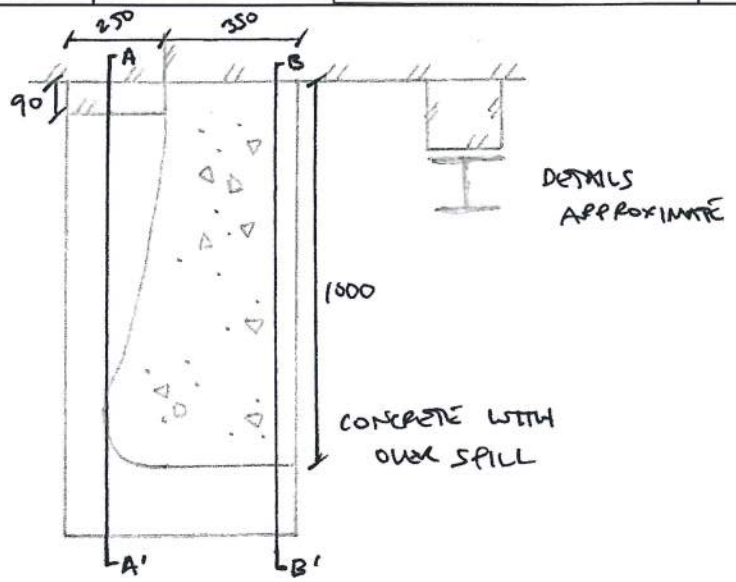
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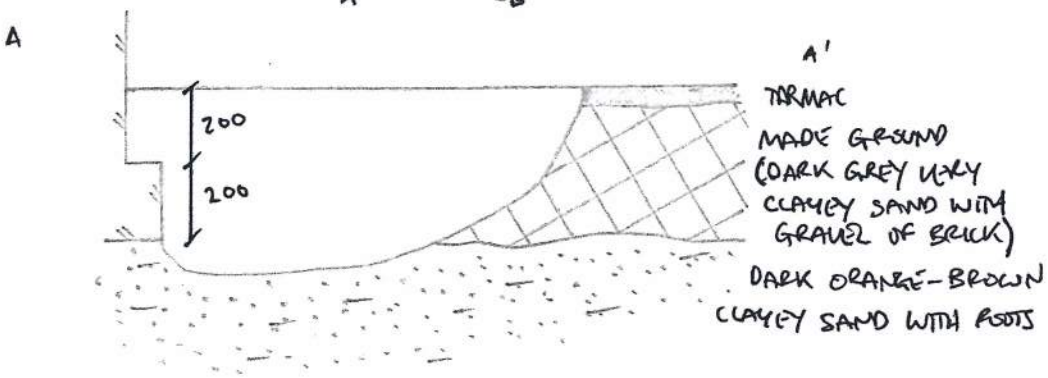
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All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater not encountered	ME

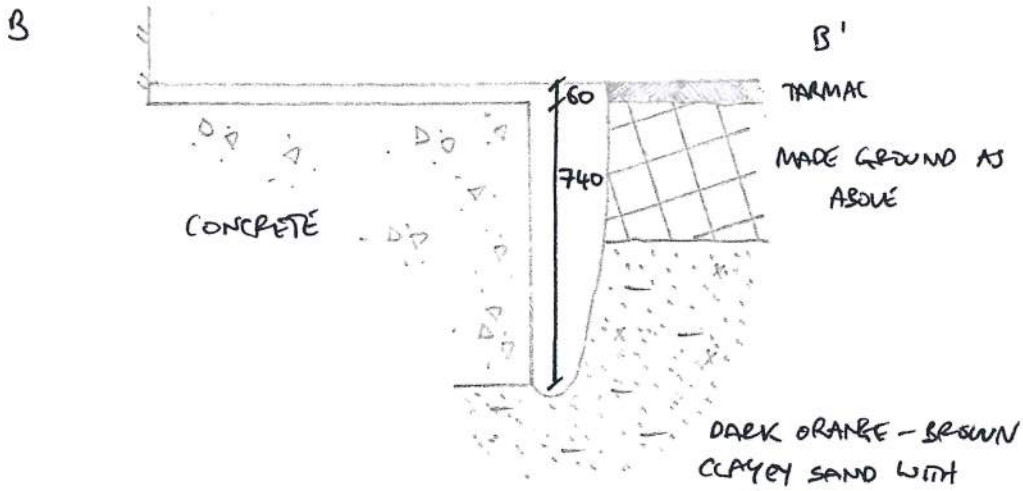
GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Trial Pit Number** 3
Excavation Method Manual	**Dimensions (mm)**	**Ground Level (mOD)**	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/3/15	**Engineer** A-squared Studio	**Sheet** 1 / 1

PLAN



SECTION



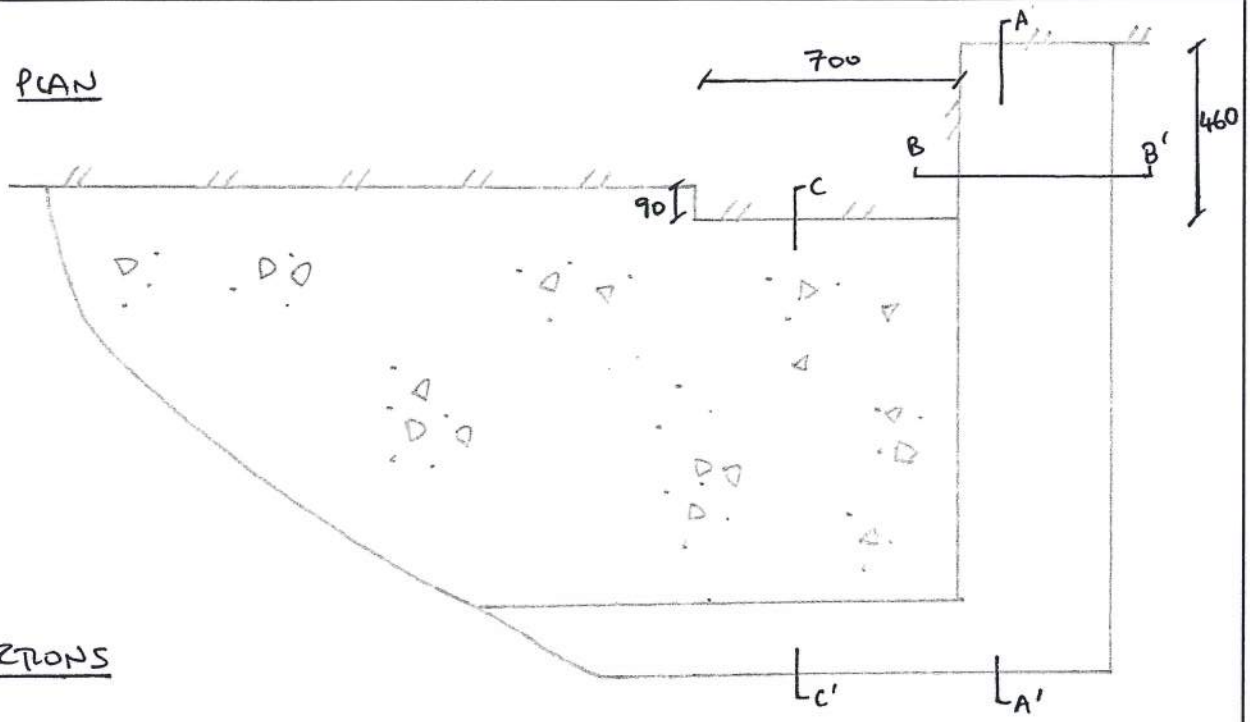


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater not encountered	ME

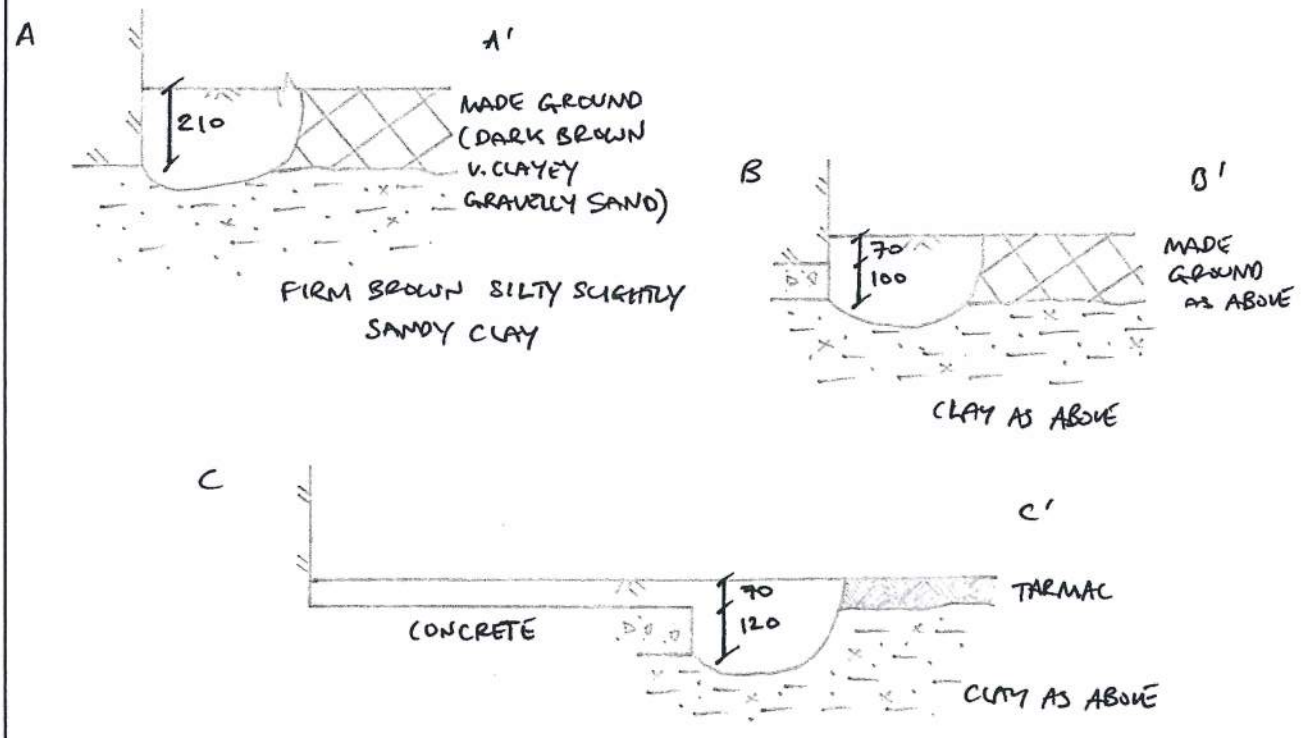
Geotechnical & Environmental Associates	Widbury Barn Widbury Hill ware Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Trial Pit Number 4

Excavation Method	Dimensions (mm)	Ground Level (mOD)	Client	Job Number
Manual			Highgate School	J15093
	Location	Dates 31/3/15	Engineer A-squared Studio	Sheet 1 / 1

PLAN



SECTIONS

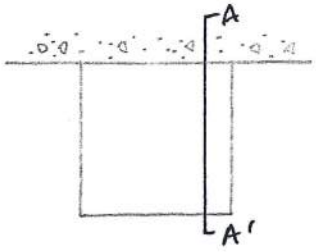


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater not encountered	ME

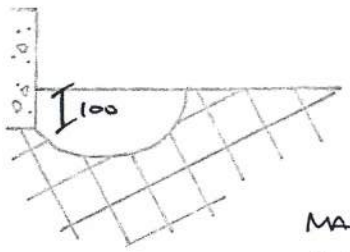
GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill ware Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Trial Pit Number 5

Excavation Method Manual	Dimensions (mm)	Ground Level (mOD)	Client Highgate School	Job Number J15093
	Location	Dates 30/3/15	Engineer A-squared Studio	Sheet 1 / 1

PLAN



SECTION



CONCRETE BASE TO WOODEN FENCE

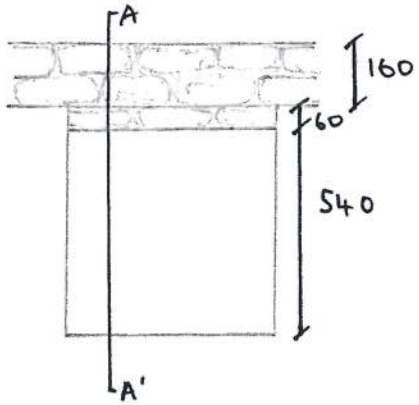
DEPTH TO BASE VARIES

MADE GROUND (BROWN CLAYEY GRAVELLY SAND WITH BRICKS AND ROOTS)

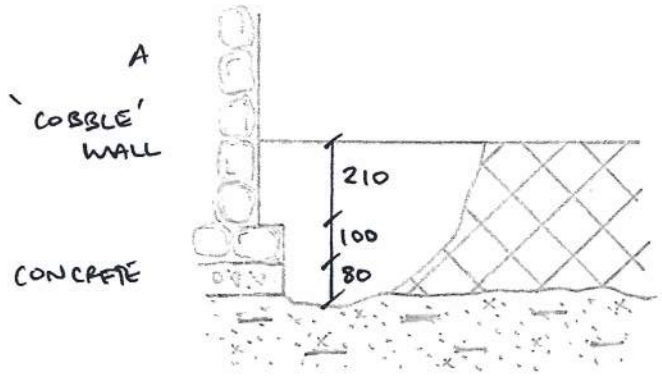
Remarks: All dimensions in millimetres Sides of trial pit unstable during excavation	Scale: 1:20
	Logged by: ME

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Trial Pit Number 6
Excavation Method Manual	**Dimensions (mm)**	**Ground Level (mOD)**	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 30/3/15	**Engineer** A-squared Studio	**Sheet** 1 / 1

PLAN



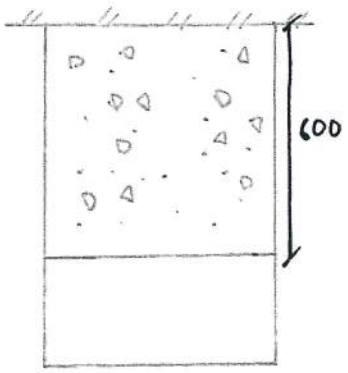
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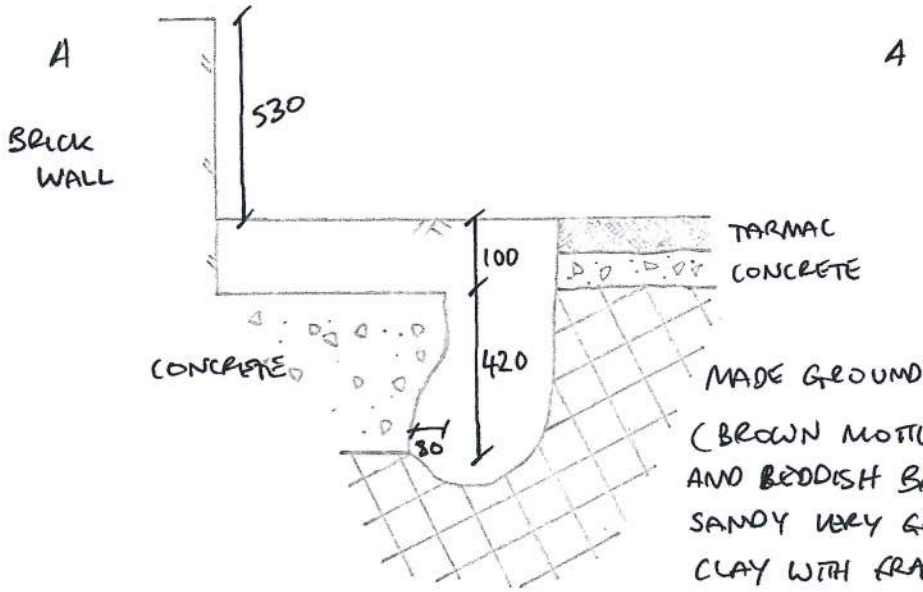
Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater not encountered	ME

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	Site Dyne House, Highgate School, London, N6 5EE	Trial Pit Number 7
Excavation Method Manual	**Dimensions (mm)**	**Ground Level (mOD)**	**Client** Highgate School	**Job Number** J15093
	Location	**Dates** 31/3/15	**Engineer** A-squared Studio	**Sheet** 1 / 1

PLAN



SECTION



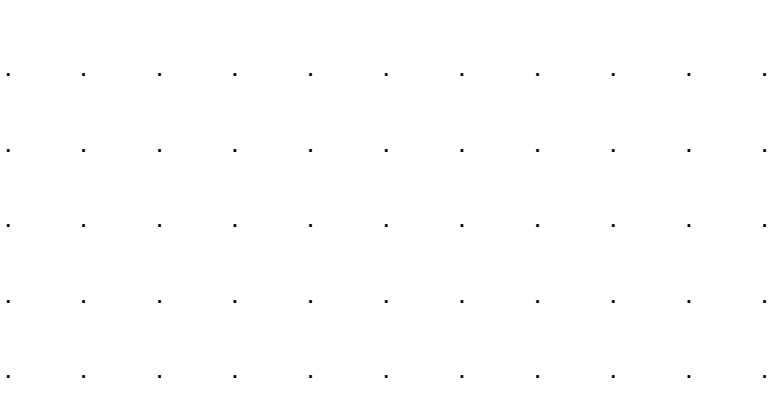
Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater not encountered	ME

Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware,Herts SG12 7QE	**Site** Dyne House, Highgate School, London, N6 5EE	**Trial Pit Number** **TP8**

Excavation Method	**Dimensions**	**Ground Level (mOD)**	**Client**	**Job Number**
Back hoe excavator (JCB 3CX)			Highgate School	J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.10) 0.10	Tarmac		
					(1.10)	MADE GROUND (brown and grey silty clay with gravel and fragments of brick, ash, concrete and roots. Ash rich layer between 0.80 m and 0.85 m		
					1.20 (0.20) 1.40	MADE GROUND (brown clay with cobbles of brick, tarmac, concrete ad redundant pipes)		
						Abandoned at 1.40m		

Plan



Remarks

Groundwater not encountered
Trial pit terminated at 1.4 m due to stability, side unstable durig excavation

Scale (approx)	**Logged By**	**Figure No.**
1:50	ME	J15093.TP8

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GEA Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware,Herts
SG12 7QE

Site	Trial Pit Number
Dyne House, Highgate School, London, N6 5EE	TP9

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Back hoe excavator (JCB 3CX)			Highgate School	J15093
	Location	**Dates** 30/03/2015	**Engineer** A-squared Studio	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.06) 0.06	Tarmac		
					(0.54) 0.60	MADE GROUND (blackish grey sandy gravelly cobbly clay with bricks, roots, tarmac, coal and ash fragments)		
					(0.30) 0.90	MADE GROUND (brown mottled grey clay silty sandy clay with fragmnets of brick and occasional coal)		
					(1.70) 2.60	MADE GROUND (grey and brown sandy gravelly cobble with occasional boulders of concete, tile, coal, ash, clinker, metal and slate)		
						Abandoned at 2.60m		

Plan

Remarks

Groundwater not encountered
Sides of trial pit unstable during excavation and trial pit collapsed during excavation

Scale (approx)	Logged By	Figure No.
1:50	ME	J15093.TP9

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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression			Chemical Tests			Other tests and comments
Borehole / Trial Pit	Sample Ref	Depth (m)	Type	Description	MC (%)	LL (%)	PL (%)	PI (%)	<425 µm (%)	Bulk Mg/m³	Dry Mg/m³	Cell Pressure kPa	Deviator Stress kPa	Shear Stress kPa	pH	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	
BH1		4.00	D	Mottled orange-brown grey and black silty CLAY.	31	62	22	40	100						7.3	0.36		
BH2		4.00	D	Orange-brown with grey mottling silty CLAY.	29	66	22	44	100									
BH3		0.80	D	Orange with grey mottling silty CLAY.	21	48	21	27	100									
BH3		1.80	D	Orange with grey mottling silty CLAY.	27	52	21	31	100									
BH4		3.00	D	Mottled orange-brown and grey silty CLAY.	34	68	21	47	100						7.6	0.07		
BH5		1.50	D	Mottled brown and dark orange slightly sandy, gravelly silty CLAY. Gravel is fine to medium flint.	16	38	18	20	67						7.2	0.32		
BH5		5.00	D	Yellow-brown silty fine SAND.														Particle Size Distribution
BH6		2.00-2.45	B	Dark grey clayey sandy GRAVEL. Gravel includes concrete, brick and flint.														Particle Size Distribution
BH6		4.75	D	Mottled brown, orange and grey slightly fine sandy silty CLAY with rare rootlets.	27	48	17	31	100									
BH6		6.50-6.95	U	Firm brown and blue grey mottled silty fine sandy CLAY	14	47	18	29	100									Effective Stress, Oedometer Consolidation
BH6		9.50-9.95	U	Stiff dark grey silty CLAY with rare medium pyrite nodules.	25	45	15	30	100	2.01	1.61	190	163	81				Oedometer Swelling
BH6		12.50-12.95	U	Firm dark grey-brown clayey SILT with rare fine sand.	26					1.99	1.58	250	225	113				

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed) NP=Non Plastic

Checked and Approved by

Operations Manager
09/07/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON
J15093

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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression			Chemical Tests			Other tests and comments
Borehole / Trial Pit	Sample Ref	Depth (m)	Type	Description	MC (%)	LL (%)	PL (%)	PI (%)	<425 µm (%)	Bulk Mg/m³	Dry Mg/m³	Cell Pressure kPa	Deviator Stress kPa	Shear Stress kPa	pH	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	
BH7		2.75	D	Yellow-brown with rare light grey mottling silty clayey fine SAND.														Particle Size Distribution
BH7		3.50-3.95	B	Yellow-brown clayey silty fine SAND.														Particle Size Distribution
BH7		4.75	D	Yellow-brown slightly gravelly clayey silty SAND. Gravel is fine to medium.														Particle Size Distribution
BH7		6.50-6.95	B	Yellow-brown clayey silty fine SAND.														Particle Size Distribution
BH7		8.00-8.45	B	Yellow-brown silty clayey fine SAND.														Particle Size Distribution
BH7		9.50-9.95	B	Yellow-brown very sandy silty CLAY. Sand is fine.														Particle Size Distribution
BH7		11.00-11.45	D	Yellow-brown very sandy CLAY. Sand is fine.														Particle Size Distribution
BH7		15.00	D	Brown and dark grey silty CLAY.	28	51	22	29	100									
BH7		15.50	U	Very stiff fissured dark brown / grey silty CLAY with vertical fissures lined with orange silty fine sand.	25	51	20	31	100									Effective Stress, Oedometer Consolidation
BH7		18.50-18.95	U	Very stiff dark grey-brown silty CLAY with rare black staining.	26	72	25	47	100	1.98	1.57	370	302	151				Oedometer Swelling
BH8		2.00	D	Yellow-brown with light brown mottling slightly fine sandy gravelly silty CLAY.	19	25	16	9.0	74						7.9	0.05		
BH8		4.00	U	Soft to firm orange brown mottled grey gravelly sandy CLAY	25					2.07	1.66	80	69	35				

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed) NP=Non Plastic

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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression			Chemical Tests			Other tests and comments
Borehole / Trial Pit	Sample Ref	Depth (m)	Type	Description	MC (%)	LL (%)	PL (%)	PI (%)	<425 µm (%)	Bulk Mg/m³	Dry Mg/m³	Cell Pressure kPa	Deviator Stress kPa	Shear Stress kPa	pH	2:1 W/S SO4 (g/L)	W/S Mg (mg/L)	
BH8		4.50	D	Yellow-brown slightly clayey fine SAND.	27		NP		26									Sample is Non-plastic
BH8		5.00	D	Yellow-brown slightly fine sandy CLAY with rare pockets of orange fine sand.	33	40	23	17	100									
BH8		6.00	U	Firm fine sandy silty CLAY	22	44	24	20	100	1.87	1.53	120	168	84				
BH8		9.00	U	Firm to stiff fissured dark brown grey CLAY	28					1.99	1.55	180	254	127				Oedometer Swelling
BH8		10.50	D	Dark grey with a dark brown crust micaceous silty CLAY.	23	57	21	36	100						7.4	1.50		
BH8		12.00	U	Dark brown mottled dark grey and black fine sandy CLAY.	23	41	24	17	100									Effective Stress, Oedometer Consolidation
BH8		15.00	U	Firm dark grey silty CLAY.	22	46	19	27	100									Oedometer Consolidation
BH8		16.50	U	Firm to stiff dark grey fine sandy silty CLAY.	25					2.04	1.63	330	244	122				
BH8		18.00	U	Stiff brown-grey slightly fine sandy CLAY.	22	49	21	28	99	1.99	1.63	360	317	158				
BH8		19.50	U	Stiff dark grey fine sandy silty CLAY.	22					2.04	1.67	390	493	246				
BH8		21.00	U	Stiff brown-grey slightly fine sandy CLAY.	23	52	19	33	99	2.01	1.63	420	498	249	8.3	1.10		
BH8		22.50	U	Firm to stiff dark grey fine sandy silty CLAY.	25					1.90	1.52	450	142	71				

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed) NP=Non Plastic

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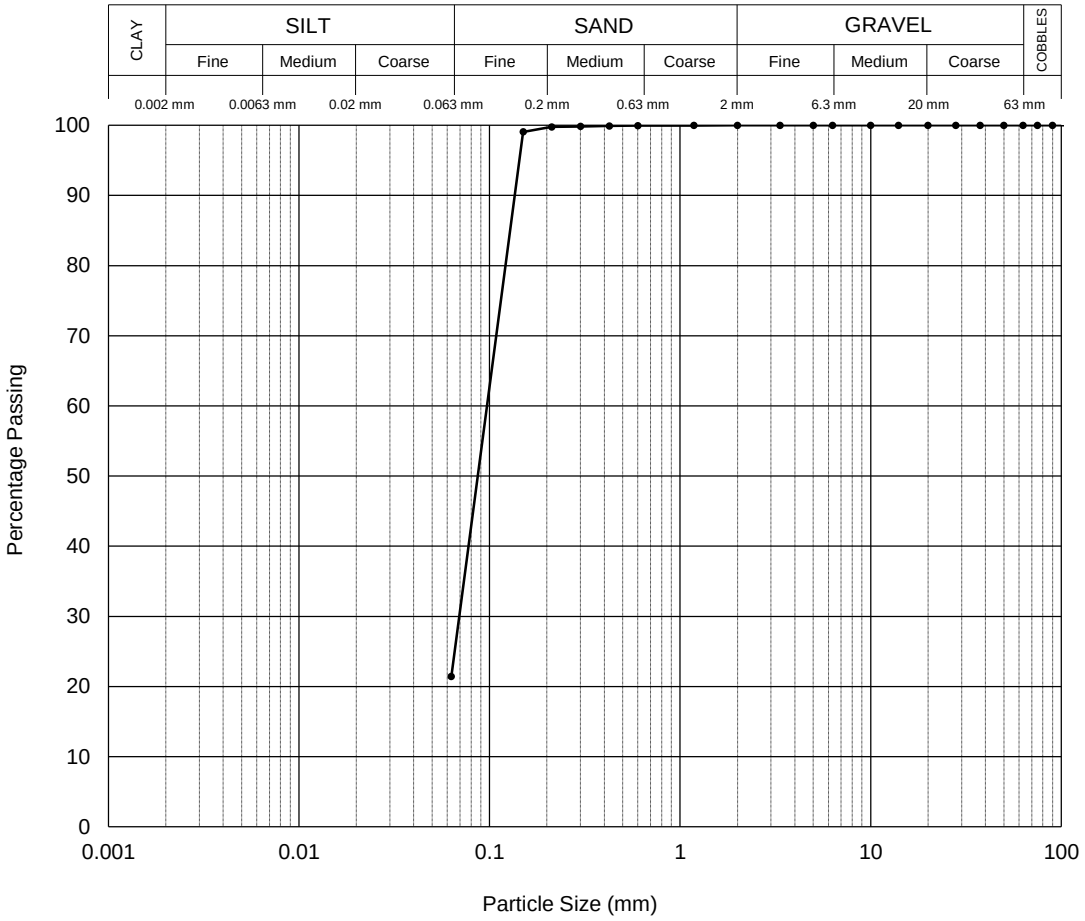
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH5
Depth (m):	5.00
Sample Type	D

Description:
Yellow-brown silty fine SAND.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	100
0.6	100
0.425	100
0.3	100
0.212	100
0.15	99
0.063	21



Particle Proportions	
Cobbles	0.0 %
Gravel	0.0 %
Sand	78.6 %
Silt & Clay	21.4 %

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BS1377 : Part 2 : Clause 9 : 1990

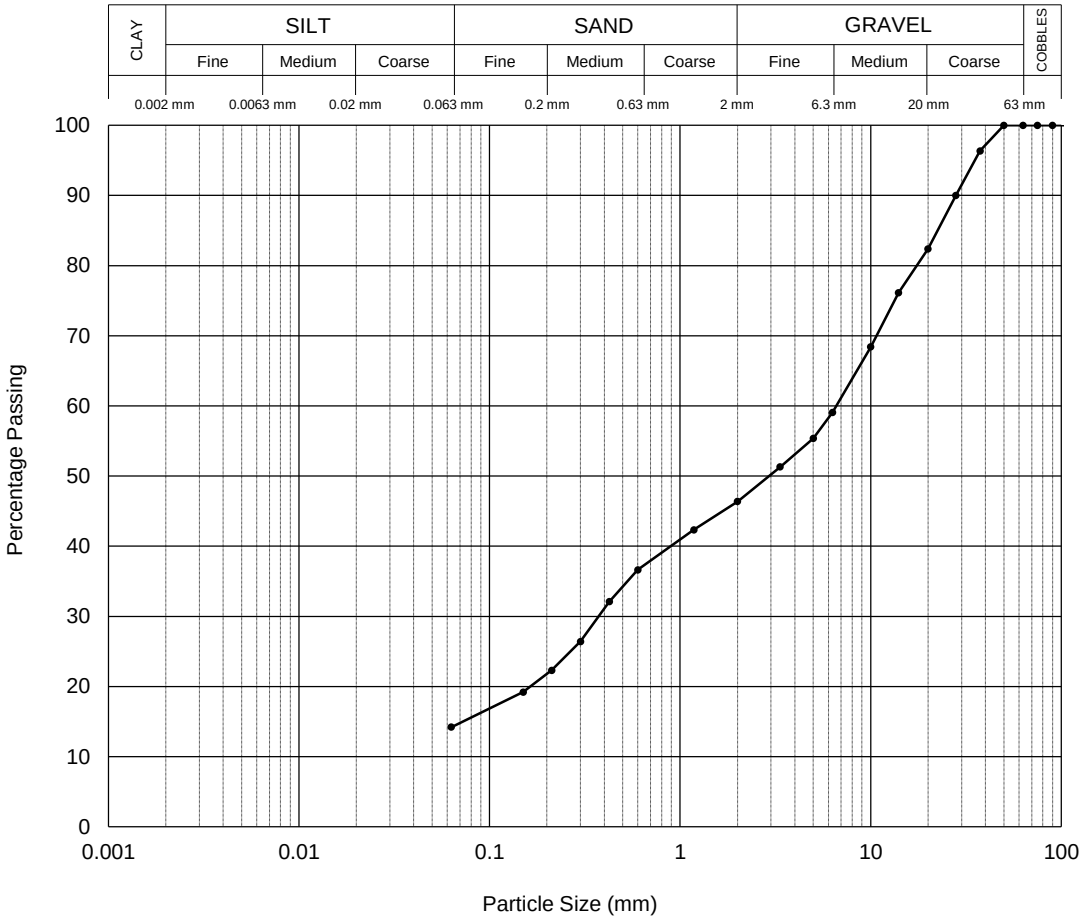
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH6
Depth (m):	2.00-2.45
Sample Type	B

Description:
Dark grey clayey sandy GRAVEL. Gravel includes concrete, brick and flint.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	96
28	90
20	82
14	76
10	68
6.3	59
5	55
3.35	51
2	46
1.18	42
0.6	37
0.425	32
0.3	26
0.212	22
0.15	19
0.063	14



Particle Proportions	
Cobbles	0.0 %
Gravel	53.6 %
Sand	32.2 %
Silt & Clay	14.2 %

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25/06/2015

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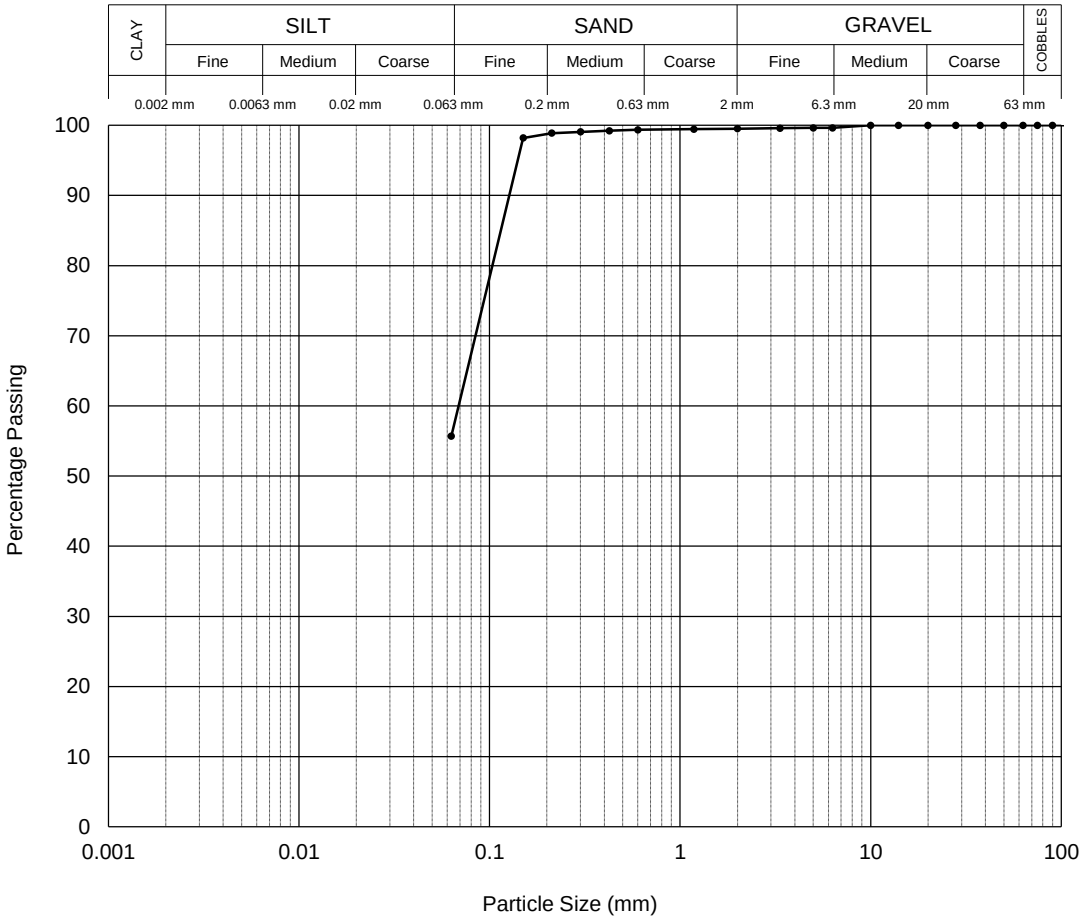
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	2.75
Sample Type	D

Description:
Yellow-brown with rare light grey mottling silty clayey fine SAND.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	99
0.6	99
0.425	99
0.3	99
0.212	99
0.15	98
0.063	56



Particle Proportions	
Cobbles	0.0 %
Gravel	0.5 %
Sand	43.8 %
Silt & Clay	55.7 %

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25/06/2015

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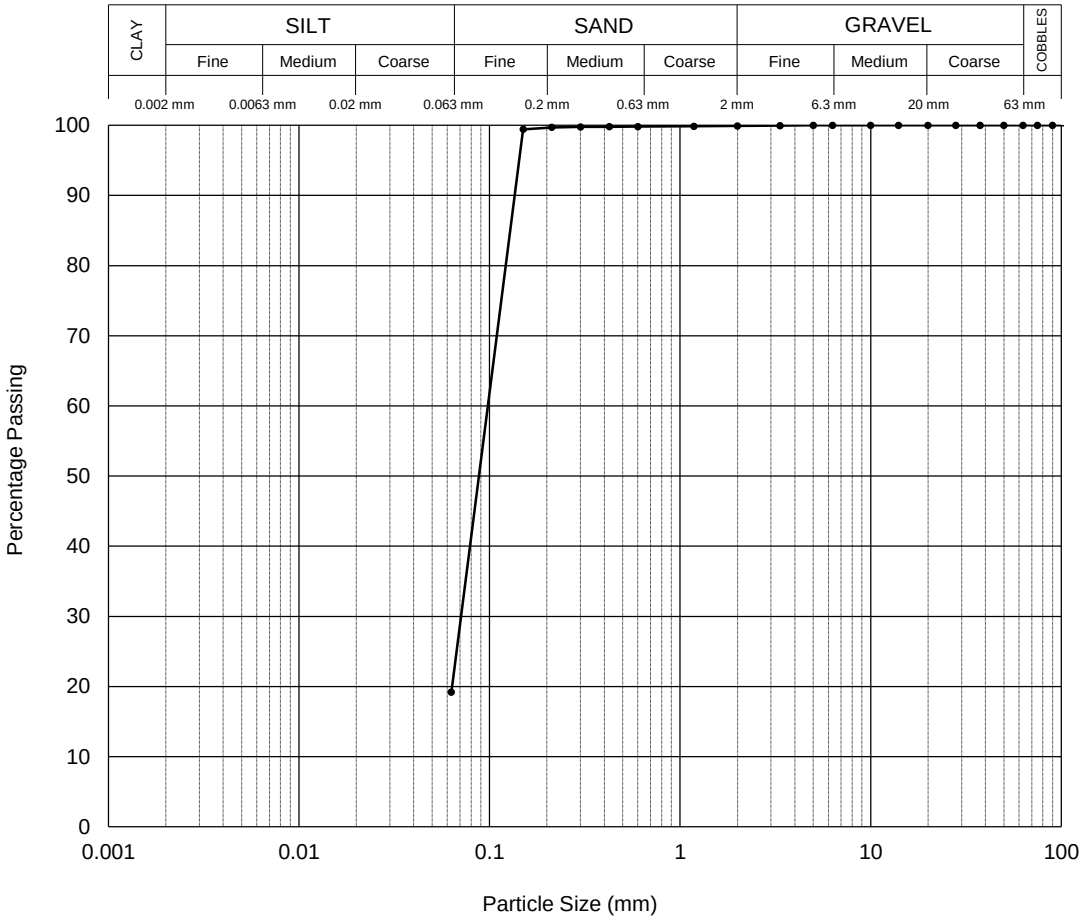
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	3.50-3.95
Sample Type	B

Description:
Yellow-brown clayey silty fine SAND.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	100
0.6	100
0.425	100
0.3	100
0.212	100
0.15	99
0.063	19



Particle Proportions	
Cobbles	0.0 %
Gravel	0.1 %
Sand	80.7 %
Silt & Clay	19.2 %

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Operations Manager
25/06/2015

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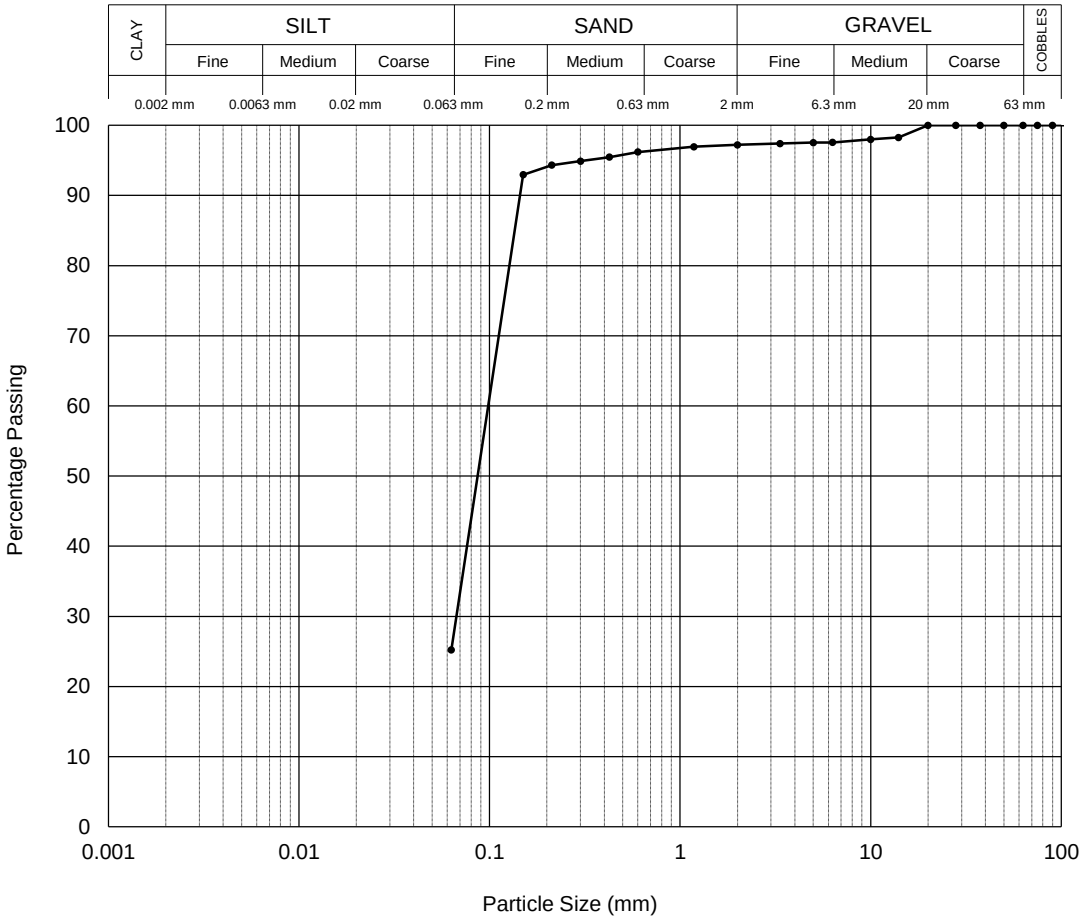
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	4.75
Sample Type	D

Description:
Yellow-brown slightly gravelly clayey silty SAND. Gravel is fine to medium.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	98
10	98
6.3	98
5	98
3.35	97
2	97
1.18	97
0.6	96
0.425	95
0.3	95
0.212	94
0.15	93
0.063	25



Particle Proportions	
Cobbles	0.0 %
Gravel	2.8 %
Sand	72.0 %
Silt & Clay	25.2 %

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Operations Manager
25/06/2015

Project Number:

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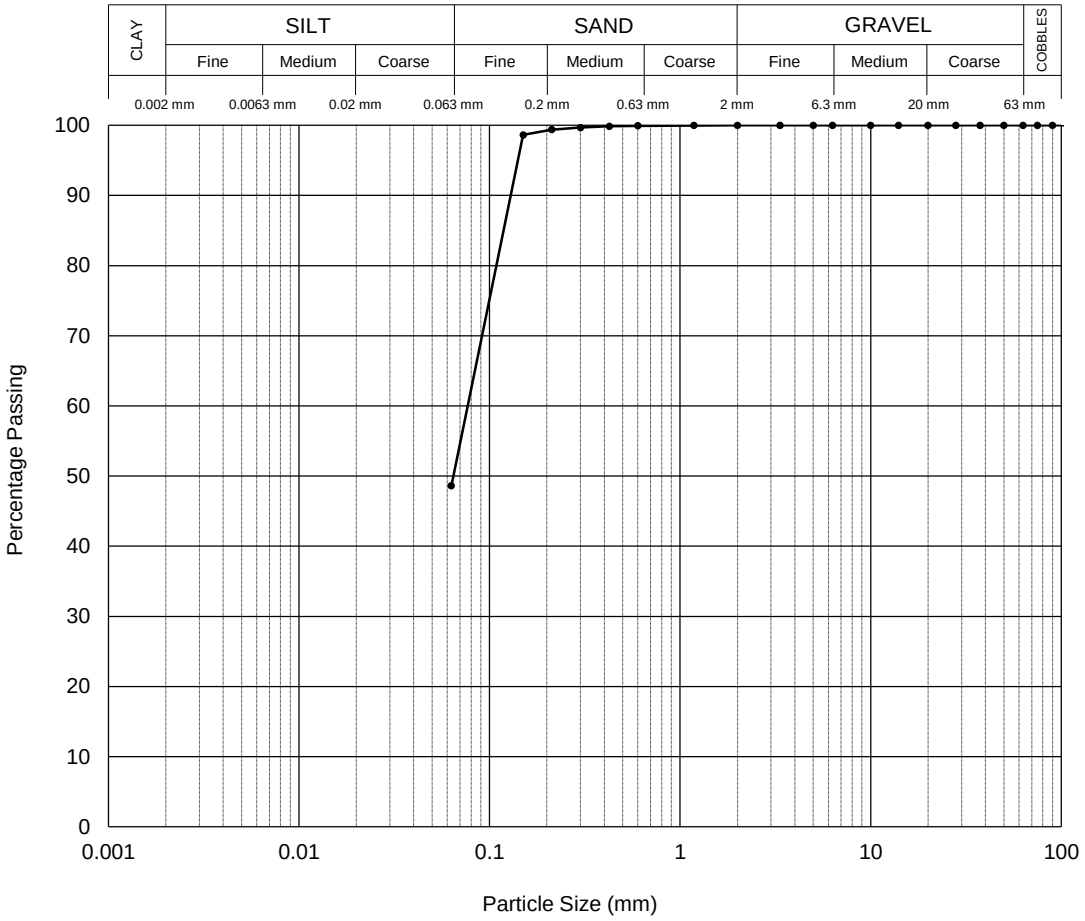
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	6.50-6.95
Sample Type	B

Description:
Yellow-brown clayey silty fine SAND.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	100
0.6	100
0.425	100
0.3	100
0.212	99
0.15	99
0.063	49



Particle Proportions	
Cobbles	0.0 %
Gravel	0.0 %
Sand	51.4 %
Silt & Clay	48.6 %

Checked and Approved by

Operations Manager
25/06/2015

Project Number:

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Project Name:

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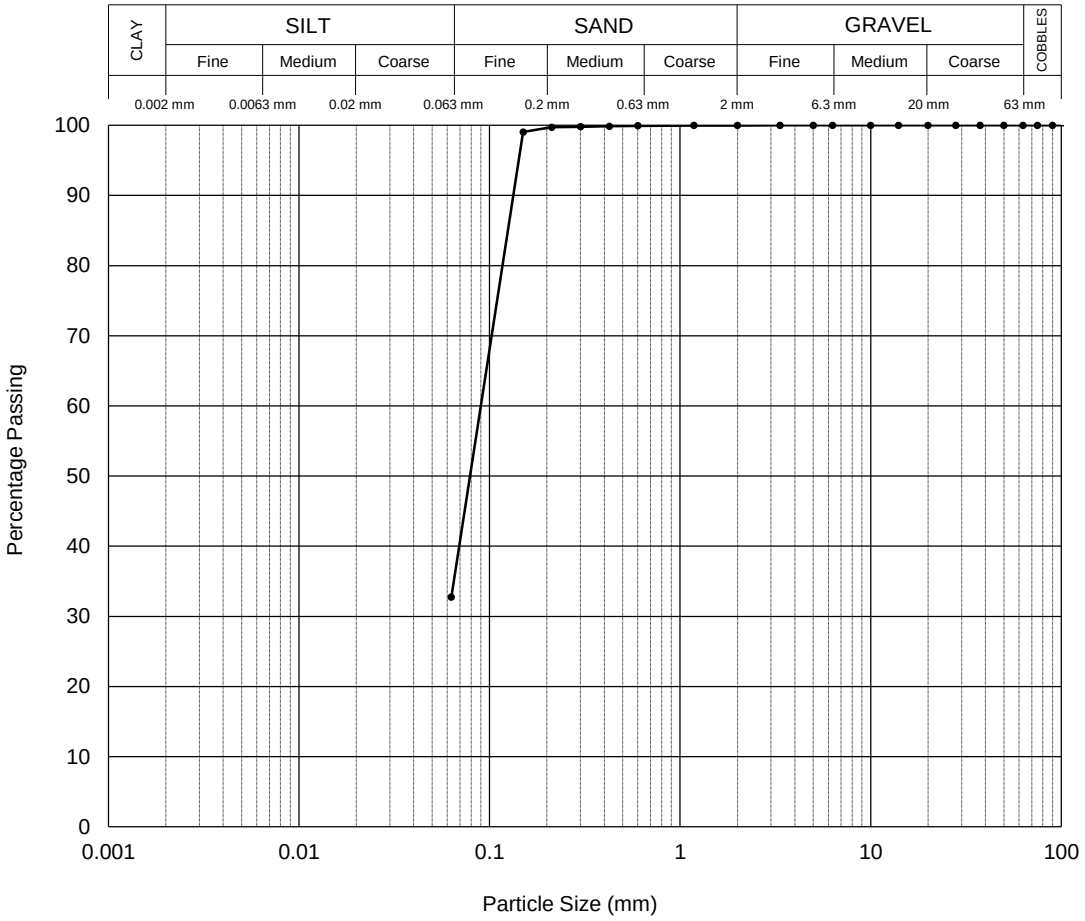
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	8.00-8.45
Sample Type	B

Description:
Yellow-brown silty clayey fine SAND.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	100
0.6	100
0.425	100
0.3	100
0.212	100
0.15	99
0.063	33



Particle Proportions	
Cobbles	0.0 %
Gravel	0.0 %
Sand	67.2 %
Silt & Clay	32.7 %

Checked and Approved by

Operations Manager
25/06/2015

Project Number:

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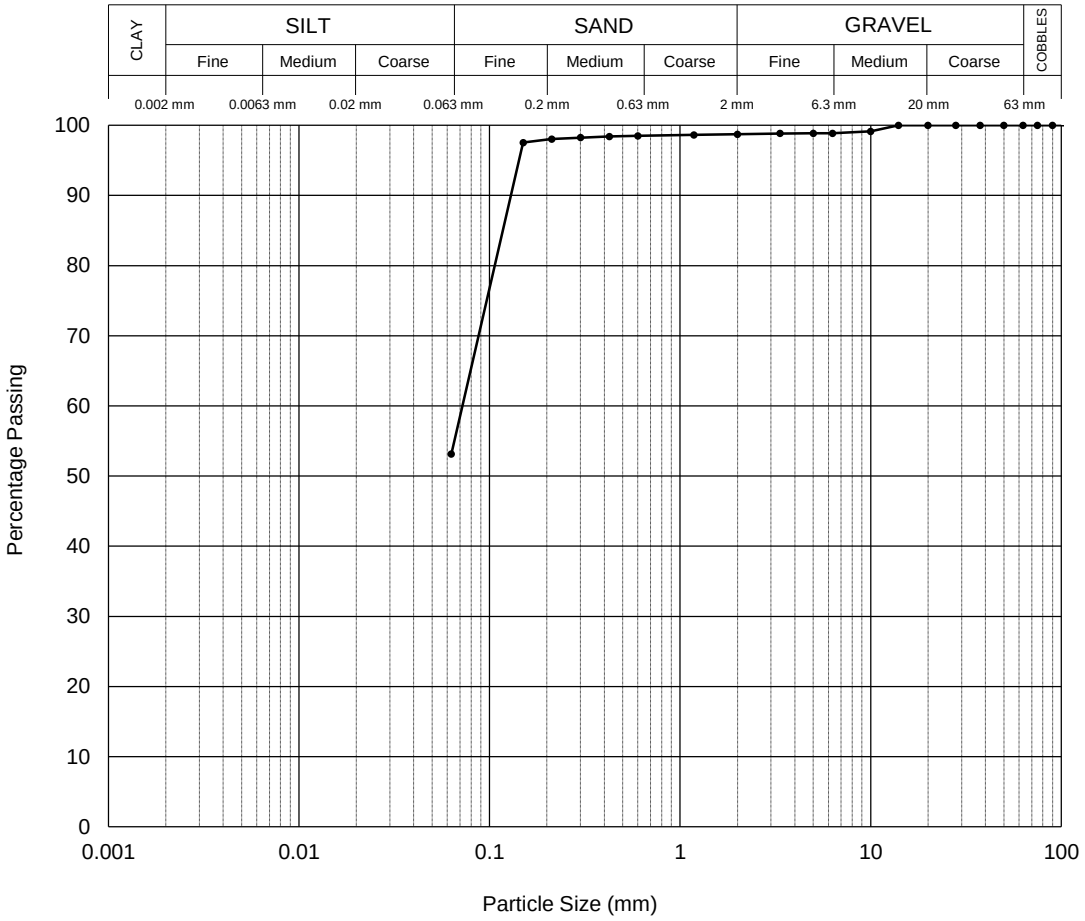
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	9.50-9.95
Sample Type	B

Description:
Yellow-brown very sandy silty CLAY. Sand is fine.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	99
6.3	99
5	99
3.35	99
2	99
1.18	99
0.6	98
0.425	98
0.3	98
0.212	98
0.15	98
0.063	53



Particle Proportions	
Cobbles	0.0 %
Gravel	1.3 %
Sand	45.6 %
Silt & Clay	53.2 %

Checked and Approved by

Operations Manager
25/06/2015

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BS1377 : Part 2 : Clause 9 : 1990

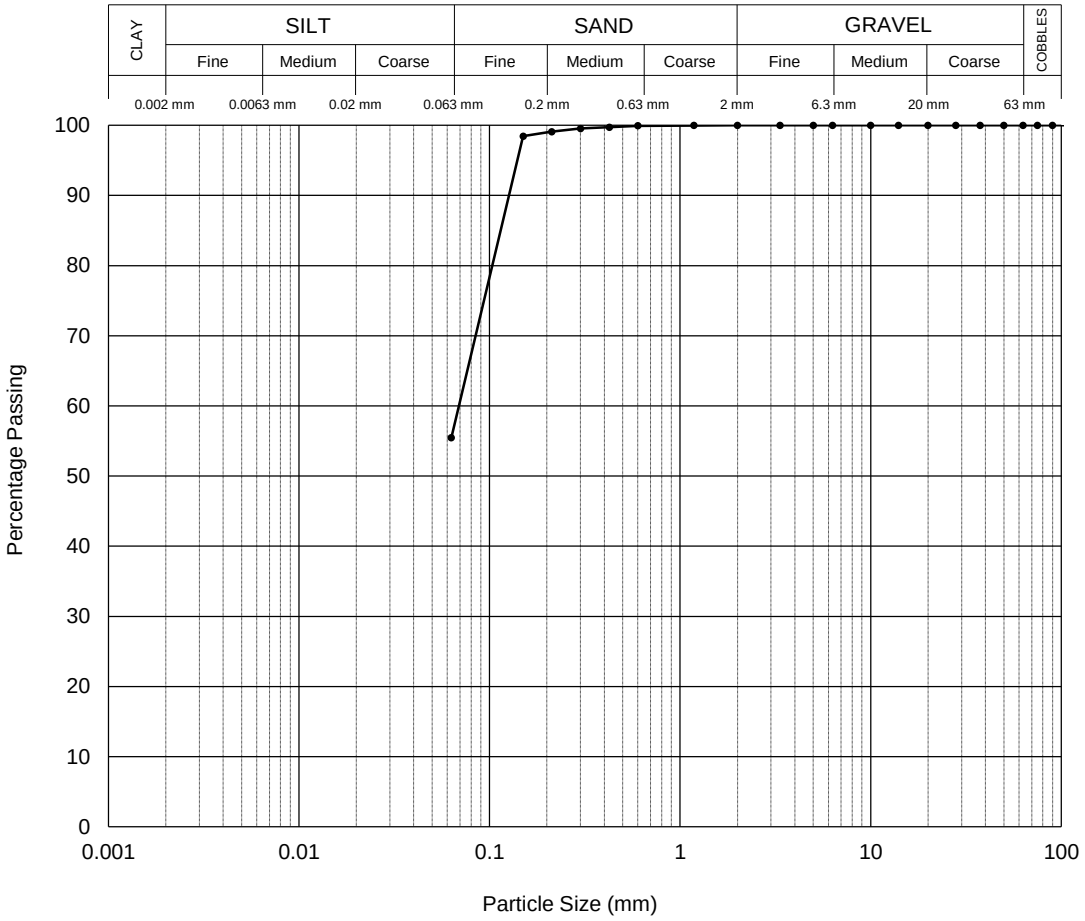
PARTICLE SIZE DISTRIBUTION

BH/TP No:	BH7
Depth (m):	11.00-11.45
Sample Type	D

Description:
Yellow-brown very sandy CLAY. Sand is fine.

BS1377 : Part 2 : Clause 9.2 : 1990 Wet Sieving Method

Sieve	
Sieve (mm)	% pass
200	100
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5	100
3.35	100
2	100
1.18	100
0.6	100
0.425	100
0.3	100
0.212	99
0.15	98
0.063	55



Particle Proportions	
Cobbles	0.0 %
Gravel	0.0 %
Sand	44.5 %
Silt & Clay	55.5 %

Checked and Approved by

Operations Manager
25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON
J15093

GEOLABS

UKAS TESTING 1982

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH6
Depth (m)	9.50-9.95
Sample Type	U

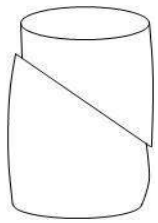
Description:

Stiff dark grey silty CLAY with rare medium pyrite nodules.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	200.9
Diameter	(mm)	103.3
Moisture Content	(%)	25
Bulk Density	(Mg/m³)	2.01
Dry Density	(Mg/m³)	1.60
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.0
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	190
Strain at failure	(%)	16.4
Maximum Deviator Stress	(kPa)	163
Shear Stress Cu	(kPa)	81

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	40

Checked and Approved by:

Operations Manager
25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

J15093

GEOLABS

UKAS TESTING 1982

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH6
Depth (m)	12.50-12.95
Sample Type	U

Description:

Firm dark grey-brown clayey SILT with rare fine sand.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	200.7
Diameter	(mm)	102.1
Moisture Content	(%)	26
Bulk Density	(Mg/m³)	1.99
Dry Density	(Mg/m³)	1.58
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	250
Strain at failure	(%)	19.9
Maximum Deviator Stress	(kPa)	225
Shear Stress Cu	(kPa)	113

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	10

Checked and Approved by:

Operations Manager
25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

J15093

GEOLABS

UKAS TESTING 1982

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH7
Depth (m)	18.50-18.95
Sample Type	U

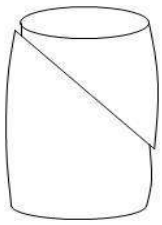
Description:

Very stiff dark grey-brown silty CLAY with rare black staining.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	201.1
Diameter	(mm)	103.3
Moisture Content	(%)	26
Bulk Density	(Mg/m³)	1.98
Dry Density	(Mg/m³)	1.58
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.5
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	370
Strain at failure	(%)	7.0
Maximum Deviator Stress	(kPa)	302
Shear Stress Cu	(kPa)	151

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	20

Checked and Approved by:

Operations Manager
25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	4.00
Sample Type	U

Description:

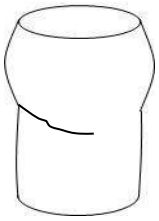
Soft to firm orange brown mottled grey gravelly sandy CLAY

Remarks : Some patching required

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	200.4
Diameter	(mm)	104.2
Moisture Content	(%)	25
Bulk Density	(Mg/m³)	2.07
Dry Density	(Mg/m³)	1.65
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.7
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	80
Strain at failure	(%)	10.5
Maximum Deviator Stress	(kPa)	69
Shear Stress Cu	(kPa)	35

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	40

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25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	6.00
Sample Type	U

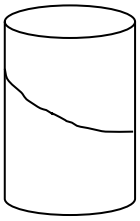
Description:

Firm fine sandy silty CLAY

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	201.1
Diameter	(mm)	104.2
Moisture Content	(%)	22
Bulk Density	(Mg/m³)	1.87
Dry Density	(Mg/m³)	1.53
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.4
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	120
Strain at failure	(%)	5.5
Maximum Deviator Stress	(kPa)	168
Shear Stress Cu	(kPa)	84

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	30

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25/06/2015

Project Number:

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Project Name:

HIGHGATE SCHOOL, LONDON

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UKAS TESTING 1982

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	9.00
Sample Type	U

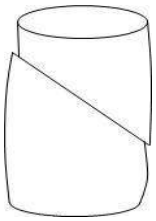
Description:

Firm to stiff fissured dark brown grey CLAY

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	201.2
Diameter	(mm)	103.5
Moisture Content	(%)	28
Bulk Density	(Mg/m³)	1.99
Dry Density	(Mg/m³)	1.55
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.5
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	180
Strain at failure	(%)	7.0
Maximum Deviator Stress	(kPa)	254
Shear Stress Cu	(kPa)	127

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	40

Checked and Approved by:

Operations Manager
25/06/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	16.50
Sample Type	U

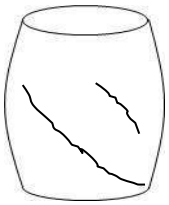
Description:

Firm to stiff dark grey fine sandy silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.5
Diameter	(mm)	103.1
Moisture Content	(%)	25
Bulk Density	(Mg/m³)	2.04
Dry Density	(Mg/m³)	1.63
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	330
Strain at failure	(%)	19.8
Maximum Deviator Stress	(kPa)	244
Shear Stress Cu	(kPa)	122

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	20

Checked and Approved by:

Operations Manager
09/07/2015

Project Number:

GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

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UKAS TESTING 1982

BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	18.00
Sample Type	U

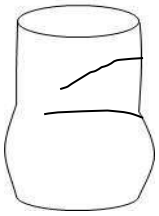
Description:

Stiff brown-grey slightly fine sandy CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	203.0
Diameter	(mm)	102.8
Moisture Content	(%)	22
Bulk Density	(Mg/m³)	1.99
Dry Density	(Mg/m³)	1.63
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	360
Strain at failure	(%)	18.7
Maximum Deviator Stress	(kPa)	317
Shear Stress Cu	(kPa)	158

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	50

Checked and Approved by:

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09/07/2015

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GEO / 22564

Project Name:

HIGHGATE SCHOOL, LONDON

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	19.50
Sample Type	U

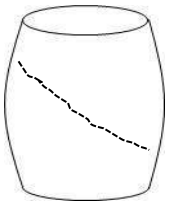
Description:

Stiff dark grey fine sandy silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.6
Diameter	(mm)	103.2
Moisture Content	(%)	22
Bulk Density	(Mg/m³)	2.04
Dry Density	(Mg/m³)	1.67
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.6
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	390
Strain at failure	(%)	8.4
Maximum Deviator Stress	(kPa)	493
Shear Stress Cu	(kPa)	246

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	30

Checked and Approved by:

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09/07/2015

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Project Name:

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	21.00
Sample Type	U

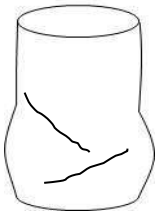
Description:

Stiff brown-grey slightly fine sandy CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.4
Diameter	(mm)	103.8
Moisture Content	(%)	23
Bulk Density	(Mg/m³)	2.01
Dry Density	(Mg/m³)	1.63
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	0.9
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	420
Strain at failure	(%)	14.8
Maximum Deviator Stress	(kPa)	498
Shear Stress Cu	(kPa)	249

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	20

Checked and Approved by:

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09/07/2015

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Project Name:

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BS 1377 : Part 7 : 1990 Clause 8

Quick Undrained Triaxial Compression Test

BH/TP No	BH8
Depth (m)	22.50
Sample Type	U

Description:

Firm to stiff dark grey fine sandy silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	202.5
Diameter	(mm)	103.5
Moisture Content	(%)	25
Bulk Density	(Mg/m³)	1.90
Dry Density	(Mg/m³)	1.52
Test Details		
Latex membrane thickness	(mm)	0.3
Membrane correction	(kPa)	1.1
Axial displacement rate	(%/min)	2.0
Cell pressure	(kPa)	450
Strain at failure	(%)	18.8
Maximum Deviator Stress	(kPa)	142
Shear Stress Cu	(kPa)	71

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	20

Checked and Approved by:

Operations Manager
09/07/2015

Project Number:

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Project Name:

HIGHGATE SCHOOL, LONDON

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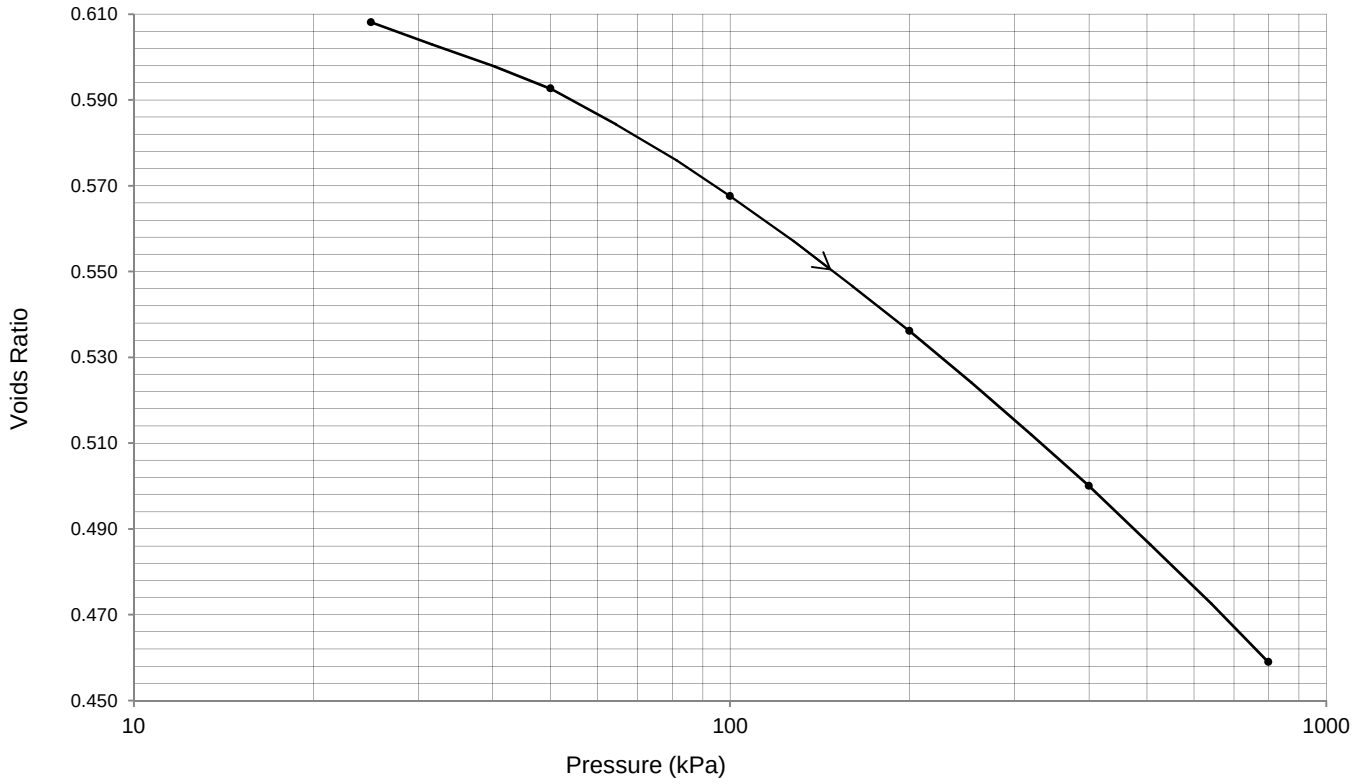
BS1377 : Part 5 : Clause 3 : 1990

Determination of One Dimensional Consolidation Properties of Soil

Borehole No.:	BH6
Sample Ref.:	-
Depth (m):	6.50
Depth within original:	6.57
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Firm brown and blue grey mottled silty fine sandy CLAY



Initial Conditions:

					Initial
Height	(mm)	19.0	Moisture Content	(%)	14
Diameter	(mm)	75.0	Voids Ratio		0.614
Area	(mm²)	4413.2	Bulk Density	(Mg/m³)	1.90
Volume	(cm³)	83.6	Dry Density	(Mg/m³)	1.67
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 25	0.15	6.4	t90	0.608
25 - 50	0.38	8.7	t90	0.593
50 - 100	0.31	6.6	t90	0.568
100 - 200	0.20	7.7	t90	0.536
200 - 400	0.12	7.0	t90	0.500
400 - 800	0.068	5.6	t90	0.459

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 19/05/2015

Project Number:

GEO / 22564

Project Name:

Highgate School, London

Project Ref.: J15093

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UKAS TESTING 1982

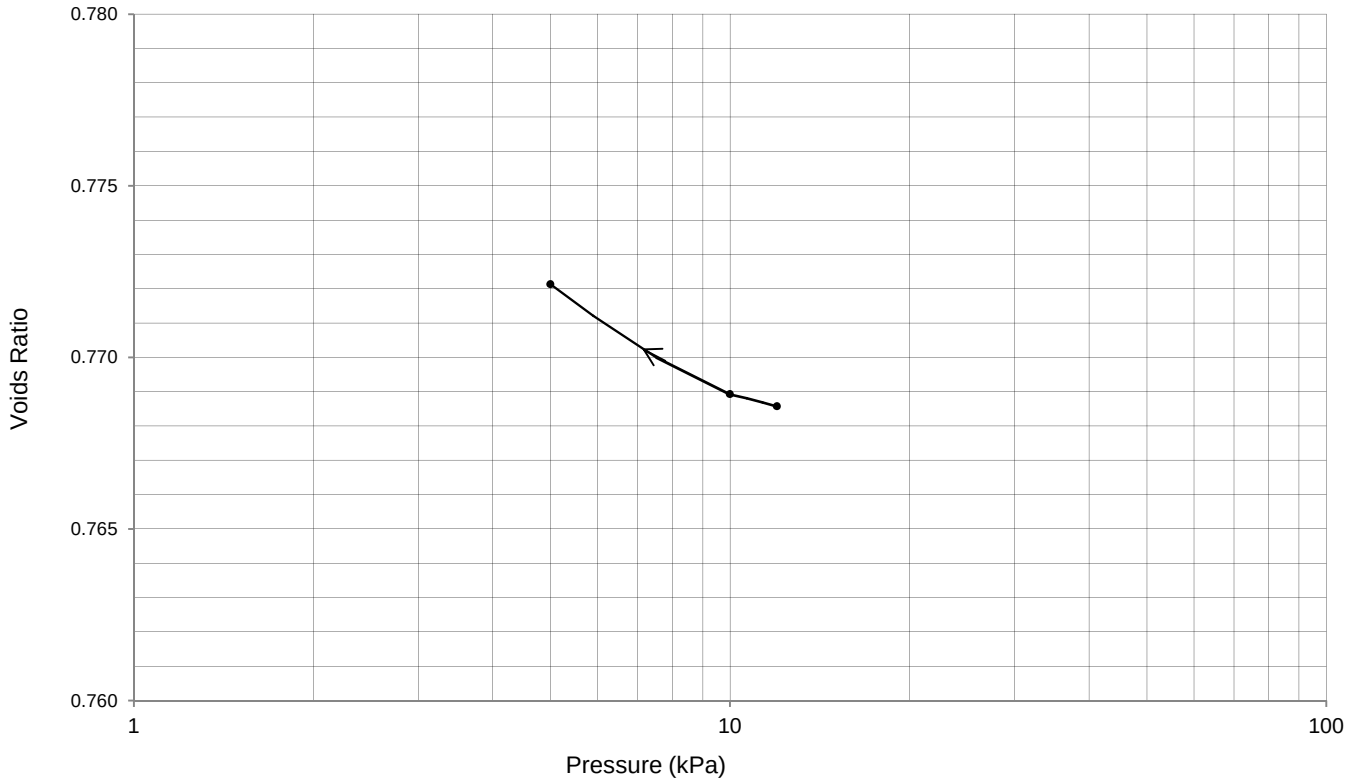
BS1377 : Part 5 : Clause 4.3 & 4.4 : 1990

Determination of Swelling Properties of Soil

Borehole No.:	BH6
Sample Ref.:	-
Depth (m):	9.50
Depth within original:	9.60
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Soft dark grey silty CLAY



Initial Conditions:

					Initial
Height	(mm)	19.0	Moisture Content	(%)	27
Diameter	(mm)	75.0	Voids Ratio		0.767
Area	(mm²)	4412.0	Bulk Density	(Mg/m³)	1.93
Volume	(cm³)	83.9	Dry Density	(Mg/m³)	1.53
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 12	-	Swelling Pressure	-	0.769
12 - 10	0.099	Unable to assess (Sv)	-	0.769
10 - 5	0.36	7.4 (Sv)	t90	0.772

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 19/05/2015

Project Number:

GEO / 22564

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Highgate School, London

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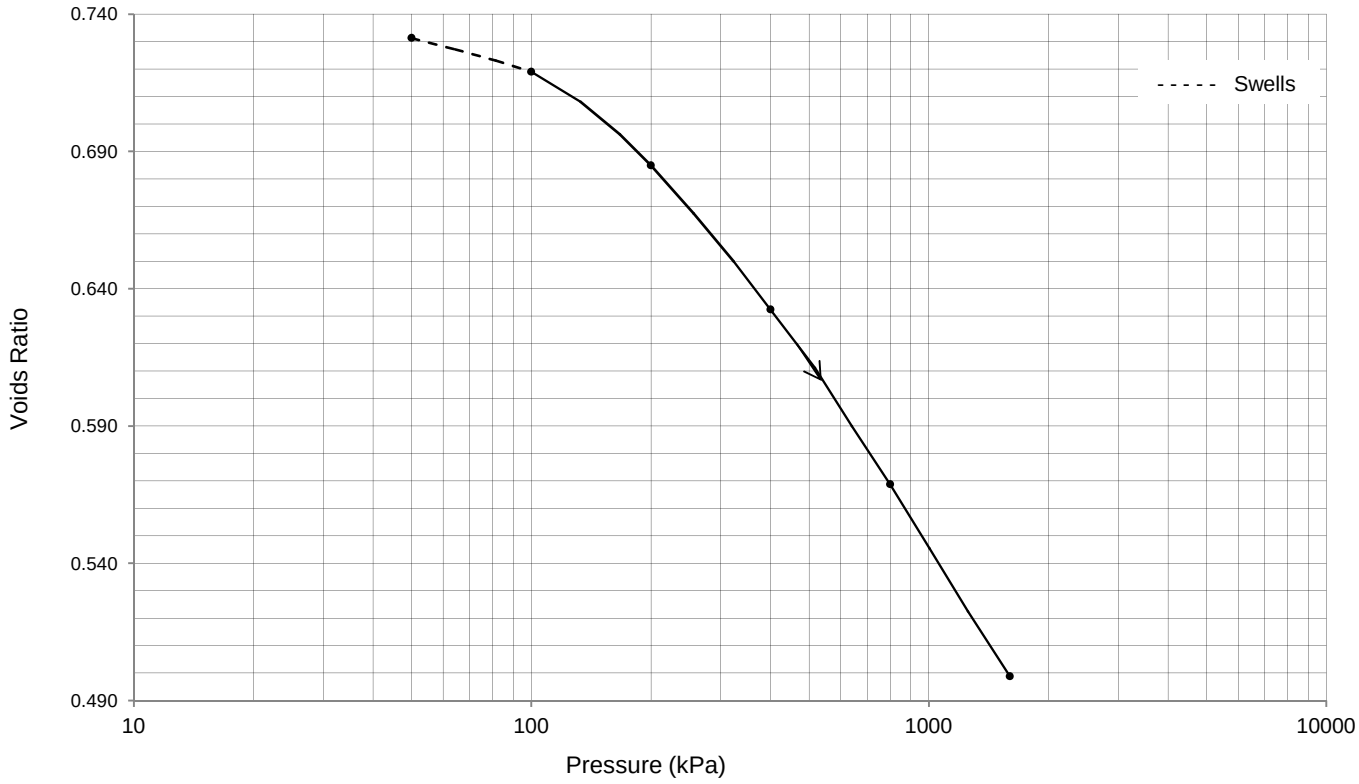
BS1377 : Part 5 : Clause 3 : 1990

Determination of One Dimensional Consolidation Properties of Soil

Borehole No.:	BH7
Sample Ref.:	-
Depth (m):	15.50
Depth within original:	15.55
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Firm dark grey and orange brown mottled silty CLAY



Initial Conditions:

					Initial
Height	(mm)	18.4	Moisture Content	(%)	25
Diameter	(mm)	76.2	Voids Ratio		0.735
Area	(mm²)	4555.6	Bulk Density	(Mg/m³)	1.95
Volume	(cm³)	84.0	Dry Density	(Mg/m³)	1.56
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 50	-	Specimen swelled	-	0.731
50 - 100	0.14	5.4	t50	0.719
100 - 200	0.20	5.6	t50	0.685
200 - 400	0.16	4.1	t50	0.632
400 - 800	0.097	3.4	t50	0.569
800 - 1600	0.056	2.5	t50	0.499

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 19/05/2015

Project Number:

GEO / 22564

Project Name:

Highgate School, London

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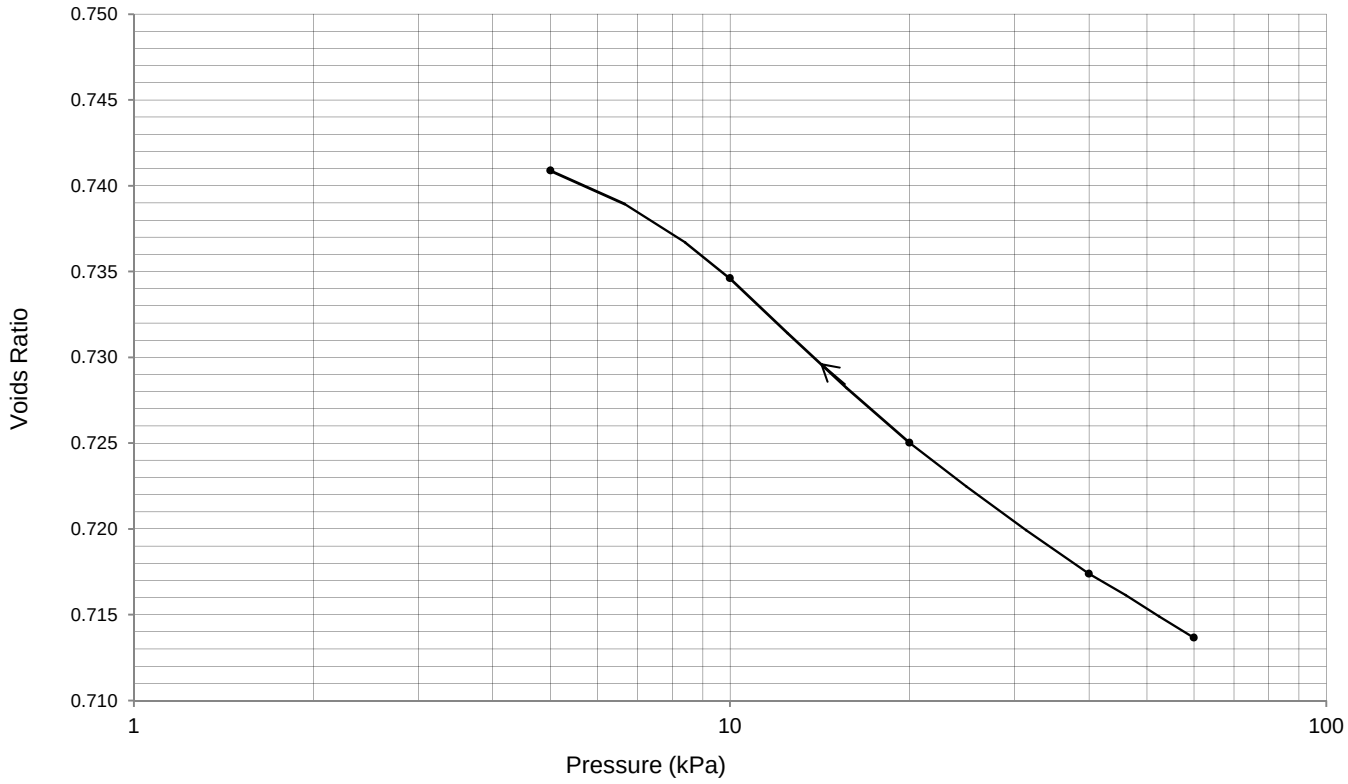
BS1377 : Part 5 : Clause 4.3 & 4.4 : 1990

Determination of Swelling Properties of Soil

Borehole No.:	BH7
Sample Ref.:	-
Depth (m):	18.50
Depth within original:	18.55
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Firm grey silty CLAY



Initial Conditions:

					Initial
Height	(mm)	16.4	Moisture Content	(%)	26
Diameter	(mm)	76.2	Voids Ratio		0.716
Area	(mm²)	4555.6	Bulk Density	(Mg/m³)	1.99
Volume	(cm³)	74.7	Dry Density	(Mg/m³)	1.57
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 60	-	Swelling Pressure	-	0.714
60 - 40	0.11	0.87 (Sv)	t50	0.717
40 - 20	0.22	0.57 (Sv)	t50	0.725
20 - 10	0.56	0.22 (Sv)	t50	0.735
10 - 5	0.72	0.12 (Sv)	t50	0.741

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 19/05/2015

Project Number:

GEO / 22564

Project Name:

Highgate School, London

Project Ref.: J15093

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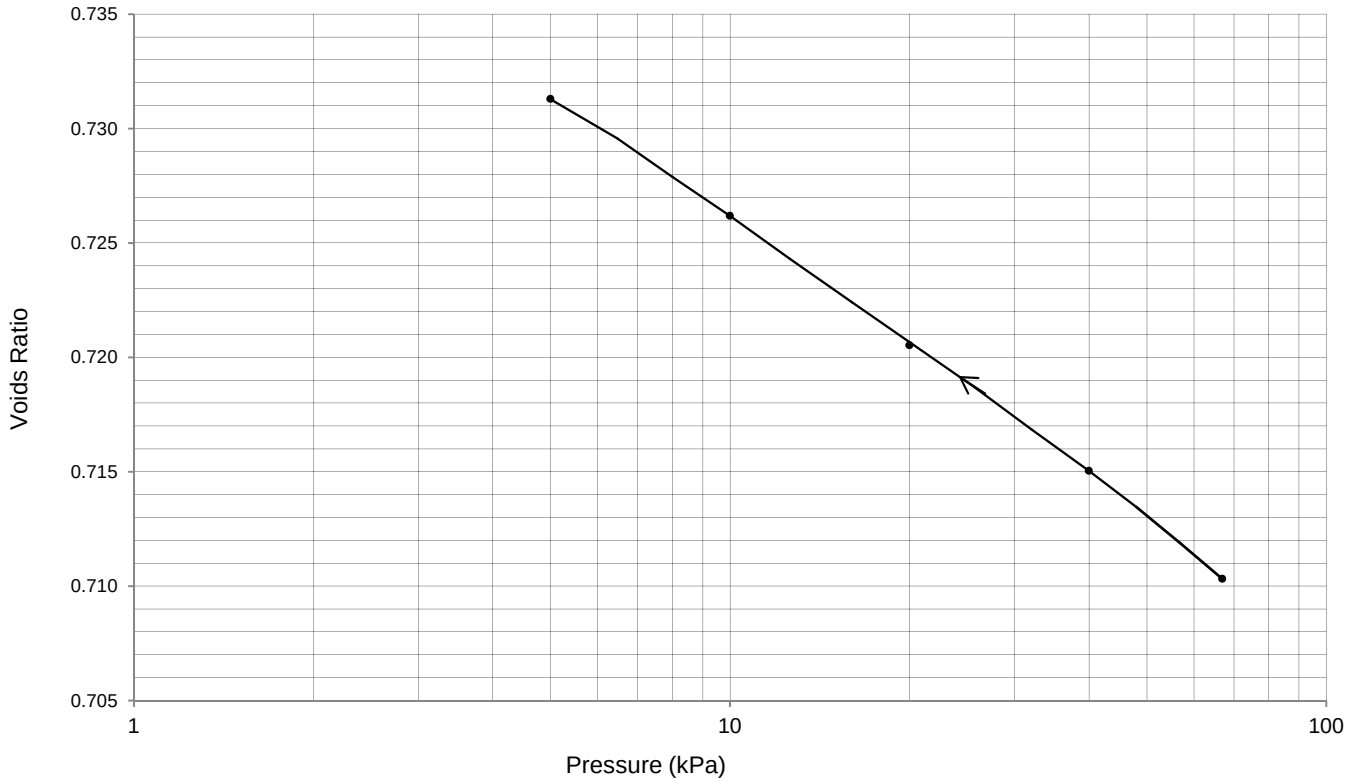
BS1377 : Part 5 : Clause 4.3 & 4.4 : 1990

Determination of Swelling Properties of Soil

Borehole No.:	BH8
Sample Ref.:	3
Depth (m):	9.00
Depth within original:	9.06
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Stiff fissured grey silty CLAY



Initial Conditions:

					Initial
Height	(mm)	17.0	Moisture Content	(%)	27
Diameter	(mm)	75.0	Voids Ratio		0.716
Area	(mm²)	4417.9	Bulk Density	(Mg/m³)	1.99
Volume	(cm³)	75.1	Dry Density	(Mg/m³)	1.57
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 67	-	Swelling Pressure	-	0.710
67 - 40	0.10	0.95 (Sv)	t50	0.715
40 - 20	0.16	0.87 (Sv)	t50	0.721
20 - 10	0.33	0.51 (Sv)	t50	0.726
10 - 5	0.59	0.18 (Sv)	t50	0.731

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 16/06/2015

Project Number:

GEO / 22717

Project Name:

Highgate School, London

Project Ref.: J15093

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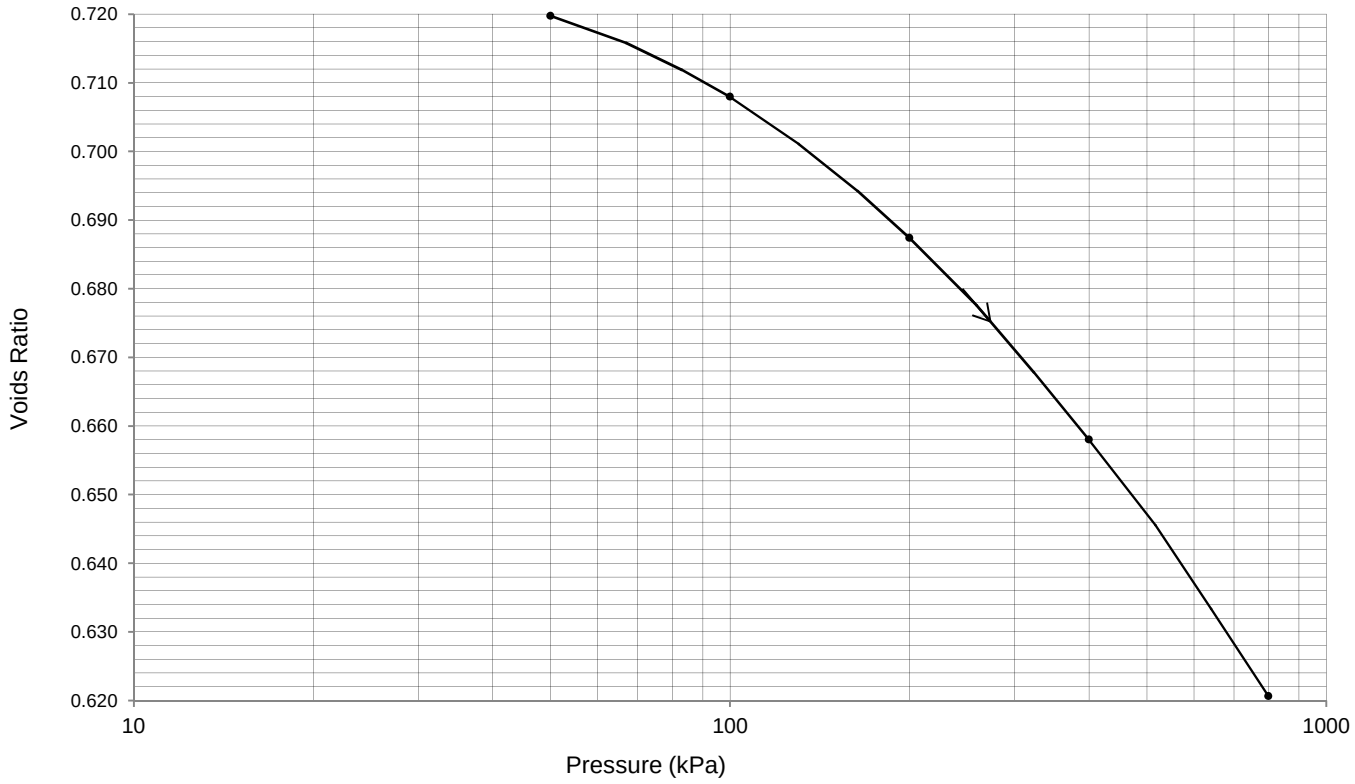
BS1377 : Part 5 : Clause 3 : 1990

Determination of One Dimensional Consolidation Properties of Soil

Borehole No.:	BH8
Sample Ref.:	4
Depth (m):	12.00
Depth within original:	12.13
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Firm friable grey fine sandy silty CLAY



Initial Conditions:

					Initial
Height	(mm)	18.5	Moisture Content	(%)	24
Diameter	(mm)	76.2	Voids Ratio		0.726
Area	(mm²)	4560.4	Bulk Density	(Mg/m³)	1.94
Volume	(cm³)	84.1	Dry Density	(Mg/m³)	1.56
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 50	0.074	3.9	t90	0.720
50 - 100	0.14	8.8	t90	0.708
100 - 200	0.12	5.8	t90	0.687
200 - 400	0.087	5.9	t90	0.658
400 - 800	0.056	5.0	t90	0.621

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 16/06/2015

Project Number:

GEO / 22717

Project Name:

Highgate School, London

Project Ref.: J15093

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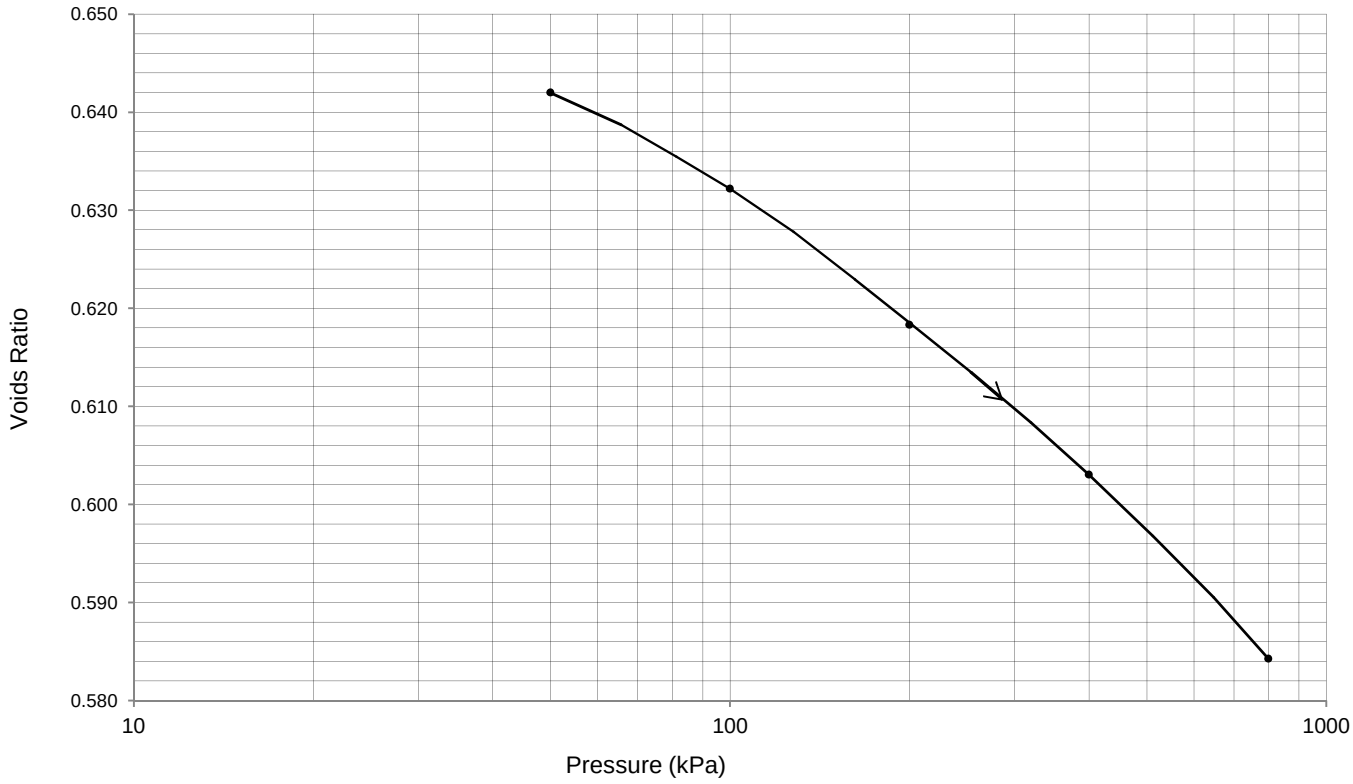
BS1377 : Part 5 : Clause 3 : 1990

Determination of One Dimensional Consolidation Properties of Soil

Borehole No.:	BH8
Sample Ref.:	5
Depth (m):	15.00
Depth within original:	15.10
Orientation within original:	Vertical
Specimen preparation:	Undisturbed

Description:

Firm friable grey silty CLAY



Initial Conditions:

					Initial
Height	(mm)	18.0	Moisture Content	(%)	22
Diameter	(mm)	76.2	Voids Ratio		0.643
Area	(mm²)	4554.4	Bulk Density	(Mg/m³)	2.01
Volume	(cm³)	82.1	Dry Density	(Mg/m³)	1.64
Laboratory Temperature	(ºC)	20	Particle density	(Mg/m³)	2.7 (Assumed)

Pressure Range (kPa)	m_v (m²/MN)	c_v (m²/year)	Time Fitting Method	Void Ratio
0 - 50	0.018	5.7	t90	0.642
50 - 100	0.12	7.2	t90	0.632
100 - 200	0.085	7.9	t90	0.618
200 - 400	0.047	7.4	t90	0.603
400 - 800	0.029	6.6	t90	0.584

Checked and Approved by

JS

J Sturges (Ops Mgr)

Date: 16/06/2015

Project Number:

GEO / 22717

Project Name:

Highgate School, London

Project Ref.: J15093

GEOLABS

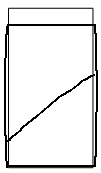
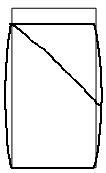
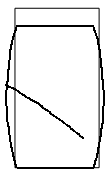
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BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test

with Measurement of Pore Pressure

Borehole Number: BH6	Description:
Sample Number:	Soft to firm browish grey silty CLAY with fine sand.
Depth (m): 6.50	

SPECIMEN DETAILS				
Depth within original sample		10mm from top		
Orientation within original sample		Vertical		
TEST DETAILS				
Specimen Preparation		Undisturbed		
Cell Preparation		Checks performed in accordance with Clause 3.5		
Specimen Number		**Specimen No 1**	**Specimen No 2**	**Specimen No 3**
Initial Diameter	*mm*	38.0	38.0	38.0
Initial Length	*mm*	76.4	76.3	76.6
Initial Moisture Content	*%*	25	25	25
Initial Wet Density	*Mg/m³*	1.98	2.01	1.99
Drainage Conditions		One end and radial boundary		
SATURATION STAGE				
Final Cell Pressure	*kPa*	360	420	480
Final Pore Pressure	*kPa*	340	402	465
Final Pore Pressure Parameter B		0.96	1.00	0.99
Duration	*day(s)*	3	3	3
CONSOLIDATION STAGE				
Cell Pressure	*kPa*	360	420	480
Back Pressure	*kPa*	300	300	300
Effective Pressure	*kPa*	60	120	180
Final Pore Pressure	*kPa*	300	300	300
Final Pore Pressure Dissipation	*%*	99	100	100
Duration	*day(s)*	1	1	1
SHEARING STAGE				
Cell Pressure	*kPa*	360	420	480
Rate of Axial Displacement	*mm/min*	0.0060	0.0060	0.0060
Initial Pore Pressure	*kPa*	300	300	300
Initial Effective Stress	*kPa*	60	120	180
CONDITIONS AT FAILURE	*criteria*	Maximum Principal Stress Ratio		
Pore Pressure	*kPa*	320	320	365
Minor Effective Principal Stress	*kPa*	40	100	115
Deviator Stress	*kPa*	131	309	334
Major Effective Principal Stress	*kPa*	171	409	449
Effective Principal Stress Ratio		4.29	4.09	3.89
Pore Pressure Parameter A		0.15	0.06	0.19
Axial Strain	*%*	2.9	3.2	3.0
Correction applied to Deviator Stress	*kPa*	11	11	11
Duration	*day(s)*	1	1	1
Final Moisture Content	*%*	26	25	24
Final Wet Density	*Mg/m³*	2.01	2.05	2.05
EFFECTIVE STRESS PARAMETERS				
Cohesion	*kPa*	5		
Angle of Shear Resistance	*degrees*	35.5		
FAILURE SKETCHES				

Checked and Approved

Initials:

24/06/15

Date: 24/06/15

Project Number:

GEO / 22677

Project Name:

HIGHGATE SCHOOL, LONDON

Project reference J15093

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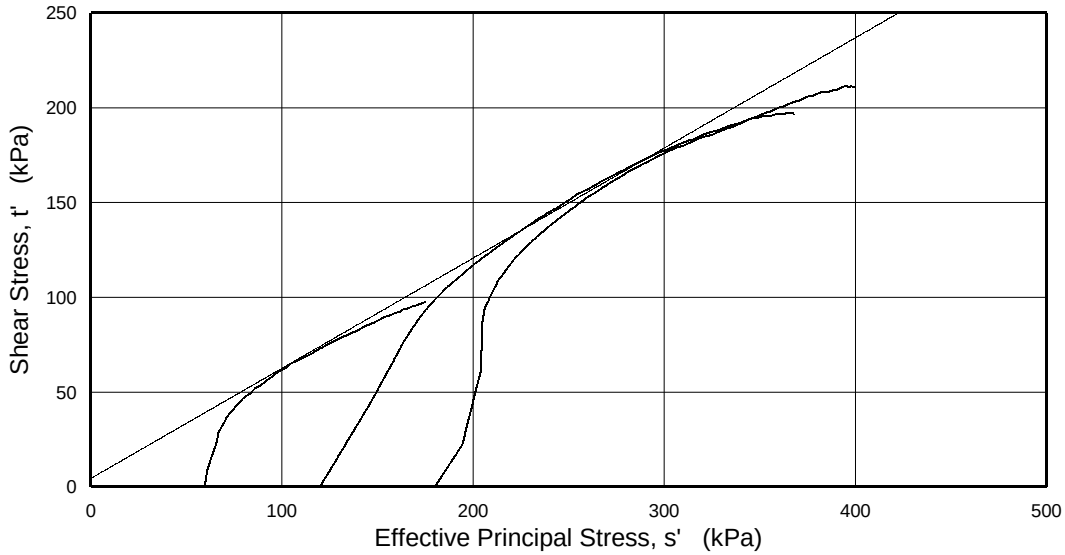
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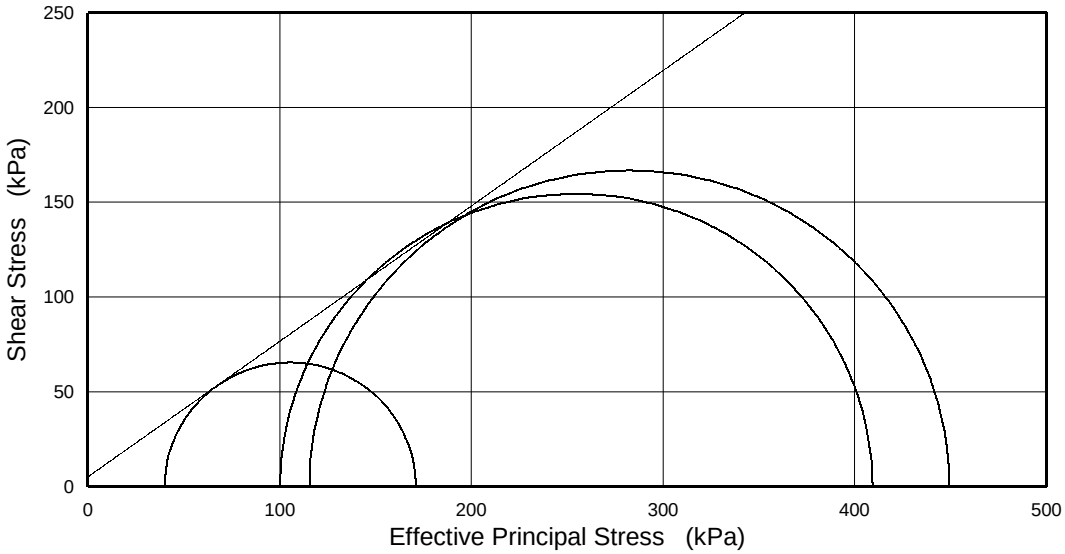
BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test

with Measurement of Pore Pressure

Borehole Number: BH6 Sample Number: Depth (m): 6.50	Description: Soft to firm browish grey silty CLAY with fine sand.





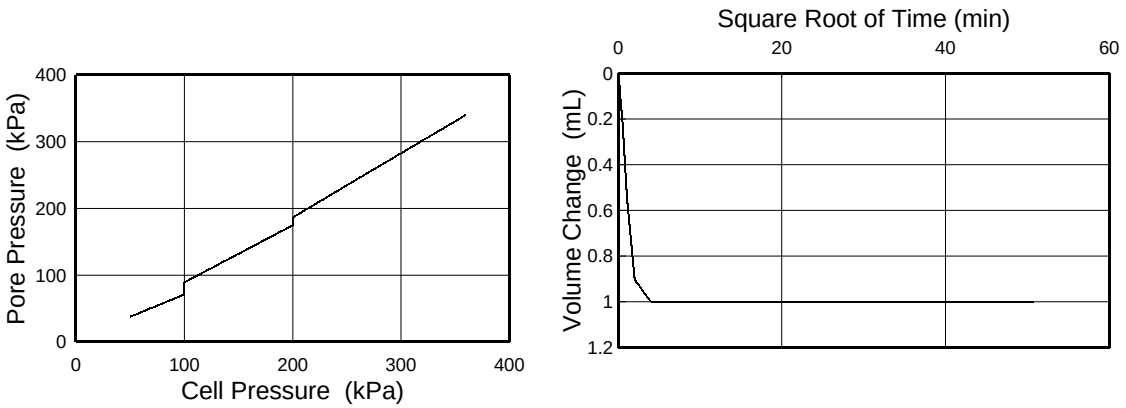
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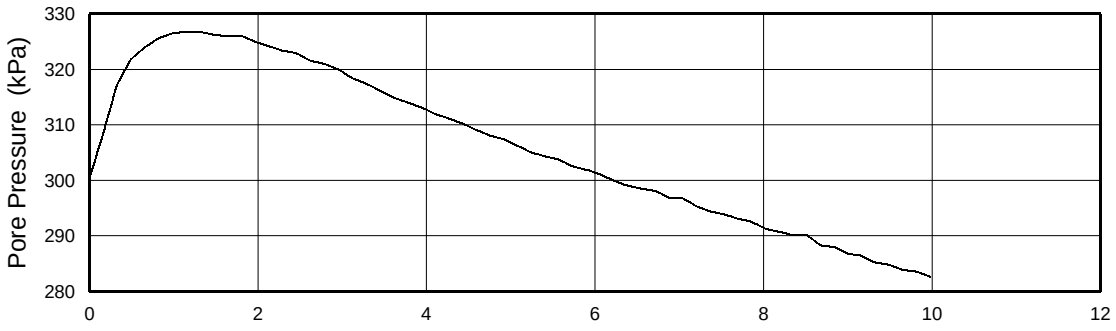
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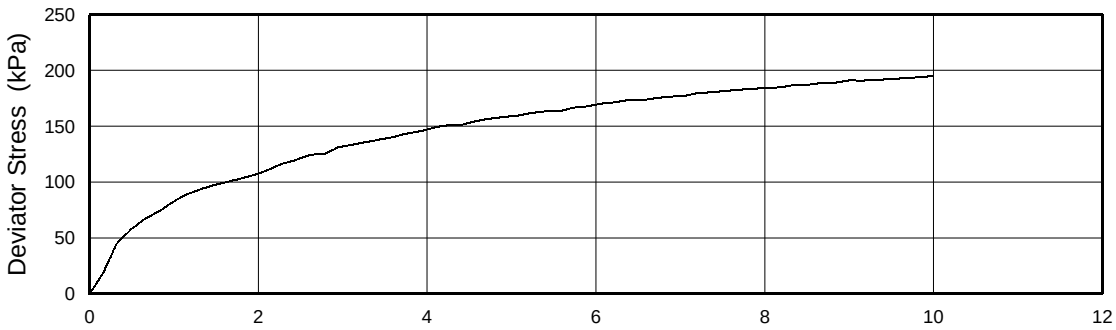
Consolidated Undrained Triaxial Compression Test

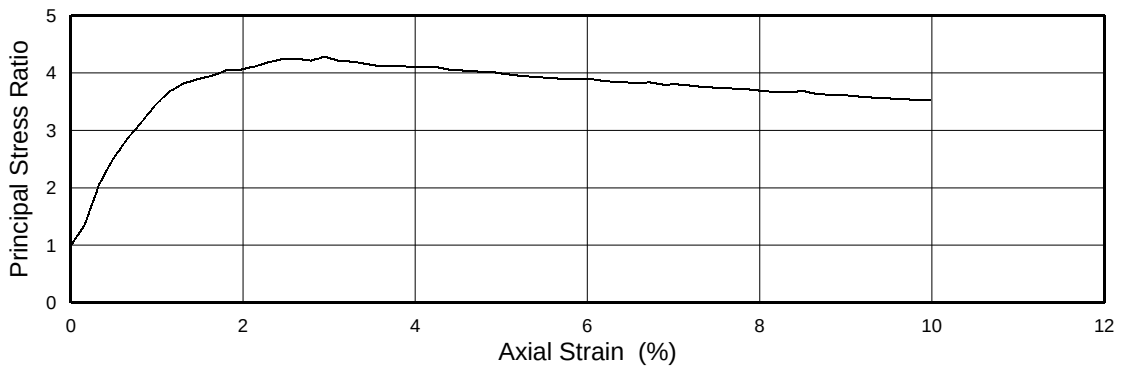
with Measurement of Pore Pressure

Borehole Number: BH6 Sample Number: Depth (m): 6.50	**Specimen No 1**









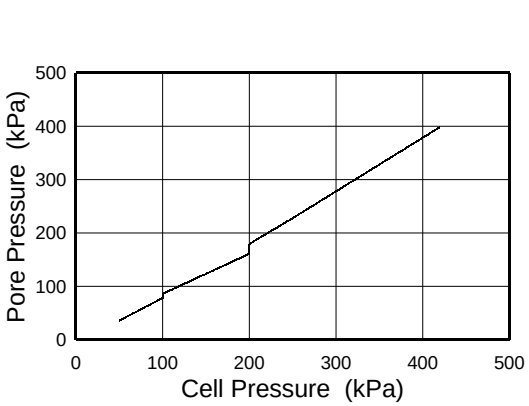
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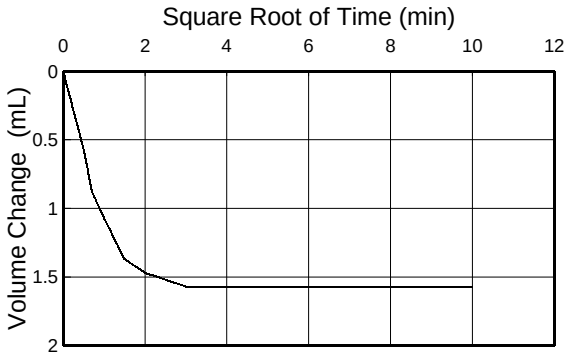
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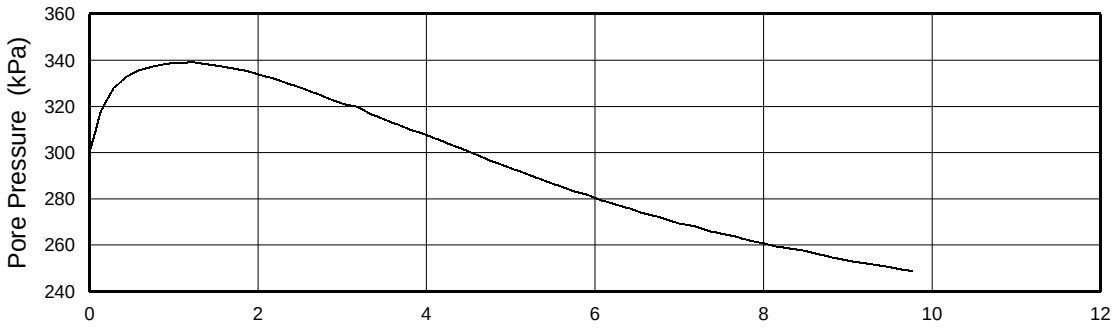
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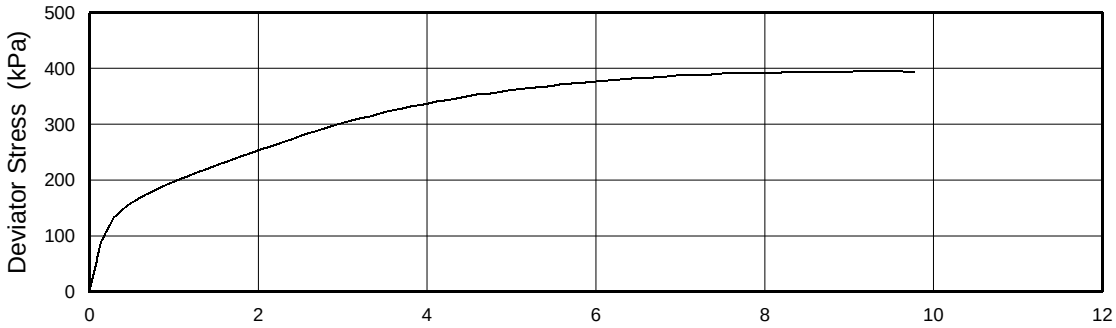
with Measurement of Pore Pressure

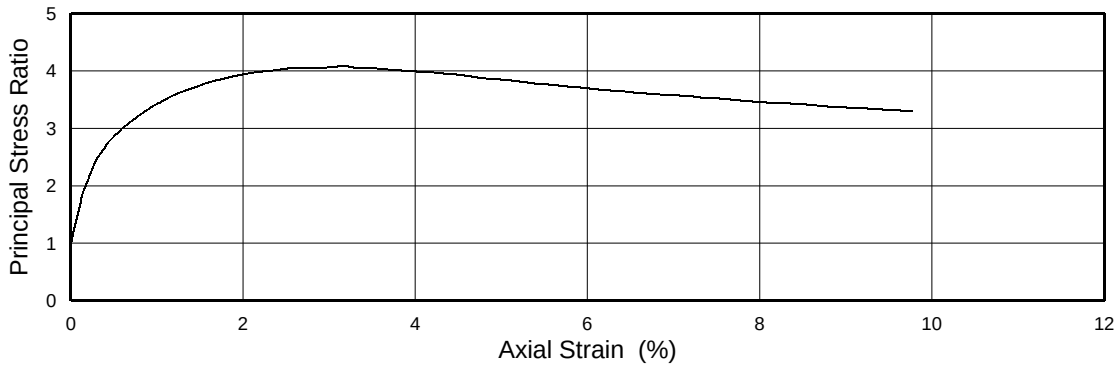
Borehole Number: BH6 Sample Number: Depth (m): 6.50	**Specimen No 2**











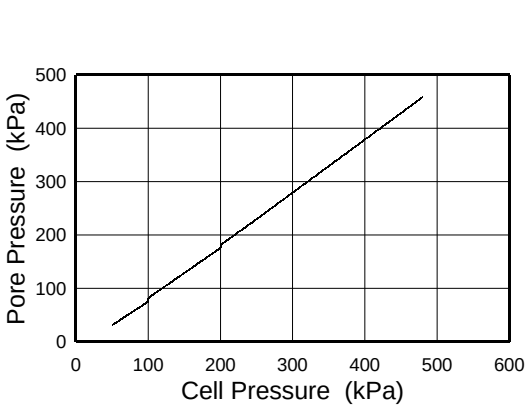
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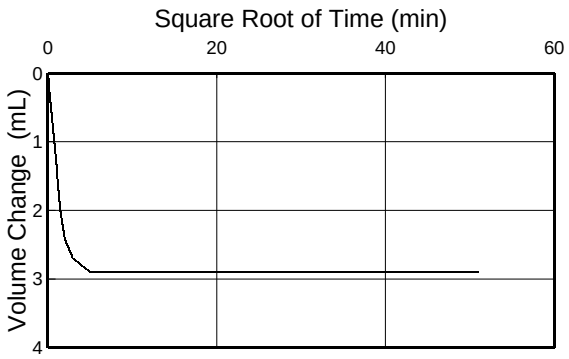
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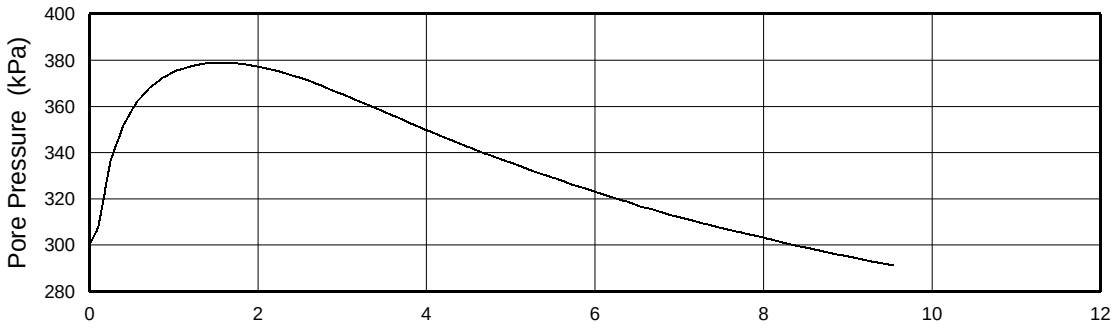
Consolidated Undrained Triaxial Compression Test

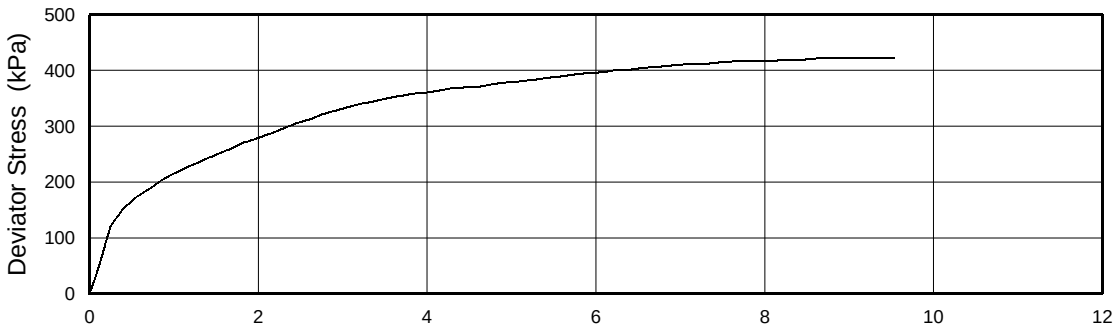
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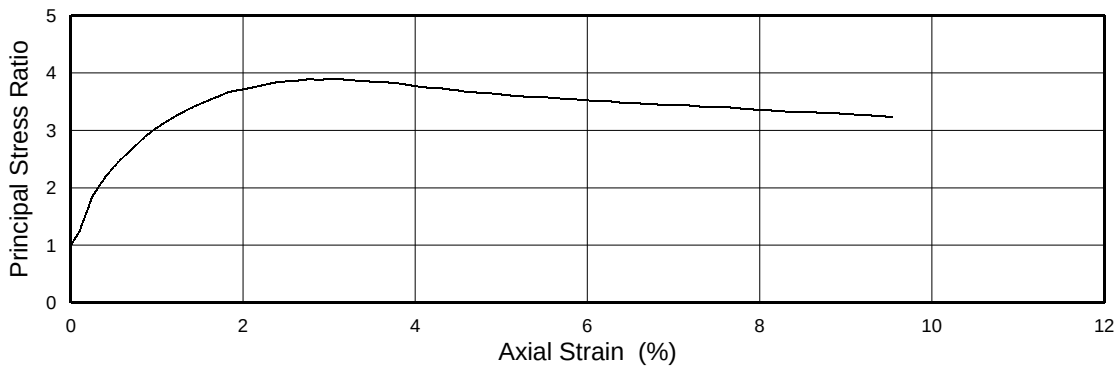
Borehole Number: BH6 Sample Number: Depth (m): 6.50	**Specimen No 3**











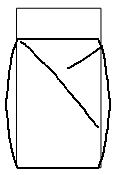
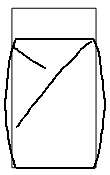
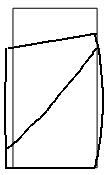
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Consolidated Undrained Triaxial Compression Test

with Measurement of Pore Pressure

Borehole Number: BH7	Description:
Sample Number:	Very stiff fissured dark brownish grey CLAY with some
Depth (m): 15.50	fissures lined with orange silty fine sand

SPECIMEN DETAILS				
Depth within original sample		70mm from top		
Orientation within original sample		Vertical		
TEST DETAILS				
Specimen Preparation		Undisturbed		
Cell Preparation		Checks performed in accordance with Clause 3.5		
Specimen Number		**Specimen No 1**	**Specimen No 2**	**Specimen No 3**
Initial Diameter	*mm*	37.9	37.9	37.9
Initial Length	*mm*	75.3	75.4	75.3
Initial Moisture Content	*%*	24	25	24
Initial Wet Density	*Mg/m³*	2.03	2.01	2.04
Drainage Conditions		One end and radial boundary		
SATURATION STAGE				
Final Cell Pressure	*kPa*	540	680	820
Final Pore Pressure	*kPa*	524	664	811
Final Pore Pressure Parameter B		0.98	1.00	1.00
Duration	*day(s)*	5	5	5
CONSOLIDATION STAGE				
Cell Pressure	*kPa*	540	680	820
Back Pressure	*kPa*	400	400	400
Effective Pressure	*kPa*	140	280	420
Final Pore Pressure	*kPa*	401	400	400
Final Pore Pressure Dissipation	*%*	99	100	100
Duration	*day(s)*	1	1	1
SHEARING STAGE				
Cell Pressure	*kPa*	540	680	820
Rate of Axial Displacement	*mm/min*	0.0060	0.0060	0.0060
Initial Pore Pressure	*kPa*	401	400	400
Initial Effective Stress	*kPa*	139	280	420
CONDITIONS AT FAILURE	*criteria*	Maximum Principal Stress Ratio		
Pore Pressure	*kPa*	430	498	530
Minor Effective Principal Stress	*kPa*	110	182	290
Deviator Stress	*kPa*	235	359	558
Major Effective Principal Stress	*kPa*	345	541	848
Effective Principal Stress Ratio		3.13	2.97	2.93
Pore Pressure Parameter A		0.12	0.27	0.23
Axial Strain	*%*	3.9	6.2	3.7
Correction applied to Deviator Stress	*kPa*	12	13	12
Duration	*day(s)*	1	1	1
Final Moisture Content	*%*	27	26	26
Final Wet Density	*Mg/m³*	2.15	2.13	2.21
EFFECTIVE STRESS PARAMETERS				
Cohesion	*kPa*	10		
Angle of Shear Resistance	*degrees*	28.5		
FAILURE SKETCHES				

Checked and Approved

Initials: *RJP*

Date: 25/06/15

Project Number: **GEO / 22677**

Project Name: **HIGHGATE SCHOOL, LONDON**

Project reference J15093

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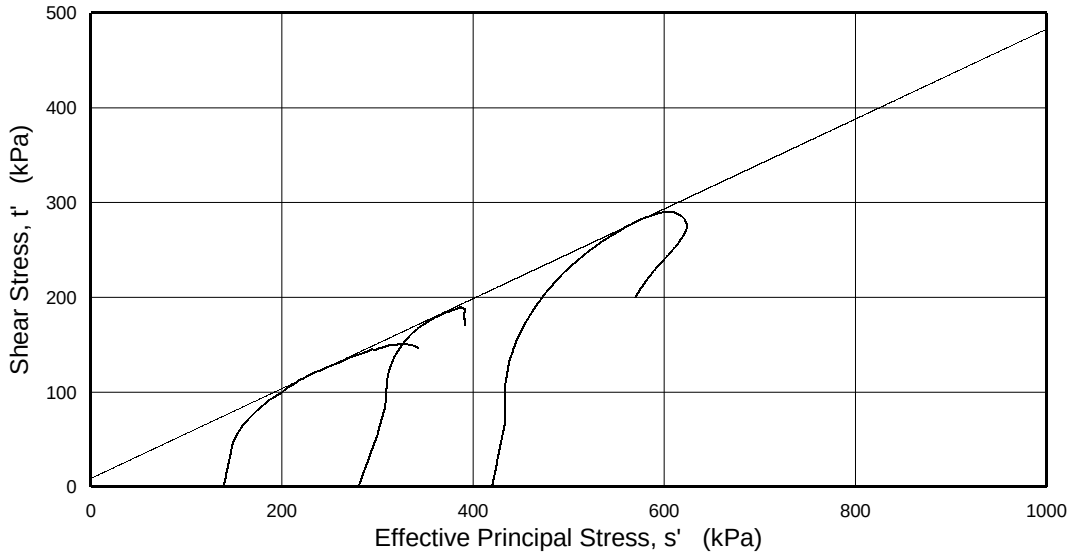
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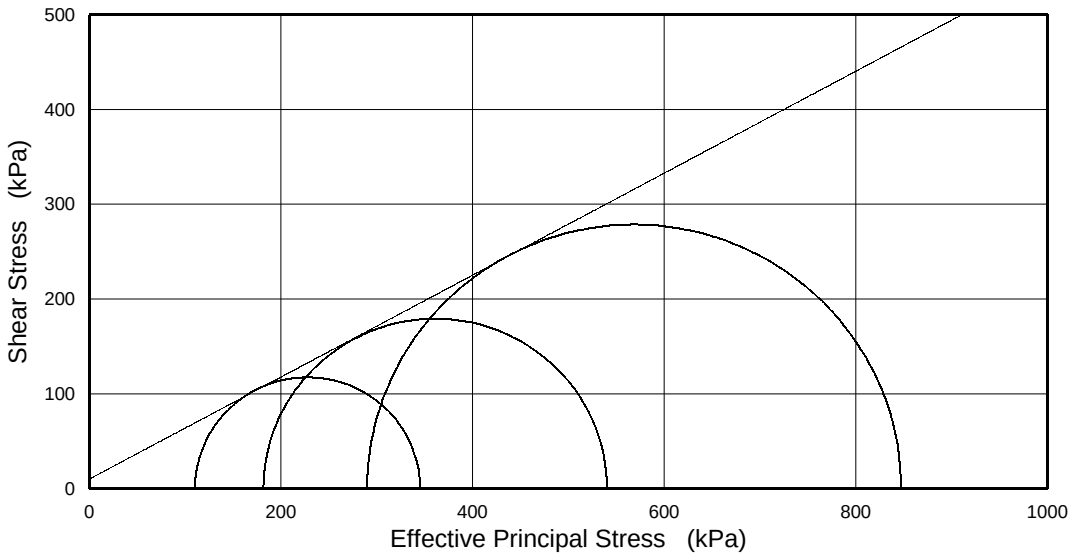
BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test

with Measurement of Pore Pressure

Borehole Number: BH7	Description:
Sample Number:	Very stiff fissured dark brownish grey CLAY with some
Depth (m): 15.50	fissures lined with orange silty fine sand





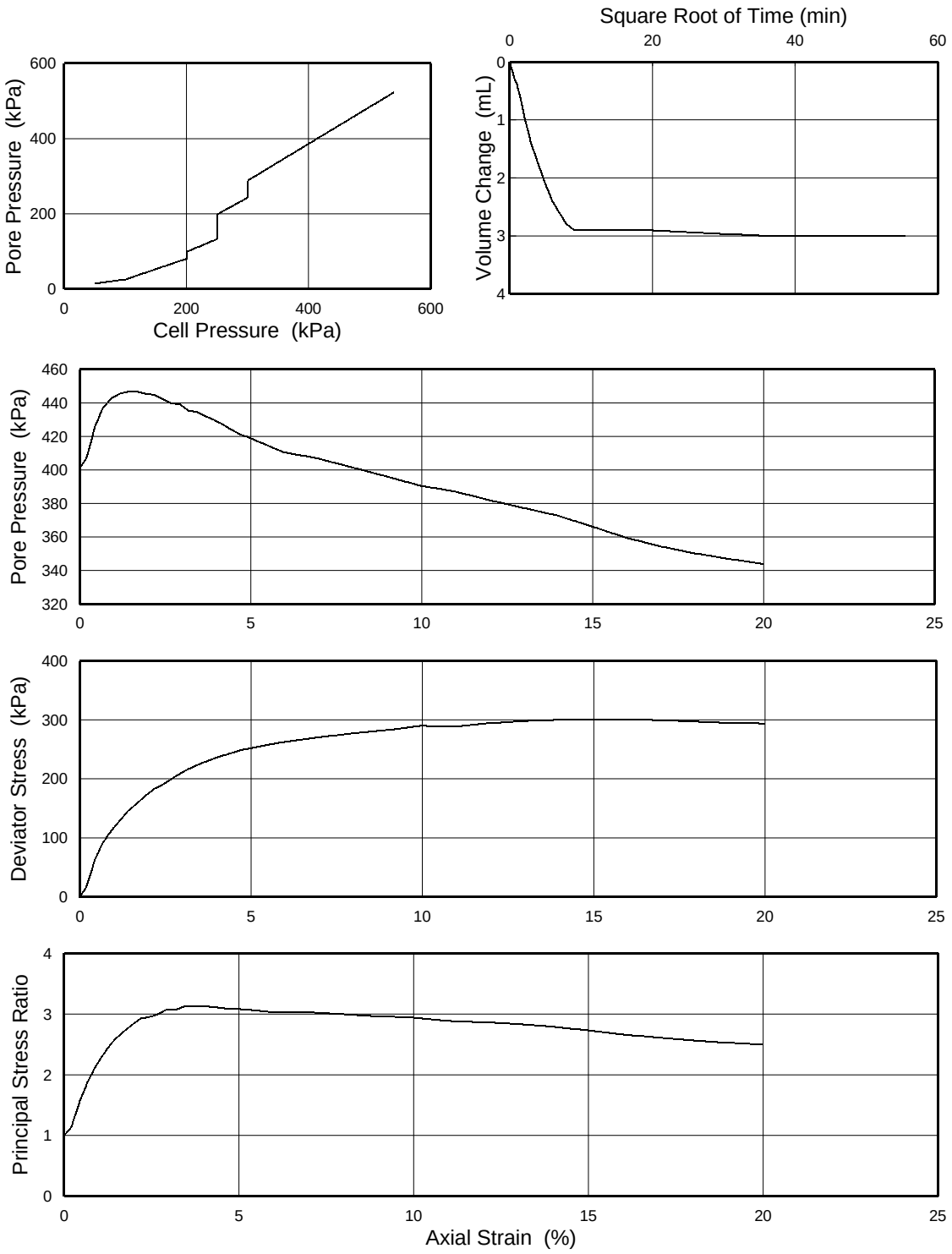
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BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test

with Measurement of Pore Pressure

Borehole Number: BH7 Sample Number: Depth (m): 15.50	**Specimen No 1**



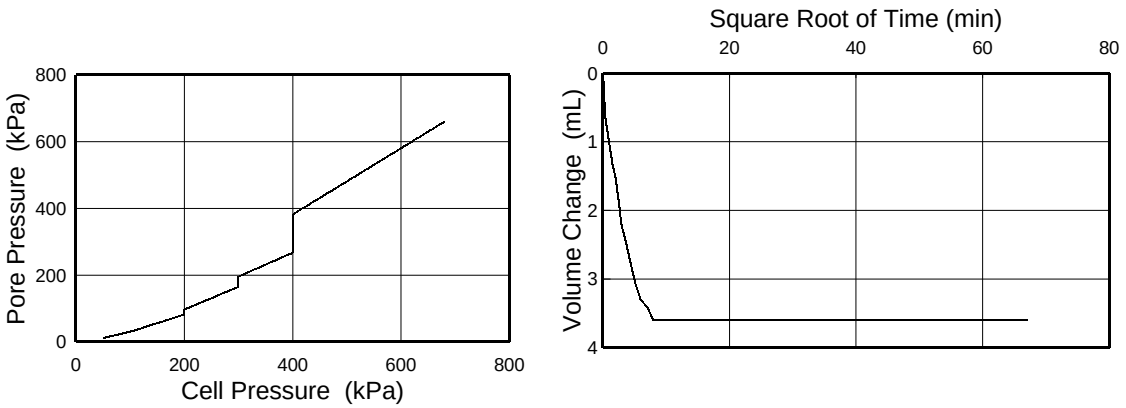
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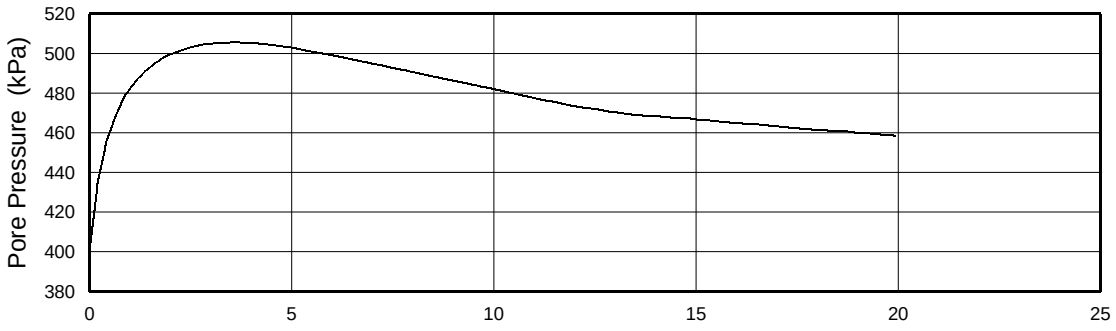
BS1377 : Part 8 : Clause 7

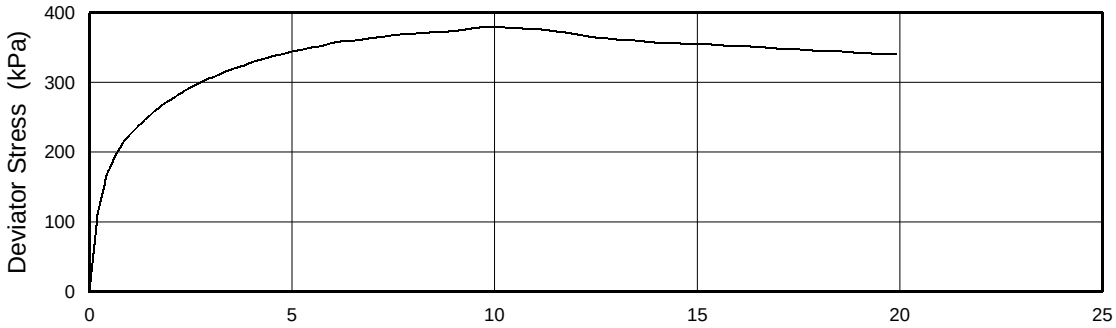
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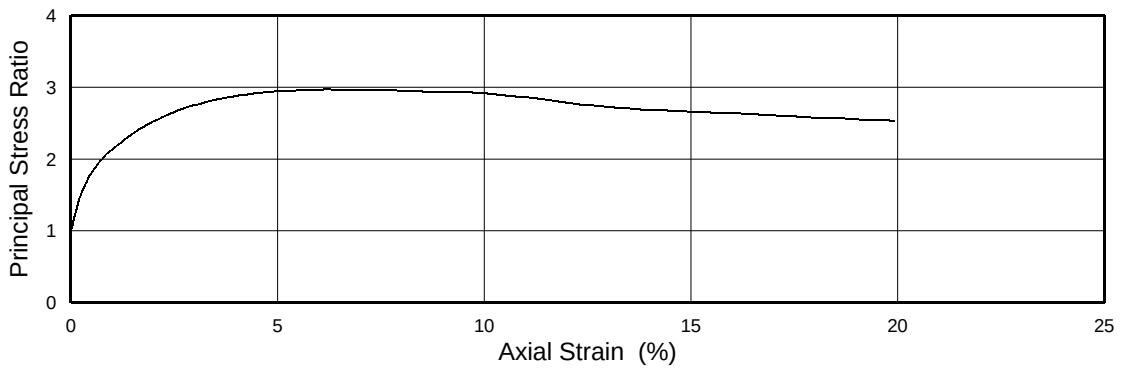
with Measurement of Pore Pressure

Borehole Number: BH7 Sample Number: Depth (m): 15.50	**Specimen No 2**









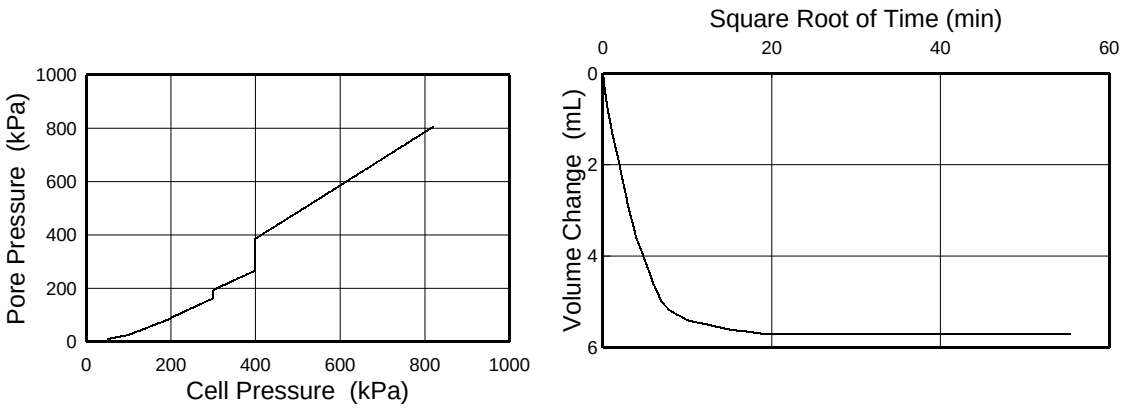
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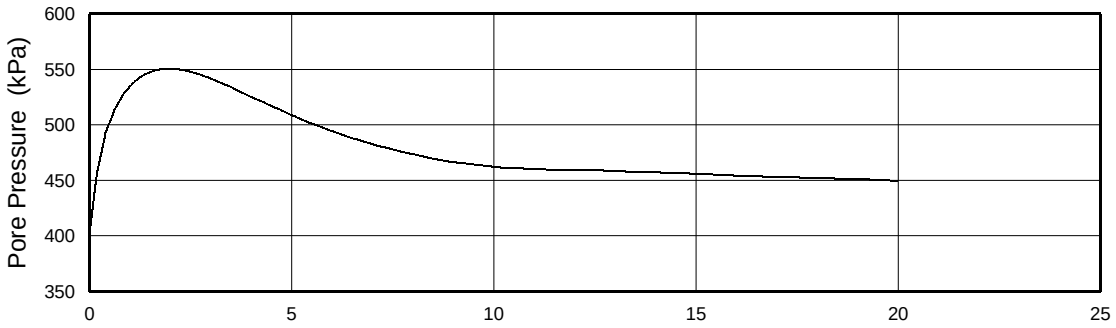
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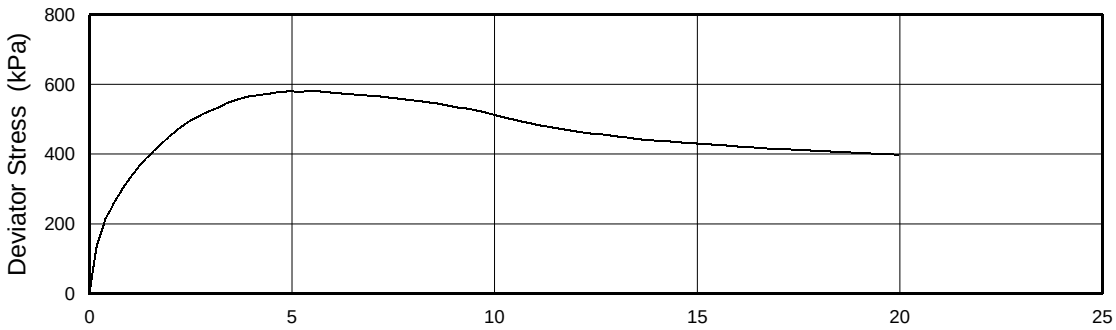
Consolidated Undrained Triaxial Compression Test

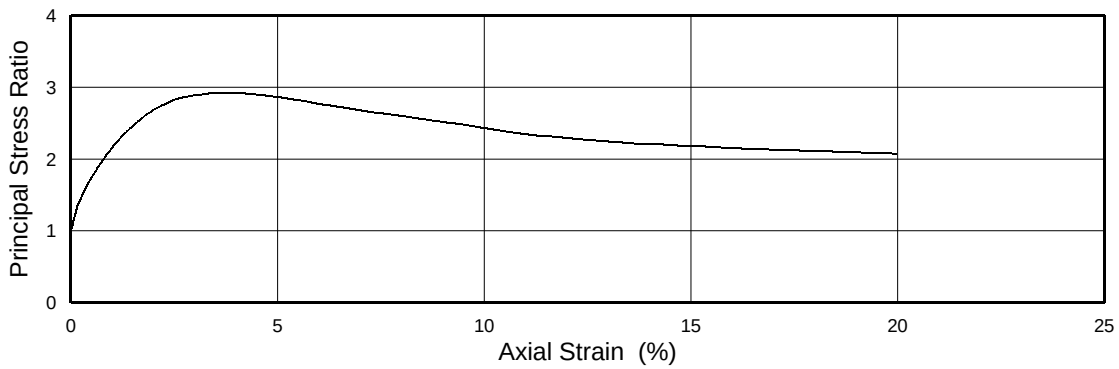
with Measurement of Pore Pressure

Borehole Number: BH7 Sample Number: Depth (m): 15.50	**Specimen No 3**







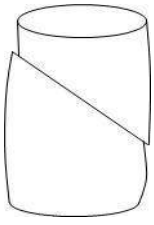
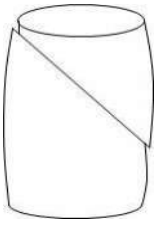


Checked and Approved Initials: *RJP* Date: 25/06/15	Project Number: **GEO / 22677** Project Name: **HIGHGATE SCHOOL, LONDON** **Project reference J15093**	UKAS TESTING 1982 GEOLABS®

BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

Borehole No.: BH8	Description: Dark brown mottled dark grey and black fine sandy CLAY.
Depth (m): 12.00	

SPECIMEN DETAILS				
Depth within original sample		20 mm from top		
Orientation within original sample		Vertical		
TEST DETAILS				
Specimen Type and Preparation		U (Undisturbed)		
Cell Preparation		Checks performed in accordance with Clause 3.5		
Specimen Number		**Specimen No. 1**	**Specimen No. 2**	**Specimen No. 3**
Initial Diameter	*mm*	38.19	38.21	38.23
Initial Length	*mm*	75.08	75.07	75.13
Initial Moisture Content	*%*	23	24	21
Initial Wet Density	*Mg/m³*	2.01	2.01	2.01
Drainage Conditions		One end and radial boundary		
SATURATION STAGE		Method: Clause 5.2 & 5.3	Method: Clause 5.2 & 5.3	Method: Clause 5.2 & 5.3
Final Cell Pressure	*kPa*	520	640	760
Final Pore Pressure	*kPa*	503	611	746
Final Pore Pressure Parameter B		0.99	1.00	1.00
Duration	*day(s)*	3	3	3
CONSOLIDATION STAGE				
Cell Pressure	*kPa*	520	640	760
Back Pressure	*kPa*	400	400	400
Effective Pressure	*kPa*	120	240	360
Final Pore Pressure	*kPa*	400	401	401
Final Pore Pressure Dissipation	*%*	100	99	100
Duration	*day(s)*	1	1	1
SHEARING STAGE				
Cell Pressure	*kPa*	520	640	760
Rate of Axial Displacement	*mm/min*	0.0060	0.0060	0.0060
Initial Pore Pressure	*kPa*	400	401	401
Initial Effective Stress	*kPa*	120	239	359
CONDITIONS AT FAILURE	*criteria*	Maximum effective principal stress ratio		
Pore Pressure	*kPa*	432	472	521
Minor Effective Principal Stress	*kPa*	88	168	239
Deviator Stress	*kPa*	255	410	575
Major Effective Principal Stress	*kPa*	343	578	814
Effective Principal Stress Ratio		3.90	3.43	3.40
Pore Pressure Parameter A		0.13	0.17	0.21
Axial Strain	*%*	2.6	4.0	2.6
Correction applied to Deviator Stress	*kPa*	11	12	11
Duration	*day(s)*	1	1	1
Final Moisture Content	*%*	24	24	22
Final Wet Density	*Mg/m³*	2.08	2.05	2.14
EFFECTIVE STRESS PARAMETERS				
Cohesion	*kPa*	18		
Angle of Shear Resistance	*degrees*	31		
FAILURE SKETCH				

Checked and Approved by

Senior Technician
13/07/2015

Project Number:

GEO / 22770

Project Name:

HIGHGATE SCHOOL, LONDON
J15093

GEOLABS

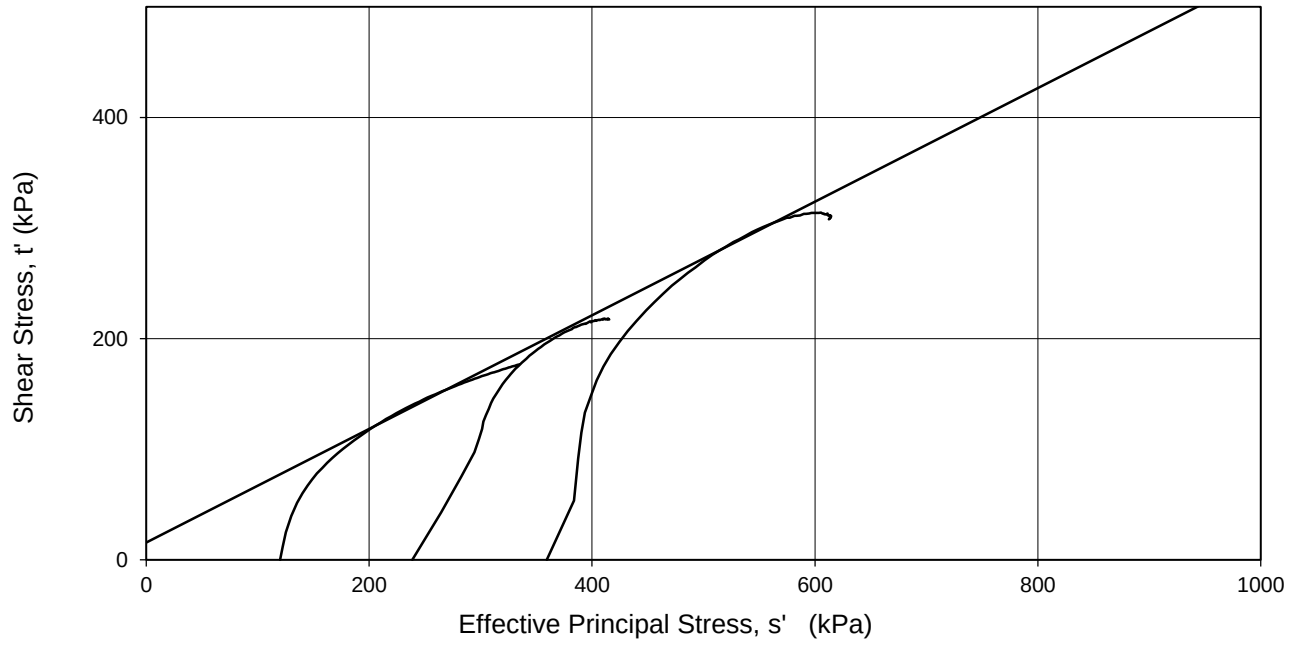
UKAS TESTING 1982

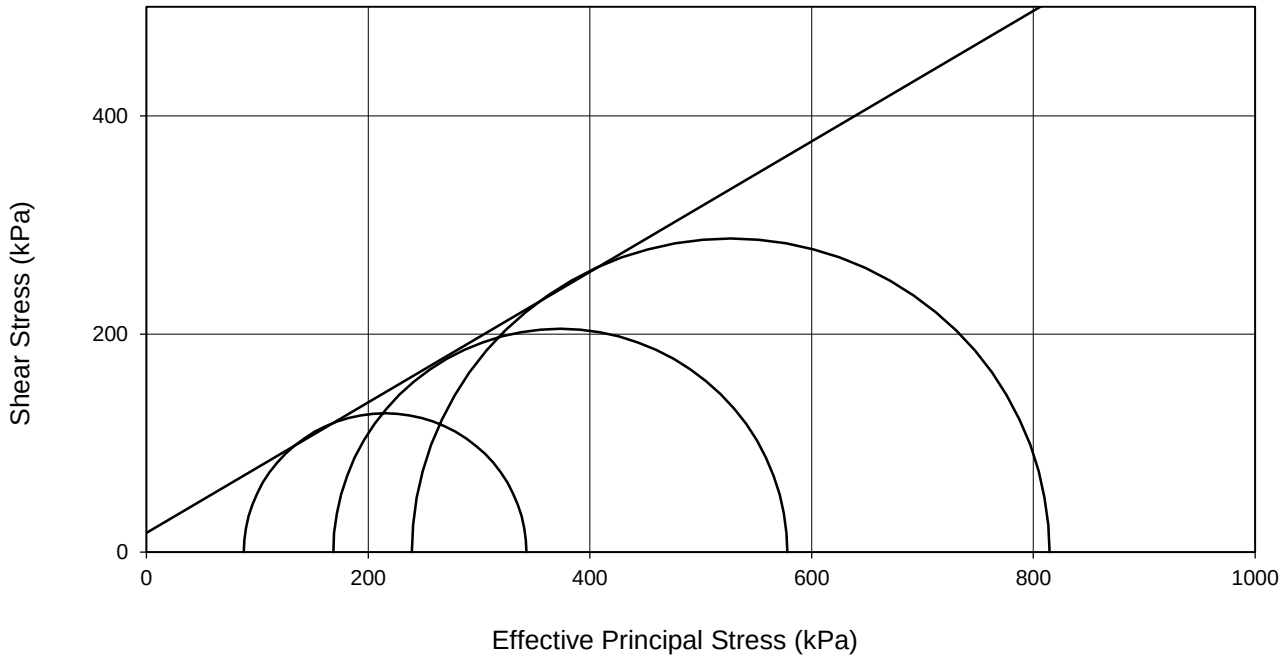
BS1377 : Part 8 : Clause 7

Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

Borehole No.:	BH8
Depth (m):	12.00

Description:
Dark brown mottled dark grey and black fine sandy CLAY.





Checked and Approved by

Senior Technician
13/07/2015

Project Number:

GEO / 22770

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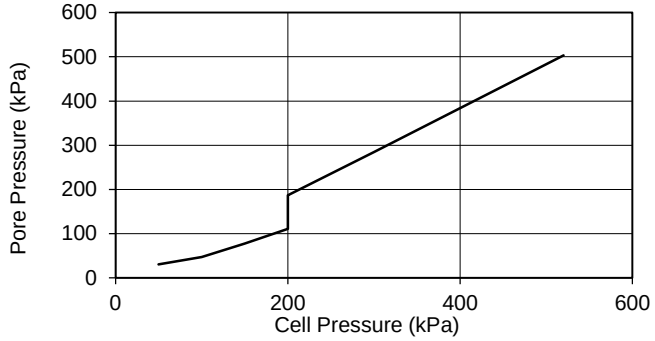
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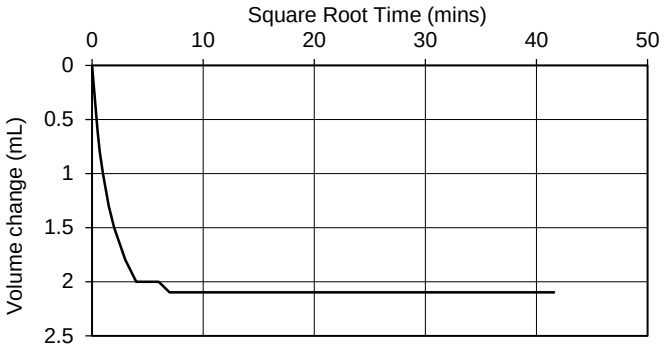
UKAS TESTING 1982

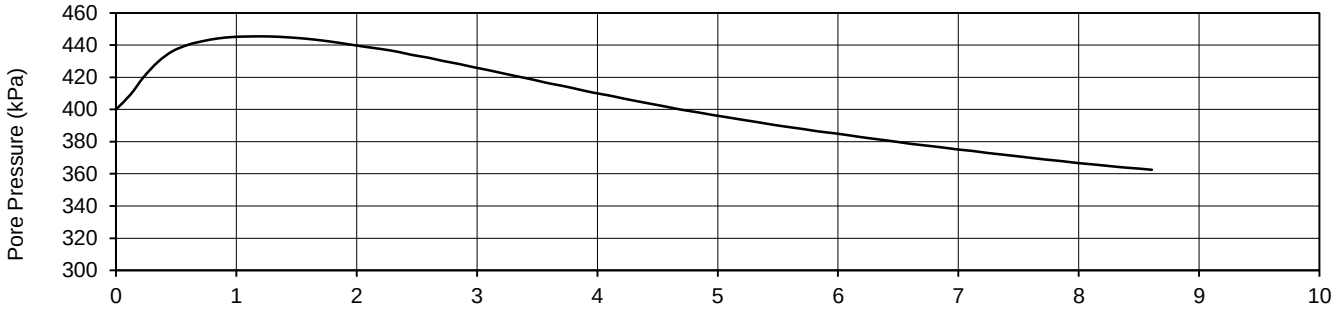
BS1377 : Part 8 : Clause 7

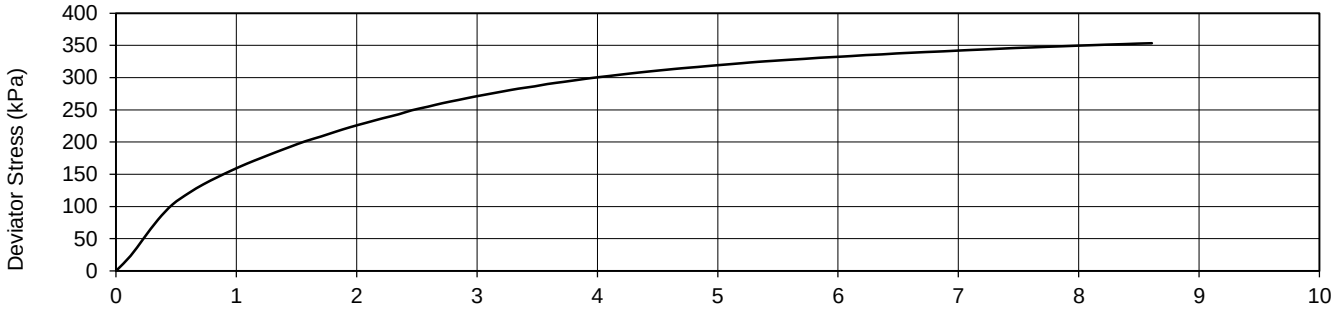
Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

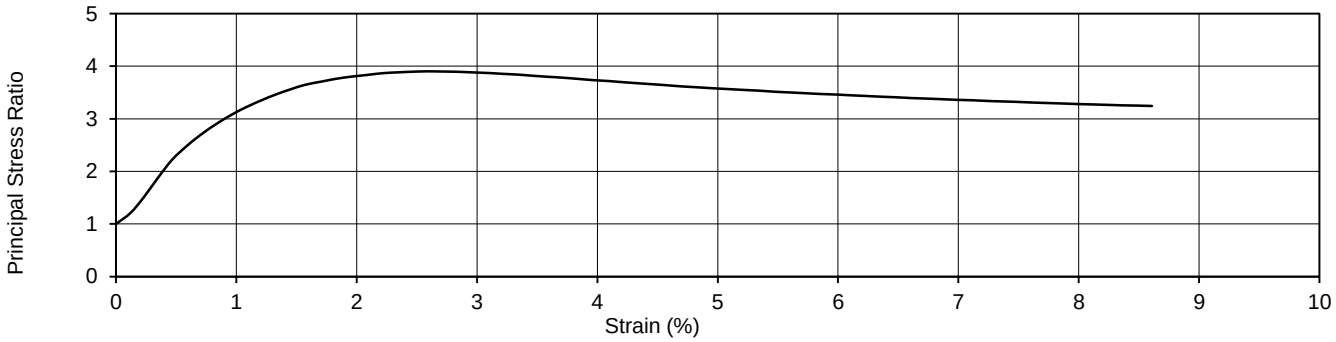
Borehole No.: BH8	**Specimen 1**
Depth (m): 12.00	











Checked and Approved by

Senior Technician
13/07/2015

Project Number:

GEO / 22770

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HIGHGATE SCHOOL, LONDON

J15093

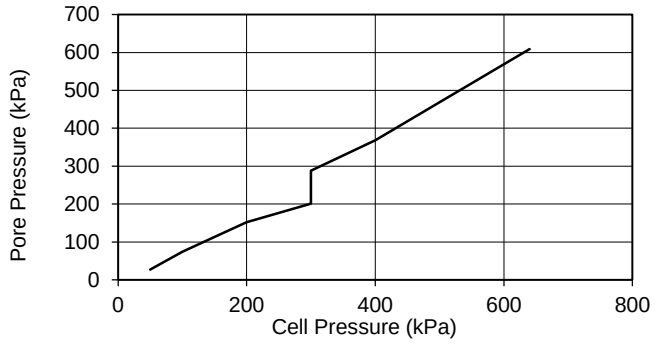
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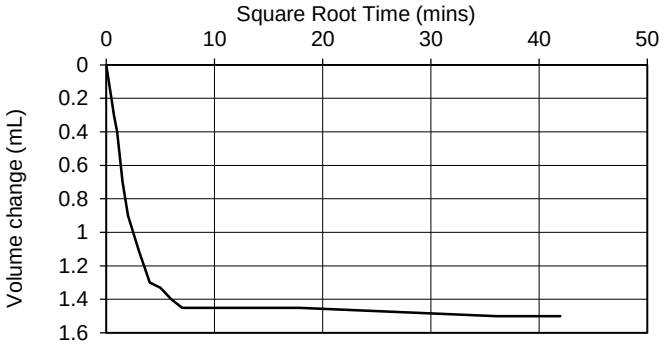
UKAS TESTING 1982

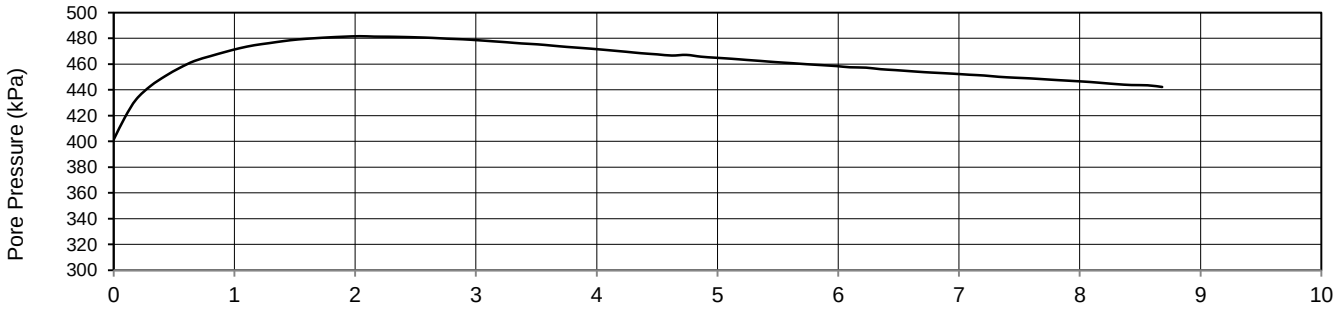
BS1377 : Part 8 : Clause 7

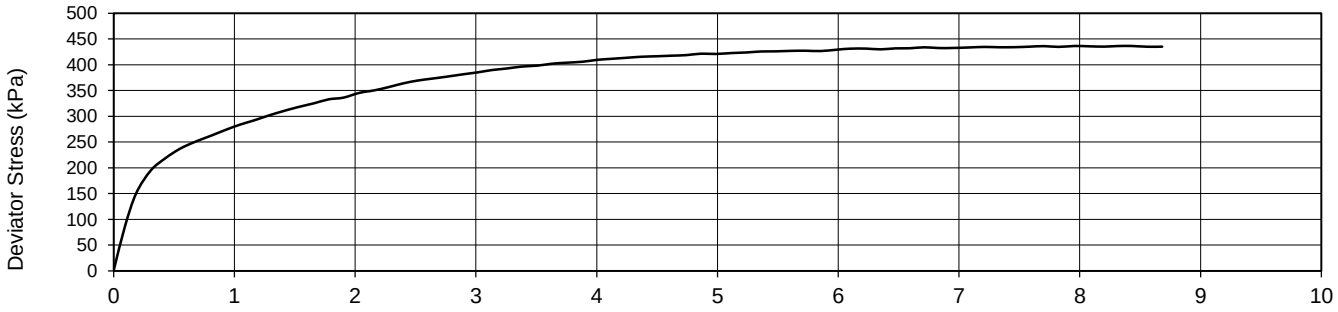
Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

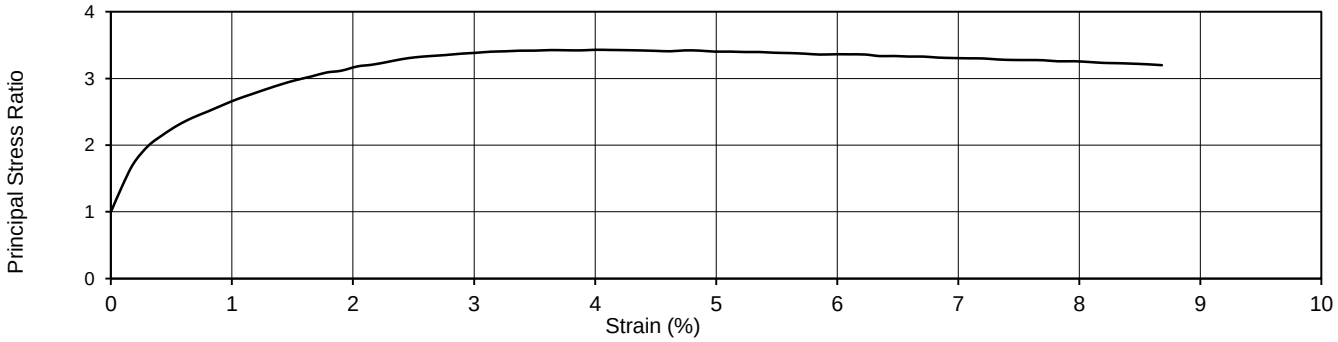
Borehole No.: BH8	**Specimen 2**
Depth (m): 12.00	











Checked and Approved by

Senior Technician
13/07/2015

Project Number:

GEO / 22770

Project Name:

HIGHGATE SCHOOL, LONDON

J15093

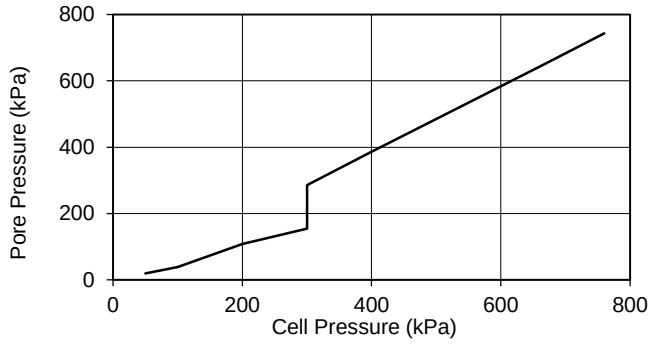
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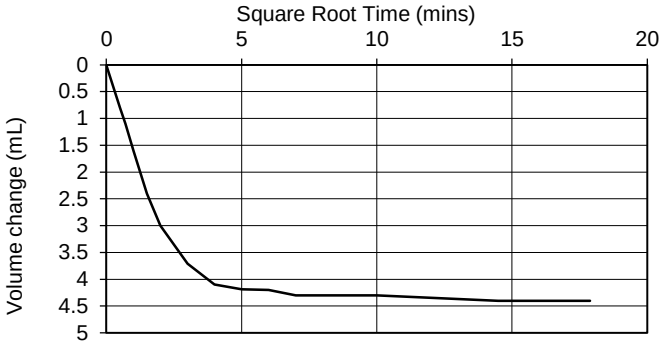
UKAS TESTING 1982

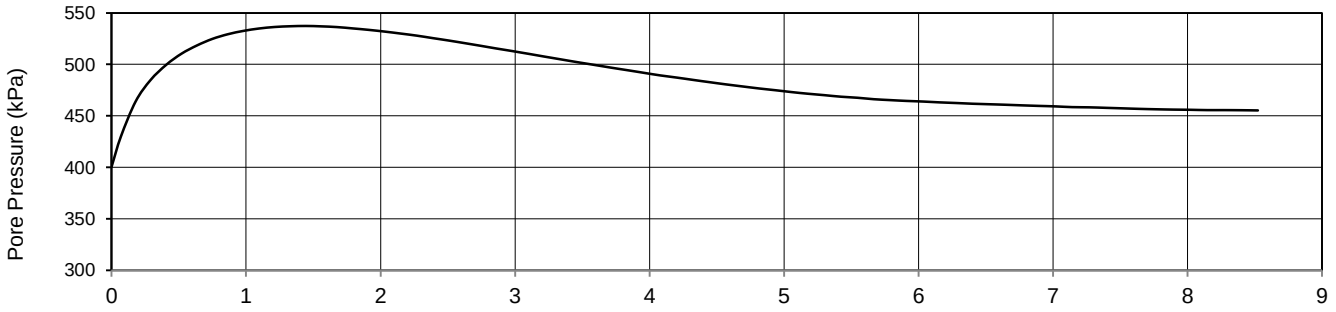
BS1377 : Part 8 : Clause 7

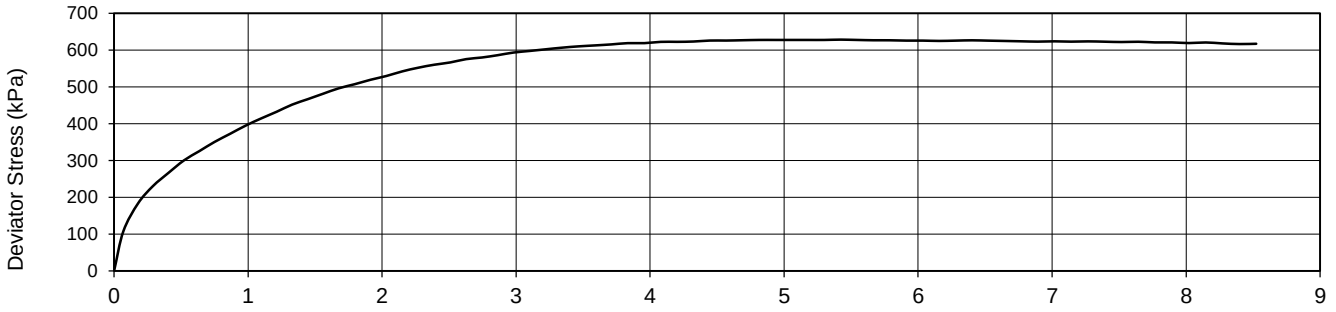
Consolidated Undrained Triaxial Compression Test with Measurement of Pore Pressure

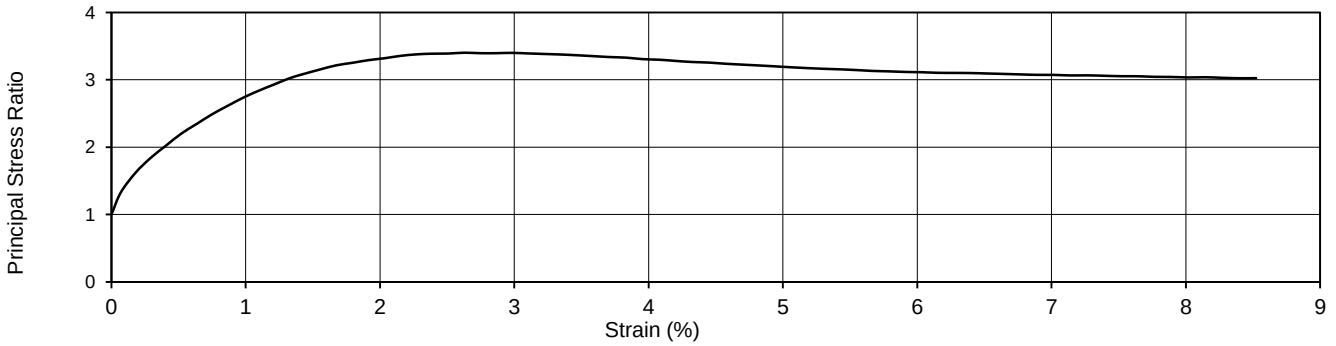
Borehole No.: BH8	**Specimen 3**
Depth (m): 12.00	











Checked and Approved by

Senior Technician
13/07/2015

Project Number:

GEO / 22770

Project Name:

HIGHGATE SCHOOL, LONDON

J15093

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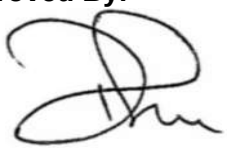
Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report Number:	15-08489 Issue-1
Initial Date of Issue:	27-Apr-2015
Client:	GEA
Client Address:	Widbury Barn Widbury Hill Ware Hertfordshire SG12 7QE
Contact(s):	Bryan O'Gorman Matthew Elcock
Project:	J15093- Highgate School

Quotation No.:		**Date Received:**	15-Apr-2015
Order No.:		**Date Instructed:**	22-Apr-2015
No. of Samples:	11	**Target Due Date:**	24-Apr-2015
Turnaround: (Wkdays)	4	**Results Due Date:**	27-Apr-2015
Date Approved:	27-Apr-2015		

Approved By:



Details: Darrell Hall, Laboratory Director

Chemtest
The right chemistry to deliver results

Results Summary - Soil

Project: J15093- Highgate School

Client: GEA					Chemtest Job No.:	15-08489	15-08489	15-08489	15-08489	15-08489	15-08489	15-08489
Quotation No.:					Chemtest Sample ID.:	127711	127712	127714	127715	127716	127720	127721
Order No.:					Client Sample Ref.:							
					Client Sample ID.:	BH1	BH2	BH3	BH4	BH5	TP7	TP9
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	0.5	0.5	0.3	0.8	0.8	0.2	0.4
					Bottom Depth(m):							
					Date Sampled:	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15
Determinand	**Accred.**	**SOP**	**Units**	**LOD**								
Moisture	N	2030	%	0.02		10	21	17	17	13	13	18
Stones	N	2030	%	0.02		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Soil Colour	N					brown	brown	brown	brown	brown	brown	brown
Other Material	N					stones	stones	stones	stones	stones	stones	stones
Soil Texture	N					clay	sand	clay	sand	sand	clay	clay
pH	M	2010				9.9	8.4	7.4	9.8	8.7	8.1	7.6
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01		0.27	0.11	0.21	0.24	0.19	0.11	0.012
Chloride (Extractable)	M	2220	g/l	0.01		0.039	< 0.010	< 0.010	0.016	< 0.010	0.012	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.5		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	M	2325	mg/kg	0.5		30	5.1	3.9	2.9	3.2	3.0	1.6
Sulphate (Total)	M	2430	mg/kg	100		3600	6400	1300	3500	1500	770	680
Arsenic	M	2450	mg/kg	1		21	150	19	63	19	22	19
Cadmium	M	2450	mg/kg	0.1		1.2	26	0.44	0.73	0.10	2.2	0.13
Chromium	M	2450	mg/kg	1		47	83	41	47	32	41	49
Copper	M	2450	mg/kg	0.5		73	700	52	120	37	38	38
Mercury	M	2450	mg/kg	0.1		1.4	1.1	1.4	0.49	0.58	1.4	1.1
Nickel	M	2450	mg/kg	0.5		30	110	16	52	17	17	22
Lead	M	2450	mg/kg	0.5		720	5900	360	760	340	760	230
Selenium	M	2450	mg/kg	0.2		< 0.20	0.50	0.31	< 0.20	< 0.20	0.35	< 0.20
Zinc	M	2450	mg/kg	0.5		160	2000	160	420	130	120	280
Total Organic Carbon	M	2625	%	0.2		3.0	10	13	7.4	1.1	2.9	1.5
TPH >C5-C6	N	2670	mg/kg	1		B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0
TPH >C6-C7	N	2670	mg/kg	1		B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0
TPH >C7-C8	N	2670	mg/kg	1		B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0
TPH >C8-C10	N	2670	mg/kg	1		B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0	B < 1.0
TPH >C10-C12	N	2670	mg/kg	1		B < 1.0	B 3.8	B < 1.0	B 2.4	B 1.9	B < 1.0	B 2.8
TPH >C12-C16	N	2670	mg/kg	1		B < 1.0	B 18	B < 1.0	B 8.5	B 8.6	B 7.5	B 20
TPH >C16-C21	N	2670	mg/kg	1		B 7.0	B 63	B 7.6	B 18	B 18	B 12	B 140
TPH >C21-C35	N	2670	mg/kg	1		B 12	B 300	B 16	B 35	B 28	B 21	B 260
Total TPH >C5-C35	N	2670	mg/kg	10		B 20	B 380	B 23	B 64	B 56	B 42	B 420
Naphthalene	M	2700	mg/kg	0.1		0.77	1.8	0.54	0.54	< 0.10	< 0.10	0.32
Acenaphthylene	M	2700	mg/kg	0.1		2.0	1.6	0.22	0.25	< 0.10	< 0.10	0.31
Acenaphthene	M	2700	mg/kg	0.1		1.2	1.8	0.31	0.23	< 0.10	< 0.10	0.15

Chemtest
The right chemistry to deliver results

Results Summary - Soil

Project: J15093- Highgate School

Client: GEA				Chemtest Job No.:	15-08489	15-08489	15-08489	15-08489	15-08489	15-08489	15-08489
Quotation No.:				Chemtest Sample ID.:	127711	127712	127714	127715	127716	127720	127721
Order No.:				Client Sample Ref.:							
				Client Sample ID.:	BH1	BH2	BH3	BH4	BH5	TP7	TP9
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.5	0.5	0.3	0.8	0.8	0.2	0.4
				Bottom Depth(m):							
				Date Sampled:	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15	31-Mar-15
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Fluorene	M	2700	mg/kg	0.1	1.6	1.8	0.25	0.32	< 0.10	< 0.10	0.37
Phenanthrene	M	2700	mg/kg	0.1	17	20	1.5	2.7	3.4	1.9	6.5
Anthracene	M	2700	mg/kg	0.1	5.9	5.4	0.39	0.54	0.20	0.16	0.81
Fluoranthene	M	2700	mg/kg	0.1	38	29	3.1	4.5	6.0	3.2	6.9
Pyrene	M	2700	mg/kg	0.1	40	27	3.2	4.5	3.3	2.4	5.5
Benzo[a]anthracene	M	2700	mg/kg	0.1	21	16	2.4	2.1	2.2	1.5	2.7
Chrysene	M	2700	mg/kg	0.1	24	17	2.0	2.5	3.0	1.8	3.1
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	29	18	2.1	2.6	3.7	2.0	3.3
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	11	7.2	0.99	1.2	1.3	0.80	1.3
Benzo[a]pyrene	M	2700	mg/kg	0.1	24	15	2.1	1.9	1.9	1.3	2.0
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	16	9.7	1.6	1.7	1.9	1.1	1.8
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	4.6	2.9	0.63	0.62	0.46	0.19	0.40
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	17	9.9	1.5	1.7	1.9	0.95	1.6
Total Of 16 PAH's	M	2700	mg/kg	2	250	180	23	28	29	17	37
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID:	Sample Ref:	Sample ID:	Sampled Date:	Containers Received:	Deviation Code(s):
127711		BH1	31-Mar-2015	Amber Glass 250ml	B
127711		BH1	31-Mar-2015	Plastic Tub 500g	B
127712		BH2	31-Mar-2015	Amber Glass 250ml	B
127712		BH2	31-Mar-2015	Plastic Tub 500g	B
127714		BH3	31-Mar-2015	Amber Glass 250ml	B
127714		BH3	31-Mar-2015	Plastic Bag	B
127715		BH4	31-Mar-2015	Amber Glass 250ml	B
127715		BH4	31-Mar-2015	Plastic Bag	B
127716		BH5	31-Mar-2015	Amber Glass 250ml	B
127716		BH5	31-Mar-2015	Plastic Bag	B
127720		TP7	31-Mar-2015	Amber Glass 250ml	B
127720		TP7	31-Mar-2015	Plastic Bag	B
127721		TP9	31-Mar-2015	Amber Glass 250ml	B
127721		TP9	31-Mar-2015	Plastic Tub 500g	B

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at our Coventry laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Final Report

Report Number:	15-12555 Issue-1
Initial Date of Issue:	10-Jun-2015
Client:	GEA
Client Address:	Widbury Barn Widbury Hill Ware Hertfordshire SG12 7QE
Contact(s):	Matthew Elcock
Project:	WAC Analysis

Quotation No.:		**Date Received:**	02-Jun-2015
Order No.:	J15093	**Date Instructed:**	02-Jun-2015
No. of Samples:	1		
Turnaround: (Wkdays)	7	**Results Due Date:**	10-Jun-2015
Date Approved:	10-Jun-2015		

Approved By:



Details: Keith Jones, Technical Manager

Results Summary - 2 Stage WAC

Project: WAC Analysis

Chemtest Job No: 15-12555 Chemtest Sample ID: 147685 Sample Ref: Sample ID: BH8 Top Depth(m): 1.20 Bottom Depth(m): Sampling Date:							Landfill Waste Acceptance Criteria Limits		
							Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous	Hazardous Waste Landfill
Determinand	**SOP**	**Accred.**	**Units**						
Total Organic Carbon	2625	U	%			2.3	3	5	6
Loss on Ignition	2610	U	%			3.2	--	--	10
Total BTEX	2760	U	mg/kg			< 0.01	6	--	--
Total PCBs (7 congeners)	2815	U	mg/kg			< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg			< 10	500	--	--
Total (of 17) PAHs	2700	N	mg/kg			< 2.0	100	--	--
pH	2010	U				7.7	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg			0.012	--	To evaluate	To evaluate
Eluate Analysis			**2:1 mg/l**	**8:1 mg/l**	**2:1 mg/kg**	**Cumulative 10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg**		
Arsenic	1450	U	0.004	0.002	< 0.050	< 0.050	0.5	2	25
Barium	1450	U	0.008	0.005	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.001	< 0.001	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	< 0.001	< 0.001	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.0005	< 0.0005	< 0.001	< 0.005	0.01	0.2	2
Molybdenum	1450	U	0.005	0.002	< 0.050	< 0.050	0.5	10	30
Nickel	1450	U	< 0.001	< 0.001	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.001	0.001	< 0.010	0.012	0.5	10	50
Antimony	1450	U	0.002	< 0.001	< 0.010	< 0.010	0.06	0.7	5
Selenium	1450	U	< 0.001	< 0.001	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.001	0.002	< 0.50	< 0.50	4	50	200
Chloride	1220	U	3	2.8	< 10	28	800	15000	25000
Fluoride	1220	U	0.37	0.14	< 1.0	1.7	10	150	500
Sulphate	1220	U	13	3.1	26	44	1000	20000	50000
Total Dissolved Solids	1020	N	62	27	120	310	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	5.5	< 2.5	< 50	< 50	500	800	1000

Soild Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

Leachate Test Information	
Leachant volume 1st extract/l	0.318
Leachant volume 2nd extract/l	1.4
Eluant recovered from 1st extract/l	0.224

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID:	Sample Ref:	Sample ID:	Sampled Date:	Deviation Code(s):	Containers Received:
147685		BH8	None Supplied	A	Plastic Bag

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at our Coventry laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

GEA Geotechnical & Environmental Associates

Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

Generic Risk-Based Soil Screening Values

Site	Dyne House, Highgate School, London, N6 5EE	**Job Number** J15093
Client	Highgate School	**Sheet** 1 / 1
Agent	A- squared studio	

Proposed End Use Residential without plant uptake

Soil pH 8

Soil Organic Matter content % 6.0

Contaminant	Screening Value mg/kg	Data Source
Metals		
Arsenic	40	C4SL
Cadmium	149	C4SL
Chromium (III)	3000	LQM/CIEH
Chromium (VI)	21	C4SL
Copper	2,330	LQM/CIEH
Lead	310	C4SL
Elemental Mercury	1.02	SGV
Inorganic Mercury	235	SGV
Nickel	130	LQM/CIEH
Selenium	595	SGV
Zinc	3,750	LQM/CIEH
Hydrocarbons		
Benzene	3.3	C4SL
Toluene	610	SGV
Ethyl Benzene	350	SGV
Xylene	230	SGV
Aliphatic C5-C6	110	LQM/CIEH
Aliphatic C6-C8	370	LQM/CIEH
Aliphatic C8-C10	110	LQM/CIEH
Aliphatic C10-C12	540	LQM/CIEH
Aliphatic C12-C16	3000	LQM/CIEH
Aliphatic C16-C35	76,000	LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH
Aromatic C8-C10	151	LQM/CIEH
Aromatic C10-C12	346	LQM/CIEH
Aromatic C12-C16	593	LQM/CIEH
Aromatic C16-C21	770	LQM/CIEH
Aromatic C21-C35	1230	LQM/CIEH
PRO (C_5 –C_{10})	1354	Calc
DRO (C_{12} –C_{28})	80,363	Calc
Lube Oil (C_{28} –C_{44})	77,230	Calc
TPH	**1000**	Trigger for speciated testing

Contaminant	Screening Value mg/kg	Data Source
Anions		
Soluble Sulphate	0.5 g/l	Structures
Sulphide	50	Structures
Chloride	400	Structures
Others		
Organic Carbon (%)	6	Methanogenic potential
Total Cyanide	140	WRAS
Total Mono Phenols	520	SGV
PAH		
Naphthalene	13.10	Rev. LQM/CIEH
Acenaphthylene	3,870	LQM/CIEH
Acenaphthene	3,910	LQM/CIEH
Fluorene	2,870	LQM/CIEH
Phenanthrene	970	LQM/CIEH
Anthracene	23,300	LQM/CIEH
Fluoranthene	1,000	LQM/CIEH
Pyrene	2,400	LQM/CIEH
Benzo(a) Anthracene	9.4	Rev. LQM/CIEH
Chrysene	15	Rev. LQM/CIEH
Benzo(b) Fluoranthene	11.2	Rev. LQM/CIEH
Benzo(k) Fluoranthene	15.8	Rev. LQM/CIEH
Benzo(a) pyrene	5.30	C4SL
Indeno(1 2 3 cd) Pyrene	6.7	Rev. LQM/CIEH
Dibenzo(a h) Anthracene	1.41	Rev. LQM/CIEH
Benzo (g h i) Perylene	72	Rev. LQM/CIEH
Screening value for PAH	**75.7**	B(a)P / 0.15
Chlorinated Solvents		
1,1,1 trichloroethane (TCA)	28.4	LQM/CIEH
tetrachloroethane (PCA)	5.76	LQM/CIEH
tetrachloroethene (PCE)	5.26	LQM/CIEH
trichloroethene (TCE)	0.511	LQM/CIEH
1,2-dichloroethane (DCA)	0.016	LQM/CIEH
vinyl chloride (Chloroethene)	0.00107	LQM/CIEH
tetrachloromethane (Carbon tetra	0.18	LQM/CIEH
trichloromethane (Chloroform)	3.22	LQM/CIEH

Notes

Concentrations measured below the above values may be considered to represent 'uncontaminated conditions' which pose 'LOW' risk to human health. Concentrations measured in excess of these valuesindicate a potential risk which require further, site specific risk assessment.

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009

LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009)derived using CLEA 1.04 model 2009

C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk

Rev LQM/CIEH calculated using C4SL revisions to exposure assessment but LQM/CIEH health criteria values

Calc - sum of nearest available carbon range specified including BTEX for PRO fraction

B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene (one of the most common and most carcenogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative

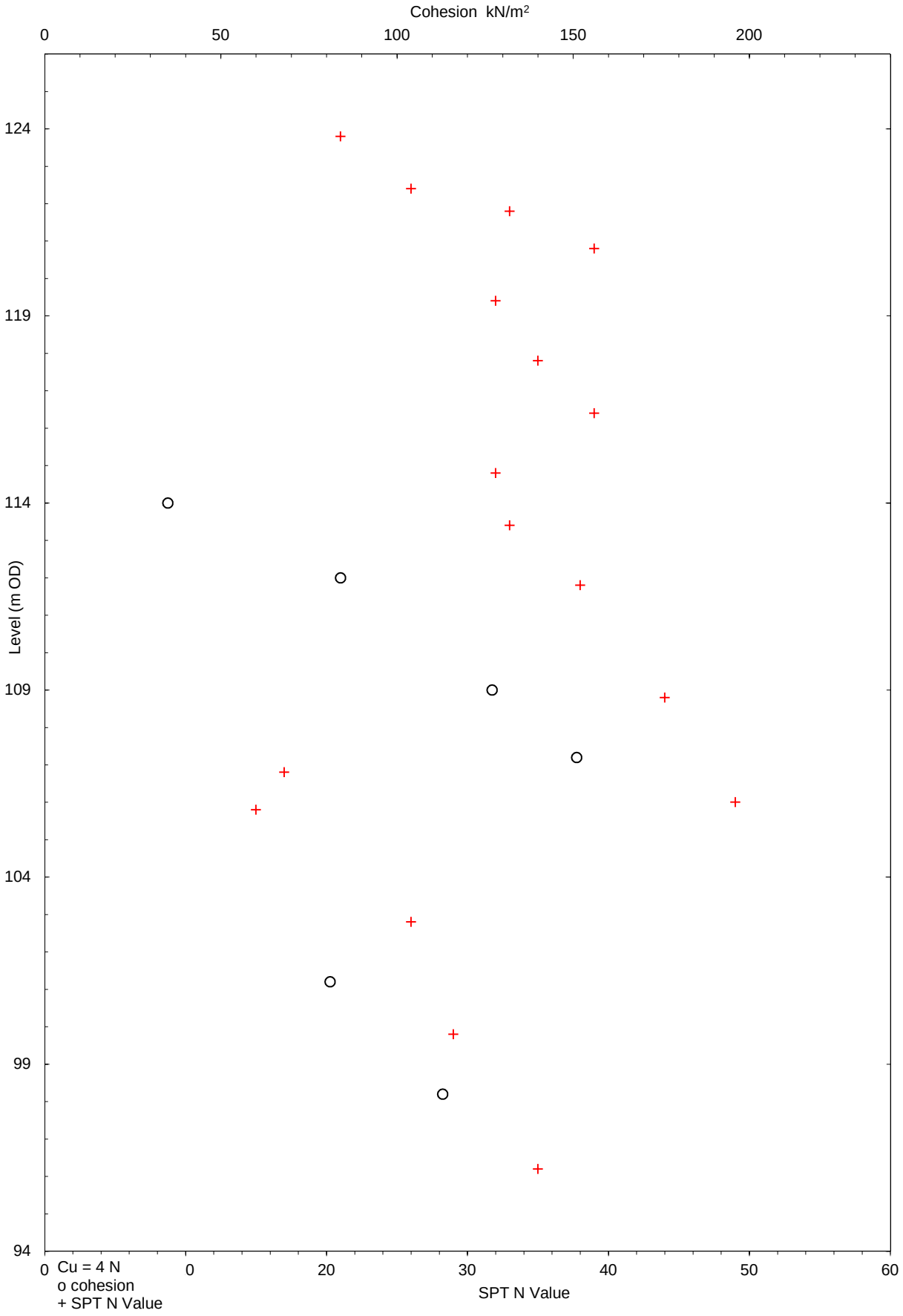
GEA Geotechnical & Environmental Associates
Widbury Barn
Widbury Hill
Ware
Herts SG12 7QE

SPT & Cohesion / Level Graph

Site	Dyne House, Highgate School, London, N6 5EE
Client	Highgate School
Engineer	A-squared Studio

Job Number J15093

Sheet 1 / 1



Envirocheck® Report:

Datasheet

Order Details:

Order Number:
66091368_1_1

Customer Reference:
J15093

National Grid Reference:
528450, 187540

Slice:
A

Site Area (Ha):
0.68

Search Buffer (m):
1000

Site Details:

Highgate School
Highgate
LONDON
N6 5EE

Client Details:

Mr S Branch
GEA Ltd
Widbury Barn
Widbury Hill
Ware
Herts
SG12 7QE

Contents

Report Section	Page Number
Summary	-
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Waste	6
Hazardous Substances	-
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Industrial Land Use	15
Sensitive Land Use	20
Data Currency	21
Data Suppliers	27
Useful Contacts	28

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v49.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1		
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1		2	3	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1			Yes	
Pollution Incidents to Controlled Waters	pg 2				3
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 2				15
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals	pg 5			1	
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

GEA Geotechnical & Environmental Associates

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 10		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 13	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15		17	40	n/a
Fuel Station Entries	pg 19		1		
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 20			1	1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: Reservoir/Borehole Site Location: Highgate Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0148 Permit Version: 1 Effective Date: 15th September 1989 Issued Date: 15th September 1989 Revocation Date: 5th October 2000 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Thames **Status: Authorisation revokedRevoked** Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	208	3	528300 187300
2	**Local Authority Pollution Prevention and Controls** Name: John Nichol Service Station Location: 31-33 North Road, LONDON, N6 4BE Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: PV-11 Dated: 17th April 2001 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	122	4	528296 187611
3	**Local Authority Pollution Prevention and Controls** Name: First Choice Location: 5 Highgate High Street, London, N6 5jr Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC3 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	213	5	528575 187336
4	**Local Authority Pollution Prevention and Controls** Name: Highgate Dry Cleaners & Laundry Location: 246 Archway Road, Highgate, London, N6 5ax Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: DC59 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	411	4	528857 187839
5	**Local Authority Pollution Prevention and Controls** Name: Archway Dry Cleaners Location: 194 Archway Road, London, N6 5bb Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: DC05 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	447	4	528968 187662
6	**Local Authority Pollution Prevention and Controls** Name: Prestige Dry Cleaners Location: 289 Archway Road, London, N6 5aa Authority: London Borough of Haringey, Planning and Environmental Health Permit Reference: DC39 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A18SE (N)	483	4	528581 188078
	Nearest Surface Water Feature	A8NE (S)	339	-	528574 187201

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Water Industry Act Referrals** Name: J Bull Location: 265 Archway Road, 265 Archway Road, LONDON, London, N6 5BS Authority: Environment Agency, Thames Region Permit Reference: AR7670 Dated: 26th May 1995 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations **Status: Application received by the EA but is not yet authorisedNot Yet Authorised** Positional Accuracy: Automatically positioned to the address	A18SE (NE)	444	3	528687 188012
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000	A13SW (NW)	0	3	528454 187545
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NW)	0	2	528454 187545
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: London Borough of Haringey - Has supplied landfill data		0	7	528454 187545
	Local Authority Landfill Coverage Name: London Borough of Camden - Has no landfill data to supply		64	8	528412 187405
	Local Authority Landfill Coverage Name: London Borough of Islington - Has no landfill data to supply		460	9	528840 187216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Barton, Bracklesham and Bagshot Beds	A13SW (NW)	0	2	528454 187545
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SW (NW)	0	2	528454 187545
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SE (E)	0	2	528456 187545
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SE (SE)	249	2	528577 187266
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A12SE (W)	376	2	528000 187545
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A18SE (N)	402	2	528477 188000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A18SW (N)	404	2	528454 188000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A8NE (SE)	414	2	528656 187152
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A14NW (E)	460	2	528960 187746
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A14SW (E)	467	2	529000 187545
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A14SW (E)	475	2	529000 187470
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A14NW (E)	480	2	529000 187670
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A8NW (S)	493	2	528454 187000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A7NE (SW)	723	2	527805 187049
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A9NW (SE)	728	2	529000 187000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A7NE (SW)	755	2	527804 187000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A17NE (NW)	948	2	528000 188420
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A11NE (W)	999	2	527383 187598
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528316, 187756 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 18.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 80.00 mg/kg Lead Measured Concentration: 762.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A13NW (NW)	218	2	528316 187756

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528776, 187704 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 16.00 mg/kg Cadmium Measured Concentration: 1.00 mg/kg Chromium Measured Concentration: 75.00 mg/kg Lead Measured Concentration: 263.00 mg/kg Nickel Measured Concentration: 27.00 mg/kg	A13NE (NE)	274	2	528776 187704
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528213, 187266 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 22.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 84.00 mg/kg Lead Measured Concentration: 382.00 mg/kg Nickel Measured Concentration: 22.00 mg/kg	A13SW (SW)	279	2	528213 187266
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528669, 187173 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 72.00 mg/kg Lead Measured Concentration: 149.00 mg/kg Nickel Measured Concentration: 13.00 mg/kg	A8NE (SE)	401	2	528669 187173
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527819, 187616 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 12.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 95.00 mg/kg Lead Measured Concentration: 201.00 mg/kg Nickel Measured Concentration: 14.00 mg/kg	A12NE (W)	568	2	527819 187616
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528226, 188231 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 26.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 107.00 mg/kg Lead Measured Concentration: 207.00 mg/kg Nickel Measured Concentration: 17.00 mg/kg	A18NW (N)	683	2	528226 188231

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529294, 187146 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 81.00 mg/kg Lead Measured Concentration: 367.00 mg/kg Nickel Measured Concentration: 32.00 mg/kg	A9NE (SE)	866	2	529294 187146
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529275, 188132 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 77.00 mg/kg Lead Measured Concentration: 1787.00 mg/kg Nickel Measured Concentration: 38.00 mg/kg	A19SE (NE)	922	2	529275 188132
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7189 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13SW (NW)	0	2	528454 187545
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	528456 187545
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	528456 187545
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	2	528456 187545
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (NW)	0	2	528454 187545

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Contemporary Trade Directory Entries** Name: Walter Castellazzo Designs Location: 84, Highgate High Street, London, N6 5HX Classification: Homefurnishings - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	74	-	528397 187422
13	**Contemporary Trade Directory Entries** Name: Cleaners Of Highgate Location: 39 Highgate High St, London, N6 5LA Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	101	-	528393 187394
13	**Contemporary Trade Directory Entries** Name: A Man With A Van Highgate Location: 47, Highgate High Street, London, N6 5JX Classification: Rubbish Clearance **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (S)	107	-	528408 187390
14	**Contemporary Trade Directory Entries** Name: Smart Line Location: 67, Highgate High Street, London, N6 5JX Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	77	-	528340 187425
14	**Contemporary Trade Directory Entries** Name: Bonsucro Location: 20, Pond Square, London, N6 6BA Classification: Sugar Refiners & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	90	-	528324 187419
15	**Contemporary Trade Directory Entries** Name: John Nichol (Cars) Ltd Location: 33, North Road, London, N6 4BE Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	131	-	528292 187620
16	**Contemporary Trade Directory Entries** Name: Vagabond Bags Ltd Location: 7, Broadbent Close, London, N6 5JW Classification: Bags, Belts & Accessories - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	144	-	528551 187402
16	**Contemporary Trade Directory Entries** Name: Sally Poppy Location: 4, Broadbent Close, London, N6 5JW Classification: Lingerie Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	150	-	528569 187406
16	**Contemporary Trade Directory Entries** Name: Highgate Motors Location: 9, Broadbent Close, London, N6 5JW Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	156	-	528587 187410
17	**Contemporary Trade Directory Entries** Name: Highgate Scaffolding Location: 8 South Gr, London, N6 6BS Classification: Scaffolding & Work Platforms **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SW (S)	154	-	528444 187351
17	**Contemporary Trade Directory Entries** Name: Highgate Cleaners Location: 37, Highgate High Street, London, N6 5JT Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	166	-	528478 187352
17	**Contemporary Trade Directory Entries** Name: Cleaners Highgate Location: 37, Highgate High Street, London, N6 5JT Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	166	-	528478 187352

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Contemporary Trade Directory Entries** Name: Cleaning Services Highgate Location: 29, Highgate High Street, London, N6 5JT Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	178	-	528487 187342
18	**Contemporary Trade Directory Entries** Name: Southwood Hospital Location: Southwood Lane, London, N6 5SP Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (N)	198	-	528418 187782
19	**Contemporary Trade Directory Entries** Name: First Choice Dry Cleaning Location: 5, Highgate High Street, London, N6 5JR Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	211	-	528574 187337
19	**Contemporary Trade Directory Entries** Name: Petroleum Development Consultants Location: 4-8, Highgate High Street, London, N6 5JL Classification: Oil & Gas Exploration Supplies & Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	217	-	528617 187358
20	**Contemporary Trade Directory Entries** Name: Oven Cleaning High Gate Location: 77, Highgate West Hill, London, N6 6BU Classification: Oven cleaning **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	240	-	528258 187284
21	**Contemporary Trade Directory Entries** Name: Ed Tanner Location: 16, Causton Road, London, N6 5ES Classification: Leather Merchants & Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	297	-	528802 187702
22	**Contemporary Trade Directory Entries** Name: Capital Home Help Location: Flat 1, 223, Archway Road, London, N6 5BN Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	370	-	528793 187853
22	**Contemporary Trade Directory Entries** Name: Nssb Location: 246, Archway Road, London, N6 5AX Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	411	-	528857 187838
22	**Contemporary Trade Directory Entries** Name: Lavengro Print Centre Ltd Location: 252, Archway Road, London, N6 5AX Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	412	-	528849 187852
22	**Contemporary Trade Directory Entries** Name: Mr Clutch Location: 260-268, Archway Road, London, N6 5AX Classification: Brake & Clutch Service Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	414	-	528830 187877
22	**Contemporary Trade Directory Entries** Name: Mr Clutch Location: 260-268, Archway Road, London, N6 5AX Classification: Brake & Clutch Service Centres **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	414	-	528830 187877
22	**Contemporary Trade Directory Entries** Name: Archway Exhaust & Tyres Location: 274, Archway Road, London, N6 5AU Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	433	-	528814 187920

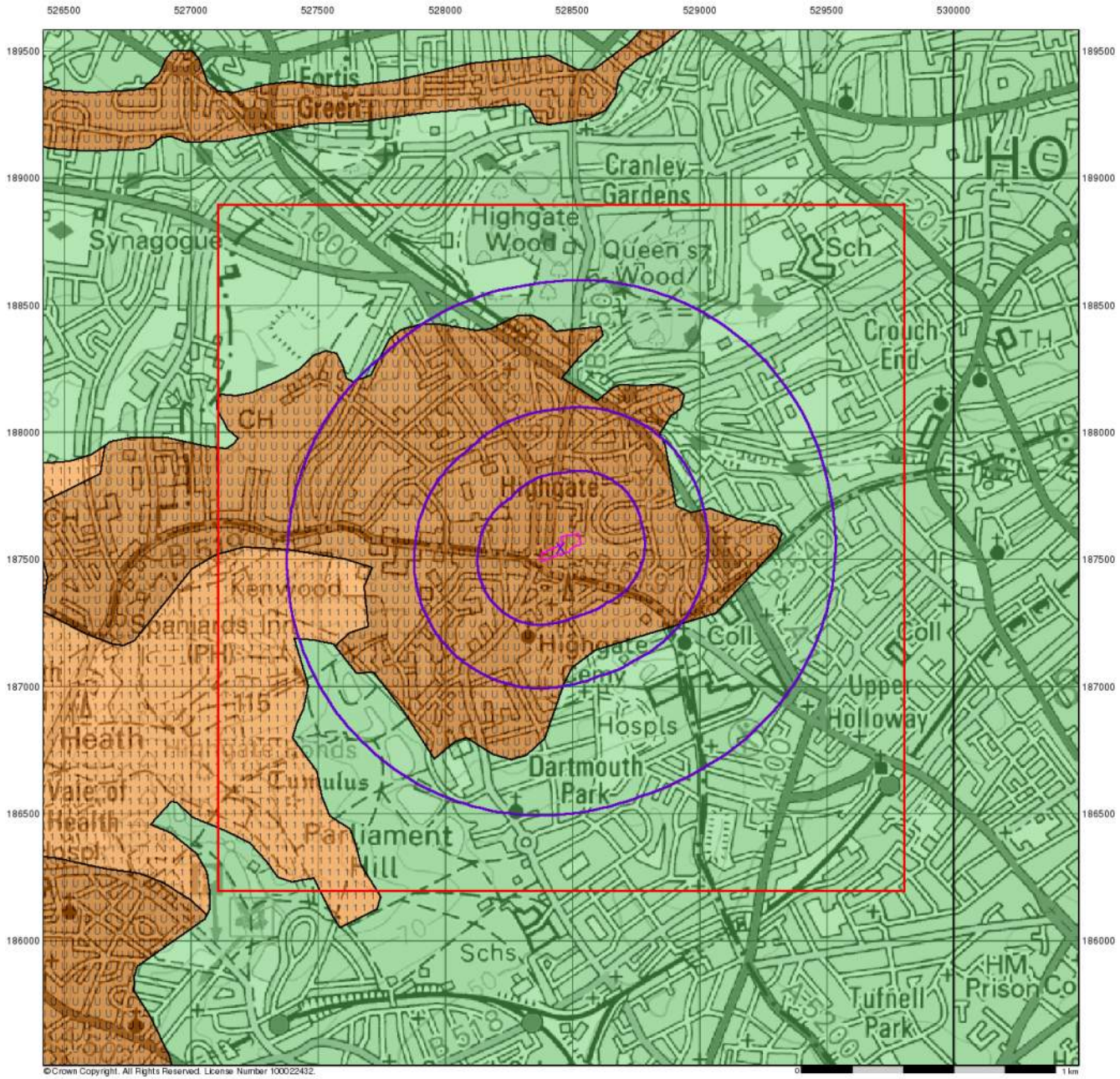
Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Contemporary Trade Directory Entries** Name: The Stained Glass Works Location: 188, Archway Road, London, N6 5BB Classification: Stained Glass Designers & Producers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	454	-	528978 187648
32	**Contemporary Trade Directory Entries** Name: Changing Curtains Location: 186, Archway Road, London, N6 5BB Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	455	-	528980 187642
33	**Contemporary Trade Directory Entries** Name: Highgate Launderette Location: 176, Archway Road, London, N6 5BB Classification: Laundries & Launderettes **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	467	-	528997 187615
33	**Contemporary Trade Directory Entries** Name: Highgate Launderette Location: 176, Archway Road, London, N6 5BB Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	467	-	528997 187615
33	**Contemporary Trade Directory Entries** Name: Pax Guns Ltd Location: 166, Archway Road, London, N6 5BB Classification: Gunsmiths **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	480	-	529012 187588
33	**Contemporary Trade Directory Entries** Name: Amano Ltd Location: 164, Archway Road, London, N6 5BB Classification: Knitwear Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	482	-	529015 187582
34	**Contemporary Trade Directory Entries** Name: Prestige Dry Cleaners Uk Ltd Location: 289, Archway Road, London, N6 5AA Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	483	-	528580 188078
34	**Contemporary Trade Directory Entries** Name: Stantons Location: 297, Archway Road, London, N6 5AA Classification: Cleaning Materials & Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	487	-	528572 188083
34	**Contemporary Trade Directory Entries** Name: Tilleys London Castings Location: 305, Archway Road, London, N6 5AA Classification: Metal Workers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A18SE (N)	491	-	528562 188088
35	**Fuel Station Entries** Name: John Nichol Cars Location: 31-33 North Road, Highgate, London, Greater London, N6 4BE Brand: Total Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	120	-	528305 187616

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Local Nature Reserves** Name: Parkland Walk Multiple Area: Y Area (m2): 143103.6 Source: Natural England Designation Date: 28th March 2012	A18SE (NE)	479	6	528756 188018
37	**Local Nature Reserves** Name: Queen'S Wood Multiple Area: N Area (m2): 210717.42 Source: Natural England Designation Date: 28th March 2012	A18NE (N)	718	6	528706 188292

Useful Contacts

Contact	Name and Address	Contact Details
2	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	**London Borough of Haringey - Planning and Environmental Health** 639 High Road, Tottenham, London, N17 8BD	Telephone: 0208 489 5183 Fax: 0208 489 5117 Website: www.haringey.gov.uk
5	**London Borough of Camden - Pollution Projects Team** Seventh Floor, Town Hall Extension, Argyle Street, London, WC1H 8EQ	Telephone: 020 7278 4444 Fax: 020 7860 5713 Website: www.camden.gov.uk
6	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	**London Borough of Haringey - Planning Department** Civic Centre, 639 High Road, Tottenham, London, N17 8BD	Website: www.haringey.gov.uk
8	**London Borough of Camden** Town Hall, Judd Street, London, WC1H 9JE	Telephone: 020 7974 4444 Fax: 020 7974 6866 Email: info@camden.gov.uk Website: www.camden.gov.uk
9	**London Borough of Islington - Environmental Health Department** 159 Upper Street, Islington, London, N1 1RE	Telephone: 020 7527 2000 Fax: 020 7477 3057 Website: www.islington.gov.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



GEA Geotechnical & Environmental Associates

Groundwater Vulnerability

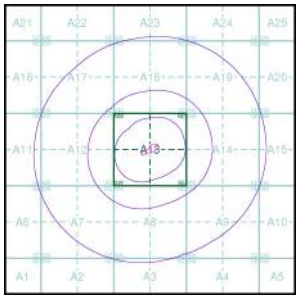
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



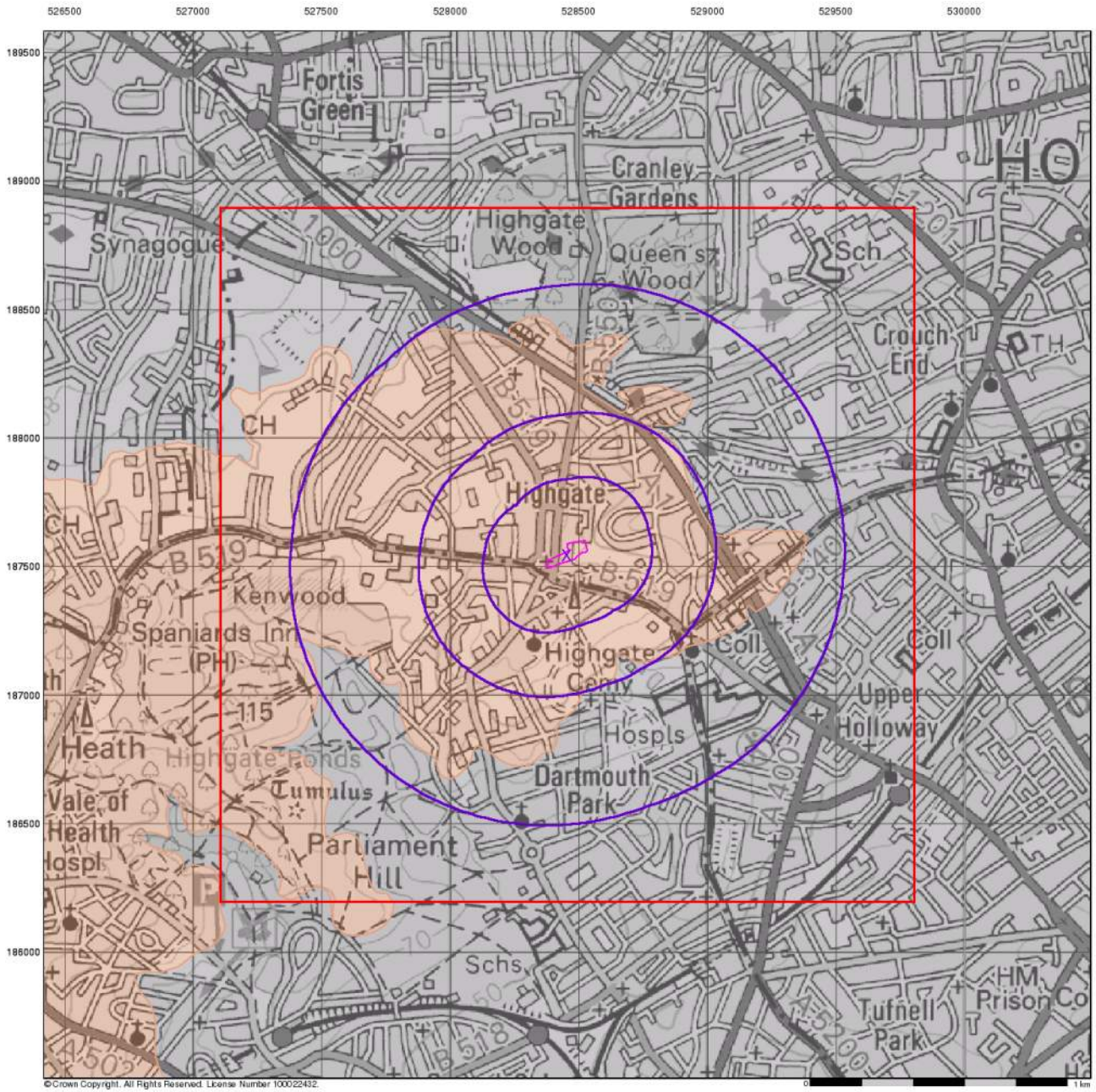
Order Details

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Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

Highgate School, Highgate, LONDON, N6 5EE

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



GEA Geotechnical & Environmental Associates

Bedrock Aquifer Designation

General

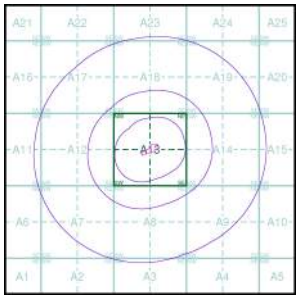
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

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Site Details

Highgate School, Highgate, LONDON, N6 5EE



GEA Geotechnical & Environmental Associates

Superficial Aquifer Designation

General

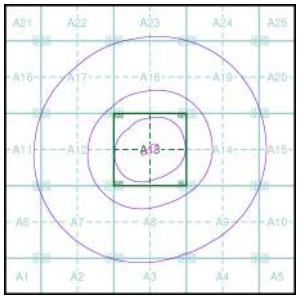
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A

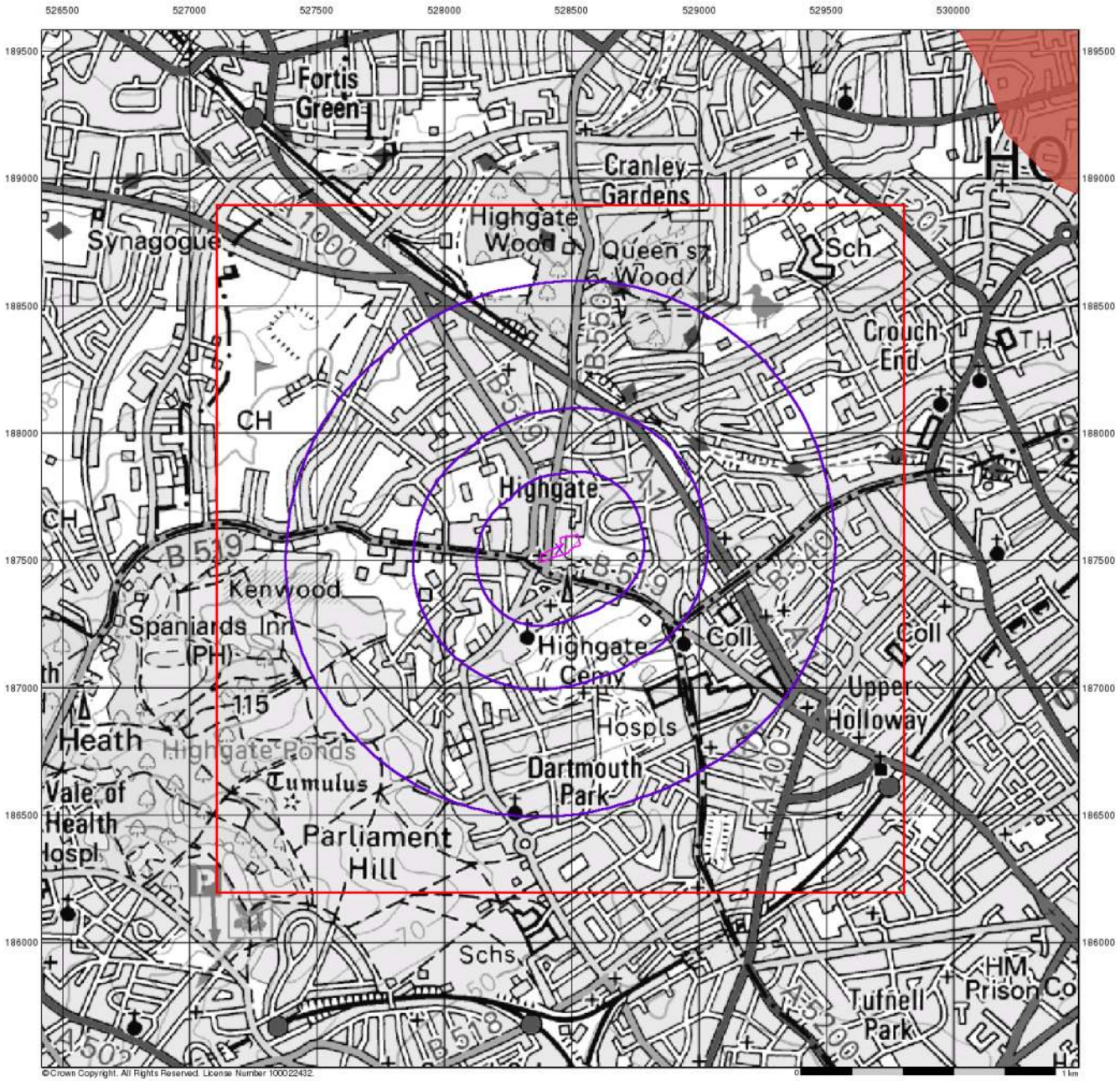


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Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

Highgate School, Highgate, LONDON, N6 5EE



GEA Geotechnical & Environmental Associates

Source Protection Zones

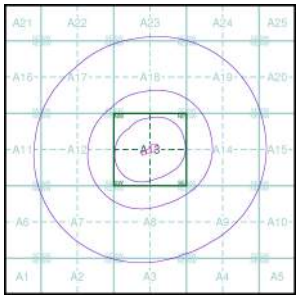
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



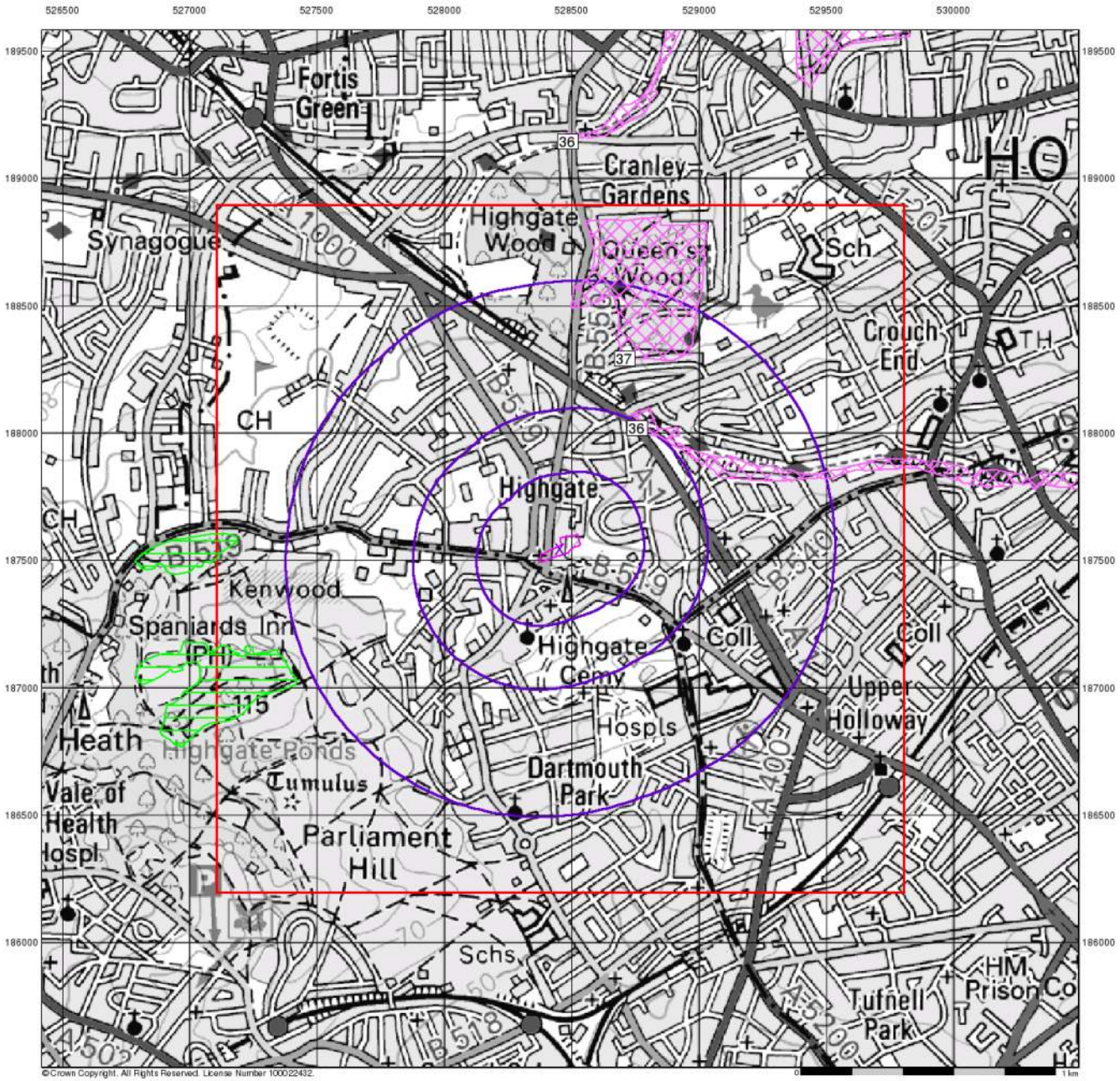
Order Details

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National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

Highgate School, Highgate, LONDON, N6 5EE

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



GEA Geotechnical & Environmental Associates

Sensitive Land Uses

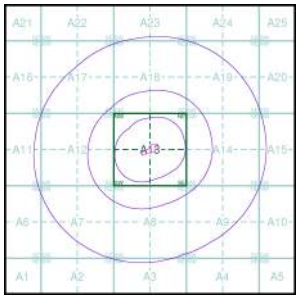
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



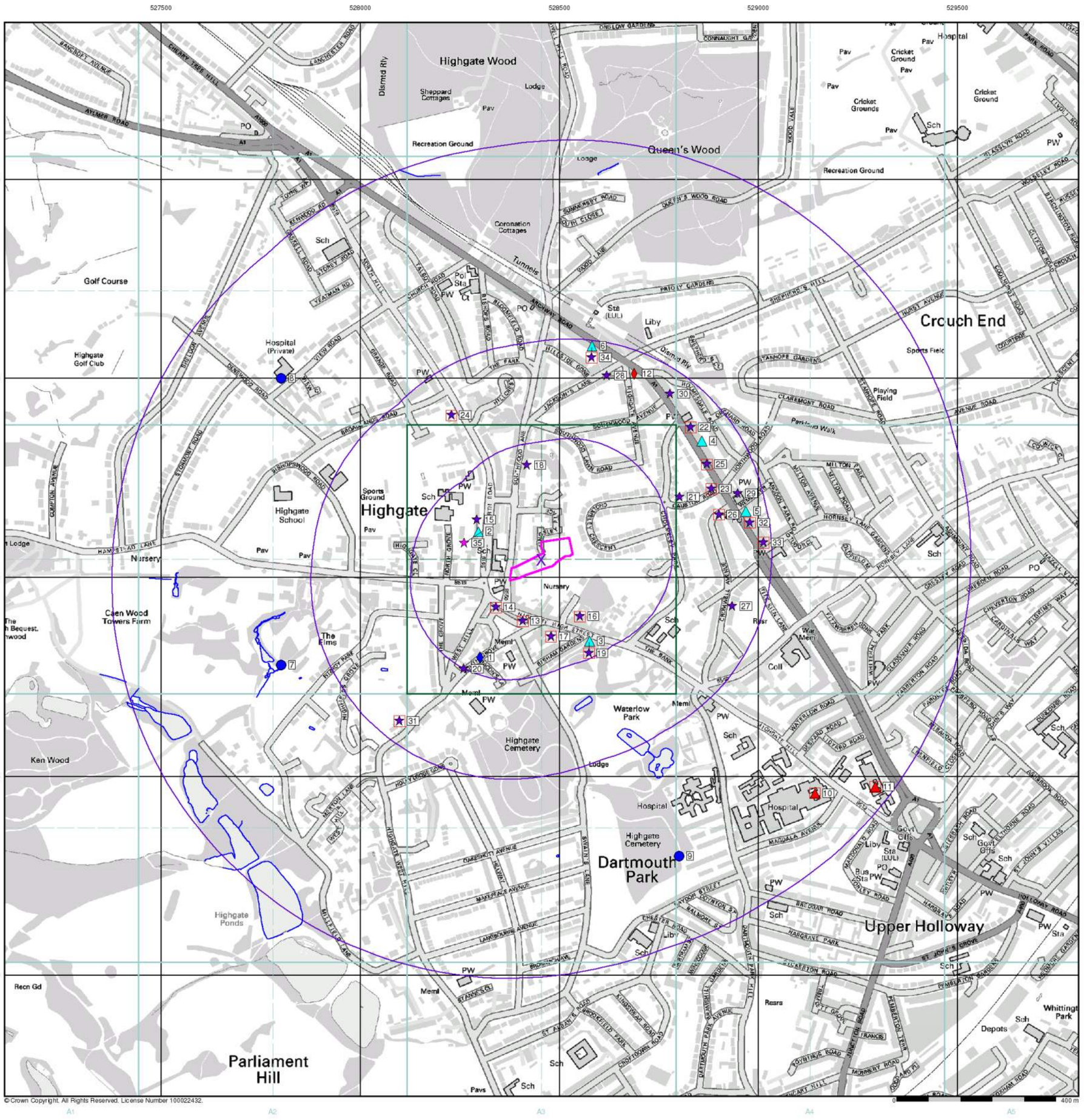
Order Details

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Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

Highgate School, Highgate, LONDON, N6 5EE

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



GEA Geotechnical & Environmental Associates

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

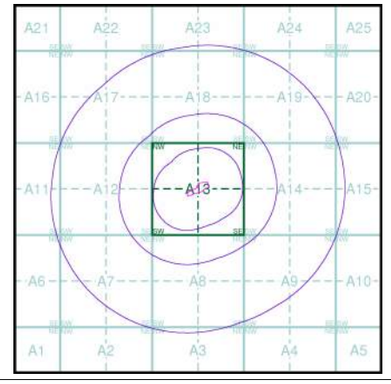
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A



Order Details

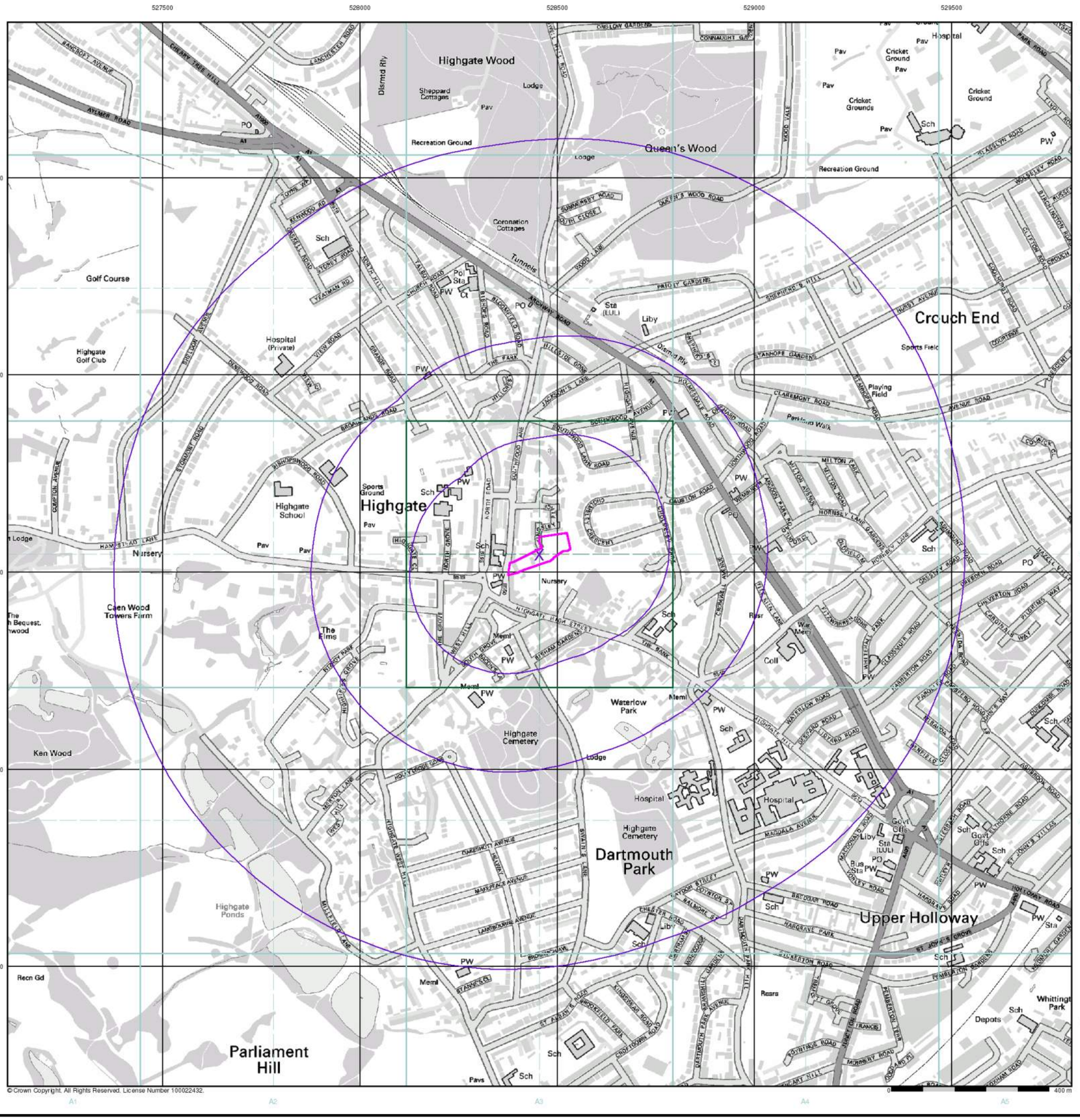
Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

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GEA Geotechnical & Environmental Associates

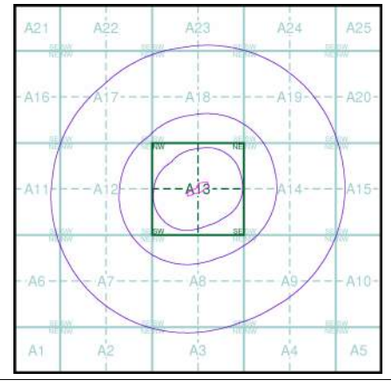
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



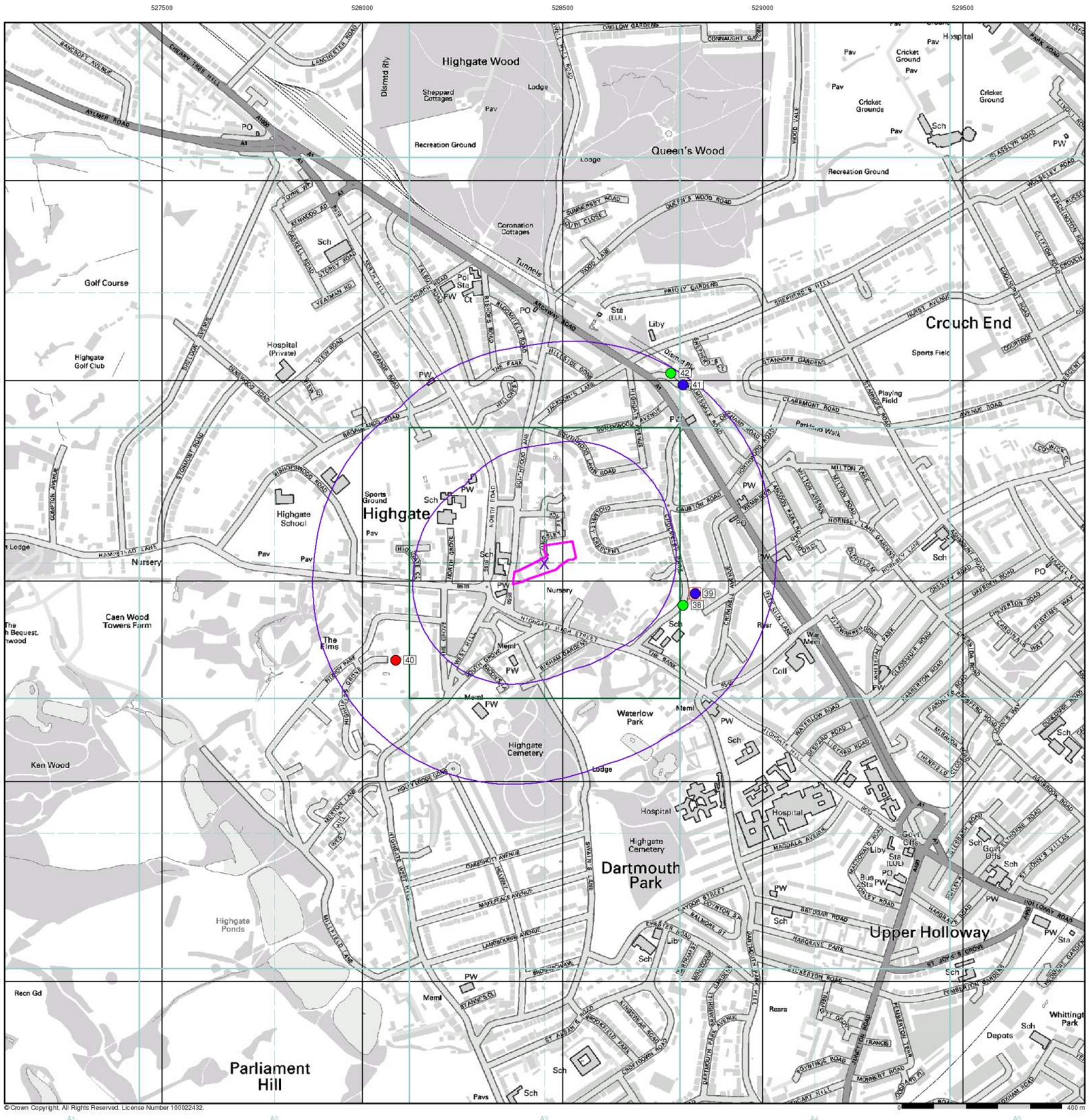
Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

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GEA Geotechnical & Environmental Associates

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

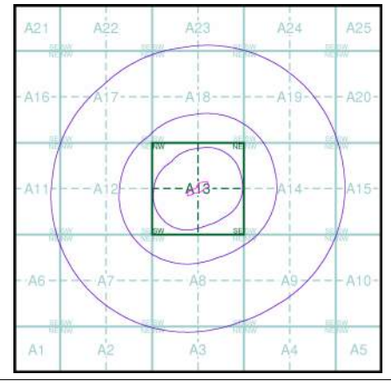
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

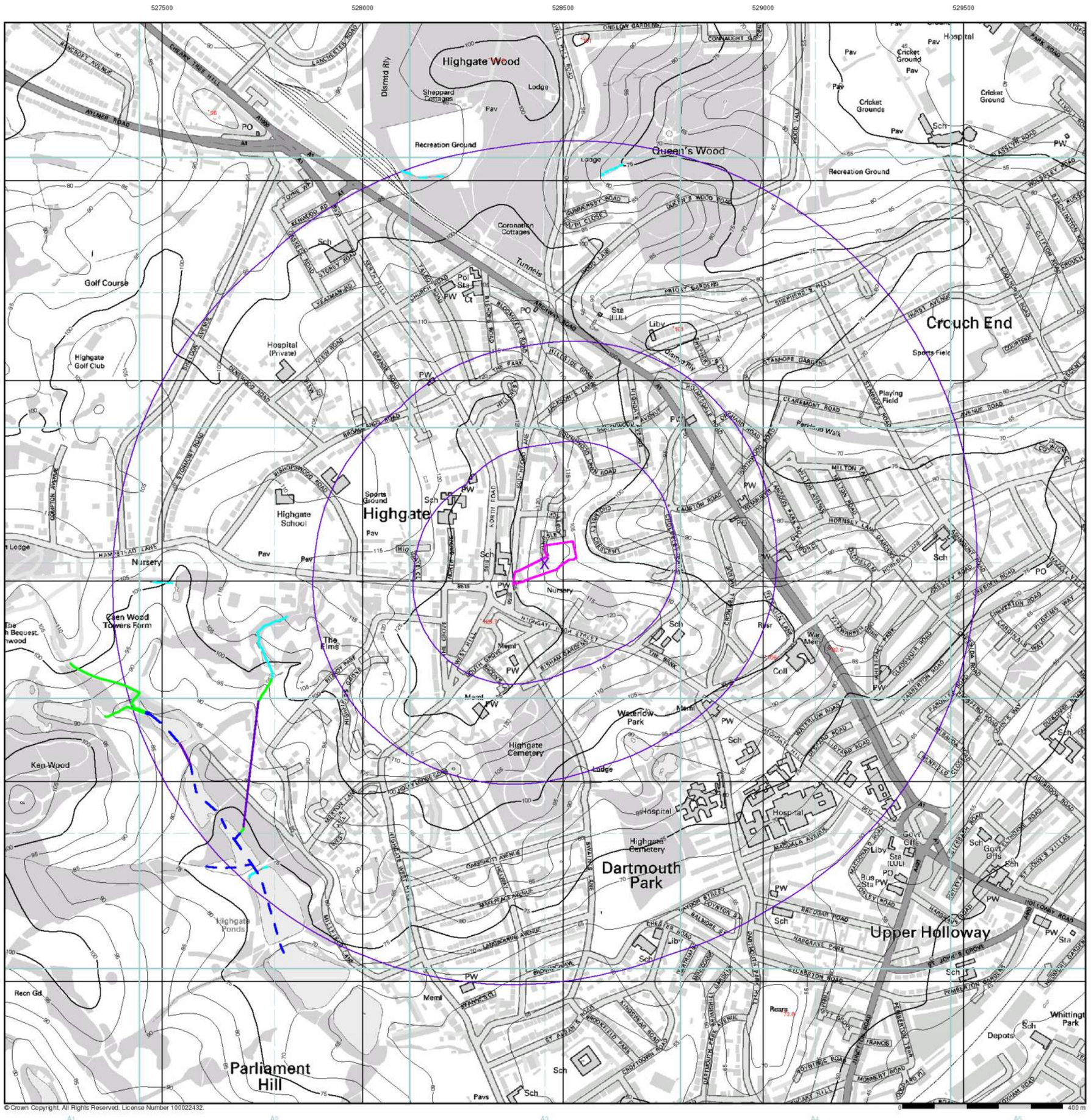
Order Number:	66091368_1_1
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Site Area (Ha):	0.68
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GEA Geotechnical & Environmental Associates

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

Standard Contour 105 100 95

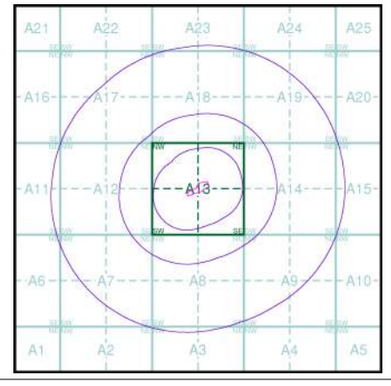
Master Contour

Spot Height *167.3

MLW Mean Low Water

MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



Order Details

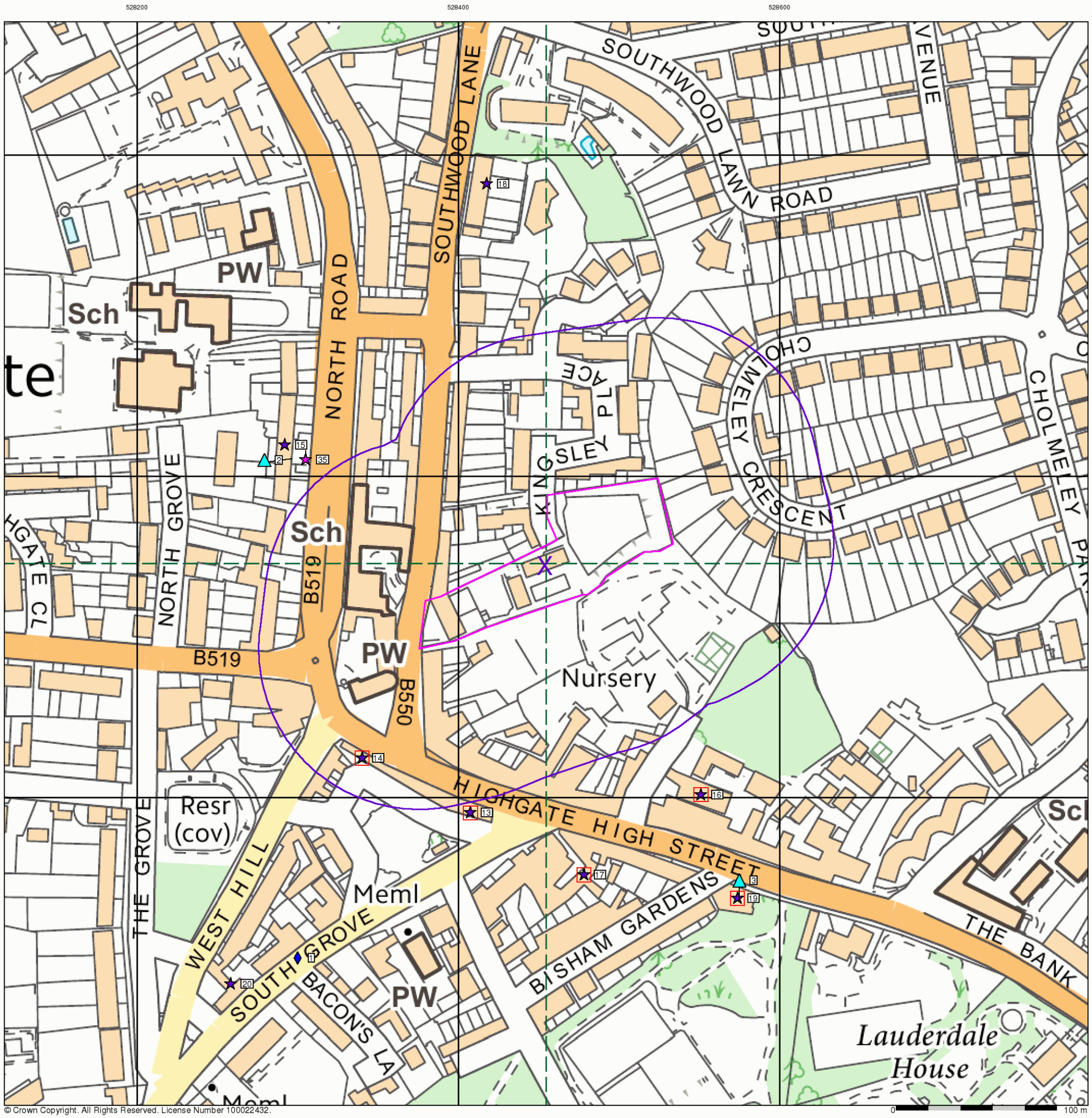
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GEA Geotechnical & Environmental Associates

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- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
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- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

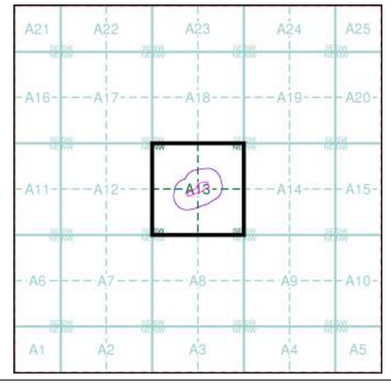
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- Planning Hazardous Substance Consent
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Site Sensitivity Map - Segment A13



Order Details

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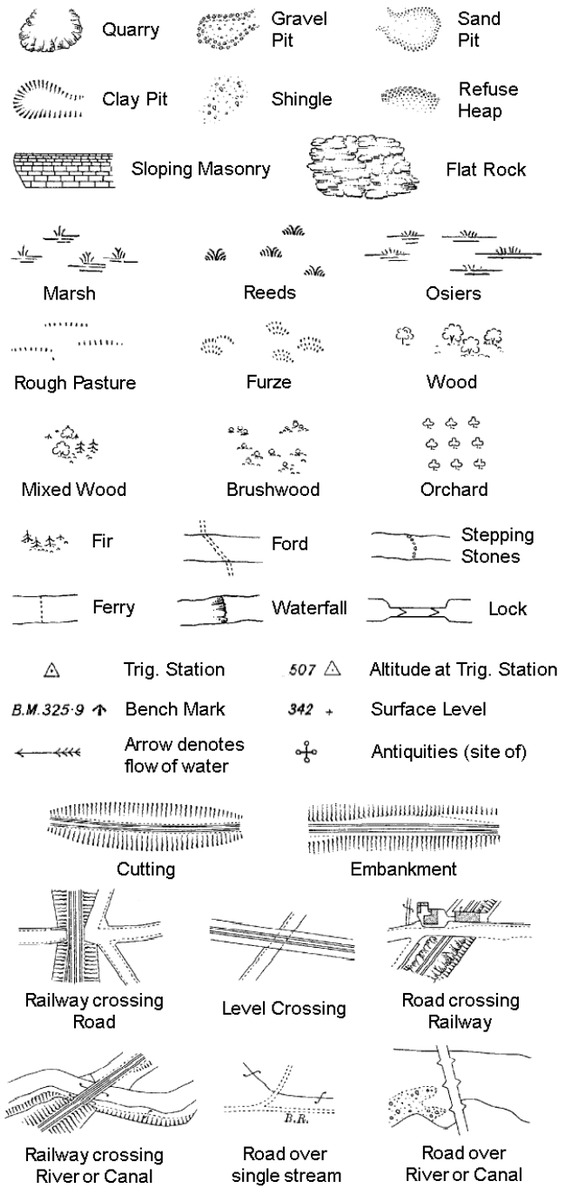
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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

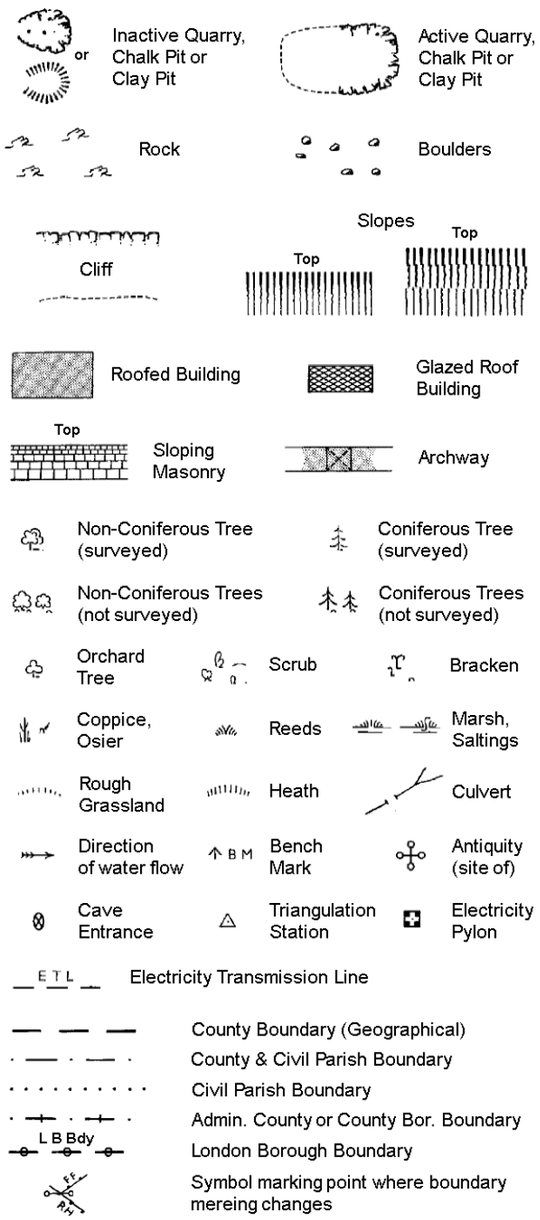
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P	B S Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P	M.R Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

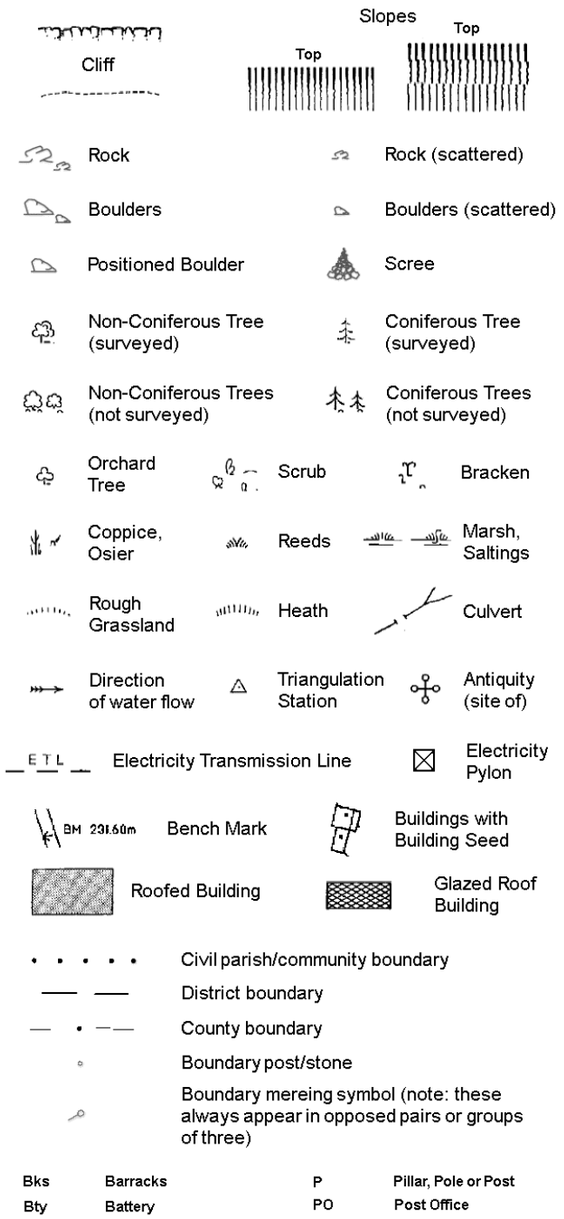
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

E F R H Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

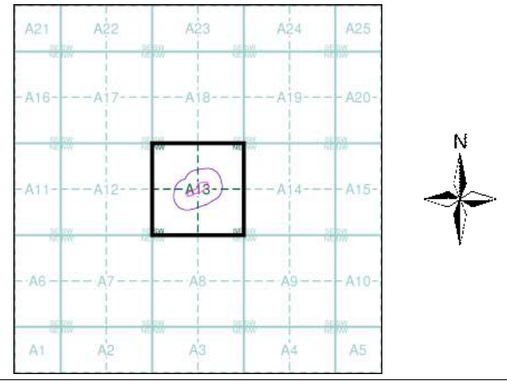
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

GEA Geotechnical & Environmental Associates

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:2,500	1864	2
London	1:2,500	1870	3
London	1:2,500	1896	4
London	1:2,500	1915	5
London	1:2,500	1935	6
Historical Aerial Photography	1:1,250	1946 - 1949	7
Ordnance Survey Plan	1:1,250	1952	8
Ordnance Survey Plan	1:2,500	1952	9
Additional SIMs	1:1,250	1952 - 1972	10
Ordnance Survey Plan	1:1,250	1962 - 1968	11
Ordnance Survey Plan	1:1,250	1968 - 1973	12
Additional SIMs	1:1,250	1968 - 1986	13
Ordnance Survey Plan	1:2,500	1970	14
Supply of Unpublished Survey Information	1:1,250	1974	15
Ordnance Survey Plan	1:1,250	1978	16
Large-Scale National Grid Data	1:1,250	1991	17
Large-Scale National Grid Data	1:1,250	1992	18
Large-Scale National Grid Data	1:1,250	1996	19
Large-Scale National Grid Data	1:1,250	1996	20

Historical Map - Segment A13



Order Details

Order Number: 66091368_1_1
Customer Ref: J15093
National Grid Reference: 528450, 187540
Slice: A
Site Area (Ha): 0.68
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Sloping Masonry
Pole
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

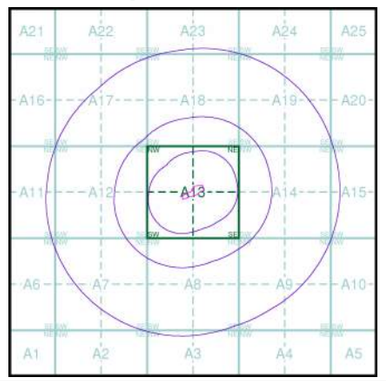
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

GEA Geotechnical & Environmental Associates

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1873	3
Middlesex	1:10,560	1879	4
London	1:10,560	1896	5
Essex	1:10,560	1920	6
London	1:10,560	1920	7
Middlesex	1:10,560	1936	8
Middlesex	1:10,560	1938	9
Essex	1:10,560	1938	10
Historical Aerial Photography	1:10,560	1950	11
Ordnance Survey Plan	1:10,000	1951	12
Ordnance Survey Plan	1:10,000	1958	13
Ordnance Survey Plan	1:10,000	1968	14
Ordnance Survey Plan	1:10,000	1976	15
London	1:25,000	1985	16
Ordnance Survey Plan	1:10,000	1996	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2015	19

Historical Map - Slice A



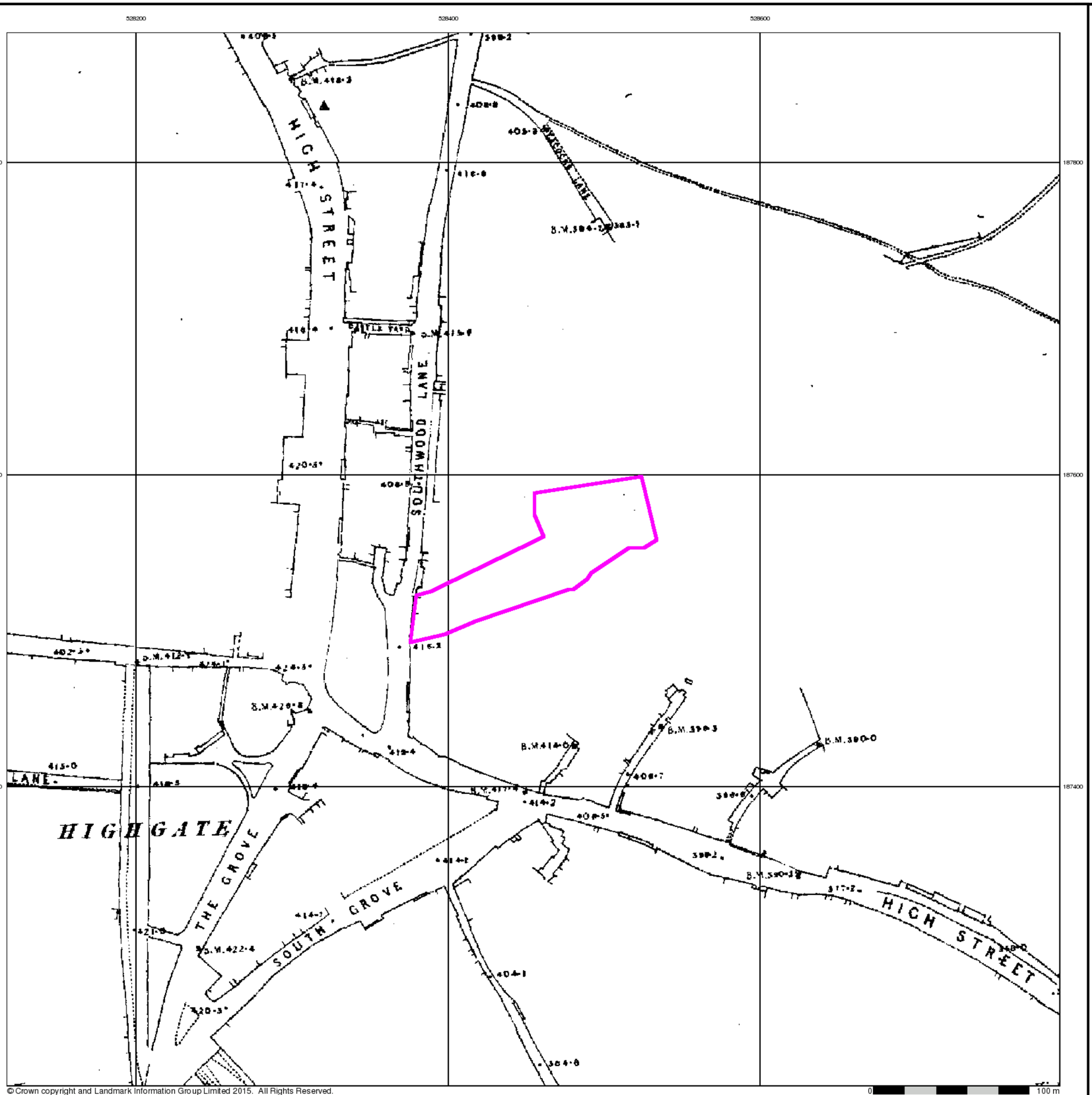
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Order Number: 66091368_1_1
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GEA Geotechnical & Environmental Associates

London

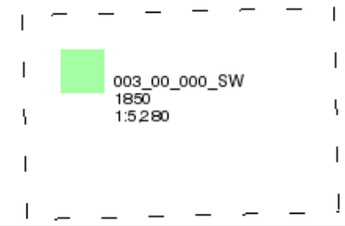
Published 1850

Source map scale - 1:5,280

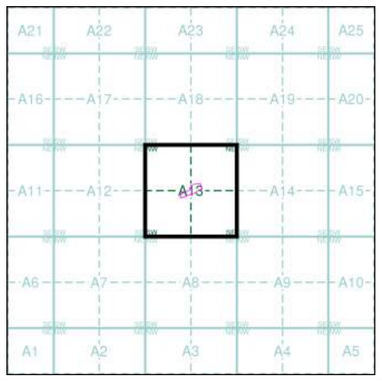
The historical town plans shown derive from Ordnance Survey mapping from the early to mid 1850s. The 1:2640 scale was introduced in the early 1850s, to survey districts covered by the Local Boards of Health and for a map of the Osborne Estate of Queen Victoria. The general style is similar to that of the early 1:2500s published shortly afterwards.
1:5280 scale was surveyed shortly afterwards in the mid 1850s as general purpose mapping with a standard of content similar to the more contemporary 1:10.560 mapping. The scale was also used for a reduction of the 1:1056 'skeleton survey' of London that was undertaken between 1848 and 1850.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13



Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
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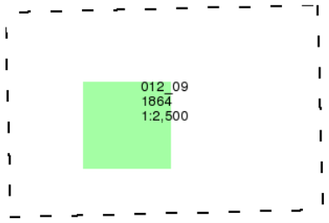
Middlesex

Published 1864

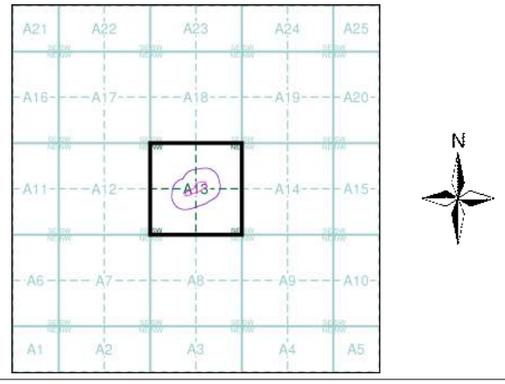
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

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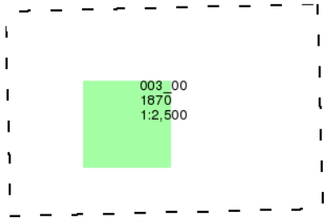
London

Published 1870

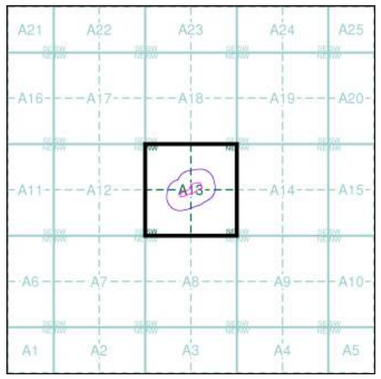
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



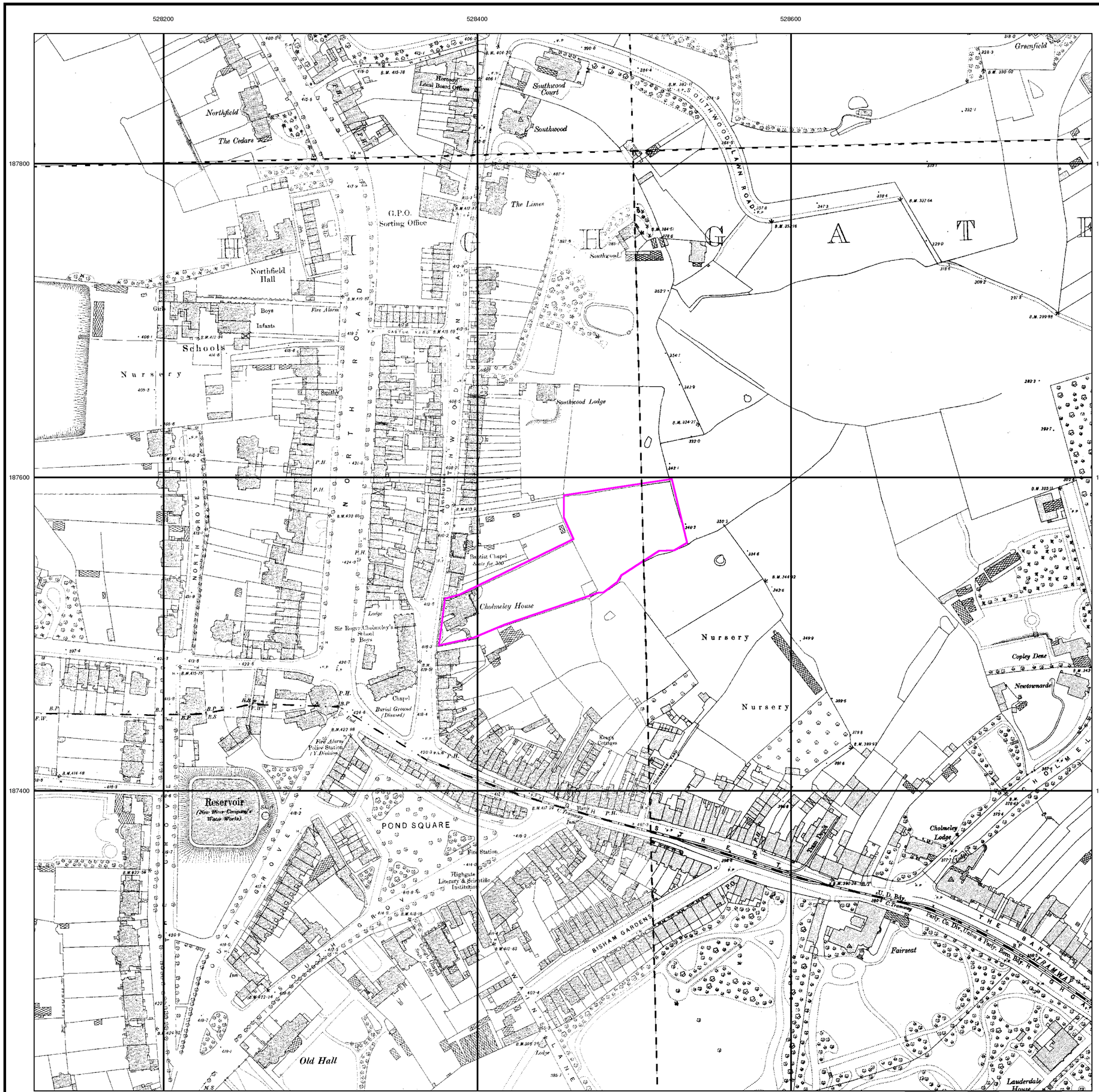
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London

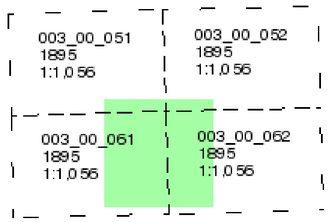
Published 1895

Source map scale - 1:1,056

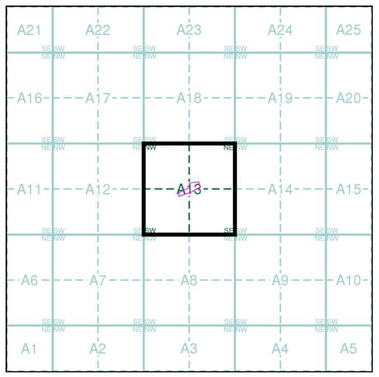
The 1:1056 scale of Ordnance Survey mapping was adopted from Ireland in 1848 and was used to survey towns with a population of over 4000, plus county towns of lesser population, in those counties mapped at the six-inch scale in 1841-55. The scale was the largest scale at which London was mapped by the Ordnance Survey and a 'skeleton' survey of the capital, showing little more than streets, street names, frontages and altitudes, was undertaken between 1848 and 1850. The majority of the 1:1056 surveys were later replaced by 1:500 surveys; although almost all the remainder were revised at this scale, sometimes more than once before 1895. The type of detail shown on the 1:1056 scale is broadly similar to that on 1:500; the apparent omission of minor details such as sewer access points and street lights may be as much a reflection of the generally earlier date of these plans, as of the specification of the map.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

Map Name(s) and Date(s)



Historical Town Plan - Segment A13

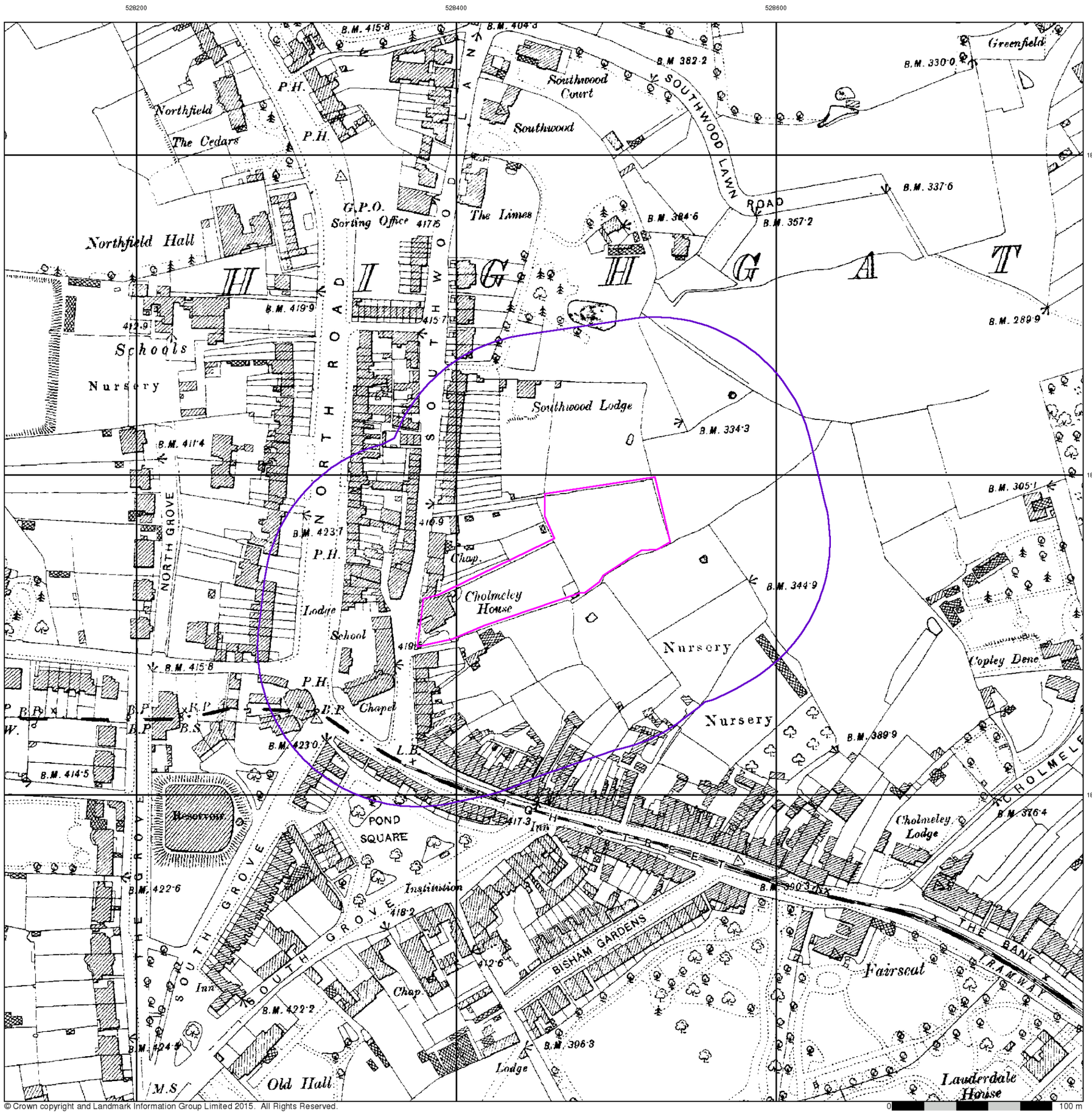


Order Details

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National Grid Reference:	528450, 187540
Slice:	A
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Search Buffer (m):	0

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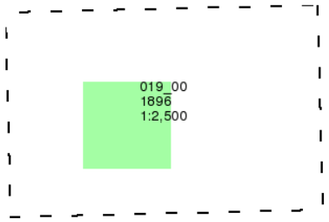
London

Published 1896

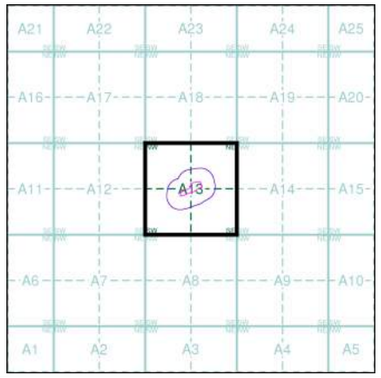
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



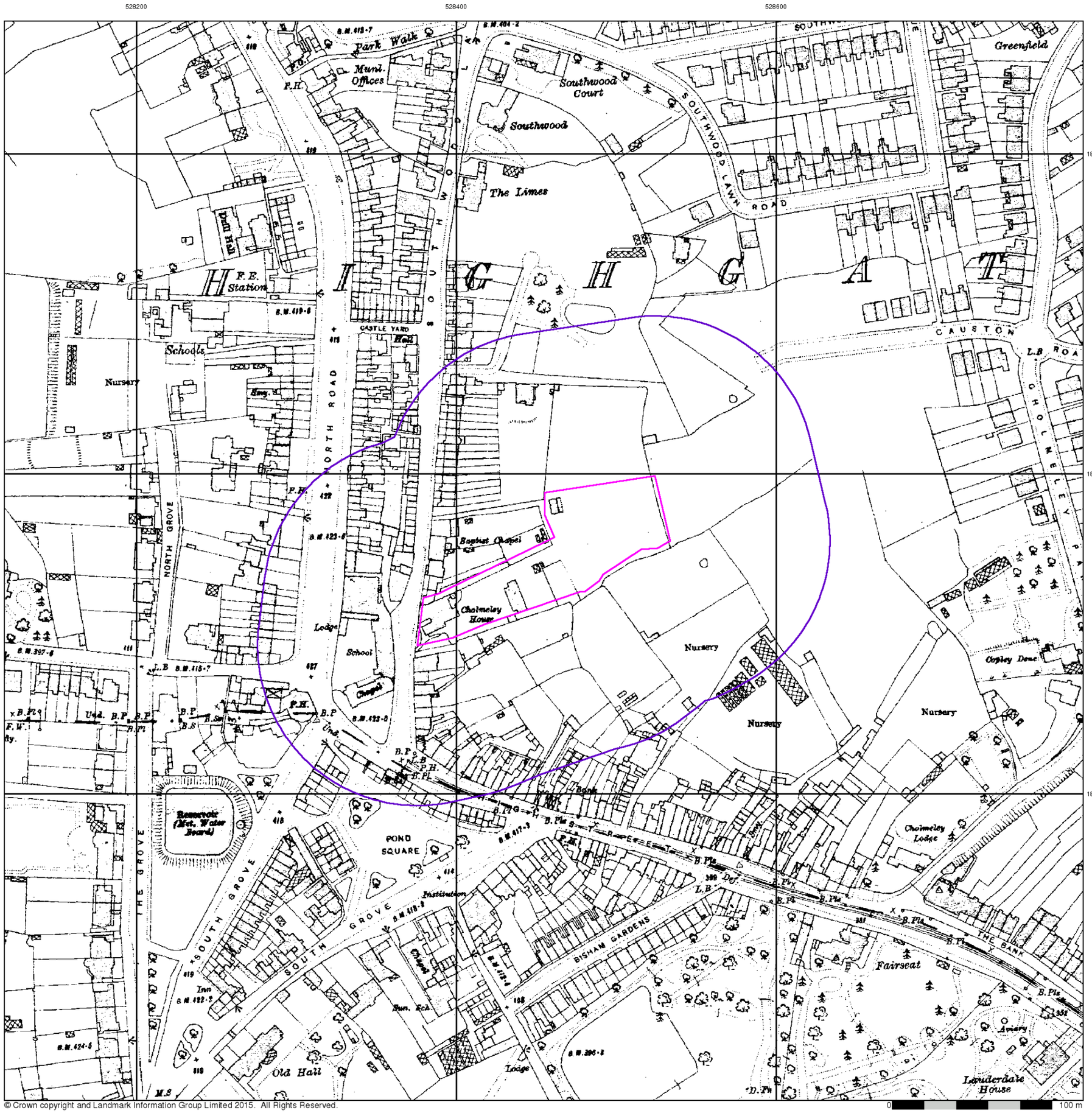
Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
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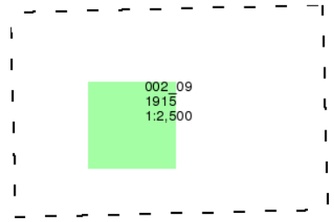
London

Published 1915

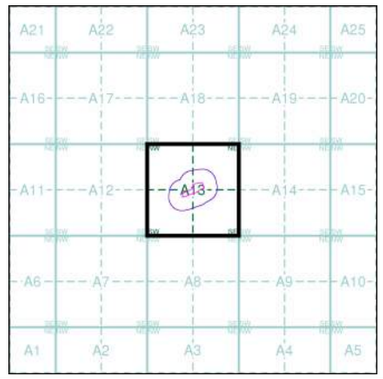
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



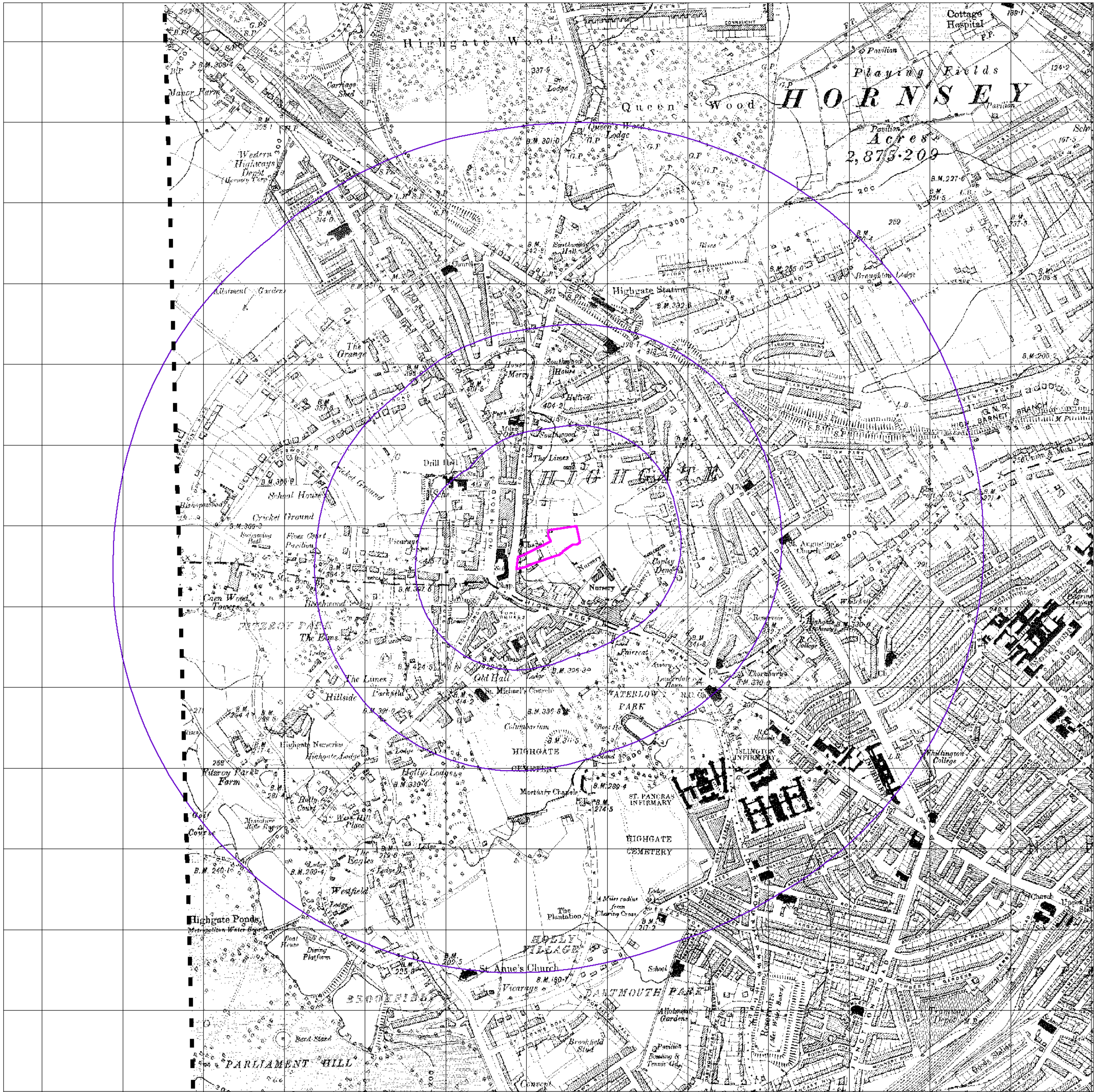
Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

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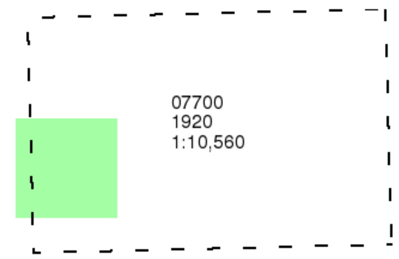
Essex

Published 1920

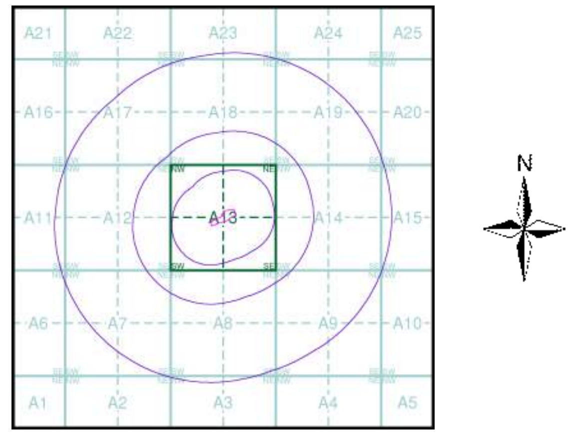
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

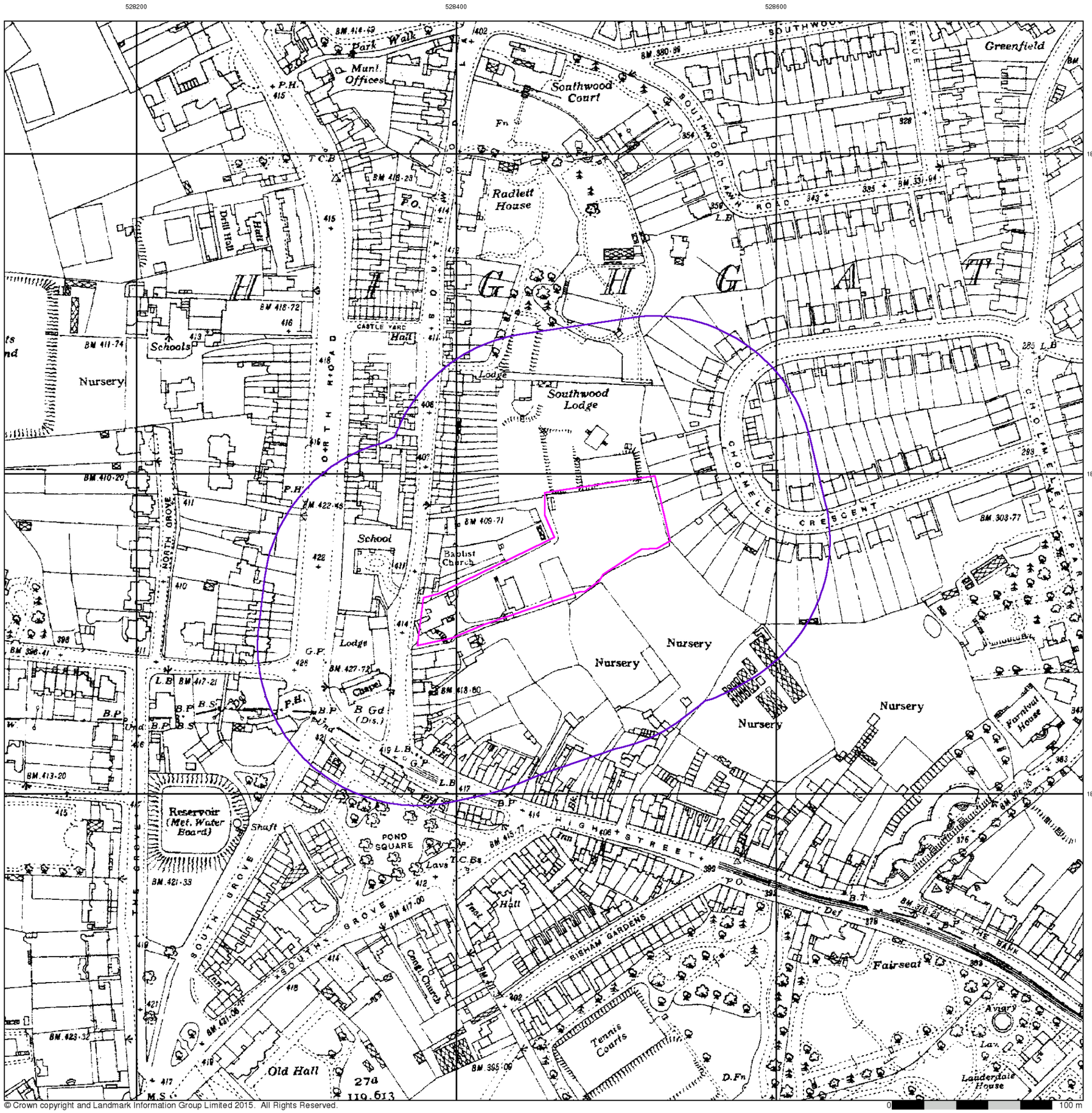
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Customer Ref: J15093
National Grid Reference: 528450, 187540
Slice: A
Site Area (Ha): 0.68
Search Buffer (m): 1000

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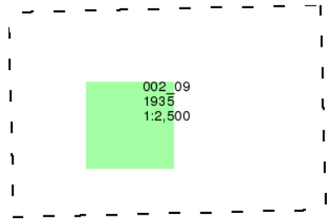
London

Published 1935

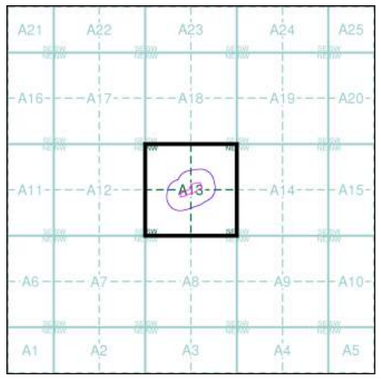
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

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Historical Aerial Photography

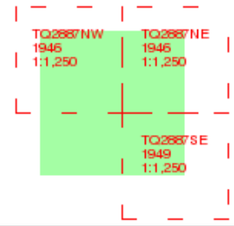
Published 1946 - 1949

Source map scale - 1:1,250

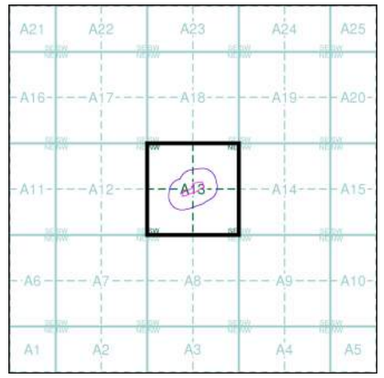
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Segment A13



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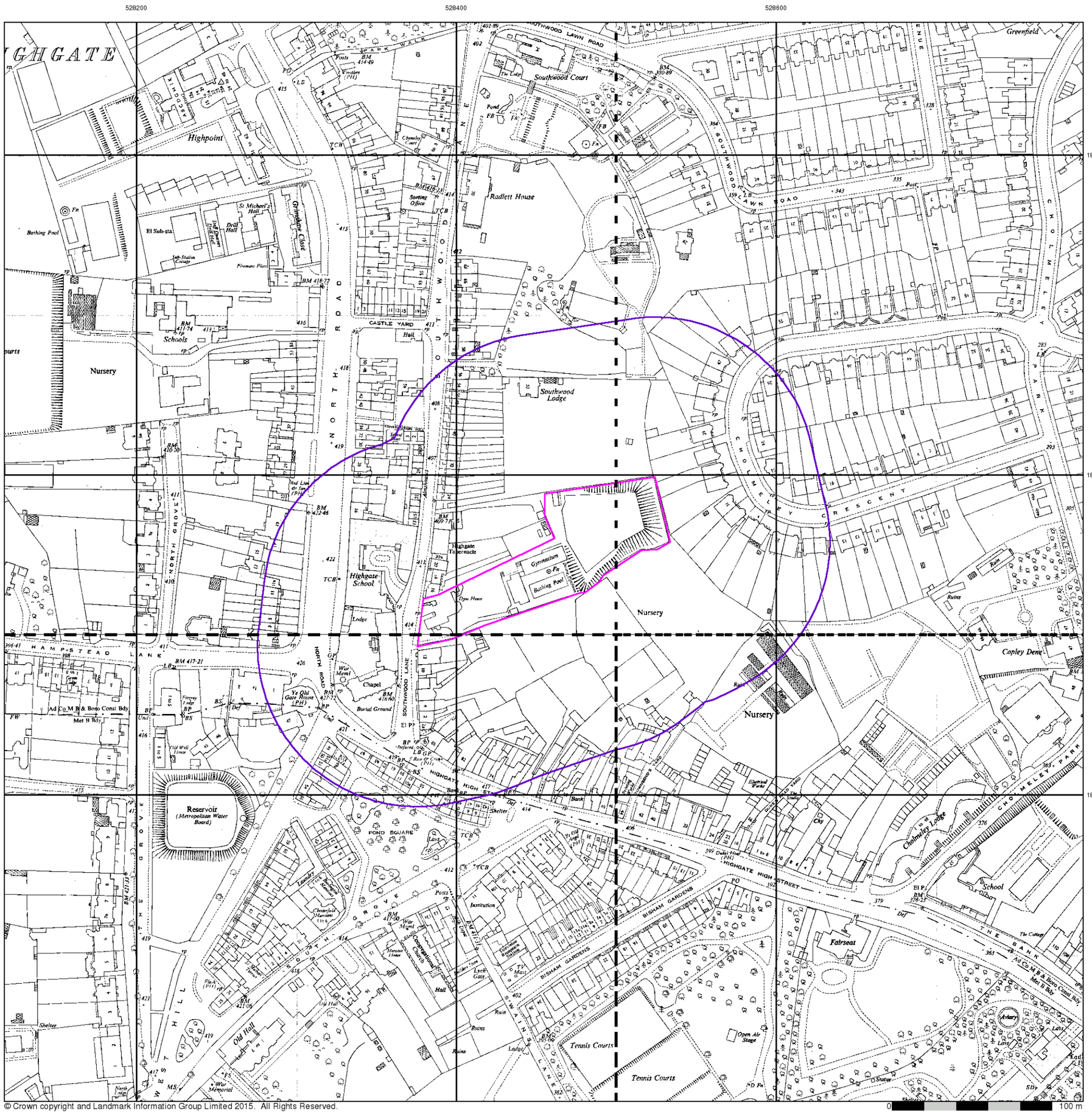
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Ordnance Survey Plan

Published 1952

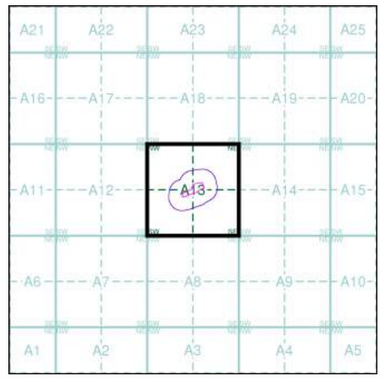
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Map Name(s) and Date(s)

TQ2887NW 1952 1:1,250	TQ2887NE 1952 1:1,250
TQ2887SW 1952 1:1,250	TQ2887SE 1952 1:1,250

Historical Map - Segment A13



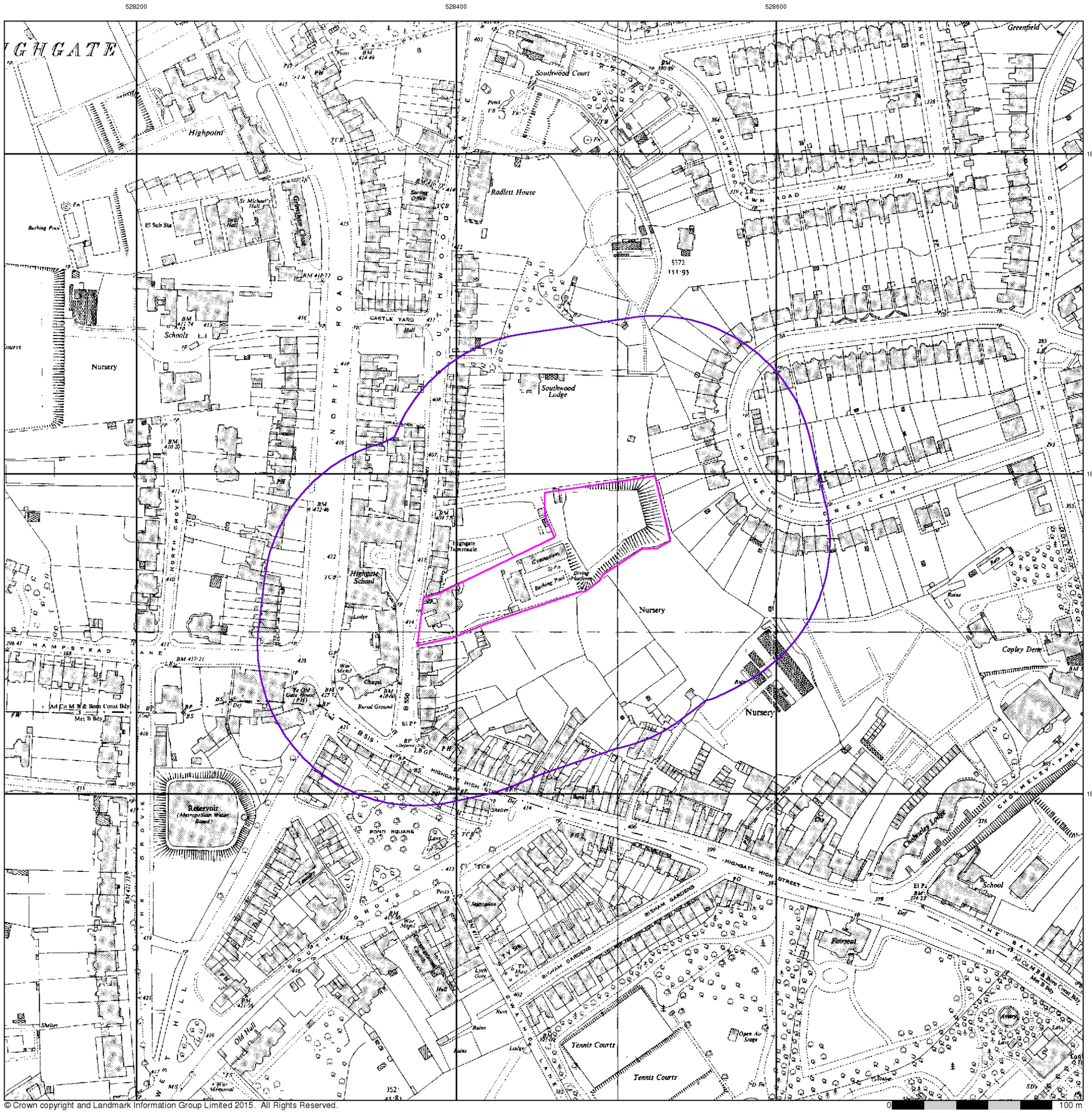
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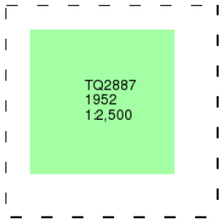
Ordnance Survey Plan

Published 1952

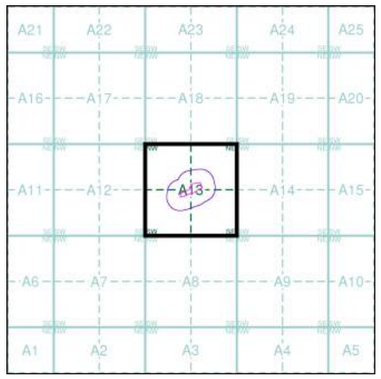
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13

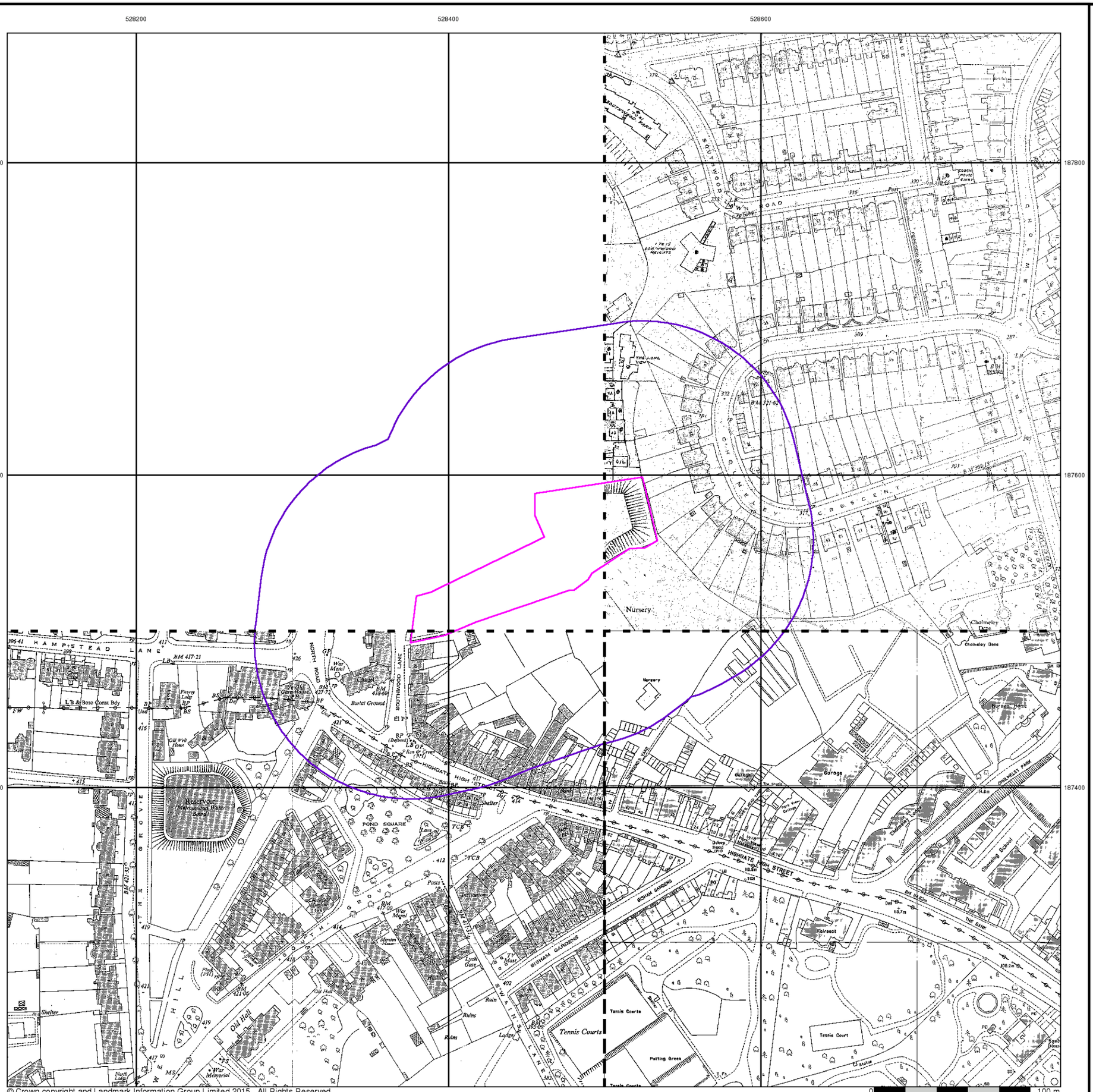


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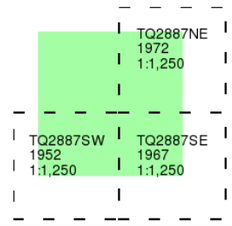
Additional SIMs

Published 1952 - 1972

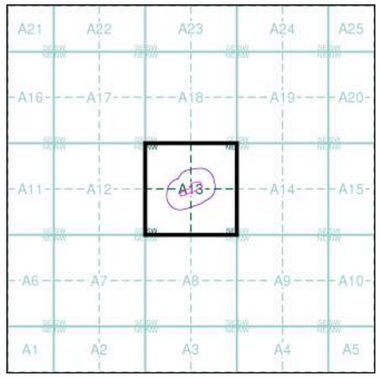
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

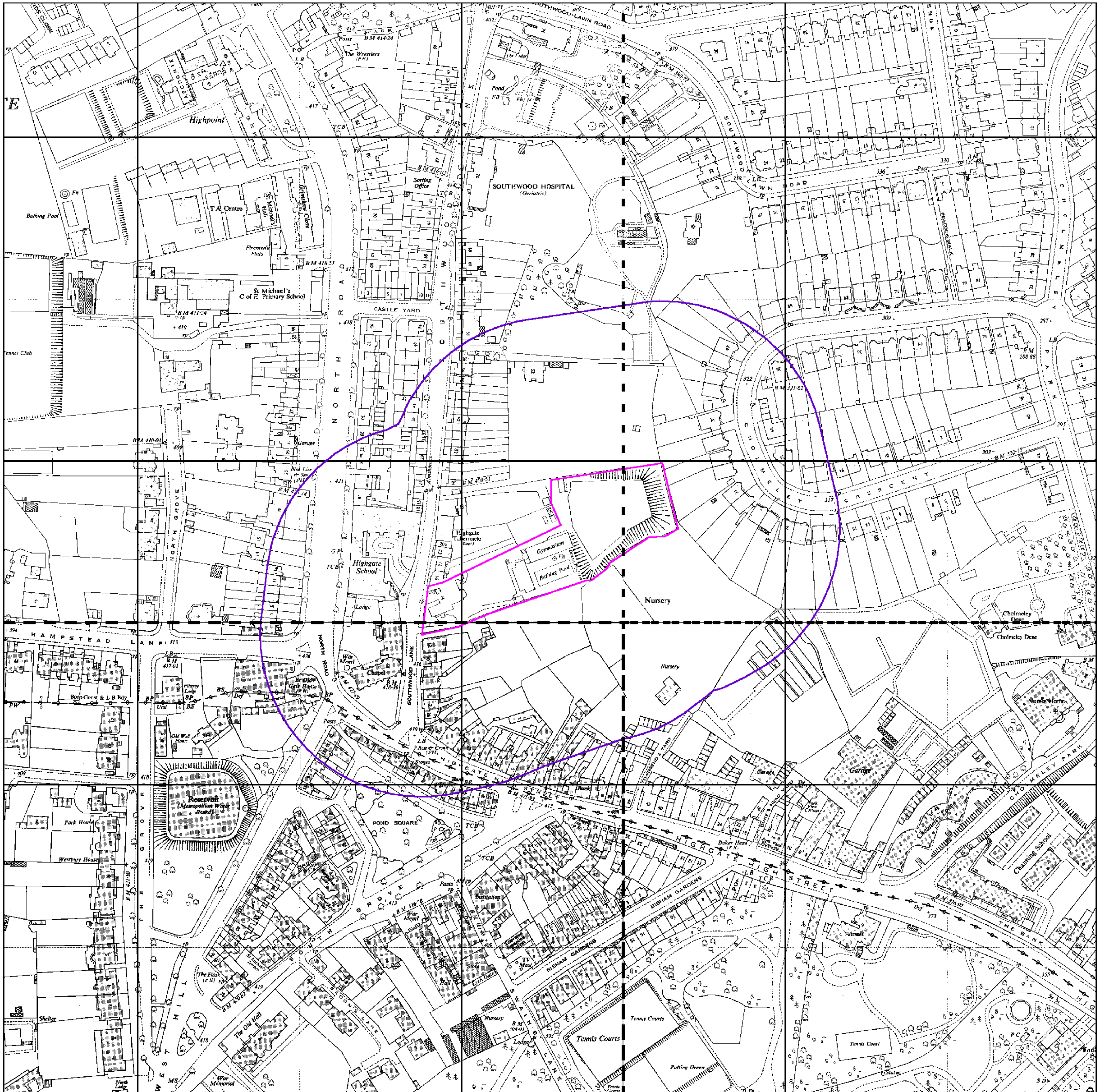
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Ordnance Survey Plan

Published 1962 - 1968

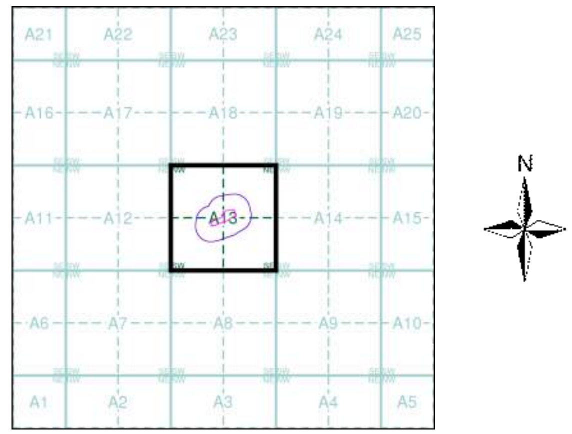
Source map scale - 1:1,250

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Map Name(s) and Date(s)

TQ2887NW 1962 1:1,250	TQ2887NE 1962 1:1,250
TQ2887SW 1968 1:1,250	TQ2887SE 1967 1:1,250

Historical Map - Segment A13



Order Details

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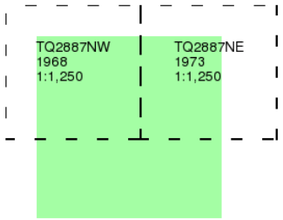
Ordnance Survey Plan

Published 1968 - 1973

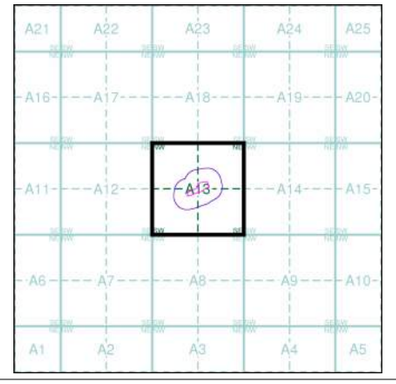
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

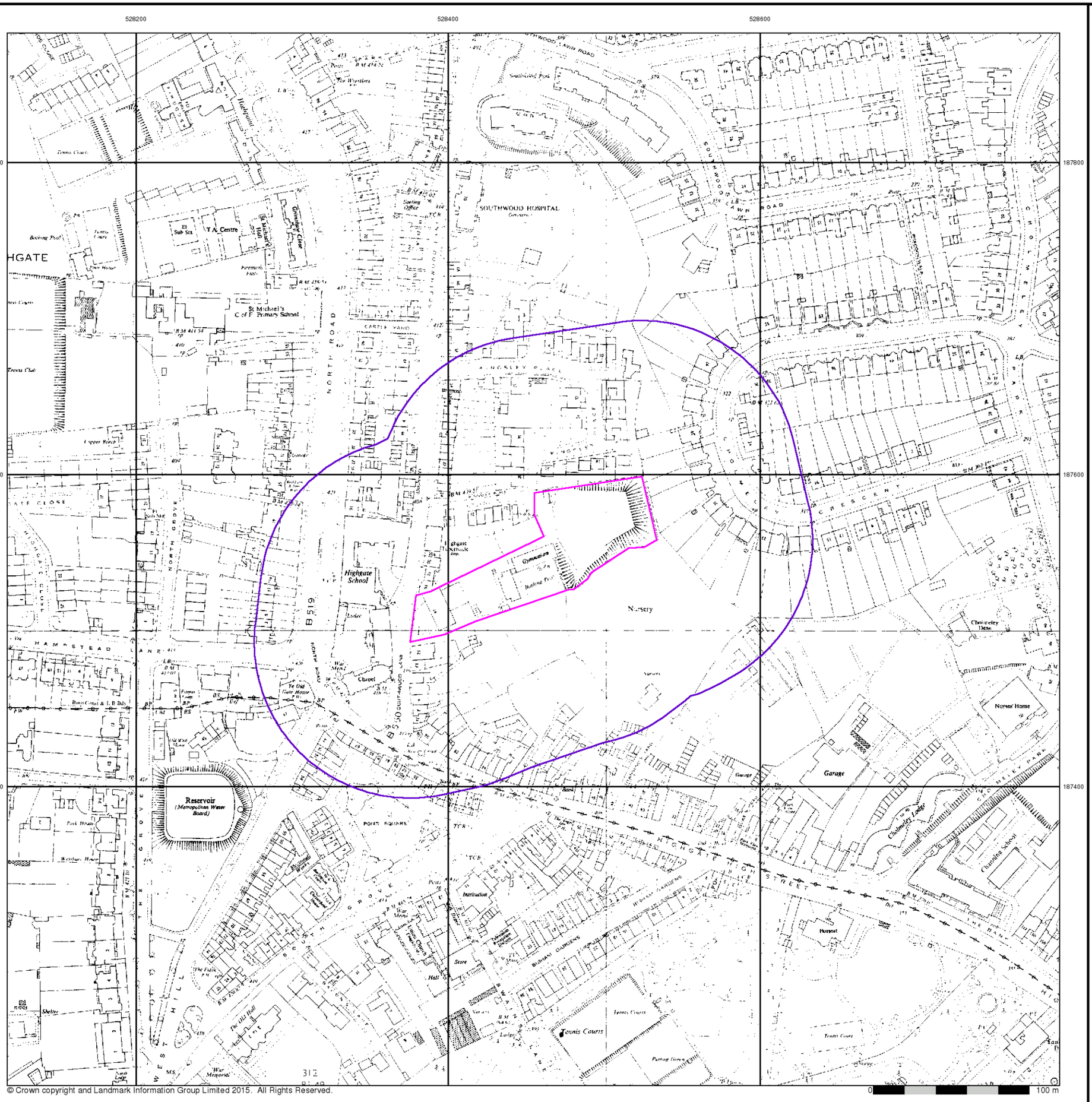
Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

Highgate School, Highgate, LONDON, N6 5EE

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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GEA Geotechnical & Environmental Associates

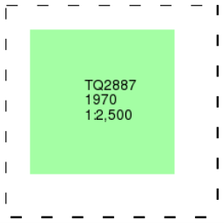
Ordnance Survey Plan

Published 1970

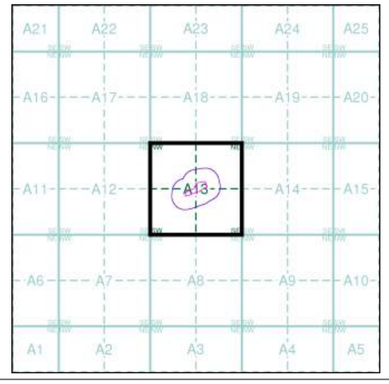
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

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GEA Geotechnical & Environmental Associates

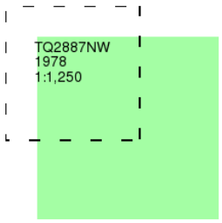
Ordnance Survey Plan

Published 1978

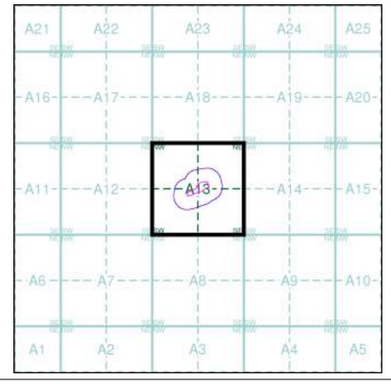
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



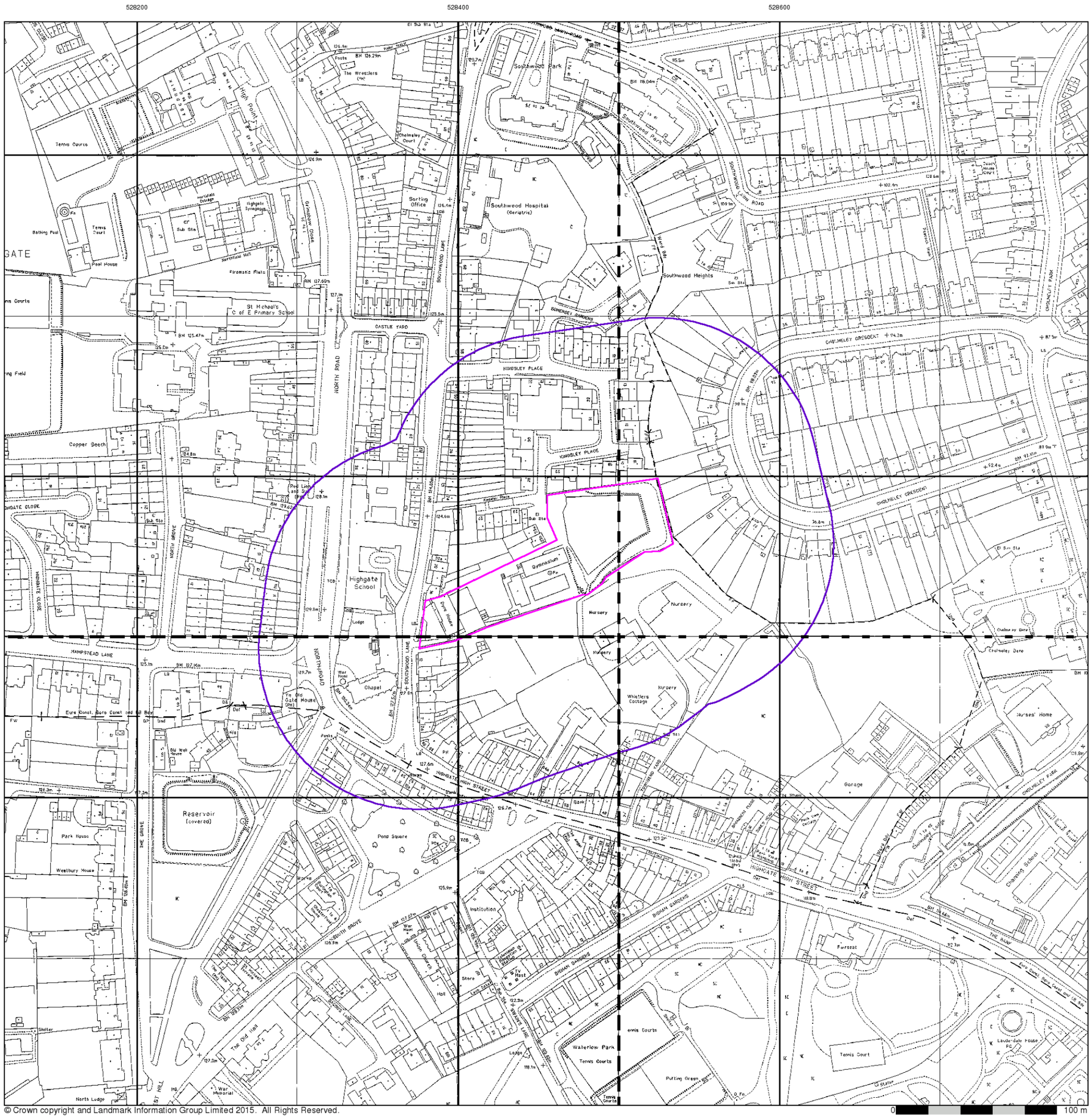
Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

Highgate School, Highgate, LONDON, N6 5EE

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Large-Scale National Grid Data

Published 1991

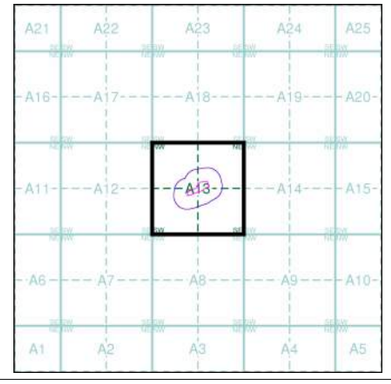
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

TQ2887NW 1991 1:1,250	TQ2887NE 1991 1:1,250
TQ2887SW 1991 1:1,250	TQ2887SE 1991 1:1,250

Historical Map - Segment A13



Order Details

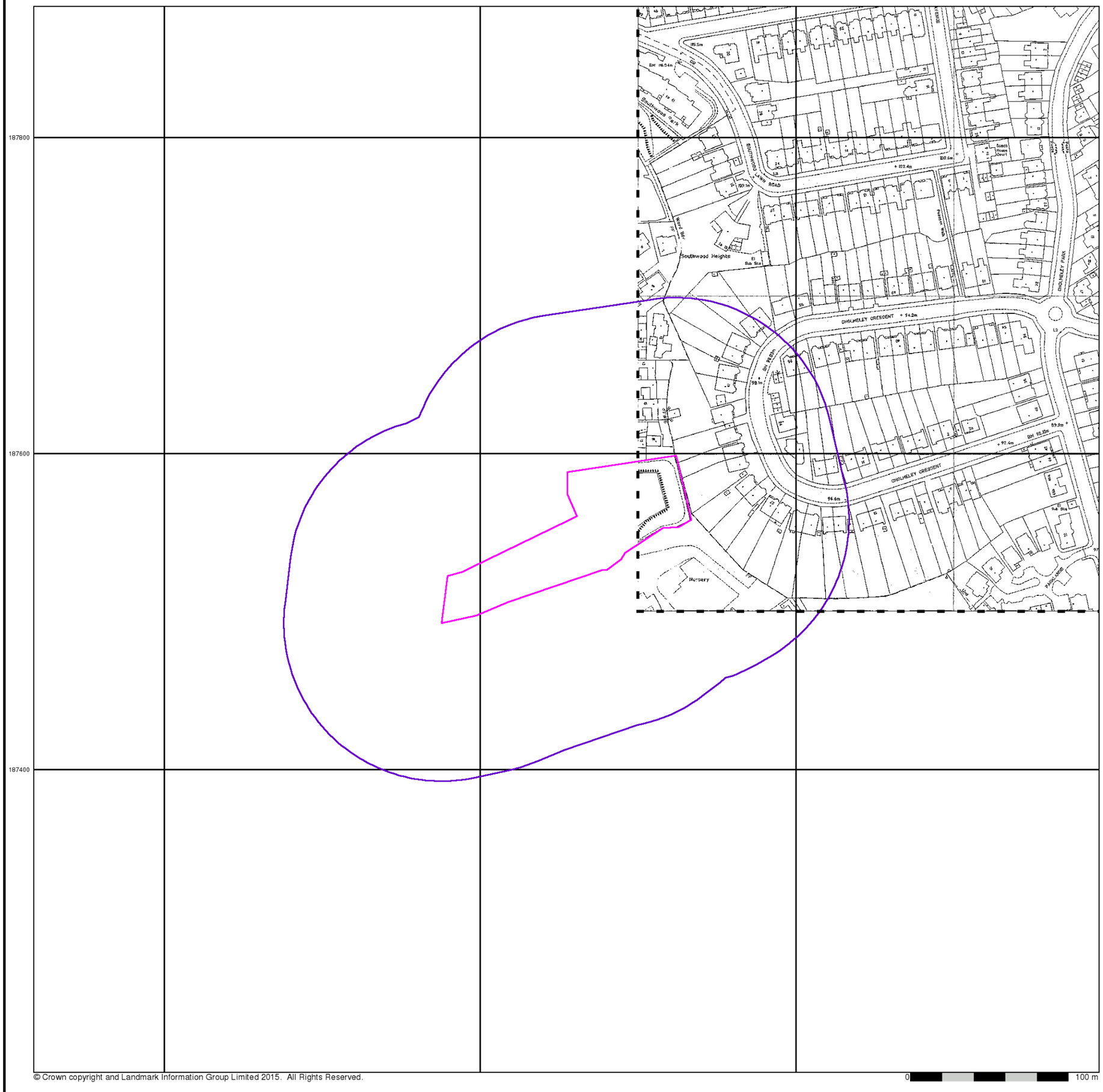
Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
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Site Details

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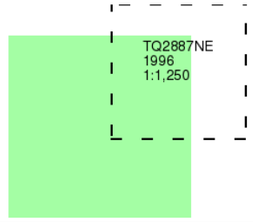
Large-Scale National Grid Data

Published 1996

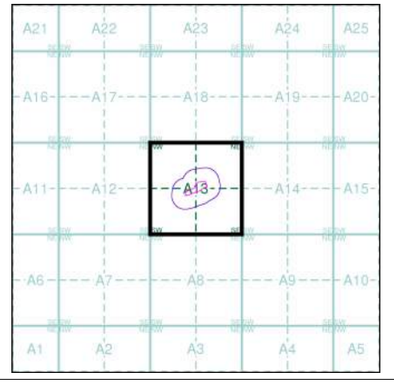
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

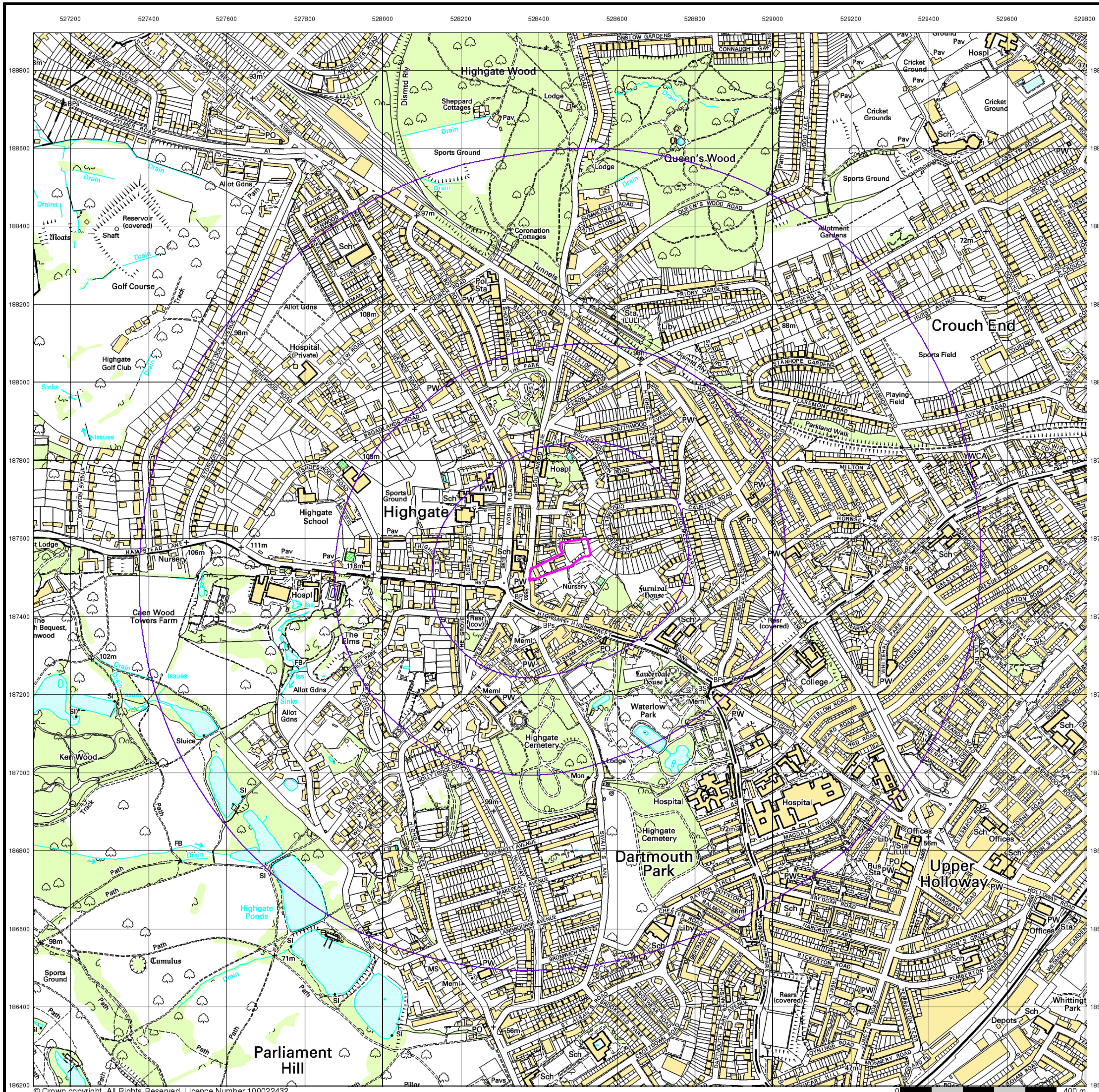
Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	100

Site Details

Highgate School, Highgate, LONDON, N6 5EE

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Web: www.envirocheck.co.uk



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10k Raster Mapping

Published 2006

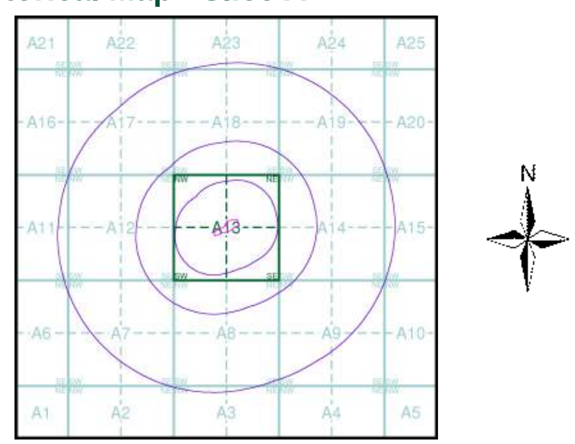
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

TQ28NE
2006
1:10,000

Historical Map - Slice A



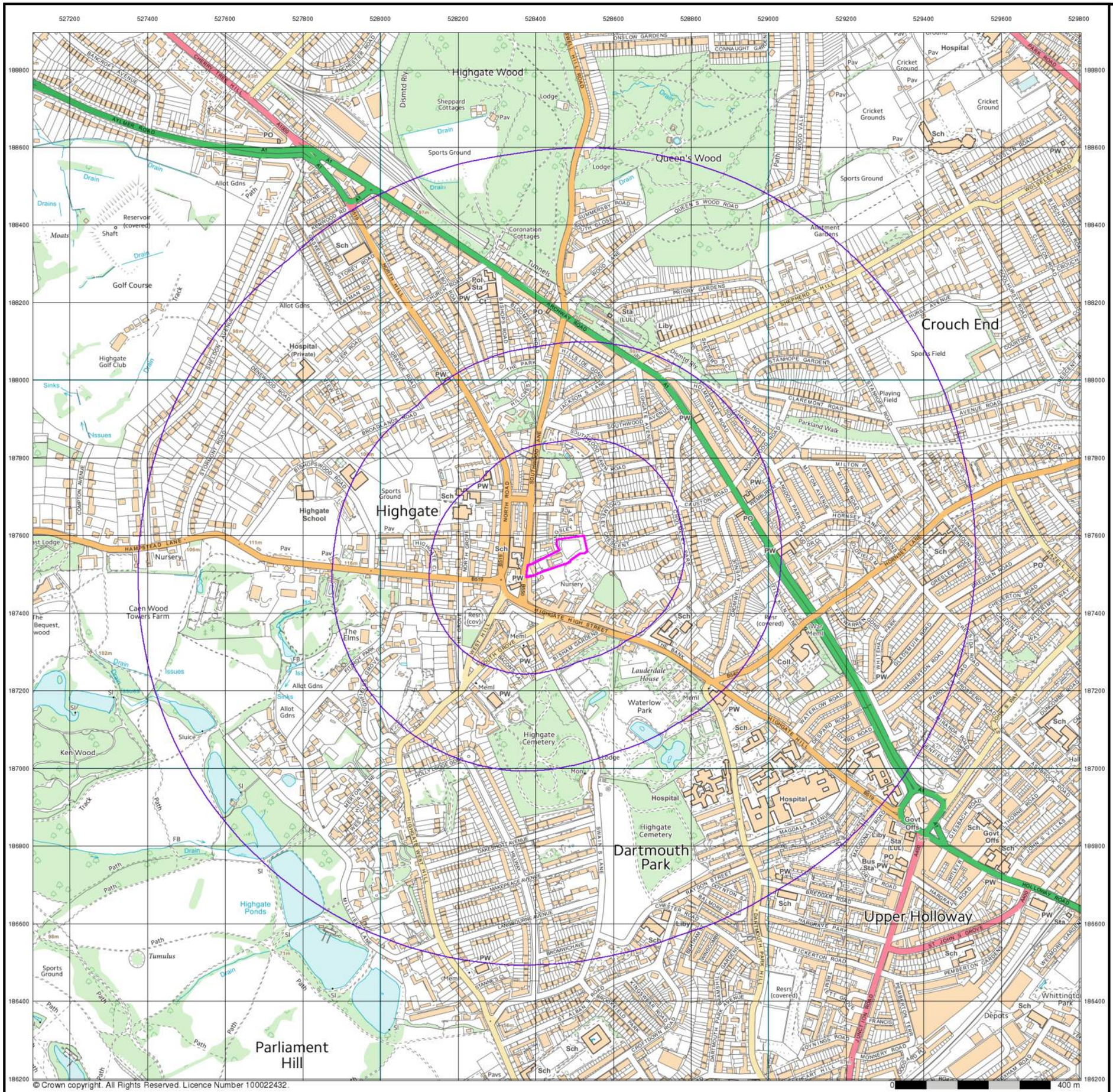
Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

Highgate School, Highgate, LONDON, N6 5EE

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Tel: 0844 844 9952
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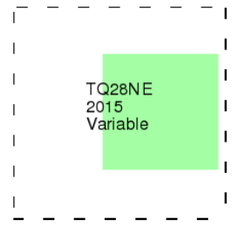
VectorMap Local

Published 2015

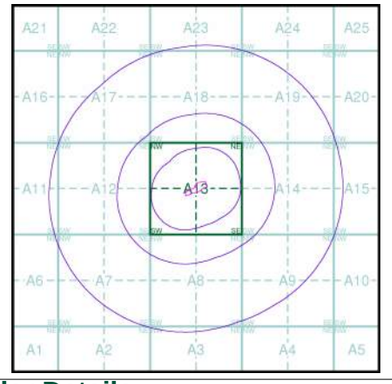
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	66091368_1_1
Customer Ref:	J15093
National Grid Reference:	528450, 187540
Slice:	A
Site Area (Ha):	0.68
Search Buffer (m):	1000

Site Details

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Fax: 0844 844 9951
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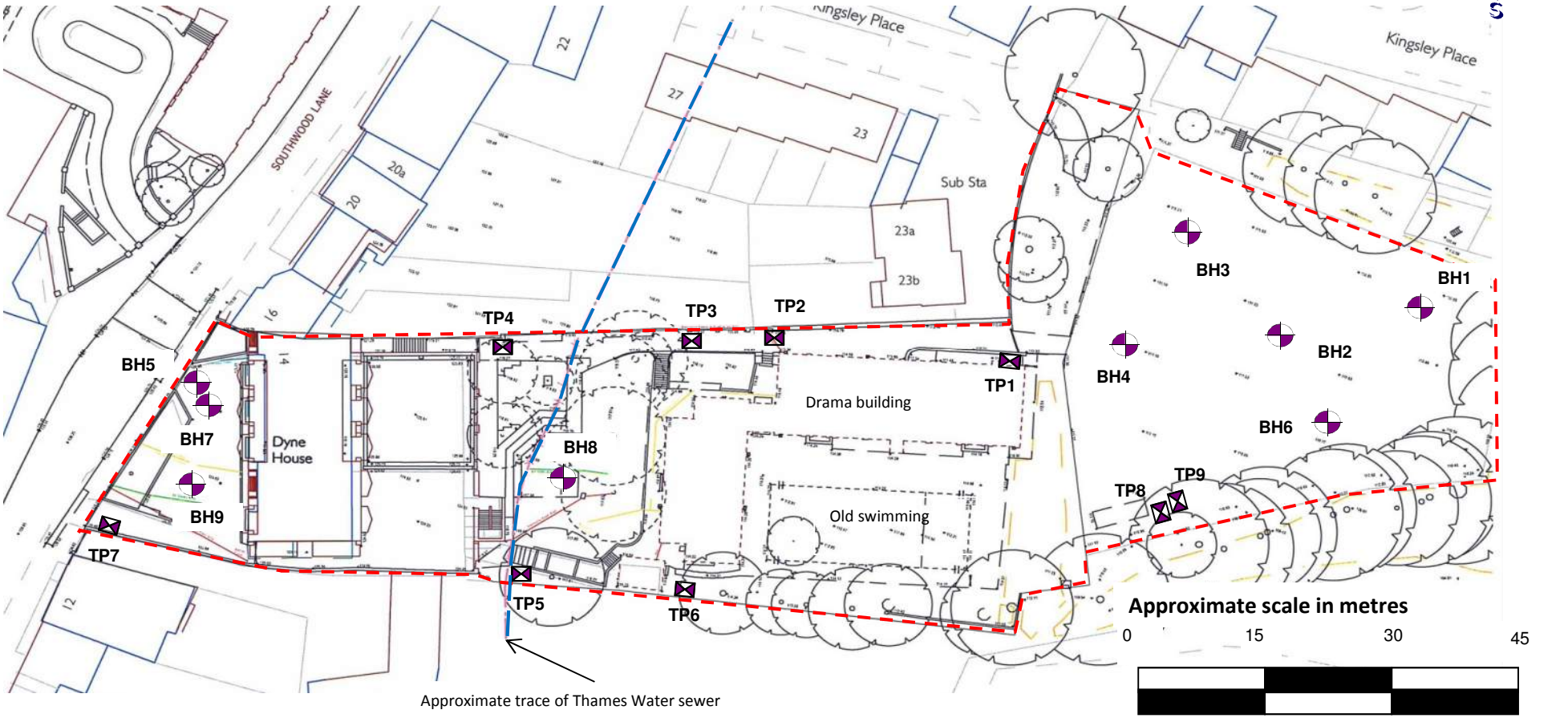
Widbury Barn
Widbury Hill
Ware
SG12 7QE

Site Plan

Site	Dyne House, Highgate School, London, N6 5EE
Client	Highgate School
Engineer	A-squared Studio

Job Number J15093

Sheet 1 / 1



Geotechnical & Environmental Associates (GEA)
is an engineer-led and client-focused independent specialist providing a complete range of geotechnical and contaminated land investigation, analytical and consultancy services to the property and construction industries.

We have offices at

Widbury Barn
Widbury Hill
Ware
Hertfordshire
SG12 7QE
tel 01727 824666
mail@gea-ltd.co.uk

Church Farm
Gotham Road
Kingston on Soar
Notts
NG11 0DE
tel 01509 674888
midlands@gea-ltd.co.uk

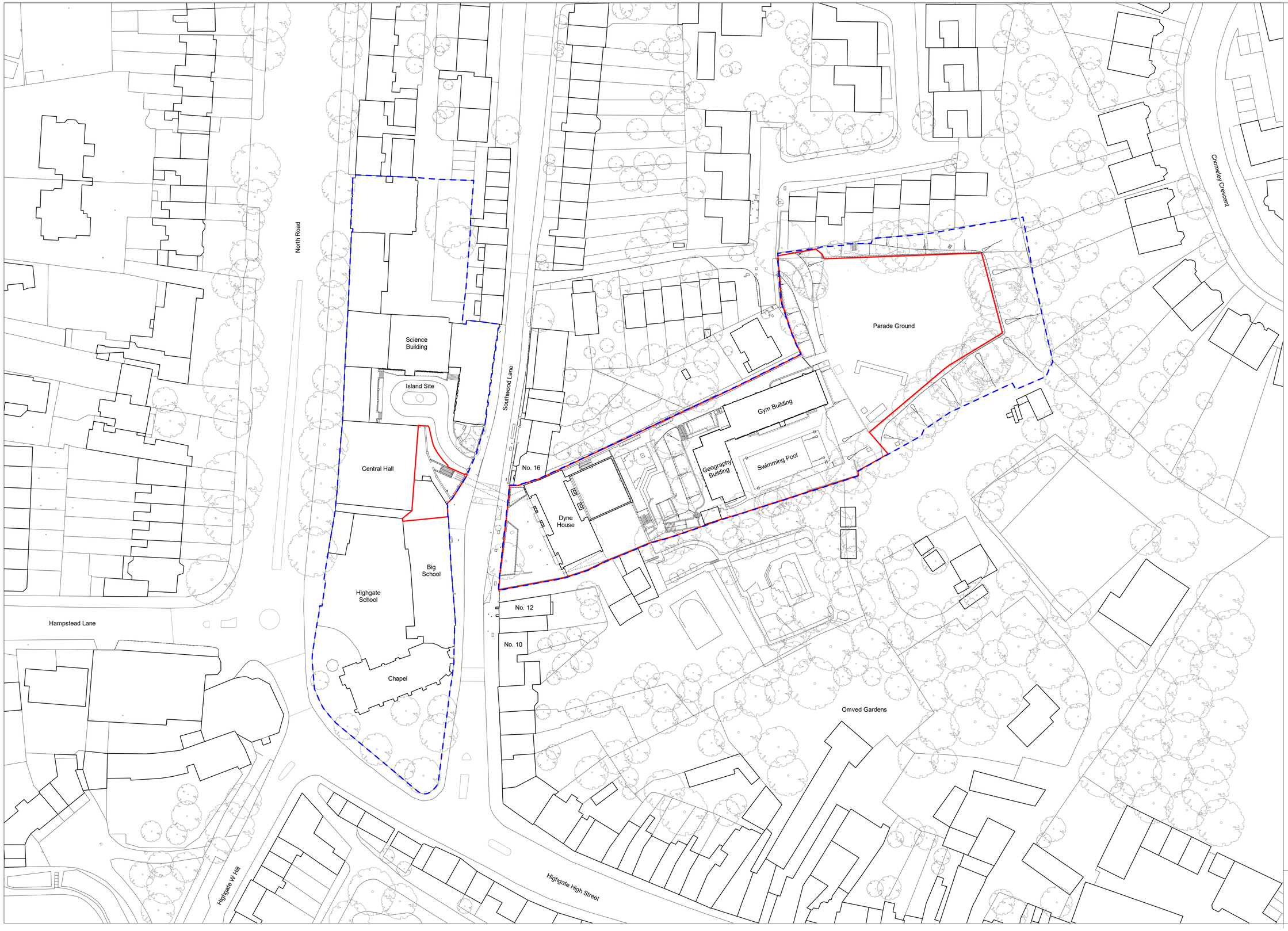
Enquiries can also be made on-line at

www.gea-ltd.co.uk

where information can be found on all of the services that we offer.

GEA Geotechnical & Environmental Associates

Appendix B. Existing and Proposed Development Drawings



General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 / DRS-XXX / FR-XXs (Door number; Instance of doors per room; Door type; Fire rating. 'S' denotes smoke seal)

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - PROPERTY BOUNDARY:

- Ownership Boundary
- Development Boundary

DRAFT PLANNING

Scale at 1:500
0 5 10 25m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
27.07.2018	A	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	B	Memo 0006 Stage 2 Issue	JG
11.07.2019	C	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Application Site Location & Ownership Boundary

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2000	C

Date: 24.07.2018 Scale: 1 : 500 at A1

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Science Building
Central Hall
Southwood Lane
Kingsley Place
No 16
Big School
Dyne House
Gym Building
Geography Building
Swimming Pool
Parade Ground
No 12
No 10
EX+125.00
EX+126.65
EX+125.65
EX+126.30
EX+125.42
EX+126.41
EX+125.82
EX+125.82
EX+126.54
EX+125.79
EX+121.29
EX+119.30
EX+117.40
EX+115.56
EX+114.79
EX+112.23
EX+112.78
EX+113.99
EX+108.71
EX+111.03
EX+110.65
EX+111.19
EX+126.06
EX+126.15
EX+116.18
EX+118.92
EX+114.66
EX+125.80
EX+126.35
EX+125.91
EX+118.00
EX+126.16
EX+117.94
EX+114.20
EX+109.54
EX+111.15
EX+125.02
EX+114.67
EX+118.14
EX+114.14
EX+114.29
EX+112.47
EX+111.15
EX+110.80
EX+126.06
EX+124.55
EX+118.40
EX+117.67
EX+125.10
EX+118.97
EX+116.37
EX+114.32
EX+114.13
EX+114.17
EX+111.73
EX+104.91
EX+126.74
EX+122.14
EX+121.05
EX+118.35
EX+118.47
EX+115.35
EX+114.34
EX+113.29
EX+112.82
EX+112.71
EX+112.69
EX+106.53
EX+117.79
EX+112.44
EX+113.64
EX+112.34
EX+114.39

General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating; 'x' denotes smoke seal)

G3 Abbreviatons:

GN/AWC: Gender Neutral / Accessible WC
CS: Cleaner's Store
PH: Printer hub
ST: Store
RWP: Rain water pipe

DRAFT PLANNING

Scale at 1:250
0 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
11.07.2019	A	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Existing Site Plan
Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2100	A

Date: 27.07.2018 Scale: 1 : 250 at A1

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Central Hall
Island Site
Science Building
Big School
No 16
No 12
No 10
Southwood Lane
Tunnel shown dashed below ground
Planter
Dyne House
External Paved Terrace
Paved Forecourt
Ramp (1:8)
7.05 m
7.34 m
2.21 m
2.20 m
Gibbon Garden
External Stairs
Chiller Unit
Geography Building
Gym Building
Swimming Pool
Shed
Omved Gardens
Parade Ground
Kingsley Place
Gate
Earth Access Ramp
Fence
Planters
EX +125.56
EX +126.18
EX +124.28
EX +119.30
EX +118.14
EX +117.40
EX +117.63
EX +115.40
EX +114.84
EX +113.70
EX +112.91
EX +111.92
EX +114.05
EX +111.15
EX +113.29
EX +106.53
EX +114.53
10.02 m

General Notes:

G1 All Levels are above ordnance datum (AOD)
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Existing Levels are shown: EX+20.345

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G3 Abbreviations:

GN/AWC: Gender Neutral / Accessible WC
CS: Cleaner's Store
PH: Printer hub
ST: Store
RWP: Rain water pipe

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
11.07.2019	A	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Ground Floor Plan
Existing Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

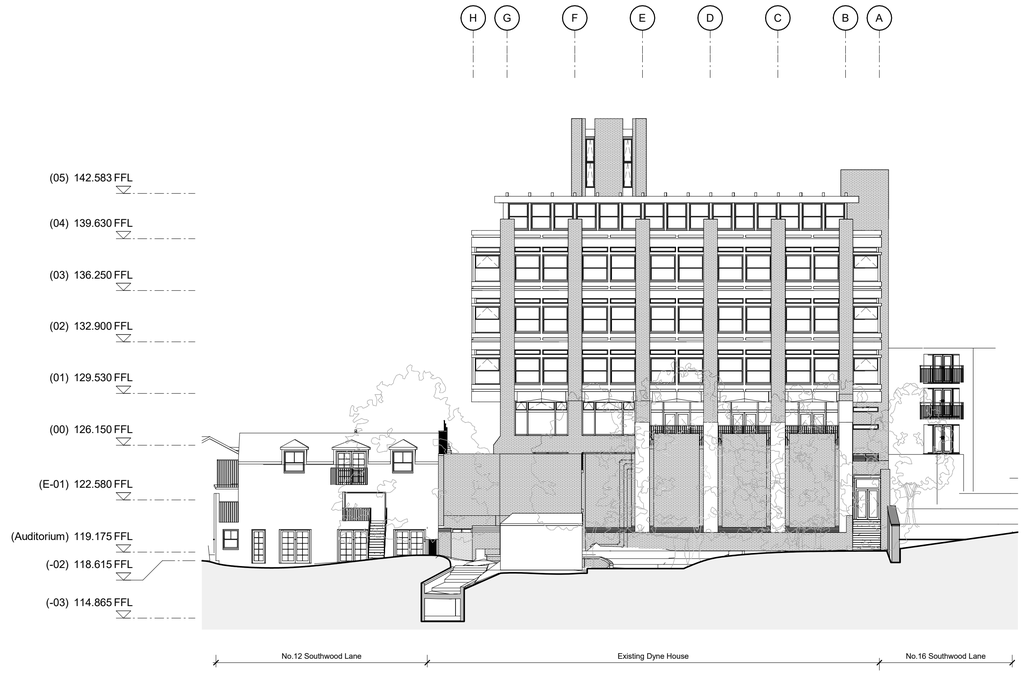
Sort Code	Drawing Number	Rev.
A/HS-DH3	2120	A

Date: 26/02/19 Scale: 1 : 200 at A1

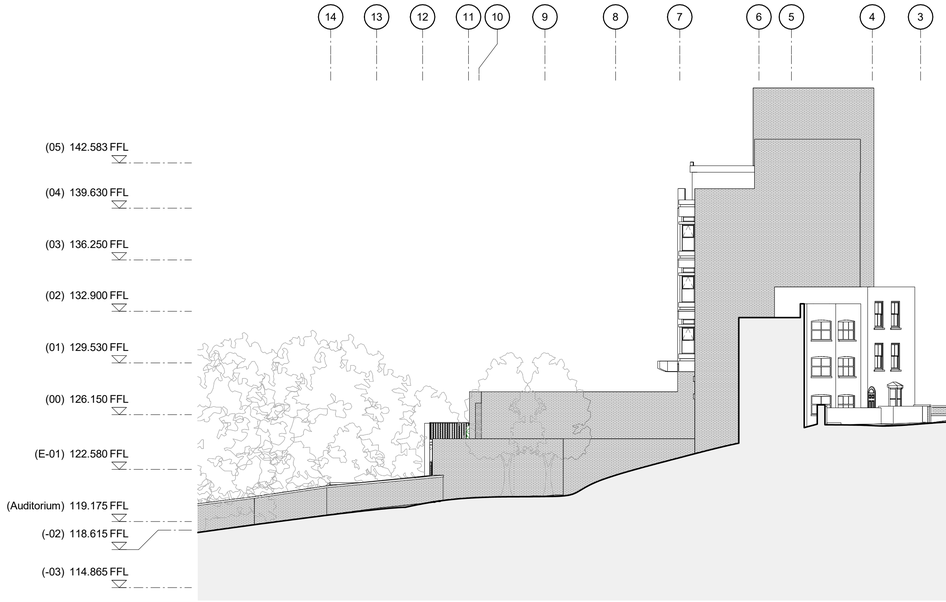
© Copyright Hopkins Architects Limited. Registered in England number: 11779559 Registered address: 27 Broadley Terrace London NW1 6LG Do Not Scale. Use Figured Dimensions Only. All Dimensions to be checked on site. Original Drawing Size A1 (L)



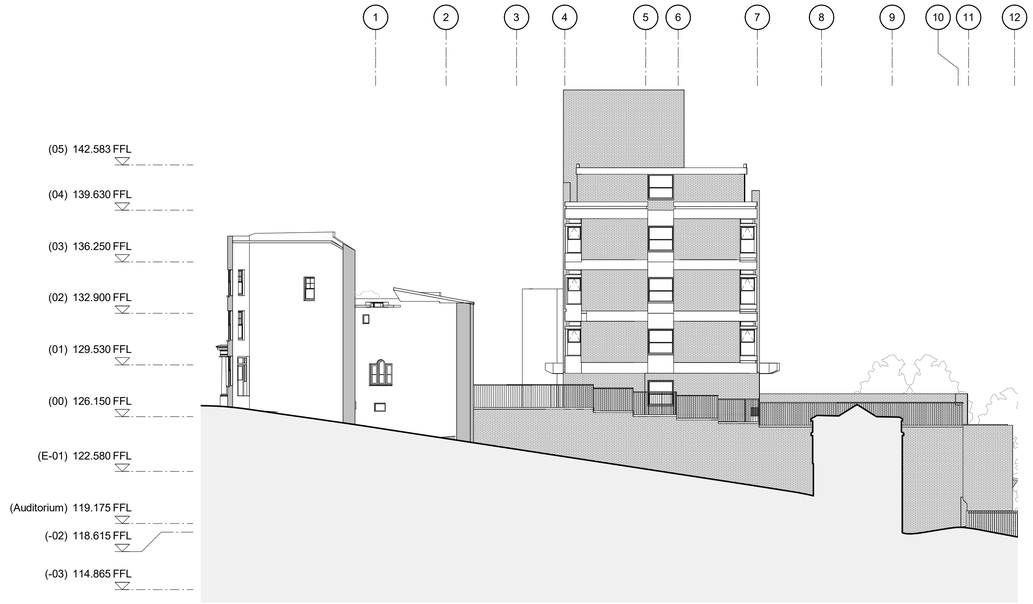
1 2220 **Dyne House - West Elevation**
1 : 200



2 2220 **Dyne House - East Elevation**
1 : 200



3 2220 **Dyne House - North Elevation**
1 : 200



4 2220 **Dyne House - South Elevation**
1 : 200

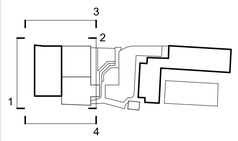
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Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:
DG-01 ← Instance of doors per room
DRS-XXX ← Door type
FR-XXs ← Fire rating. 's' denotes smoke seal
Door number

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe



DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
27.07.2018	A	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	B	Memo 0006 Stage 2 Issue	JG
11.07.2019	C	Draft Planning Issue to Client	JW

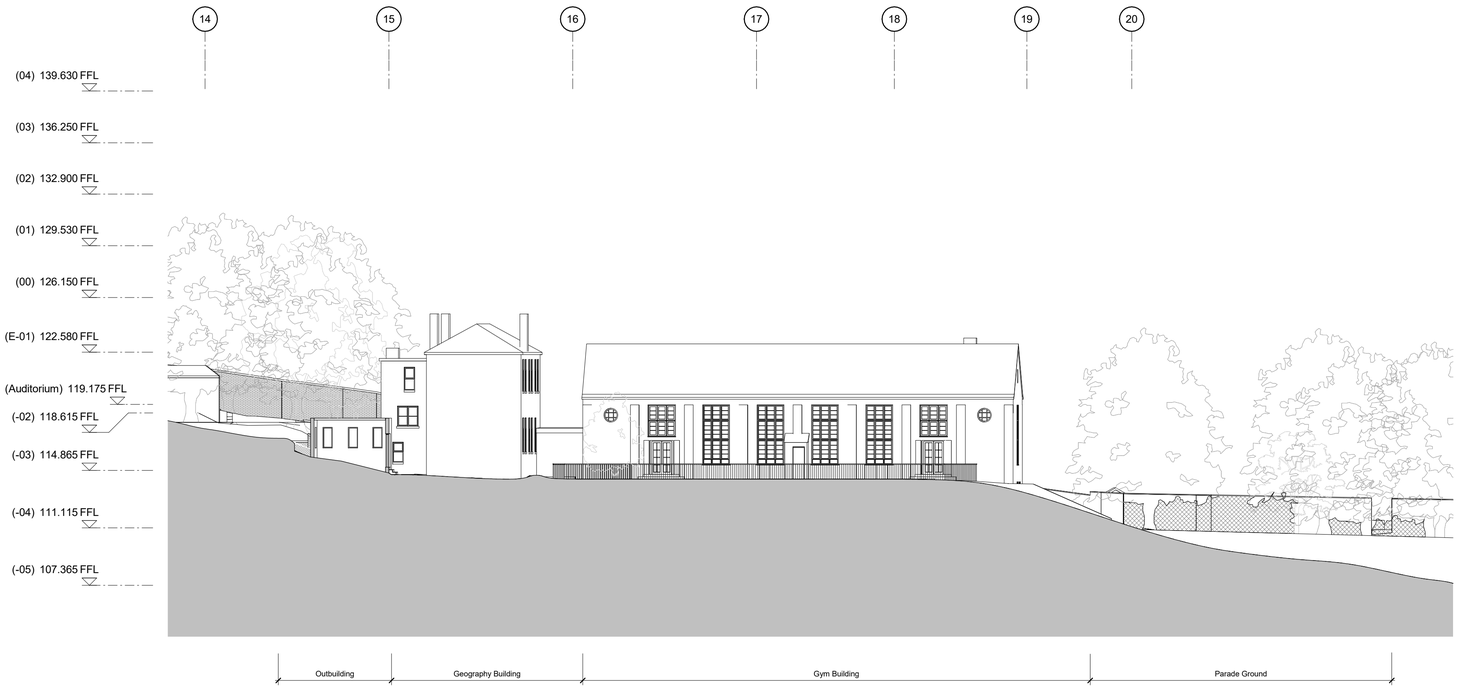
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Front Building Existing Elevations
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2220	C

Date: 07/24/18 Scale: 1 : 200 at A1

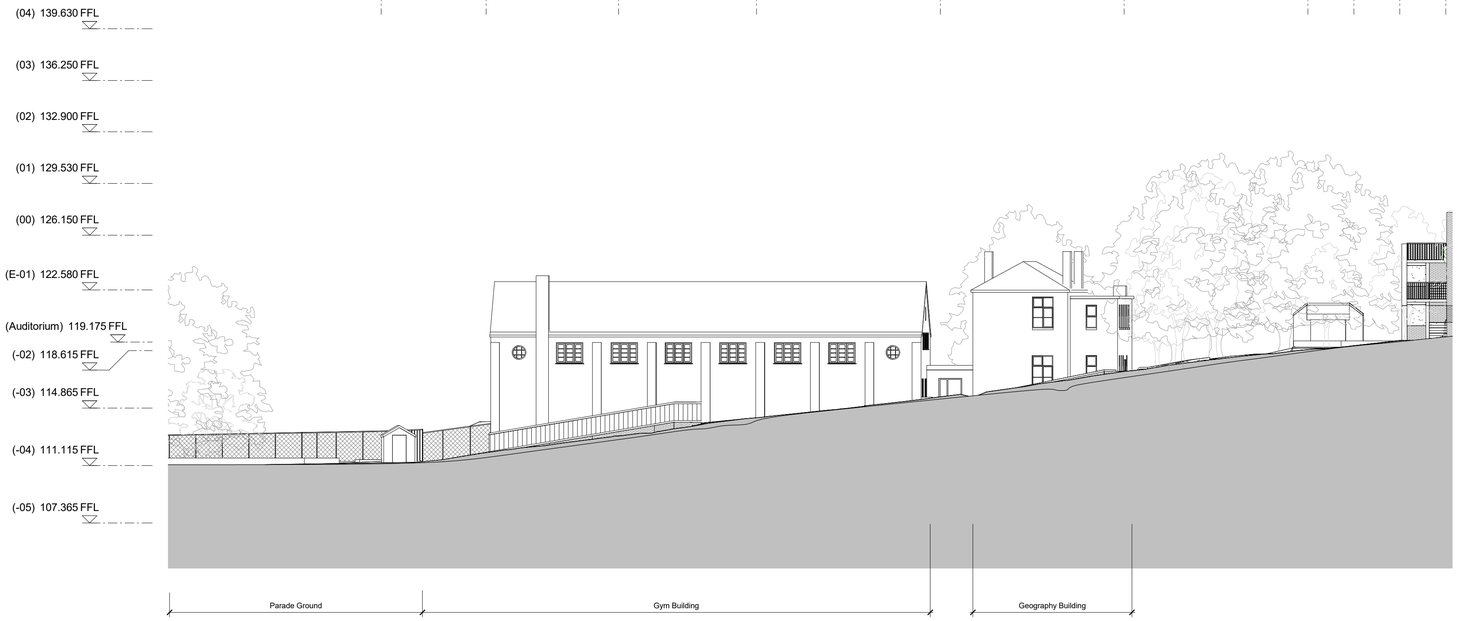
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1 / 2221 **Rear Block - North Elevation**
1 : 200



2 / 2221 **Rear Block - West Elevation**
1 : 200



3 / 2221 **Rear Block - South Elevation**
1 : 200



4 / 2221 **Rear Block - East Elevation**
1 : 200

General Notes:

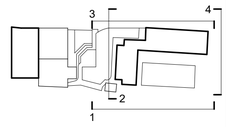
G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe



DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
27.07.2018	A	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	B	Memo 0006 Stage 2 Issue	JG
11.07.2019	C	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

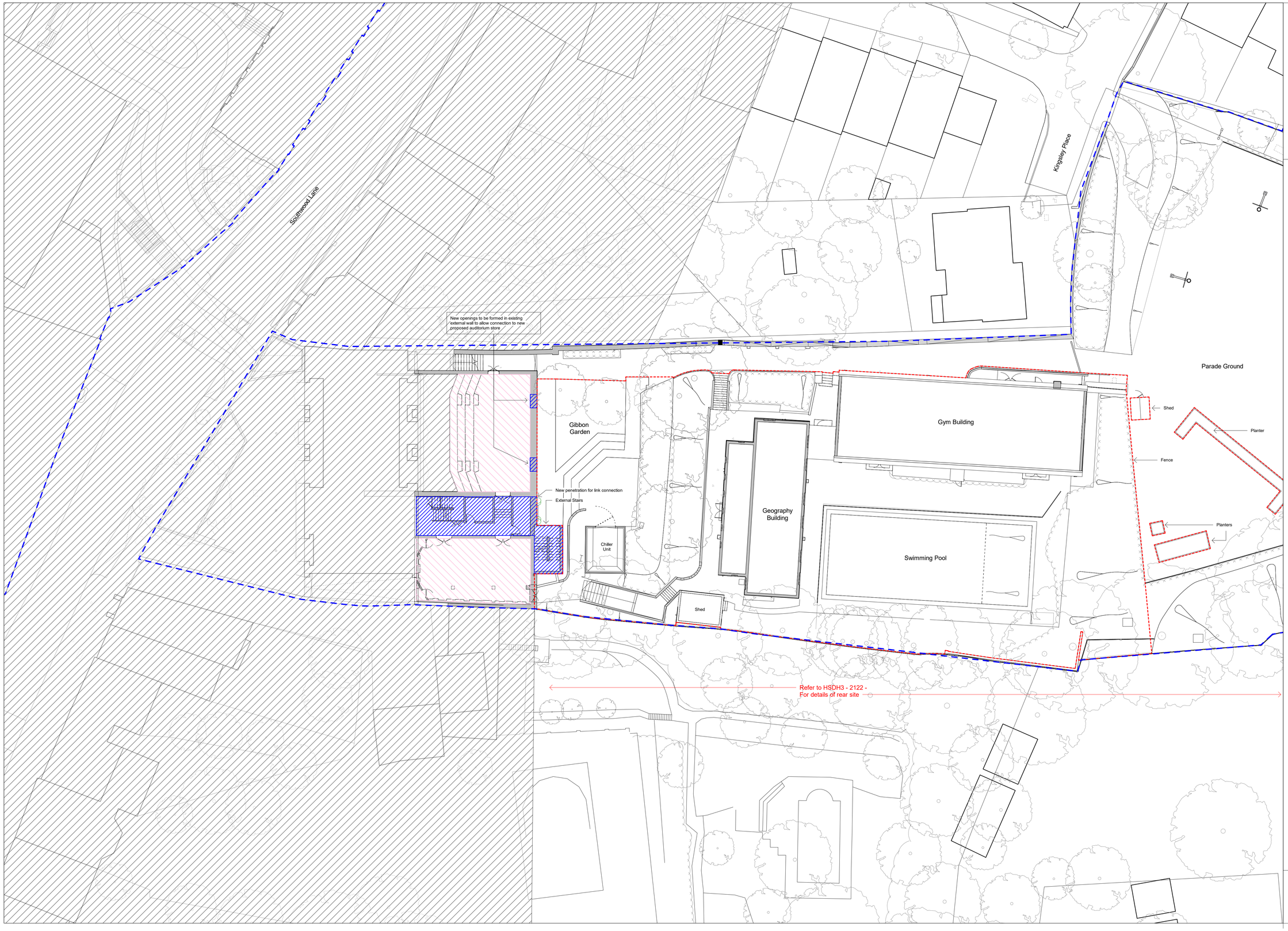
Project: Highgate School Dyne House 3
Subject: Dyne House - Rear Buildings
Existing Elevations

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2221	C

Date: 07/26/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'x' denotes smoke seal) — Door number

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core, structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

-02

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004 Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

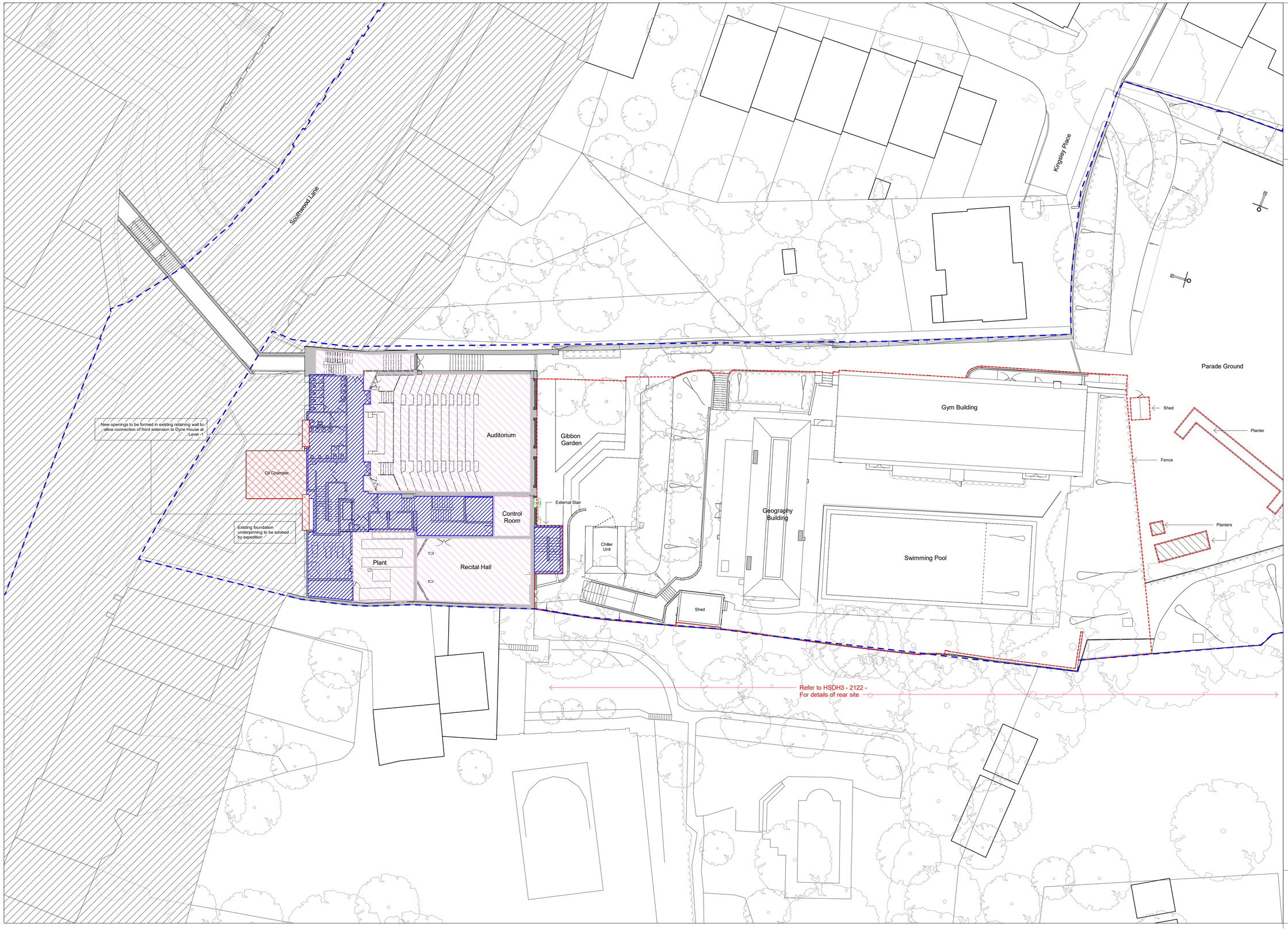
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level -02 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2320**	**D**

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'S' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core, structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

-01

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004 Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

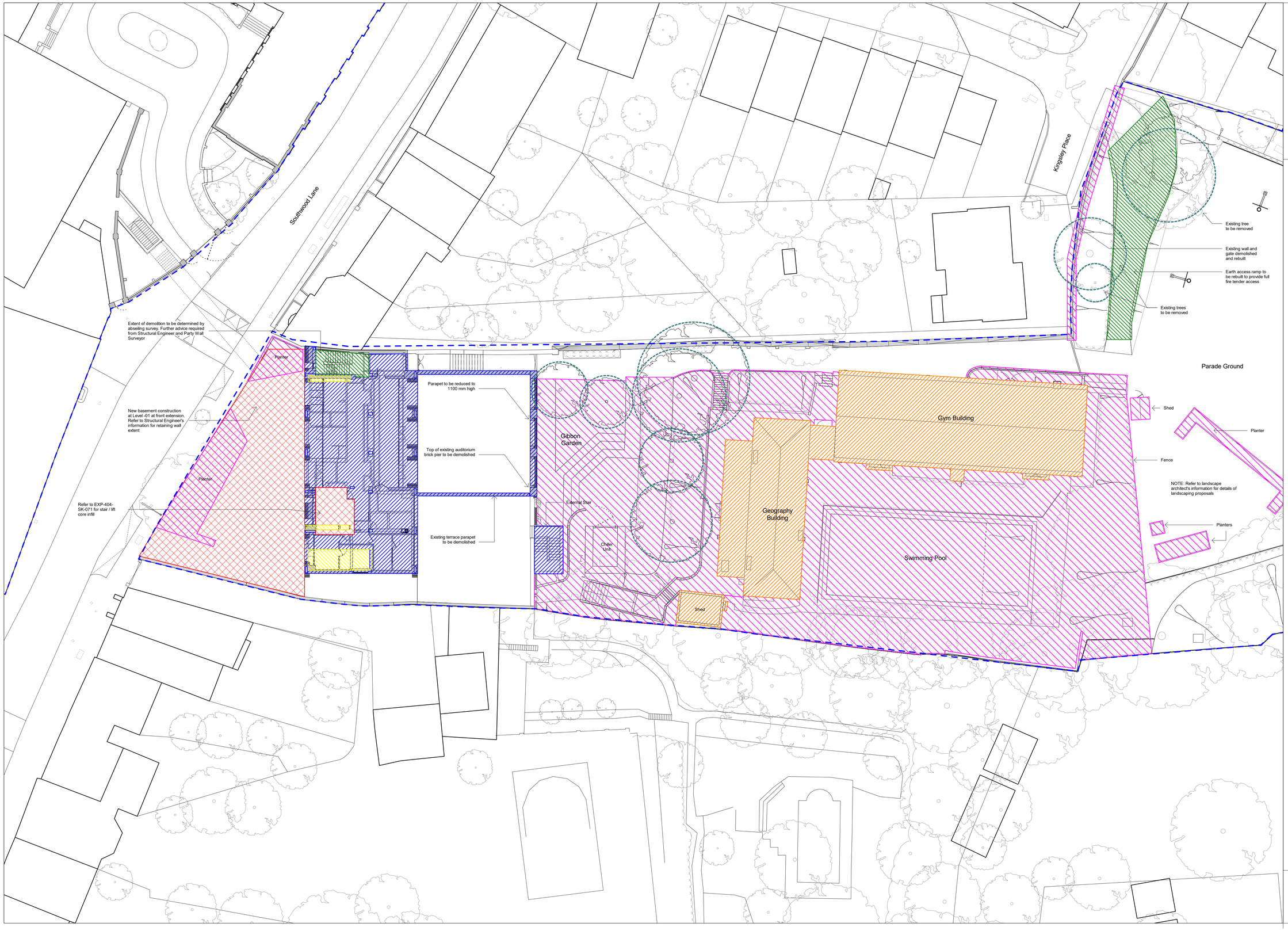
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level -01 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2321	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviations:

GN/AWC: Gender Neutral / Accessible WC
CS: Cleaner's Store
PH: Printer hub
ST: Store
RWP: Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core, structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

00

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

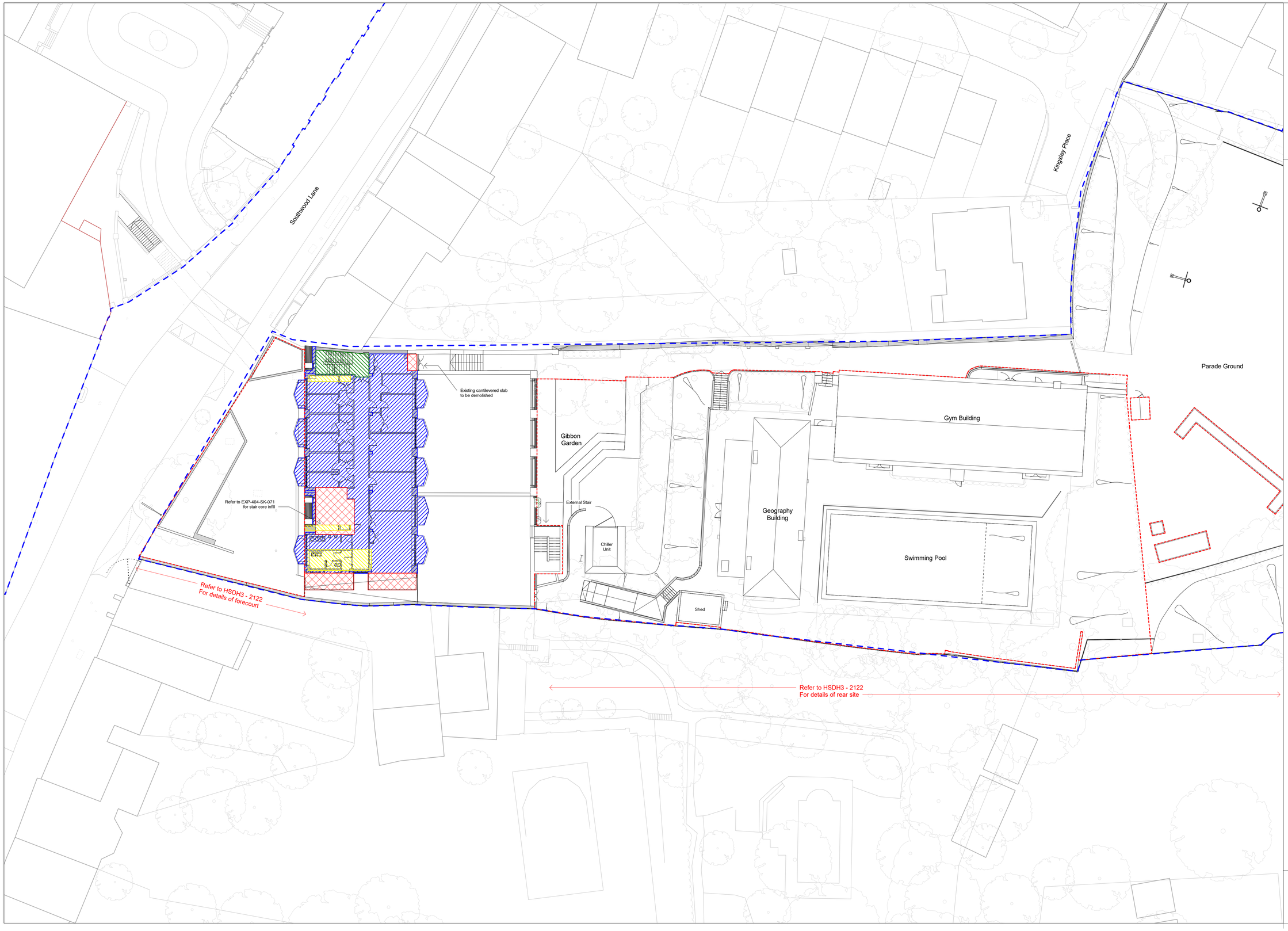
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level 00 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2322	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core; structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

01

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

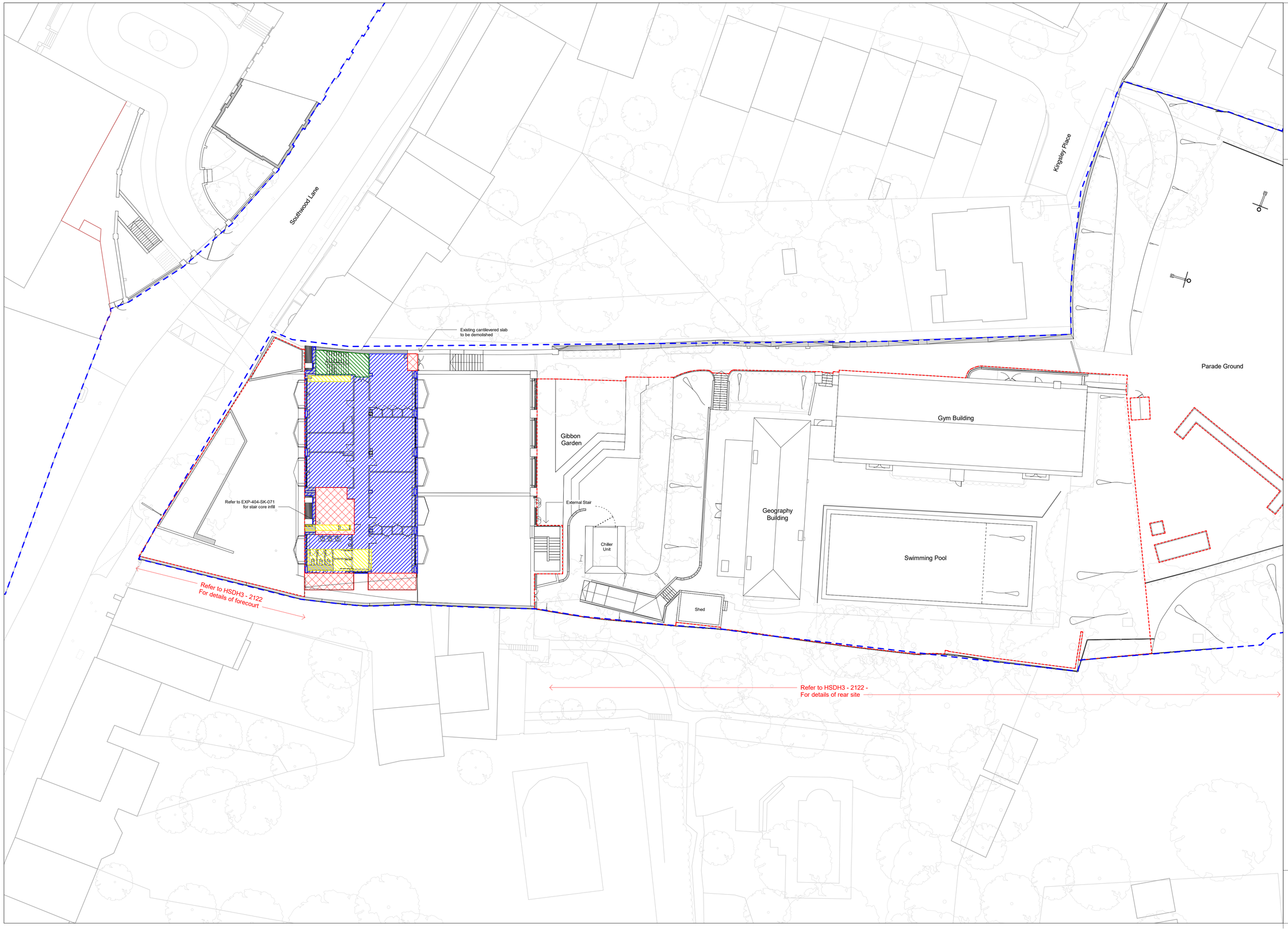
Project: Highgate School Dyne House 3
Subject: Dyne House - Level 01 Demolition Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2323	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating. 'x' denotes smoke seal) — Door number

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core; structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

02

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

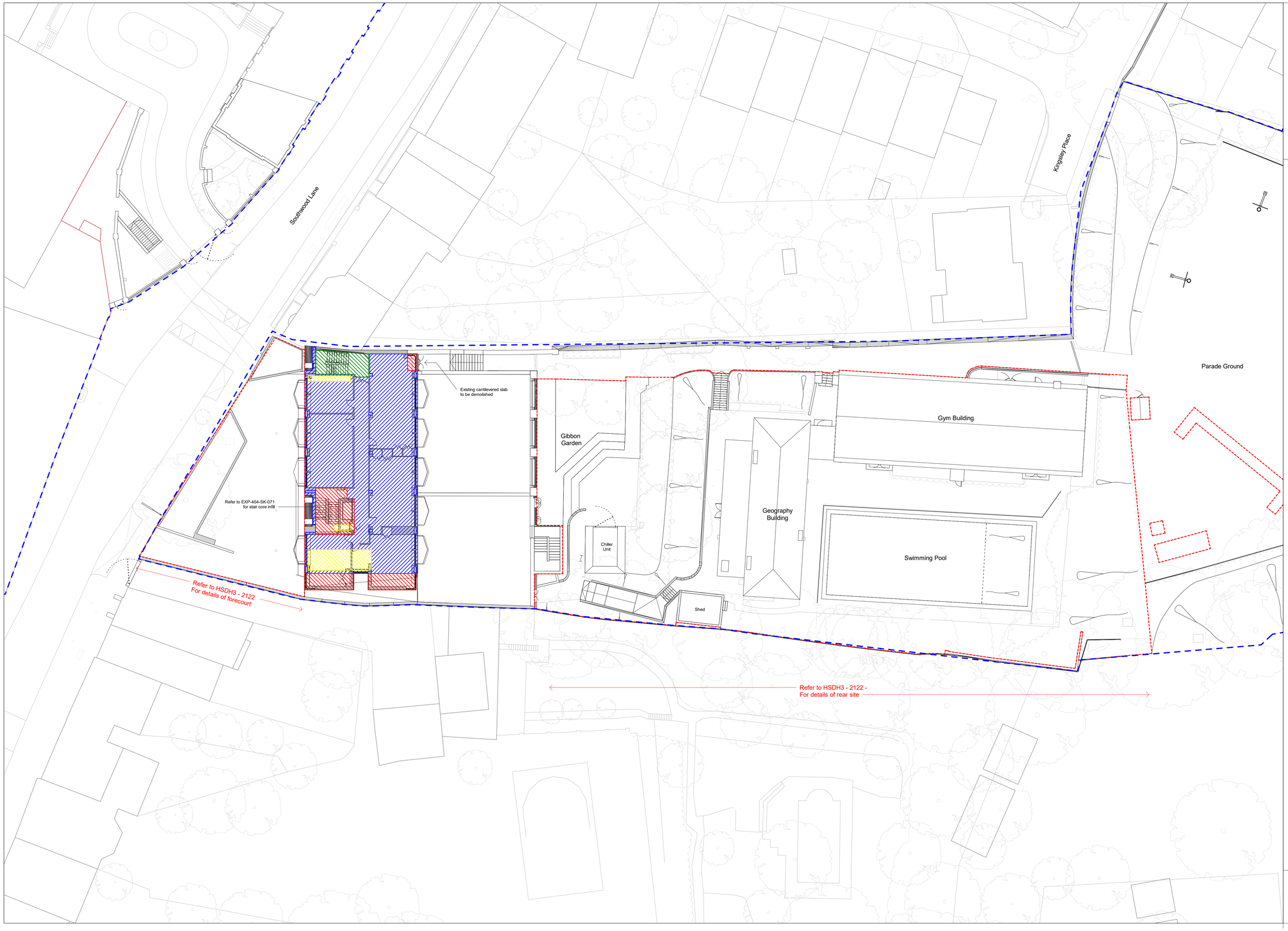
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level 02 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2324	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'x' denotes smoke seal) — Door number

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core; structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

03

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

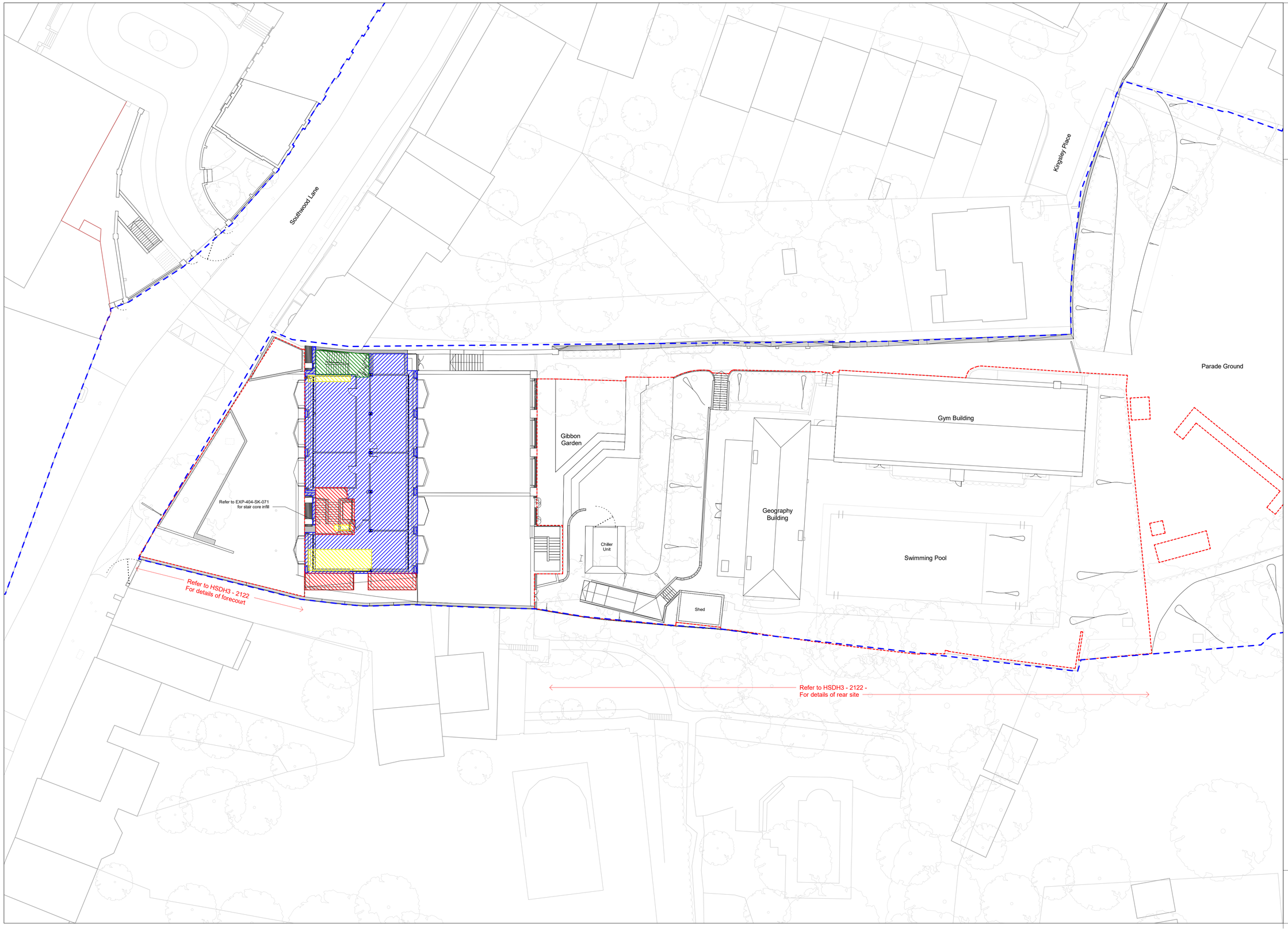
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level 03 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2325	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core, structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

04

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

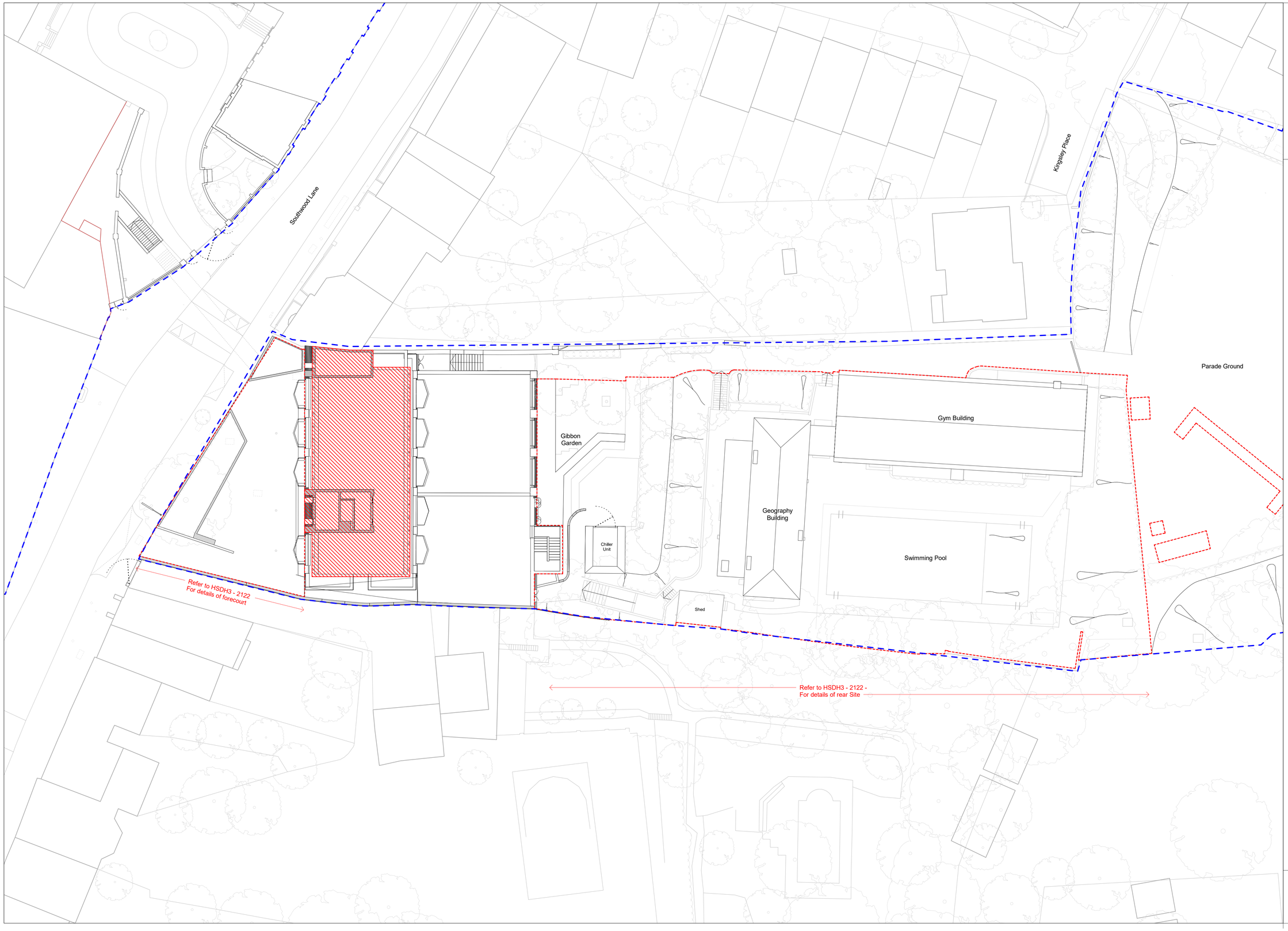
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level 04 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2326	D

Date: 03/15/17 Scale: 1 : 200 at A1

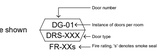
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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

- Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
- Existing buildings to be demolished
- Existing Dyne House strip out and facade removal. Northern staircase to be retained
- Existing Dyne House structural demolition, including existing stair and lift core; structural slab
- Existing spaces to be retained
- Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
- Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
- Existing trees to be removed
- Property Boundary

RF

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
27.07.2018	B	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	C	Memo 0006 Stage 2 Issue	JG
11.07.2019	D	Draft Planning Issue to Client	JW

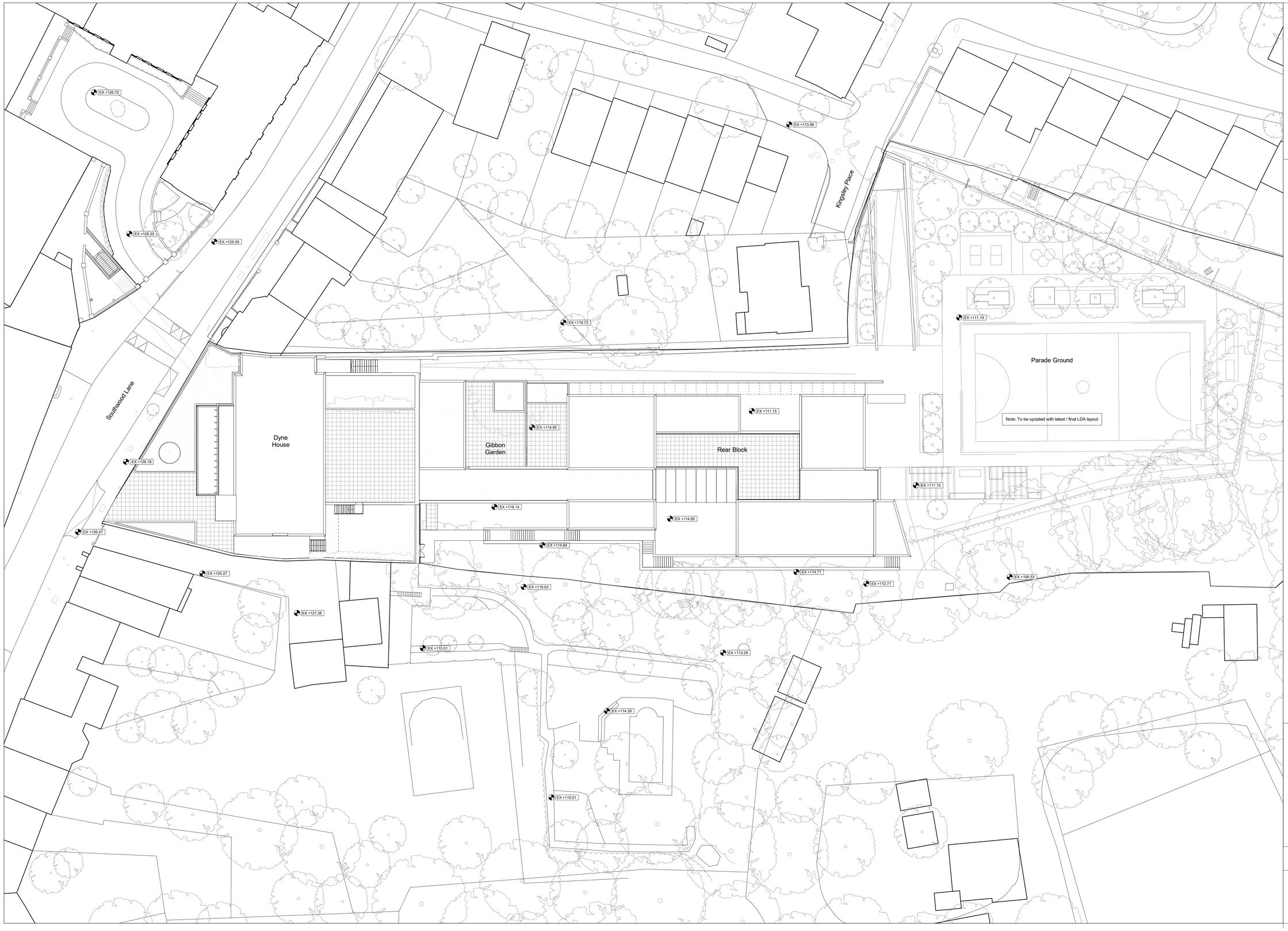
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Roof Level Demolition Plans
Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2327	D

Date: 03/15/17 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

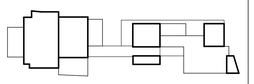
G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Note: Refer to Landscape Architects drawings for detailed proposed landscape levels.



DRAFT PLANNING

Scale at 1:500
0 5 10 25m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
27.07.2018	A	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	B	Memo 0006 Stage 2 Issue	JG
11.07.2019	C	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

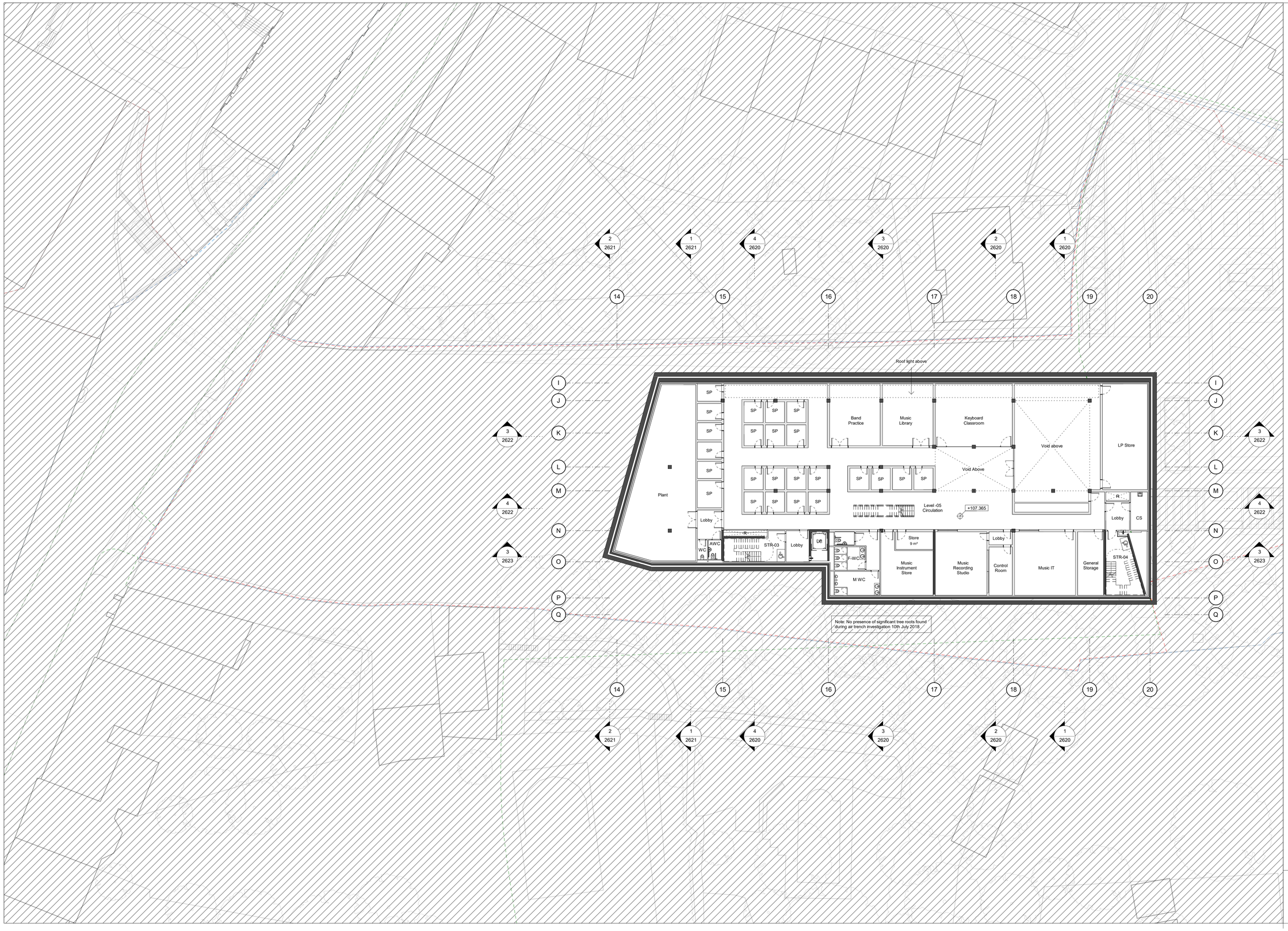
Project: Highgate School Dyne House 3
Subject: Proposed Site Plan

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2400	C

Date: 21/09/18 Scale: 1 : 250 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

-05

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

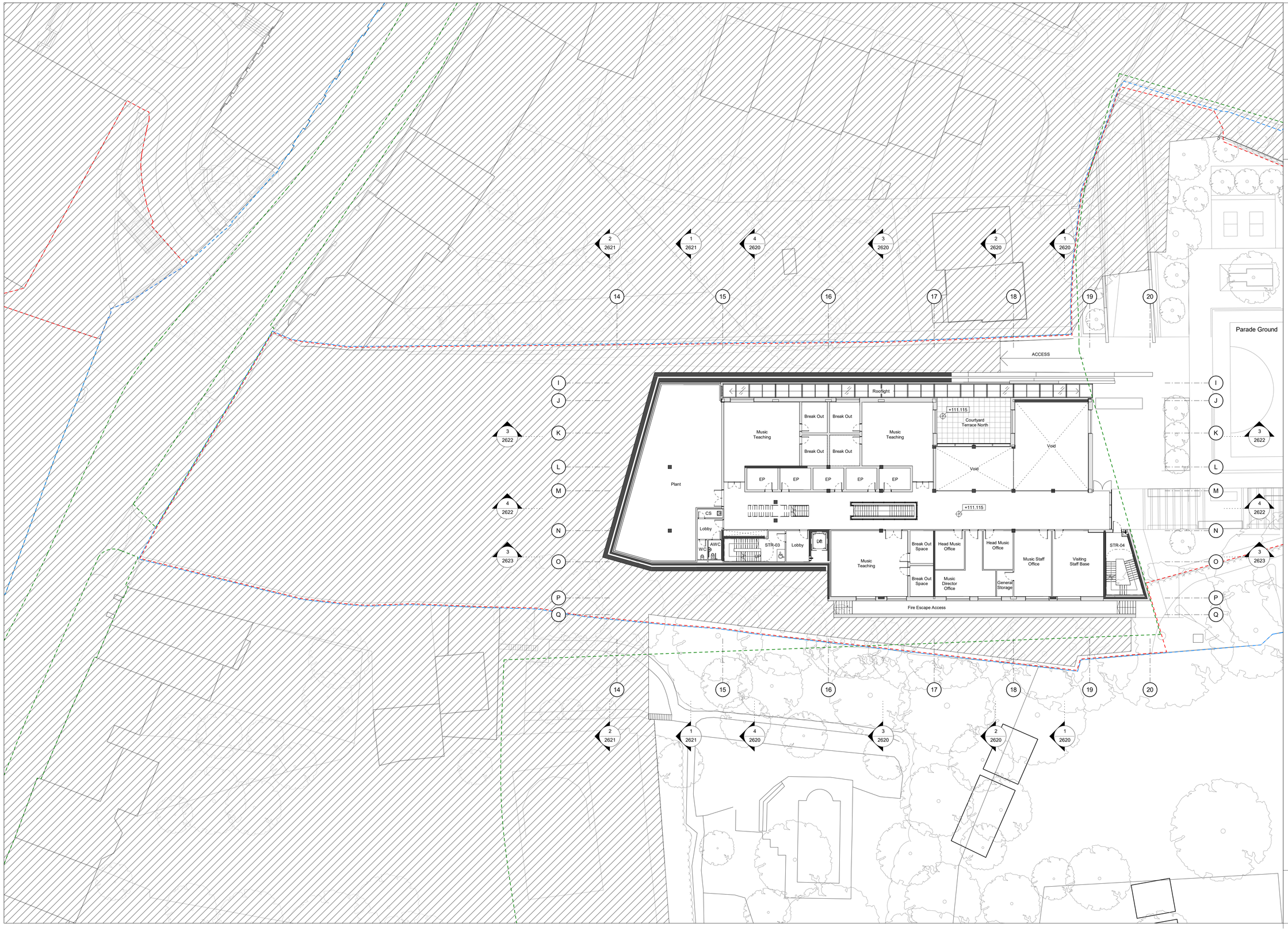
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level -05 Proposed GA Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2420	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 / DRS-XXX / FR-XXs (Door number; Instance of doors per room; Door type; Fire rating. 'S' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

-04

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3

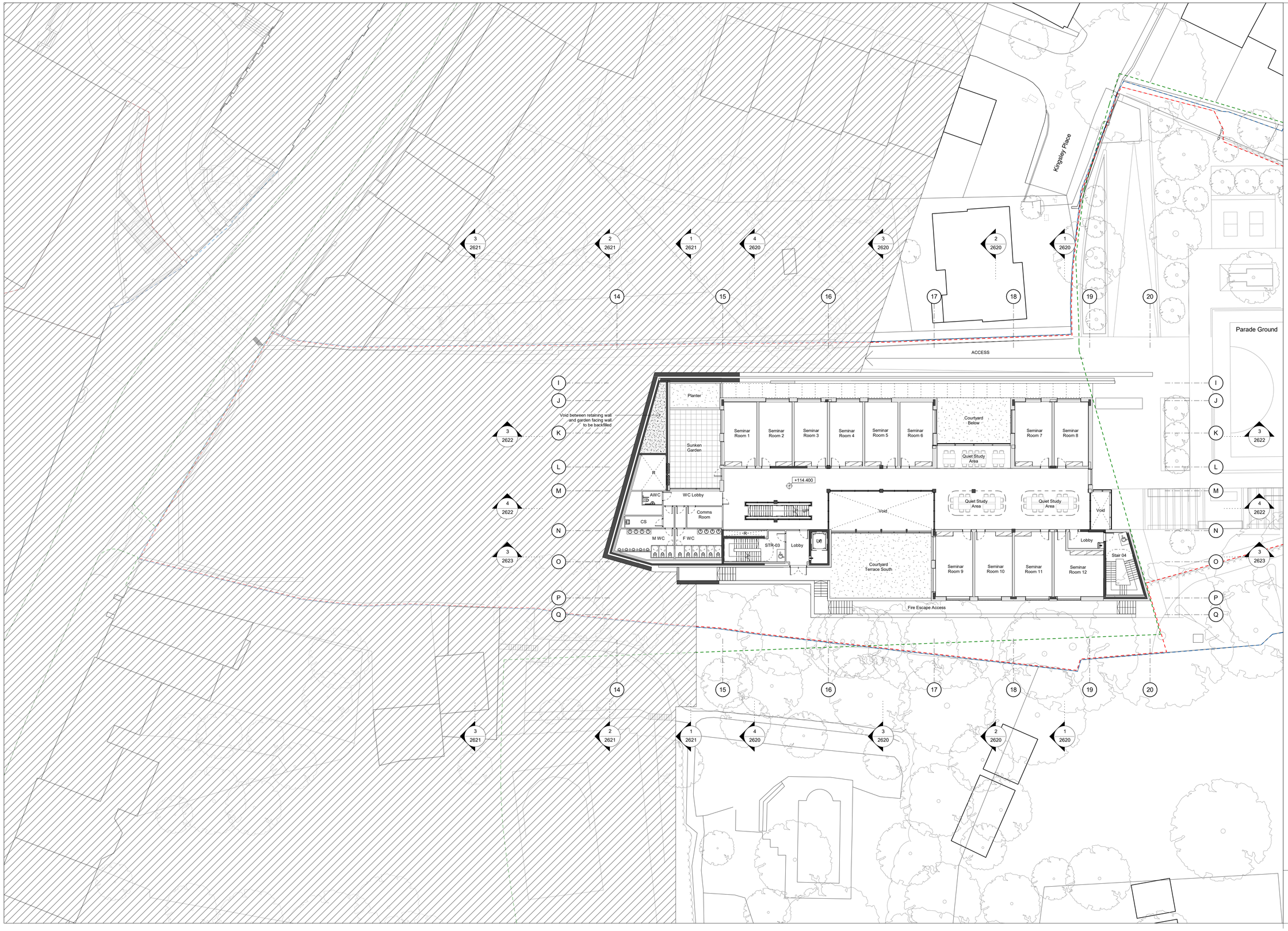
Subject: Dyne House - Level -04
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2421**	**H**

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

-03

DRAFT PLANNING

Scale at 1:200

0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3

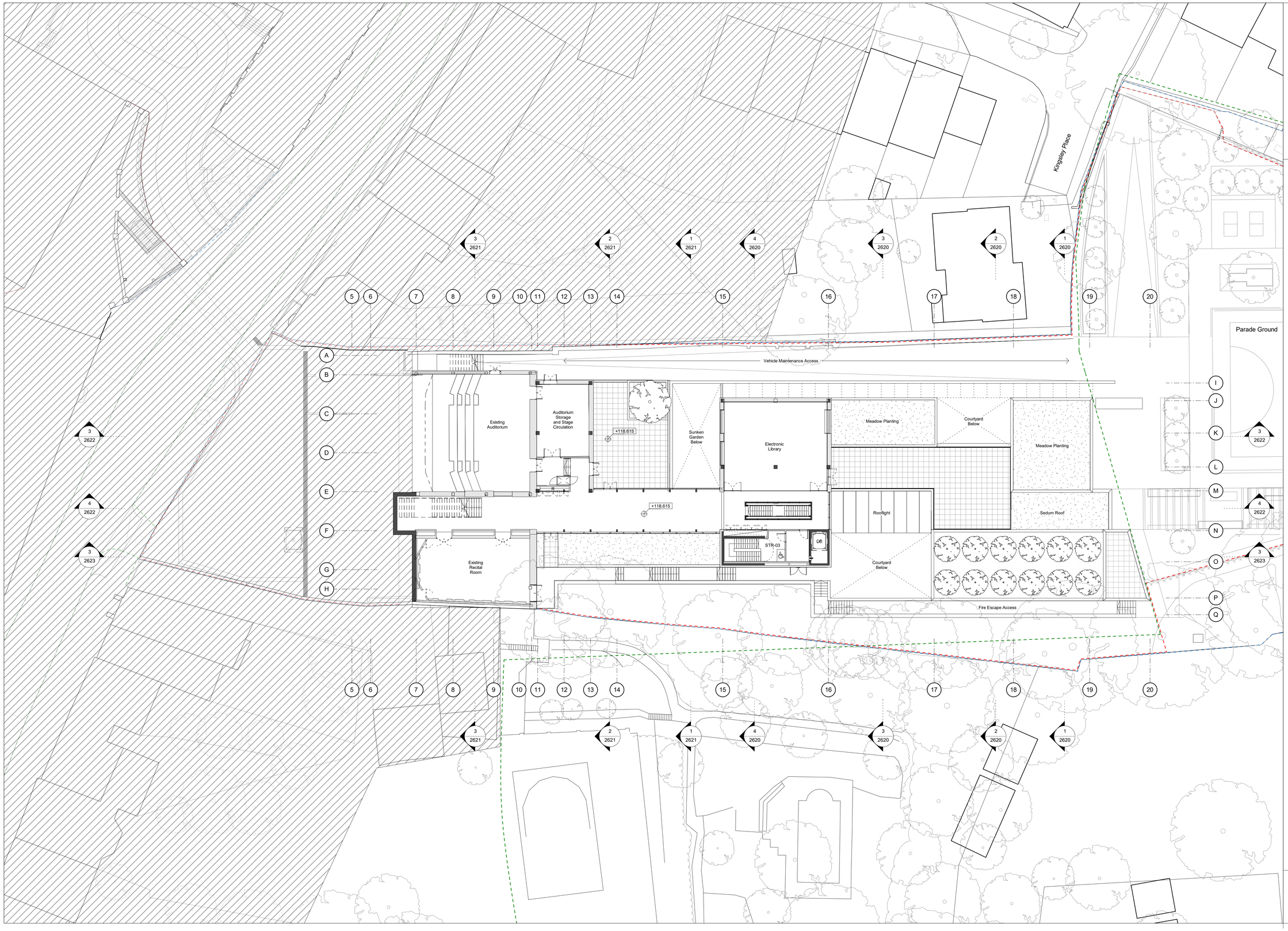
Subject: Dyne House - Level -03
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2422**	**H**

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'S' denotes smoke seal)

G3 Abbreviations:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

-02

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3

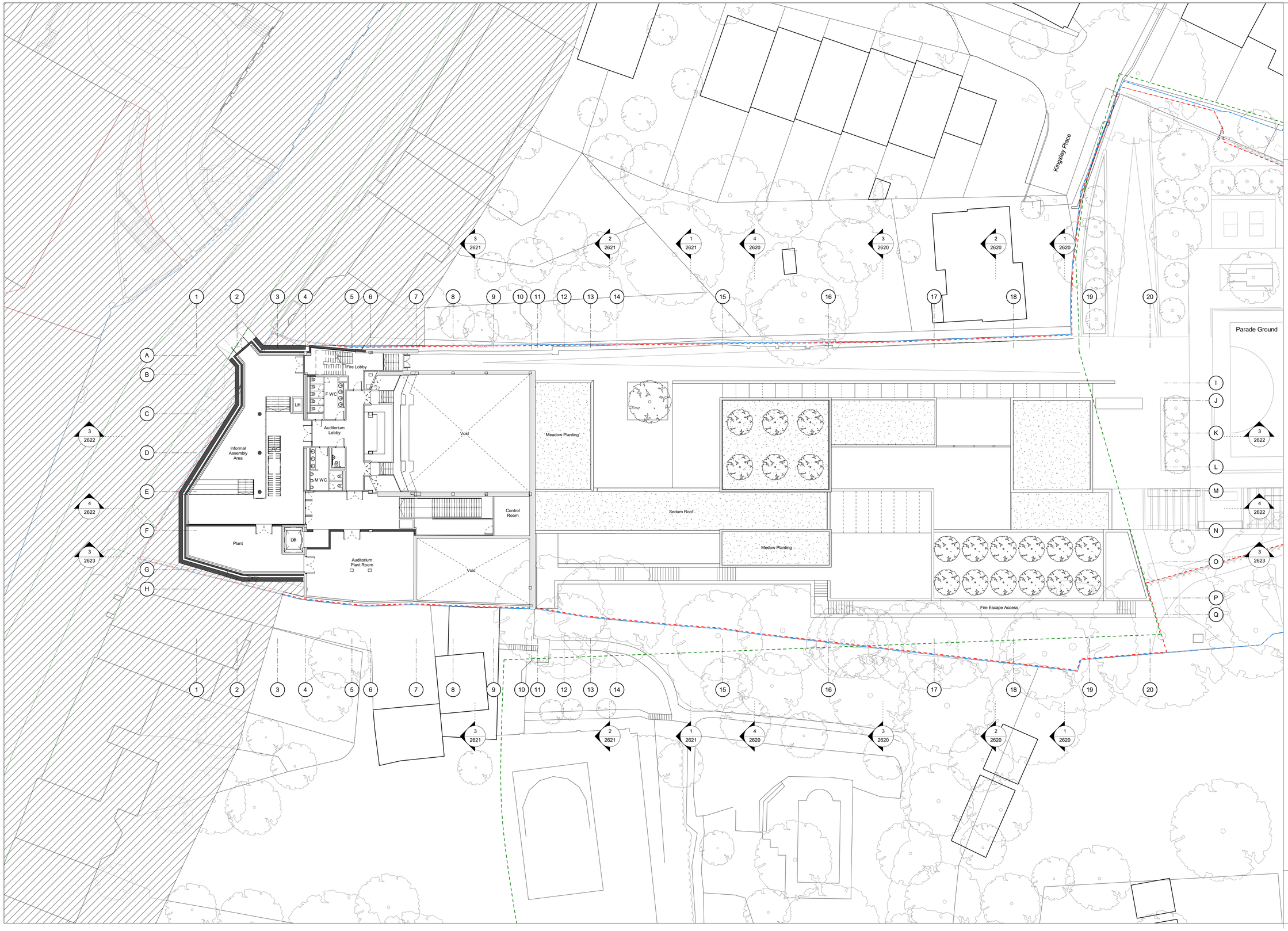
Subject: Dyne House - Level -02
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2423	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating. 'S' denotes smoke seal)

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

-01

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Level -01
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2424	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number / Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating. 'x' denotes smoke seal)

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

Southwood Lane

Kingsley Place

Parade Ground

Planting

LV Switch Room

STR 01

Lobby

ST

ST

R

Planting Boundary

Void

Rooflight

Sixth Form Common Room

External Paved Terrace

Off

IT Patch Panel Rm

Lobby

Cafe / Food Court

STR 02

Planting

Fire Escape Access

00

DRAFT PLANNING

Scale at 1:200

0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3

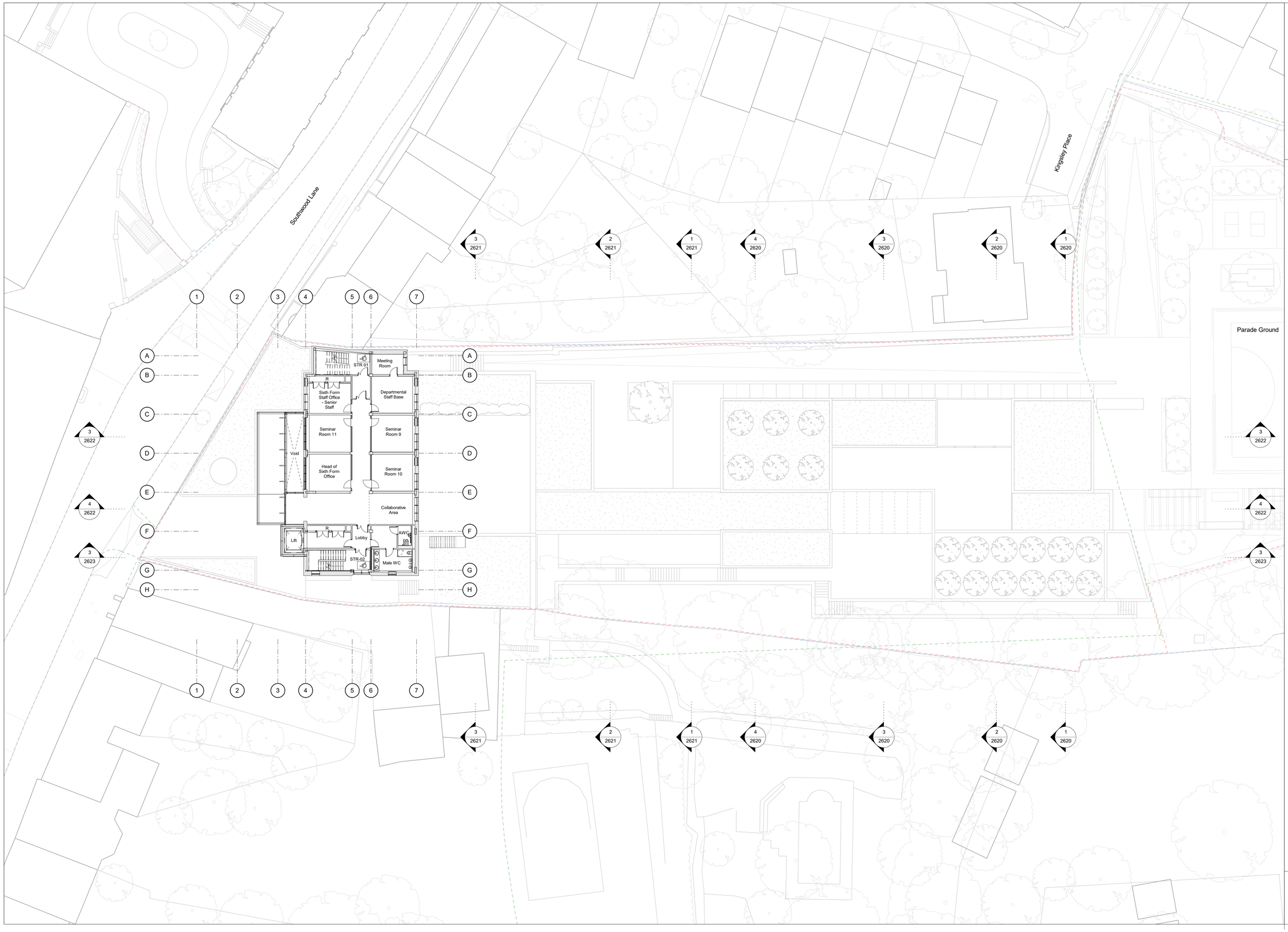
Subject: Dyne House - Level 00
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2425	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

01

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

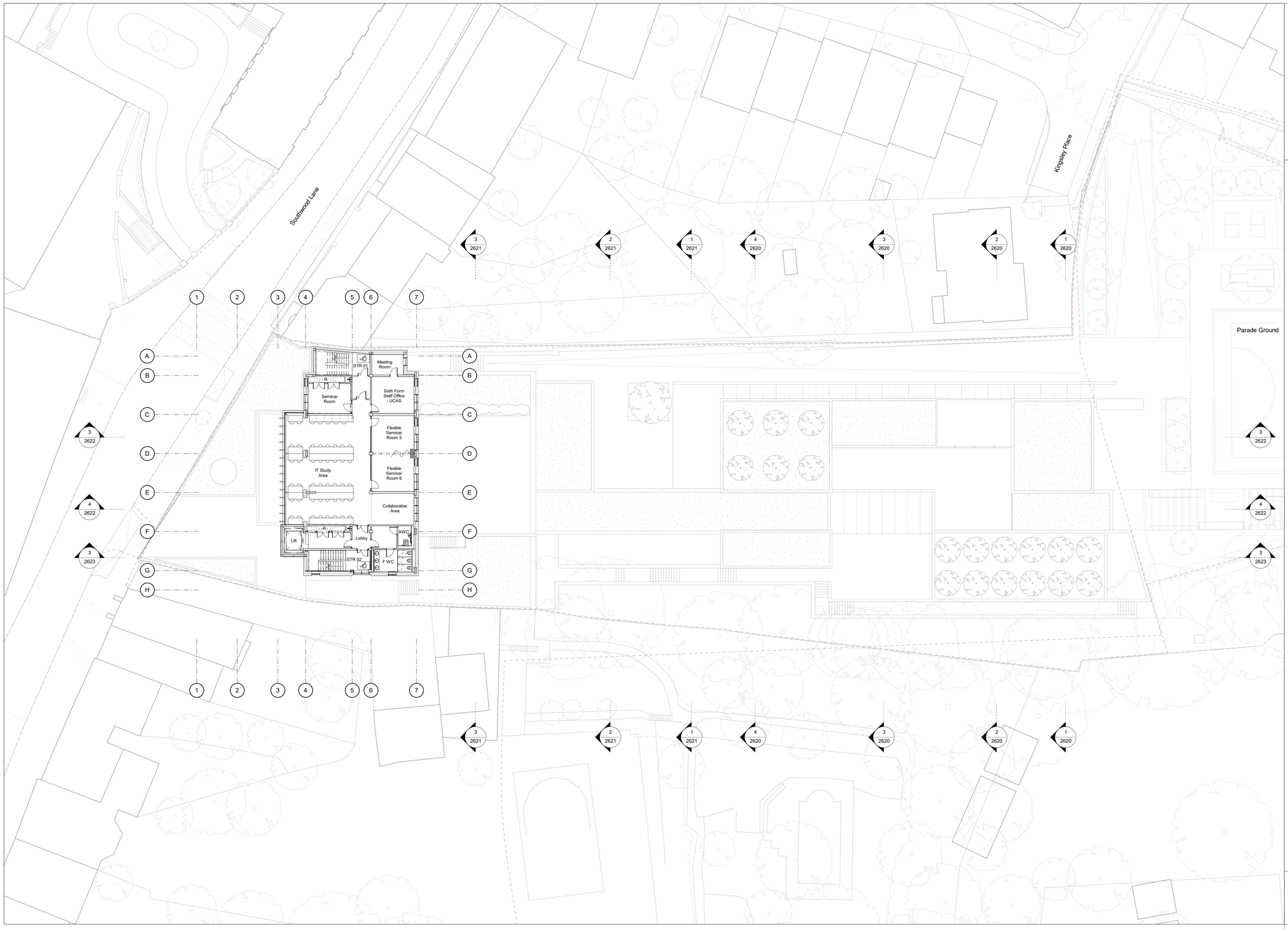
Project: Highgate School Dyne House 3
Subject: Dyne House - Level 01
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2426**	**H**

Date: 21/09/18 Scale: 1 : 200 at A1

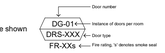
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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

02

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

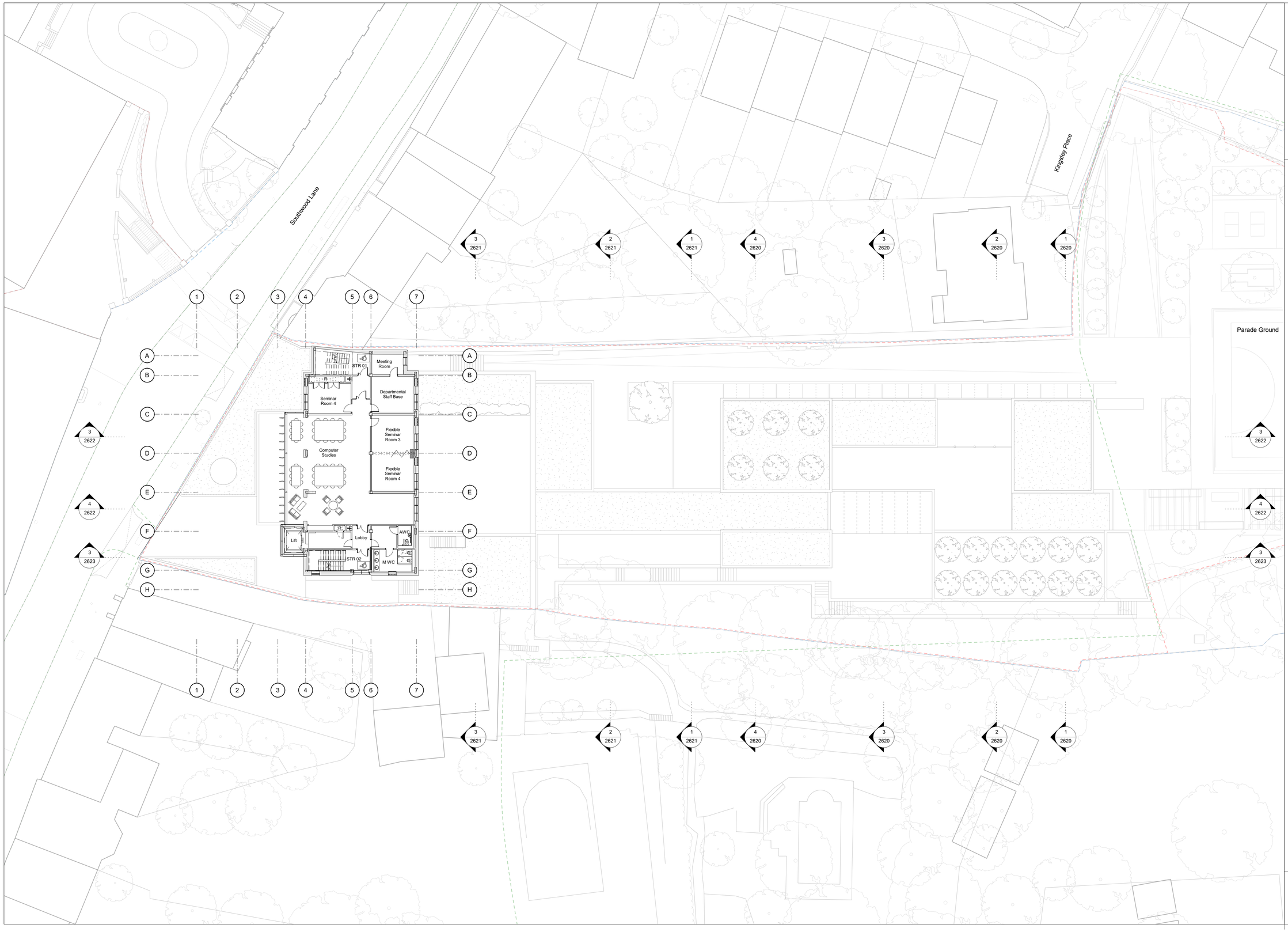
Project: Highgate School Dyne House 3
Subject: Dyne House - Level 02
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2427	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) DRS-XXX (Door type) FR-XXs (Fire rating, 's' denotes smoke seal)

G3 Abbreviatons:

GN/AWC: Gender Neutral / Accessible WC
CS: Cleaner's Store
PH: Printer hub
ST: Store
RWP: Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

03

DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	E	Memo 0006 Stage 2 Issue	JG
11.07.2019	F	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

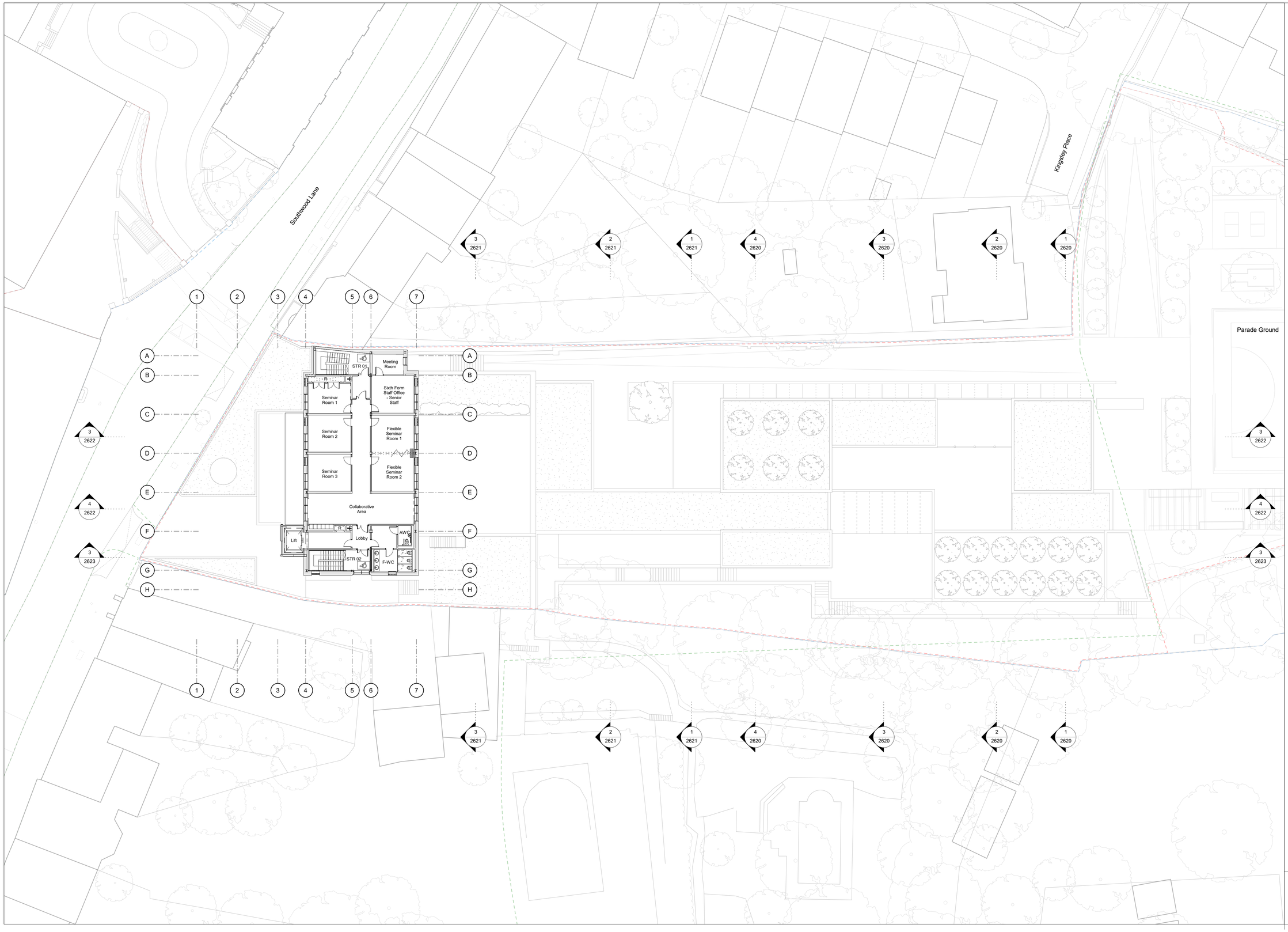
Project: Highgate School Dyne House 3
Subject: Dyne House - Level 03
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2428	F

Date: 21/09/18 Scale: 1 : 200 at A1

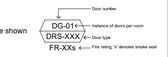
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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

Room Key:

SP	Small Practice Room
EP	Ensemble Practice Room
AWC	Accessible WC's
F.WC	Female WC's
M.WC	Male WC's
CS	Cleaners Store
R	Riser

04

DRAFT PLANNING

Scale at 1:200

0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
08.08.2018	E	Memo 0005_Stage 2 Costing Issue	JG
24.08.2018	F	Draft Issue_GA Plan Updates	JG
21.09.2018	G	Memo 0006 Stage 2 Issue	JG
11.07.2019	H	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3

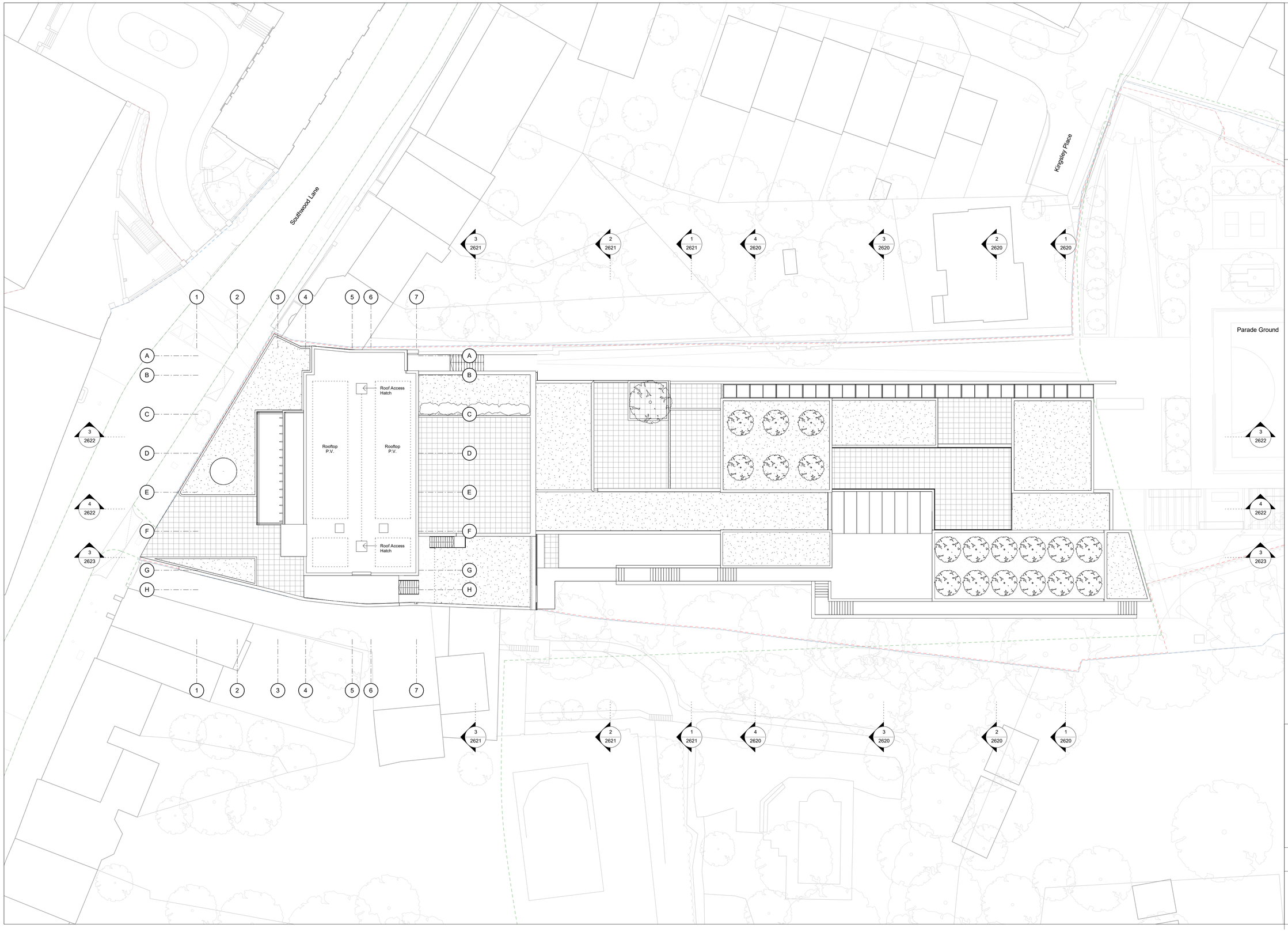
Subject: Dyne House - Level 04
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	2429	H

Date: 21/09/18 Scale: 1 : 200 at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus: DG-01 / DRS-XXX / FR-XXs
DG-01: Instance of doors per room; DRS-XXX: Door type; FR-XXs: Fire rating, 'x' denotes smoke seal

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Structural information shown indicitively, refer to structural engineer's drawings for further information.

Property Boundary

Development Boundary

Open Space Allocation Boundary

RF

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Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	E	Memo 0006 Stage 2 Issue	JG
11.07.2019	F	Draft Planning Issue to Client	JW

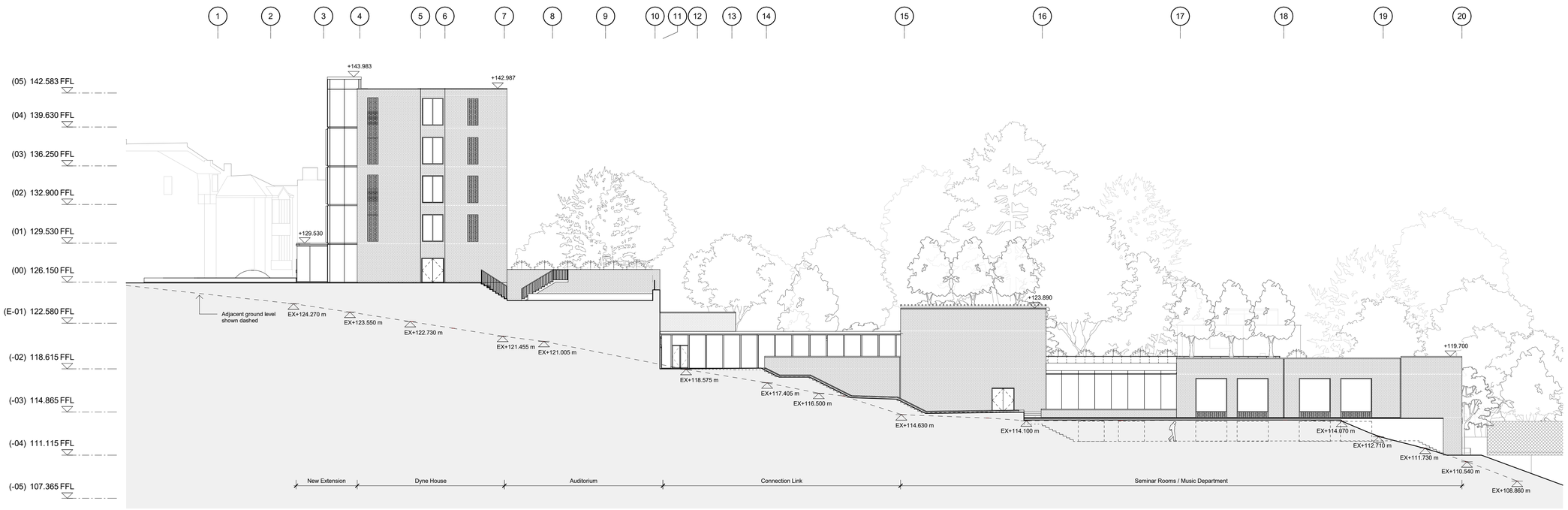
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Roof Level Proposed GA Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

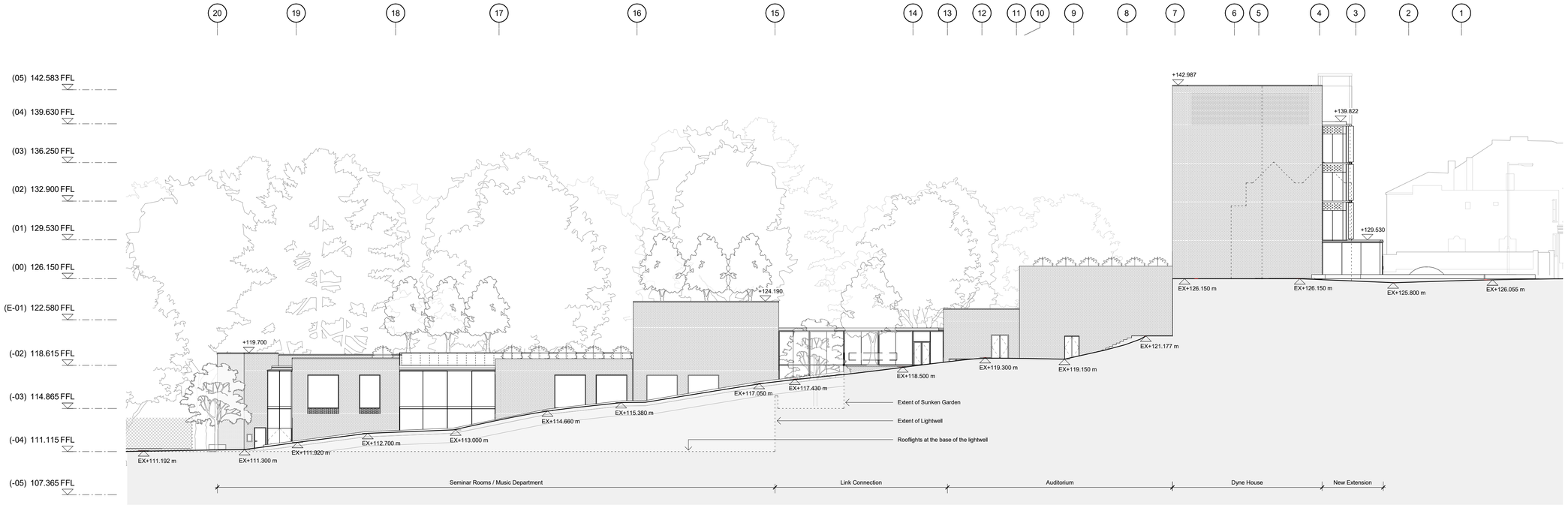
Sort Code	Drawing Number	Rev.
A/HS-DH3	2430	F

Date: 21/09/18 Scale: 1 : 200 at A1

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1 2520 **Dyne House - South Elevation**
1 : 200



2 2520 **Dyne House - North Elevation**
1 : 200

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New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



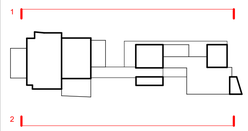
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CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

Notes:

- Topography and contextual information shown indicitively, refer to Ordinance Survey drawings for further information.

Spot height taken from OS information



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Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	E	Memo 0006 Stage 2 Issue	JG
11.07.2019	F	Draft Planning Issue to Client	JW

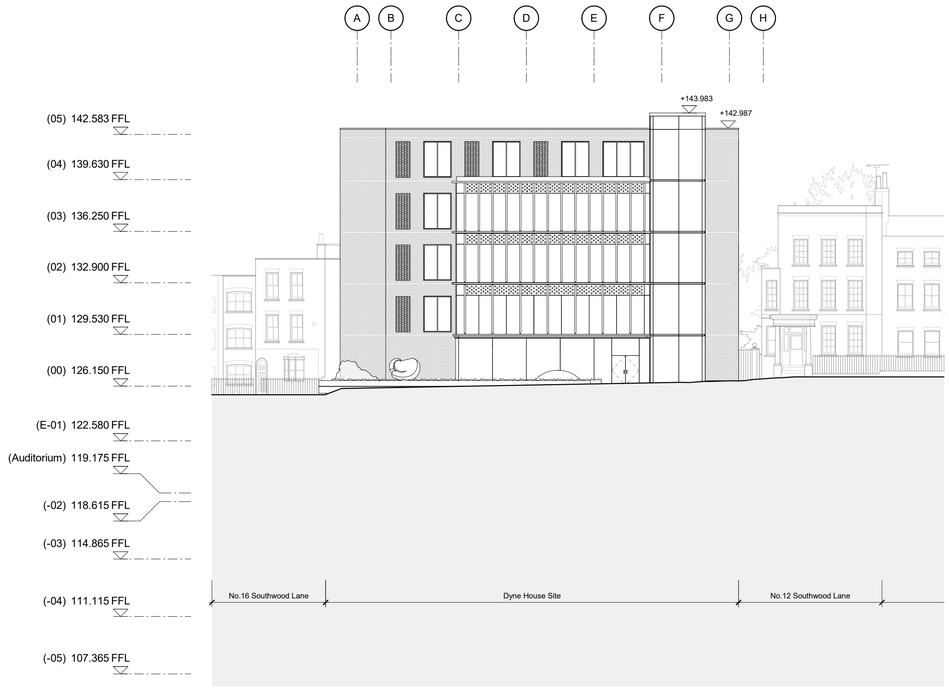
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - GA South and North Elevation Proposed Elevations
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

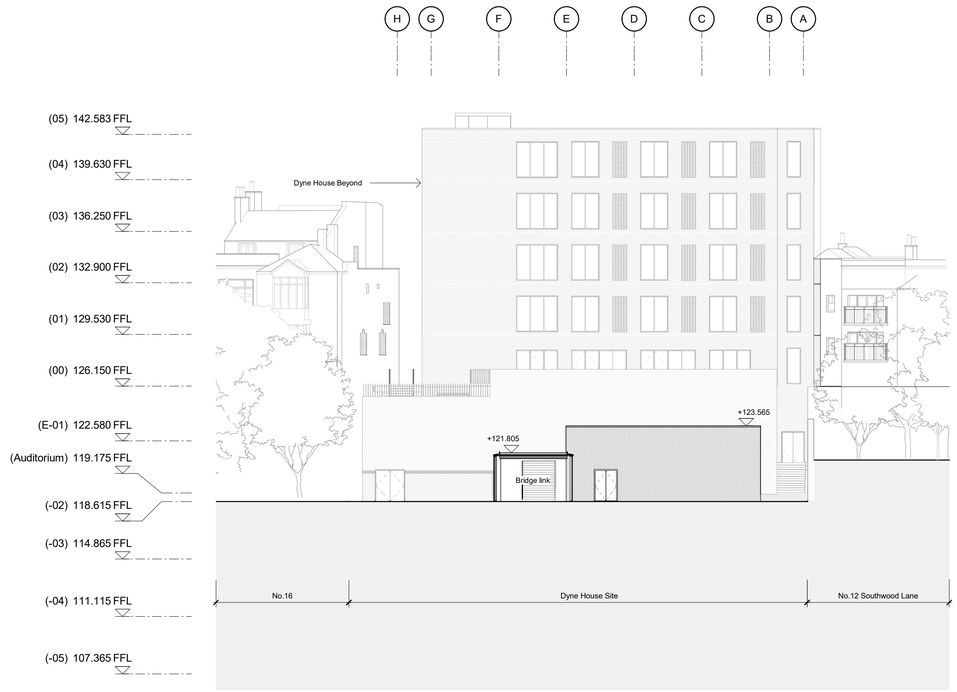
Sort Code	Drawing Number	Rev.
A/HS-DH3	**2520**	**F**

Date: 05/16/18 Scale: 1 : 200 at A1

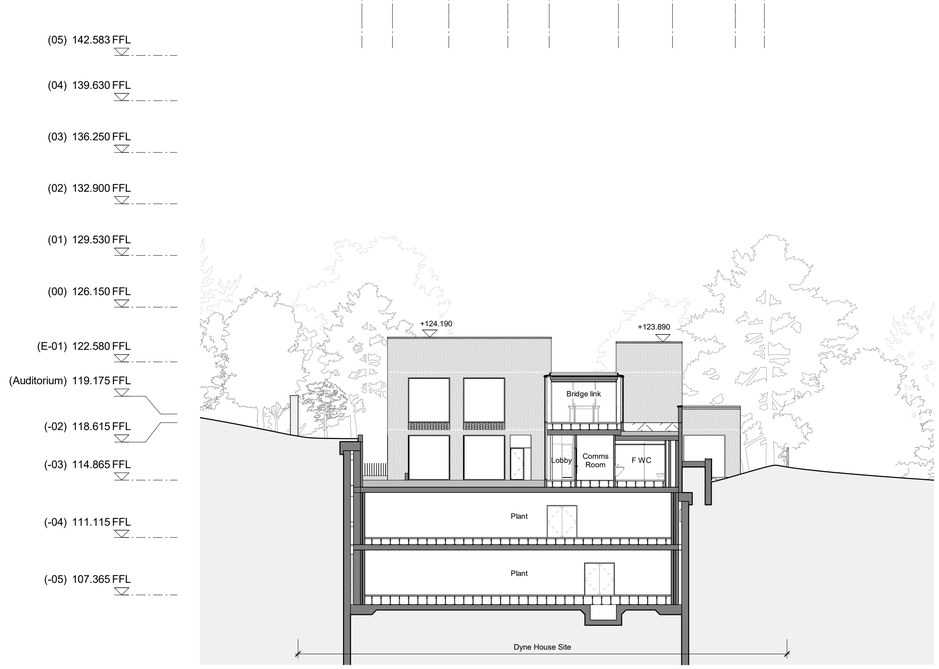
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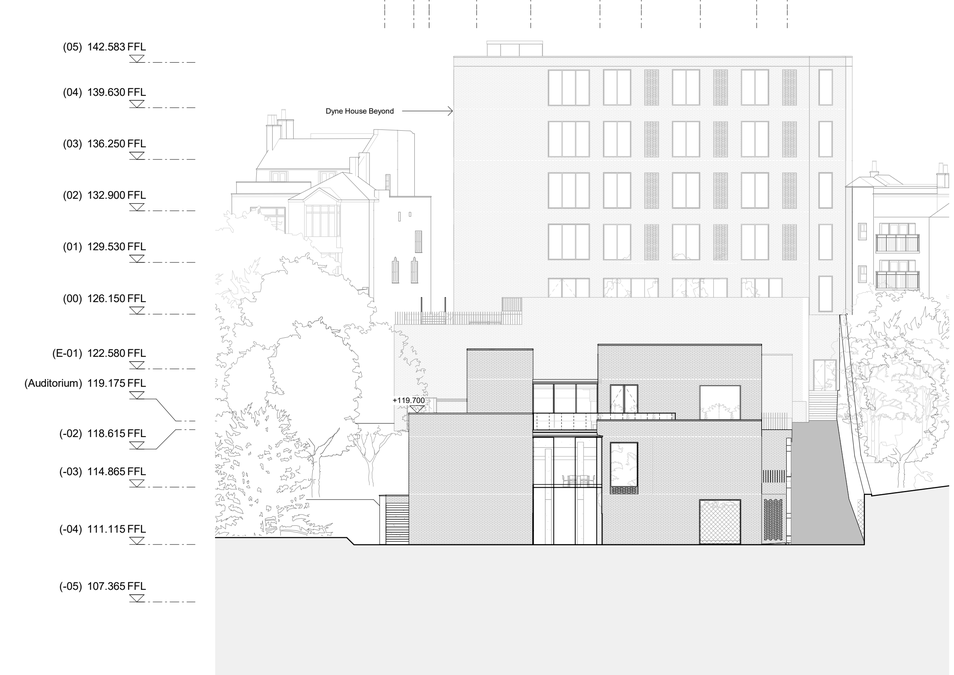
1 2521 **Dyne House - Front Elevation**
1 : 200



2 2521 **Dyne House - Back Elevation**
1 : 200



3 2521 **Lower Block - West Elevation**
1 : 200



4 2521 **Lower Block - East Elevation (Parade Ground)**
1 : 200

General Notes:

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Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



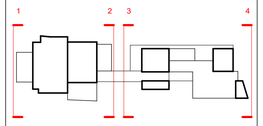
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Notes:

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Spot height taken from OS information



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Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

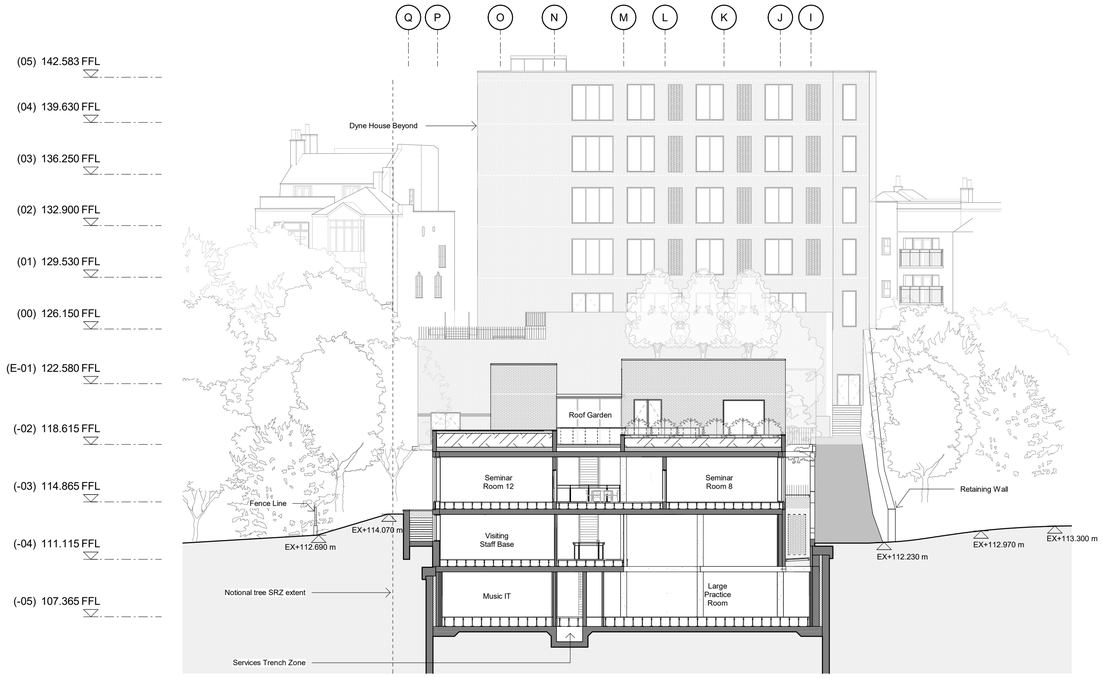
Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
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20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
21.09.2018	E	Memo 0006 Stage 2 Issue	JG
11.07.2019	F	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

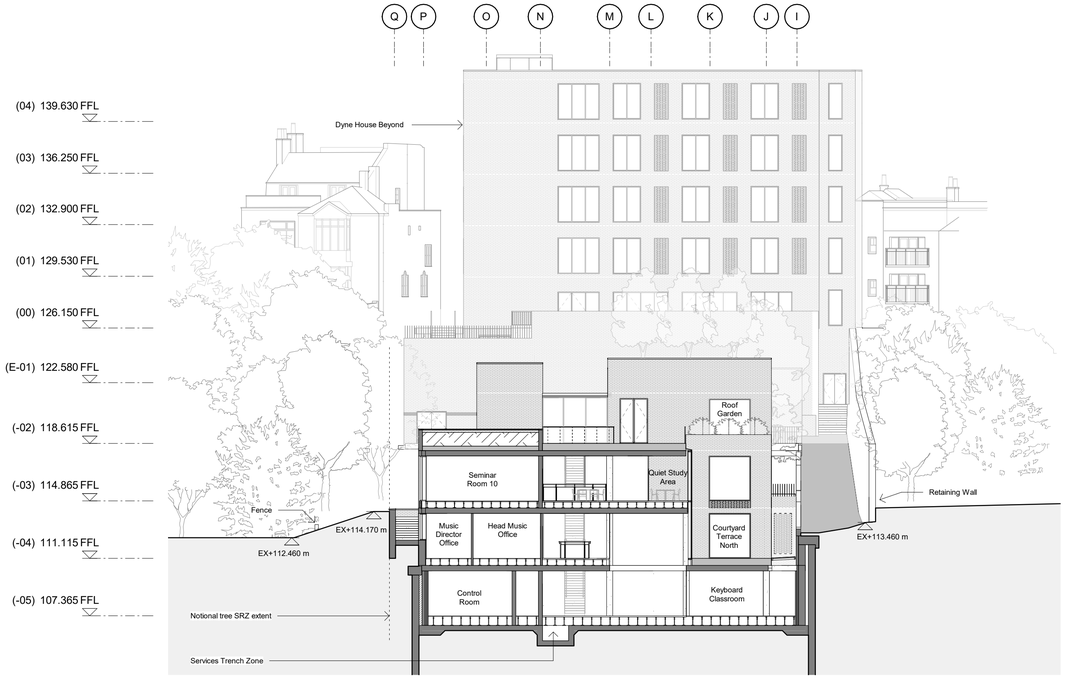
Project	Highgate School Dyne House 3
Subject	Dyne House - GA East and West Elevations Proposed Elevations
Architects	Hopkins Architects Limited 27 Broadley Terrace, London, NW1 6LG T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2521**	**F**
Date: 05/18/18	Scale: 1 : 200	at A1

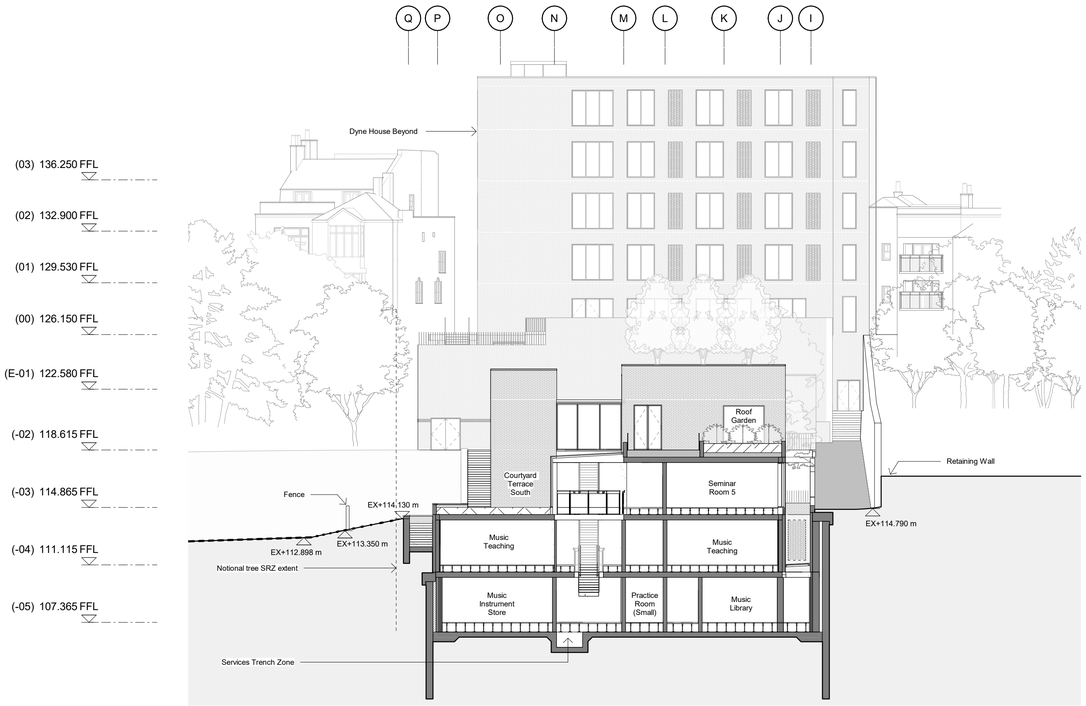
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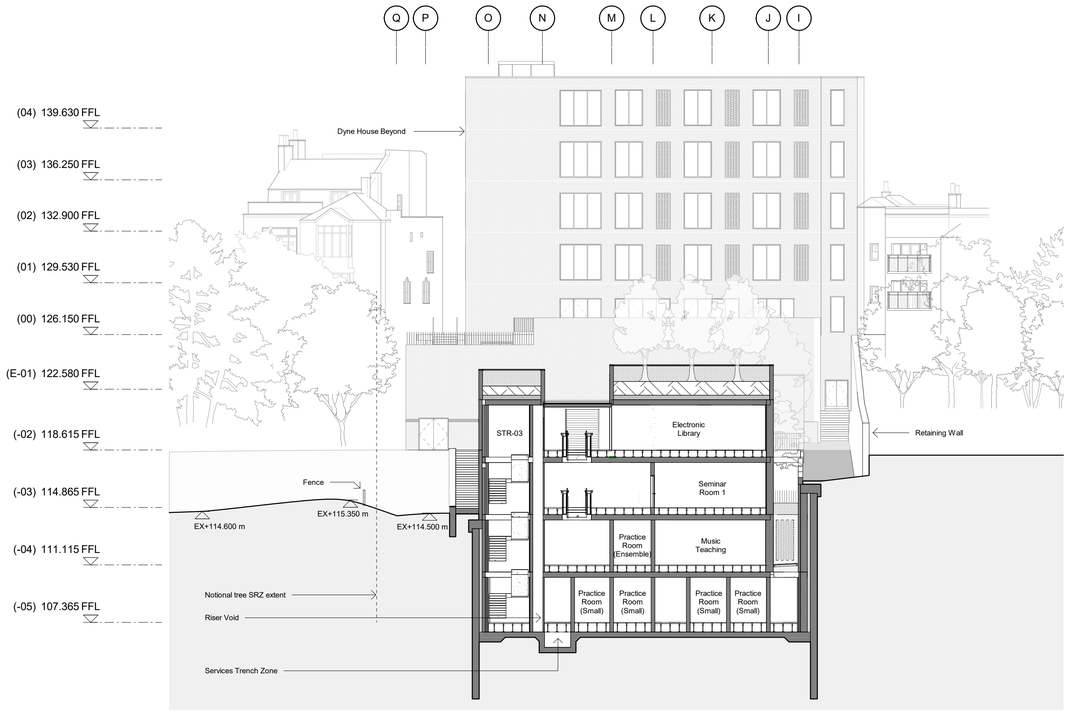
1 2620 **Cross Section through Large Practice Room**
1 : 200



2 2620 **Cross Section through North Courtyard**
1 : 200



3 2620 **Cross section through South Courtyard**
1 : 200



4 2620 **Cross Section through Escape Stair 3**
1 : 200

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Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:
Door number
DG-01 ← Instance of doors per room
DRS-XXX ← Door type
FR-XXs ← Fire rating. 'x' denotes smoke seal

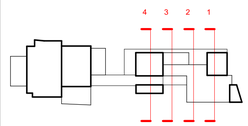
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Notes:

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Spot height taken from OS information



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Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
29.06.2018	B	Memo 0002_Update GA Progress Issue	JG
20.07.2018	C	Memo 0003_Draft Stage 2 Backgrounds Issue	JG
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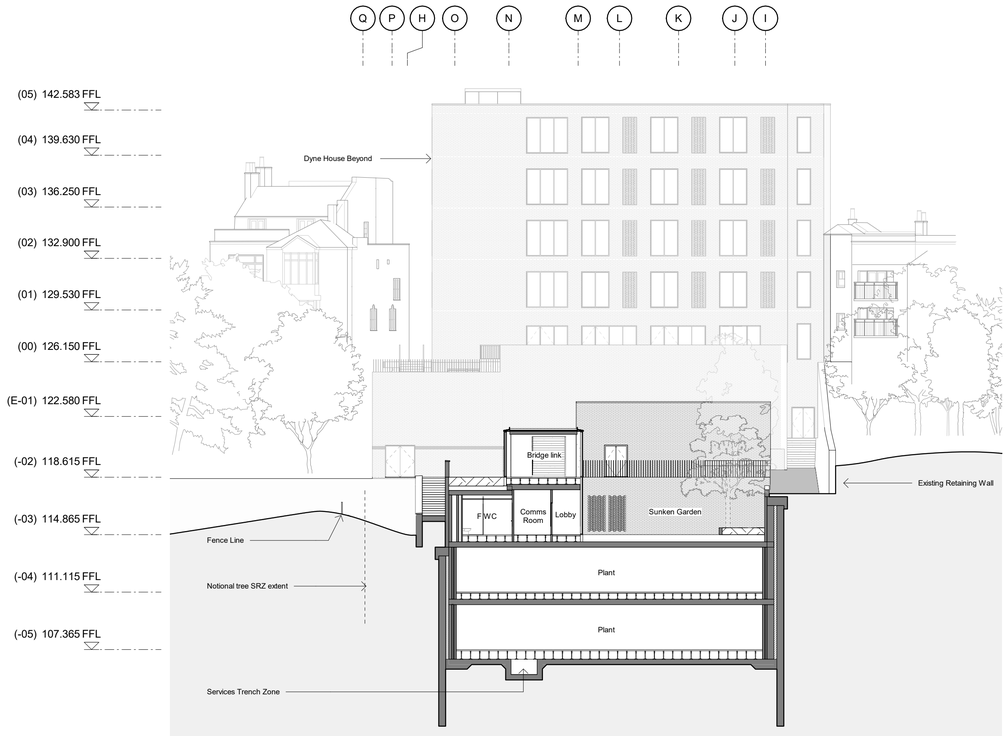
Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Cross Sections Proposed Sections
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

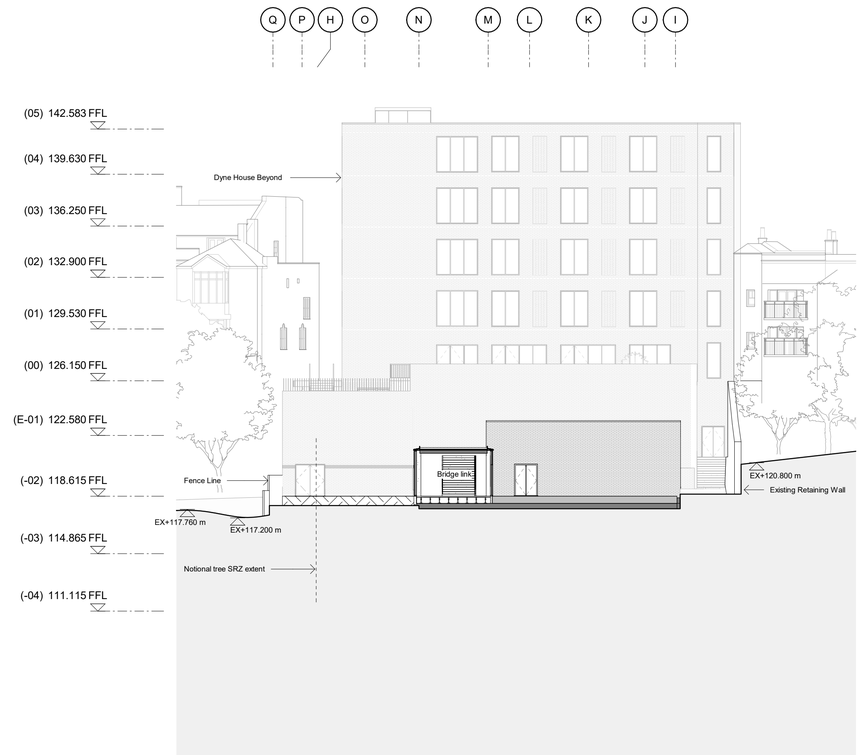
Sort Code	Drawing Number	Rev.
A/HS-DH3	2620	F

Date: 07/16/18 Scale: 1 : 200 at A1

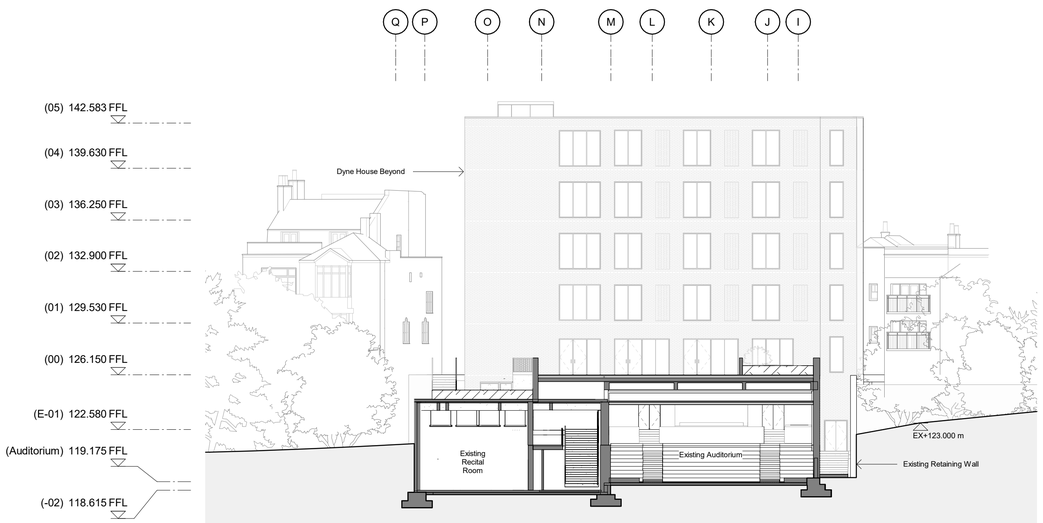
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1 2621 **Cross section through sunken garden**
1 : 200



2 2621 **Cross section through bridge**
1 : 200



3 2621 **Section through existing auditorium**
1 : 200

General Notes:

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Existing Levels are shown: EX+20.345

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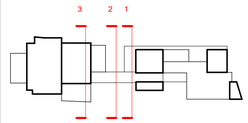
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ST:	Store
RWP:	Rain water pipe

Notes:

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Spot height taken from OS information



DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
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11.07.2019	F	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

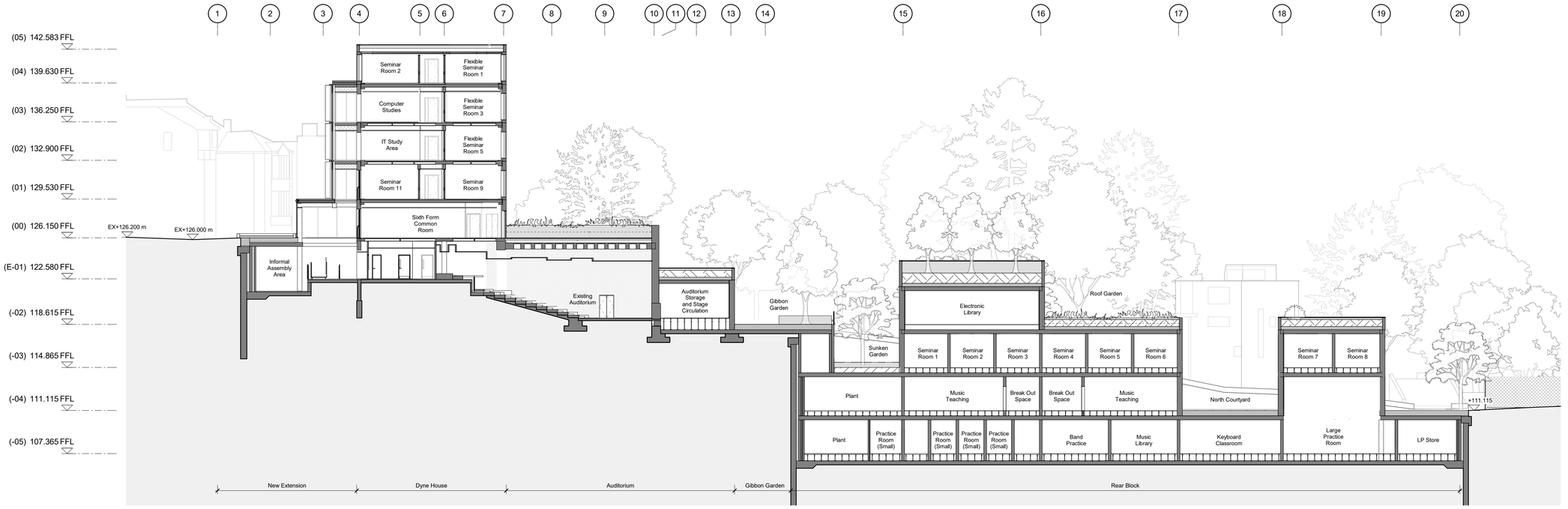
Project: Highgate School Dyne House 3
Subject: Dyne House - Cross Sections
Proposed Sections

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

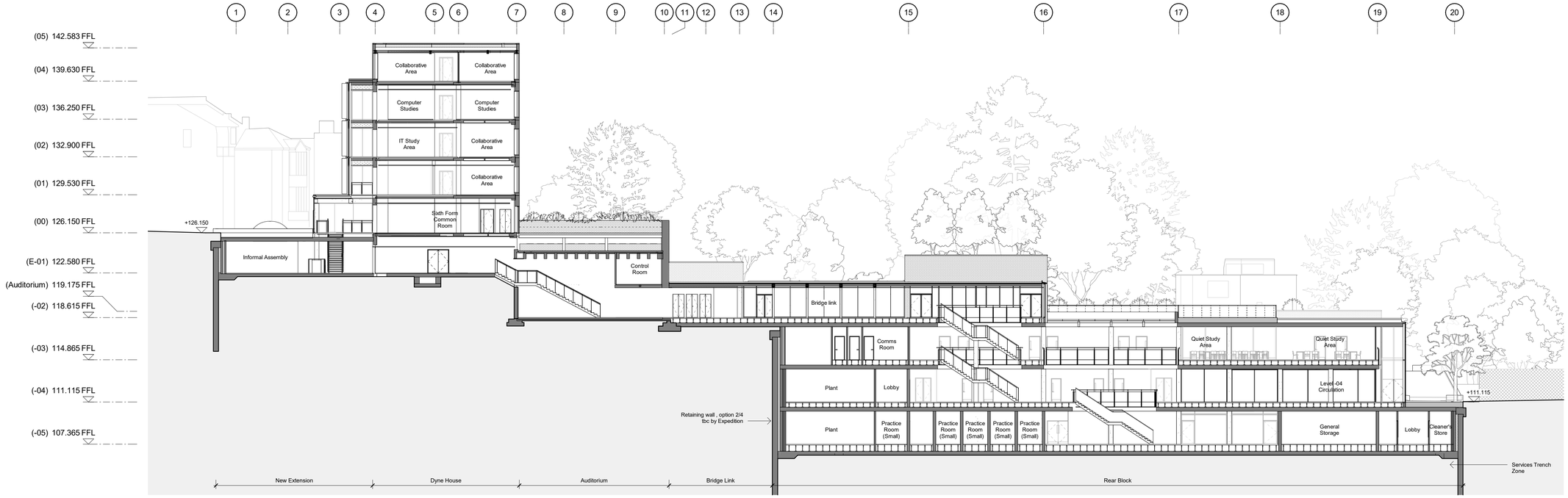
Sort Code	Drawing Number	Rev.
A/HS-DH3	**2621**	**F**

Date: 07/17/18 Scale: 1 : 200 at A1

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3 2622 **Long Section through Auditorium**
1 : 200



4 2622 **Long Section through Circulation Route**
1 : 200

General Notes:

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G2 Door tags are shown thus: DG-01 / DRS-XXX / FR-XXs
Door number
Instance of doors per room
Door type
Fire rating. 's' denotes smoke seal

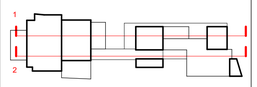
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Notes:

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Spot height taken from OS information



DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
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21.09.2018	E	Memo 0006 Stage 2 Issue	JG
11.07.2019	F	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Long Sections
Proposed Sections

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2622**	**F**

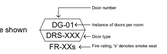
Date: 10/18/16 Scale: 1 : 200 at A1

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Existing Levels are shown: EX+20.345

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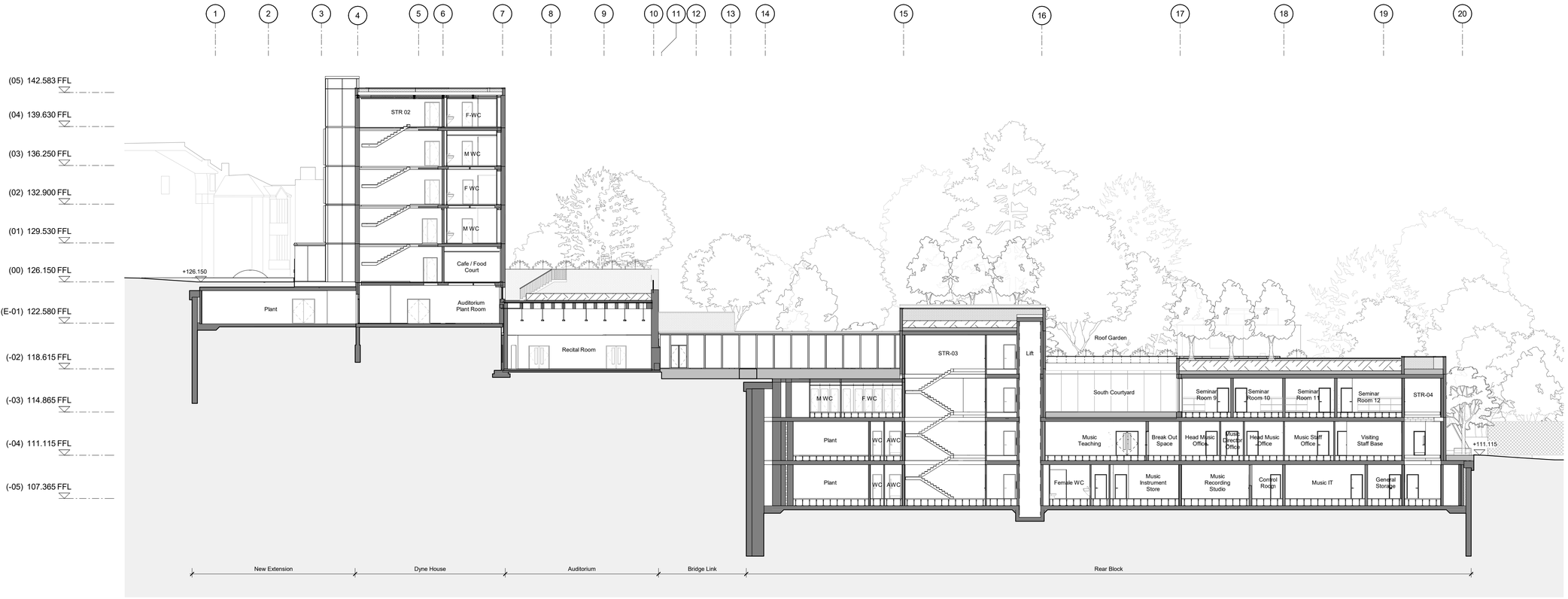
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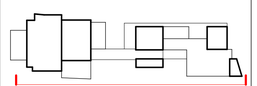
Notes:

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Spot height taken from OS information



3 2623 **Long Section through Plant Rooms**
1 : 200



DRAFT PLANNING

Scale at 1:200
0 1 2 5 10m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

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31.05.2018	A	Memo 0001 Draft GA Issue for Interim Cost Check	JG
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27.07.2018	D	Memo 0004_Stage 2 Backgrounds and Costing Issue	JG
11.07.2019	E	Draft Planning Issue to Client	JW

Date	Rev.	Description	Approved By

Project: Highgate School Dyne House 3
Subject: Dyne House - Long Sections
Proposed Sections

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-DH3	**2623**	**E**

Date: 05/25/18 Scale: 1 : 200 at A1

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Indicative location of Thames Water sewer

Retaining walls:
- North wall 460D sheet piles with 450thk liner wall and 1200Wx800D capping beam.
- Other walls 460D sheet piles with 950Wx800D capping beam.
Slopping capping beam follows slope of adjacent ground.

Note on sheet pile retaining walls to rear block:
- Where retaining wall is more than two storey deep, sheet piles will need to be welded on site to reach require lengths.
- Appropriate aid to installation of sheet piles will need to be considered by contractor (e.g. pre-boring, jetting).

Shear wall with openings for doors

Roof light from above

Additional piles in this zone to break down large spans.

350mm thk RC slab

Approach to be developed for these columns

300mm thick RC lift pit under

Basement slab, columns and walls supported on 450 dia CFA piles. Allow 4 no piles per column and additional piles and caps in areas indicated. Slab spans to be halved with intermediate 450dia tension piles between columns to deal with uplift. Allow for 15m lg piles.

Refer to Architectural Information for heights of the retaining walls and the level of the capping beam

Note: No presence of significant tree roots found during pit trench investigation 10th July 2018

Level -5

Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes
1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

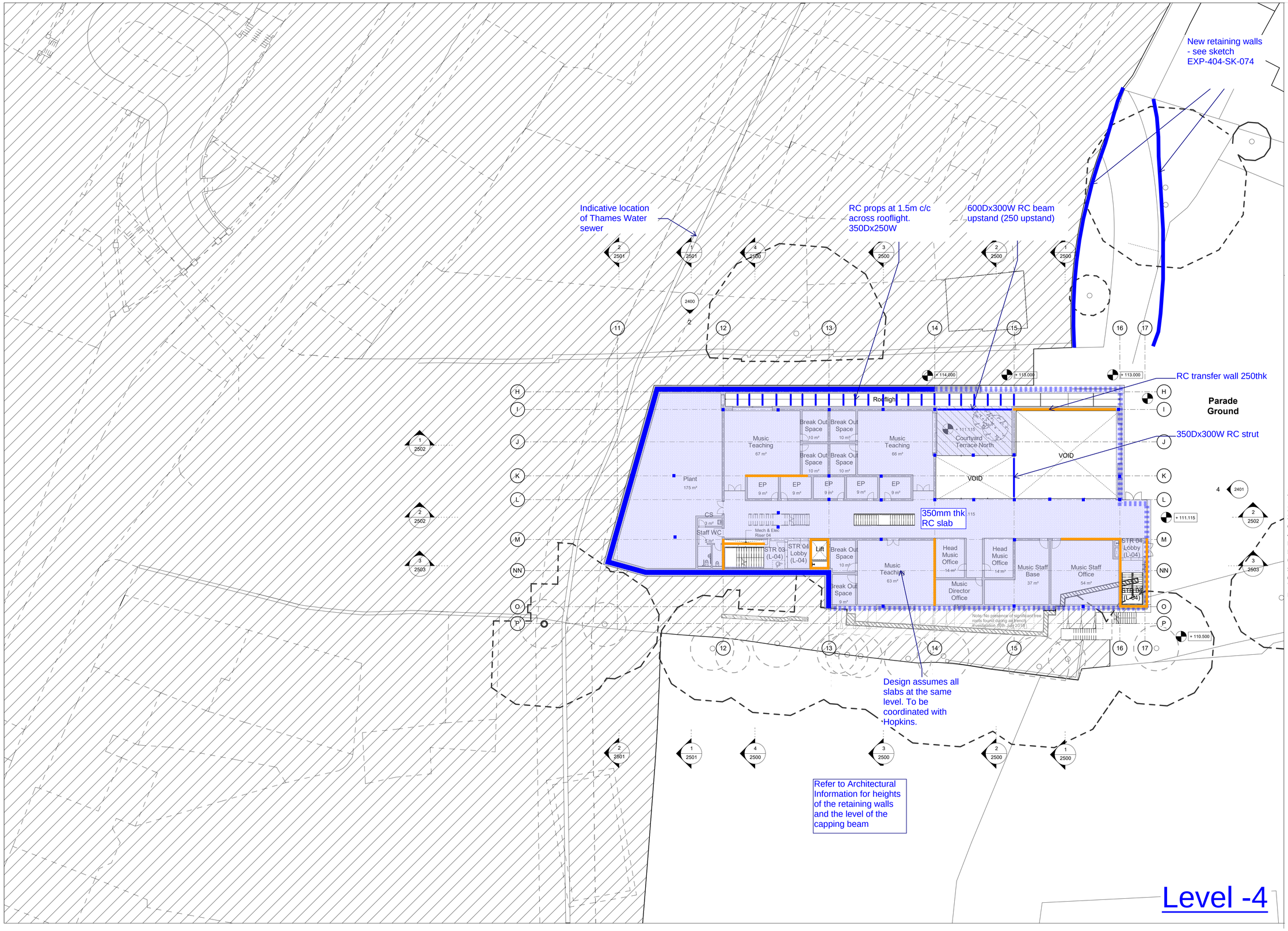
STAGE 2

Title: GA - Structures: Level -5

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-11 Date: 19/10/18 By: JG/CT

expedition



Level -4

STAGE 2

Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

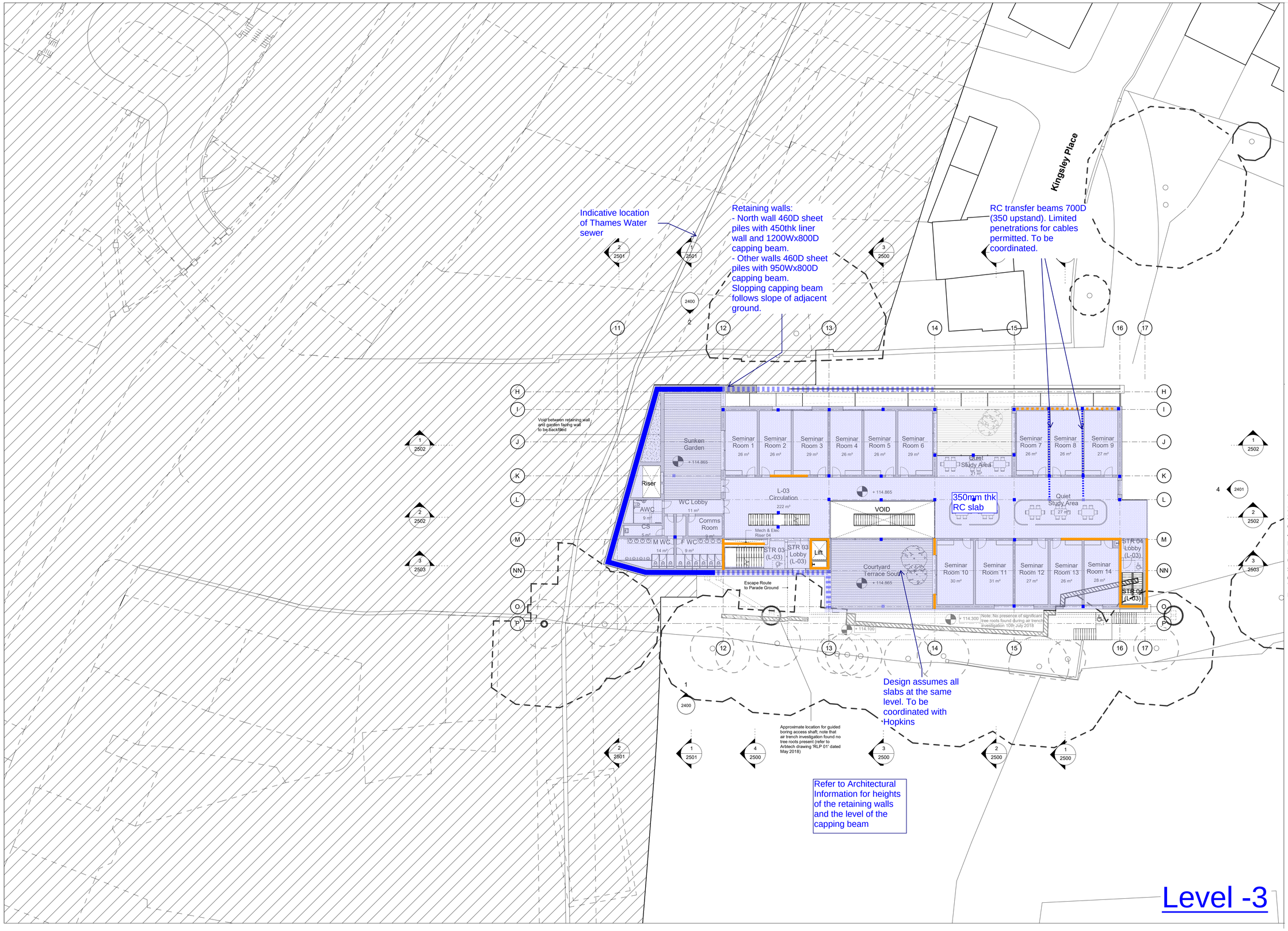
1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

Title: GA - Structures: Level -4

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-12 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

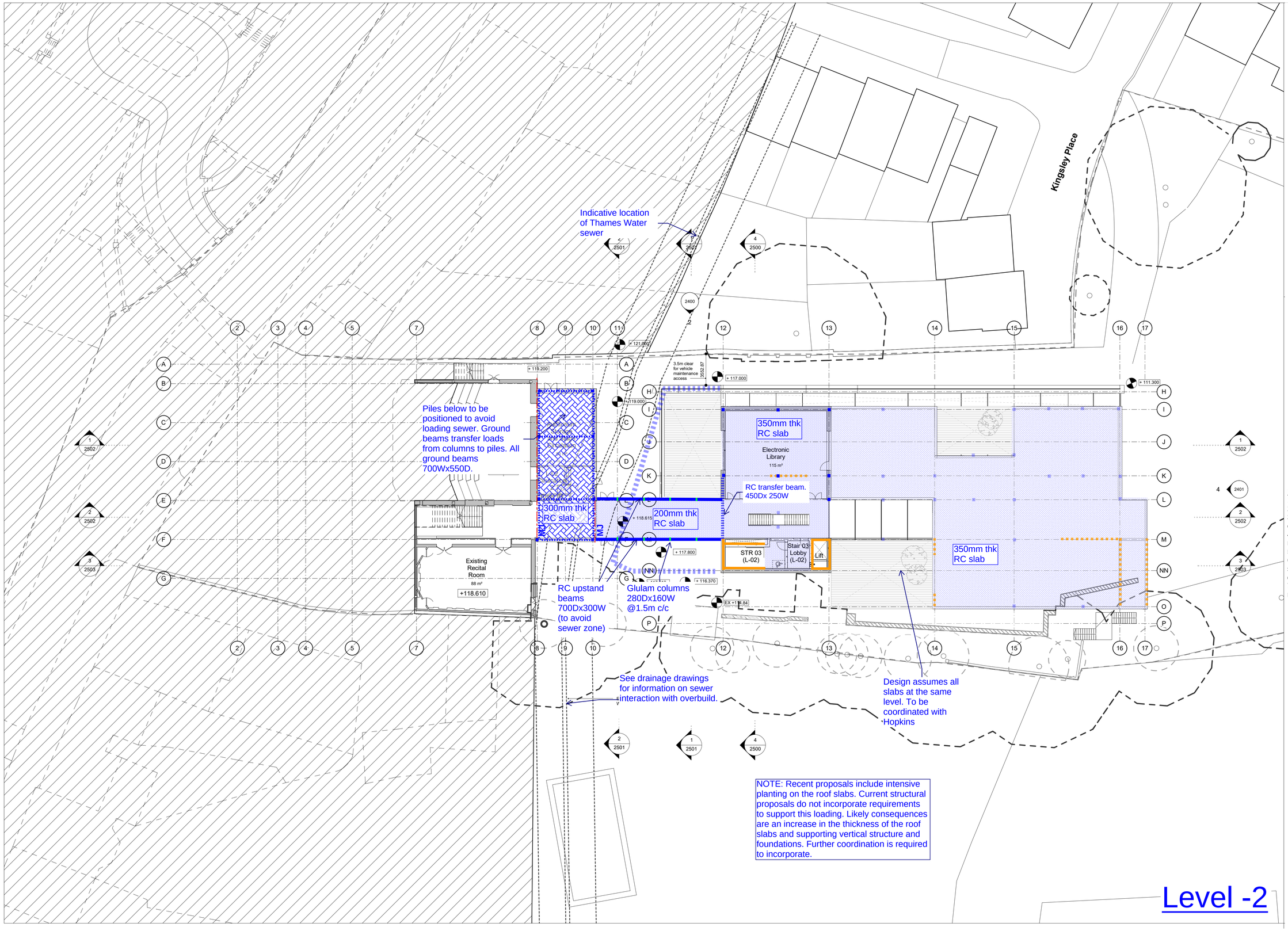
STAGE 2

Title: GA - Structures: Level -3

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-13 Date: 19/10/18 By: JG/CT

expedition



Level -2

Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

STAGE 2

Title: GA - Structures: Level -2

Job: Highgate School Dyne House

Job No.: 404

Sketch No.: EXP-SK-14

Date: 19/10/18

By: JG/CT

expedition

Sheet piled retaining wall installed behind existing link tunnel wall to form new basment wall.

Existing tunnel concrete retaining wall will require propping when tunnel roof is removed. Existing wall to be extended up to meet proposed slab level

Architect to detail movement joint in finishes at interface between existing and new basement

450W 1500D underpinning under whole length of existing west retaining wall.

New in-situ RC wall with pilecap and piles under. Allow for 4No. tension piles 450dia. 15m long.

Connection between existing tunnel and new retaining wall to be developed with specialist contractor's input

Note: construction outside site boundary. Will likely require diversion of existing services.

460mm sheet pile wall with 300mm liner wall. 1150Wx800D capping beam.

New RC columns with new pad foundations under

250mm in-situ low level RC retaining wall

Stability provided by portal frame action.

Glulam beams and columns 280Dx160W @ 1.5m c/c supporting glazed roof

New retaining wall goes through pad foundations to adjacent existing masonry retaining wall. Allow for partial demolition of existing pad foundations. Allow for works to make good existing retaining wall to cover for possible damage during demolition of pads.

Lift pit below basement slab. Allow for 250 mm thk RC walls. Depth of pit to be confirmed by architect.

New openings in existing retaining wall. Allow for steel beams to form lintels above.

NOTES:
1. Allow for removal of existing oil tank to form front basement.
2. Temporary stability works will be required to maintain the stability of the existing building during construction unless the proposed stability elements are installed prior to the removal of the existing stability elements.
3. Propped construction assumed for the sheet pile wall in the front extension.

Kingsley Place

Parade Ground

Existing Thames Water Sewer

Level -1

STAGE 2

Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

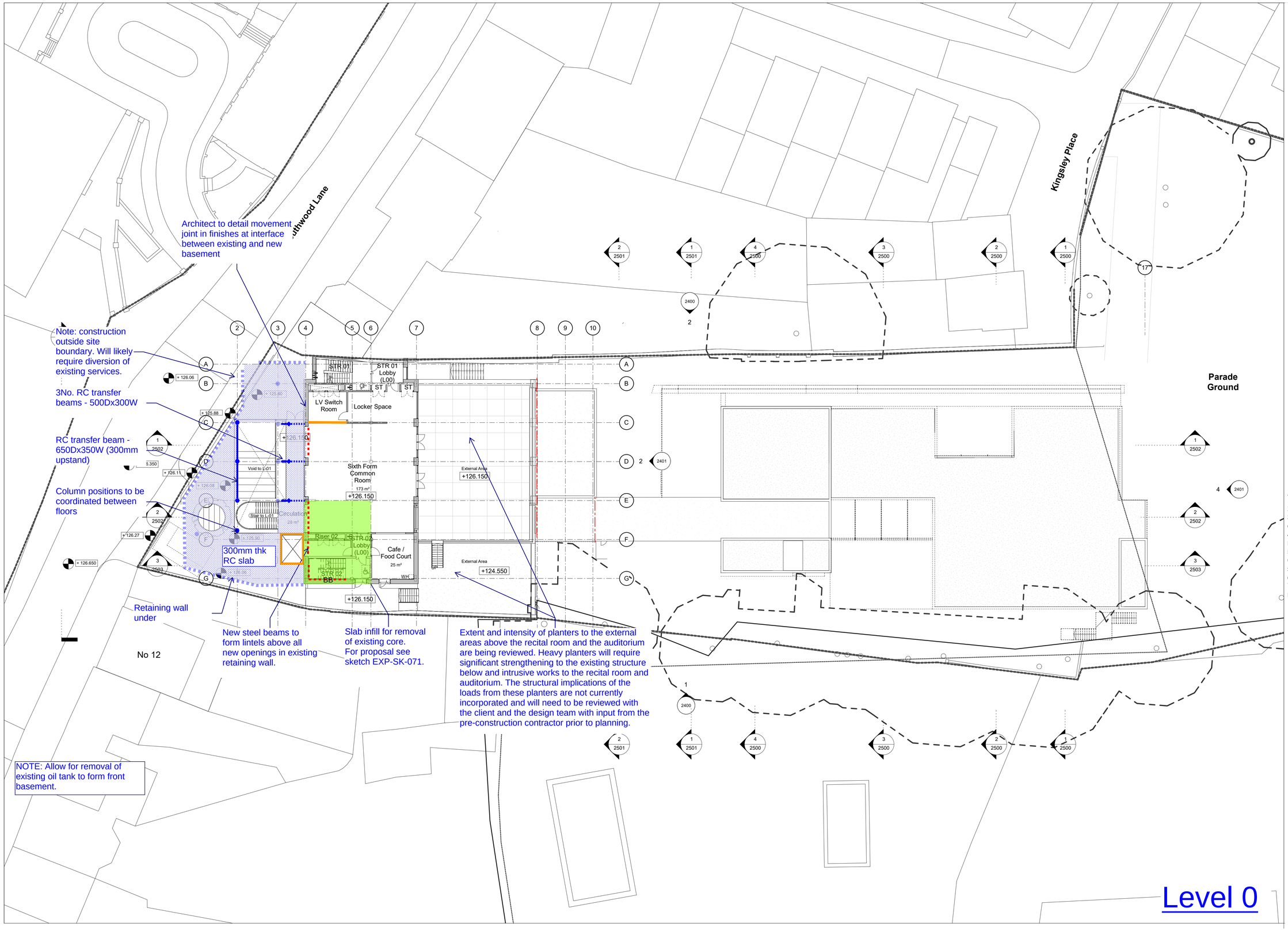
Notes
1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

Title: GA - Structures: Level -1

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-15 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

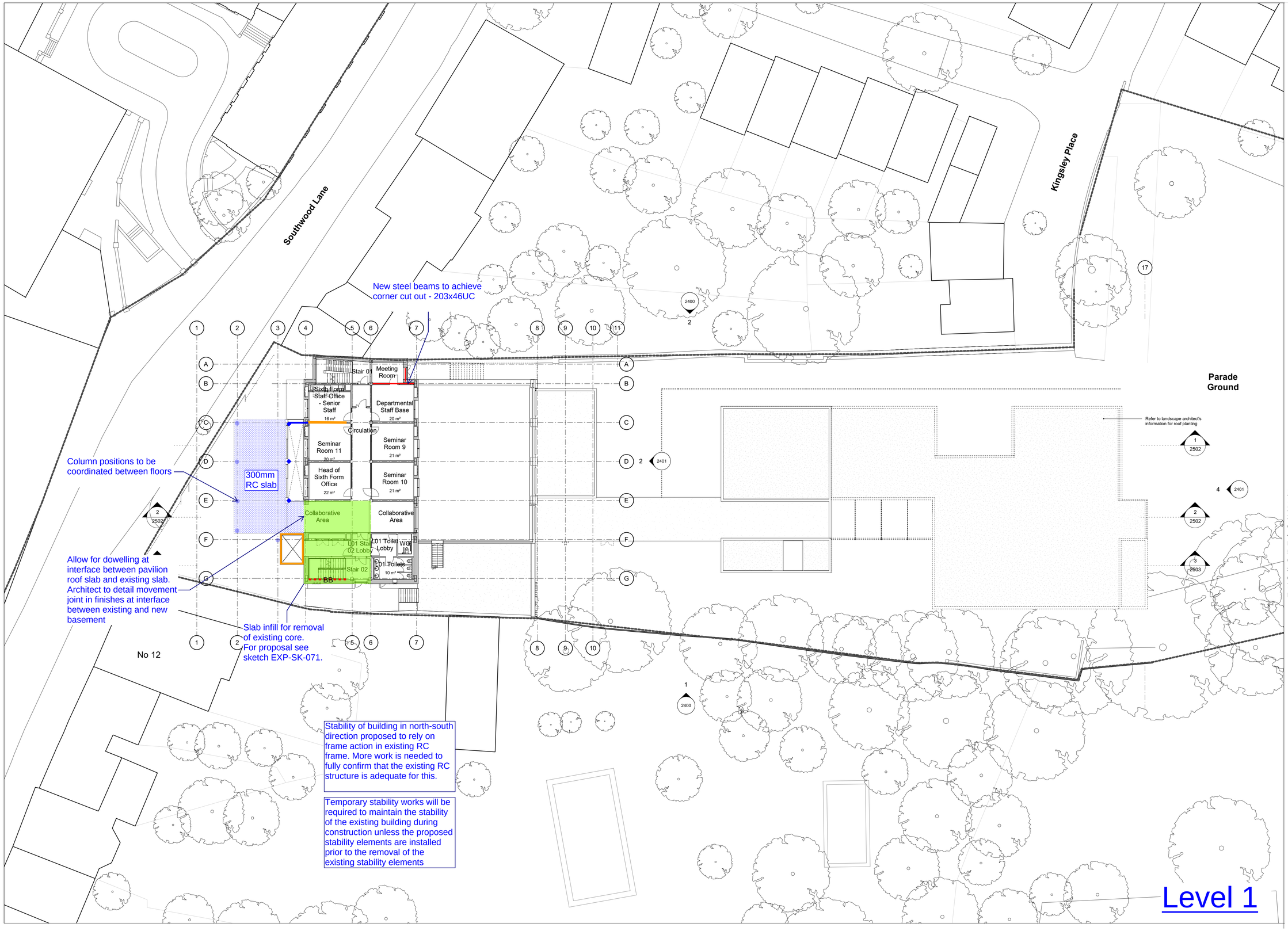
STAGE 2

Title: GA - Structures: Level 0

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-16 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
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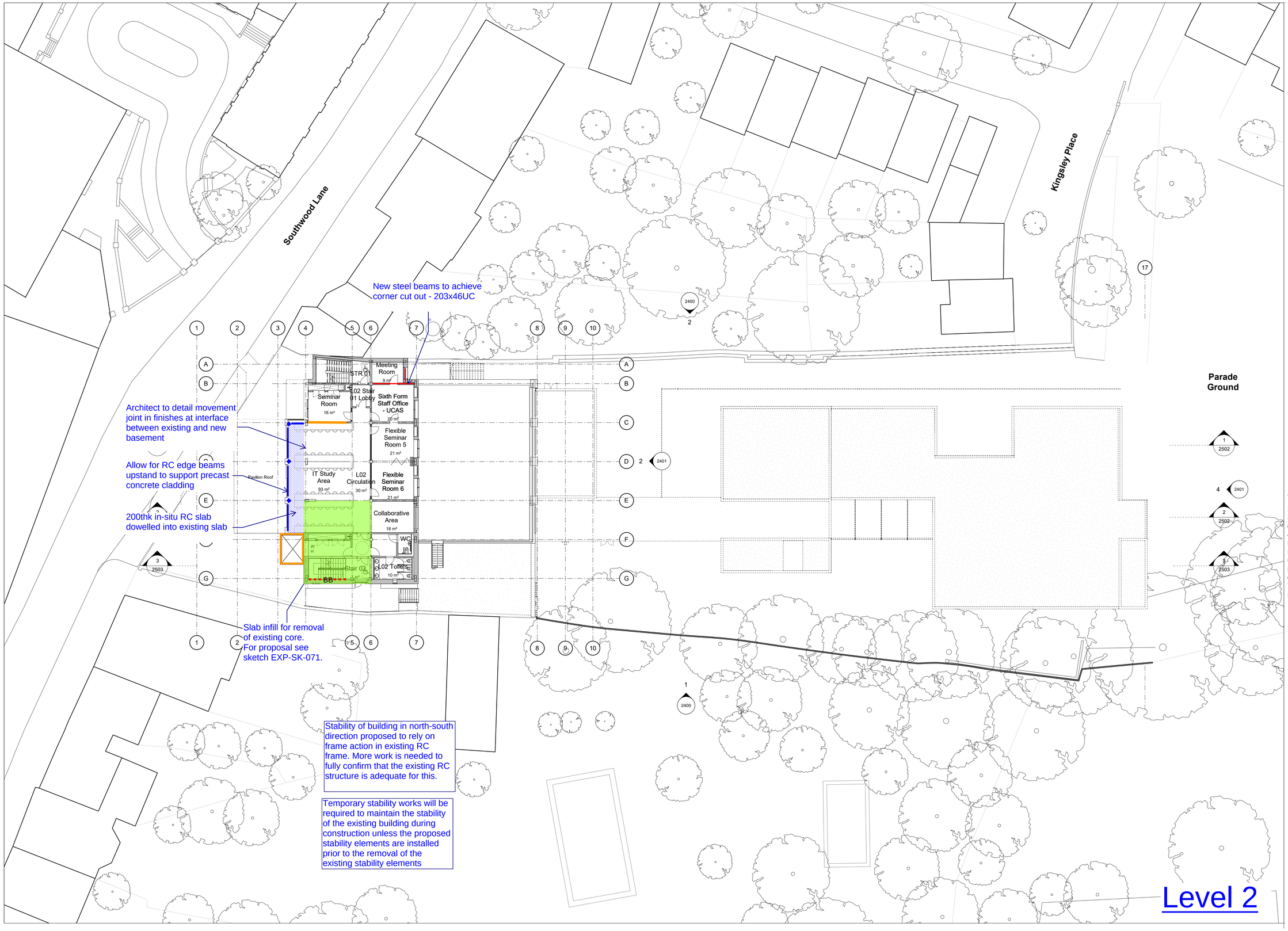
STAGE 2

Title: GA - Structures: Level 1

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-17 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

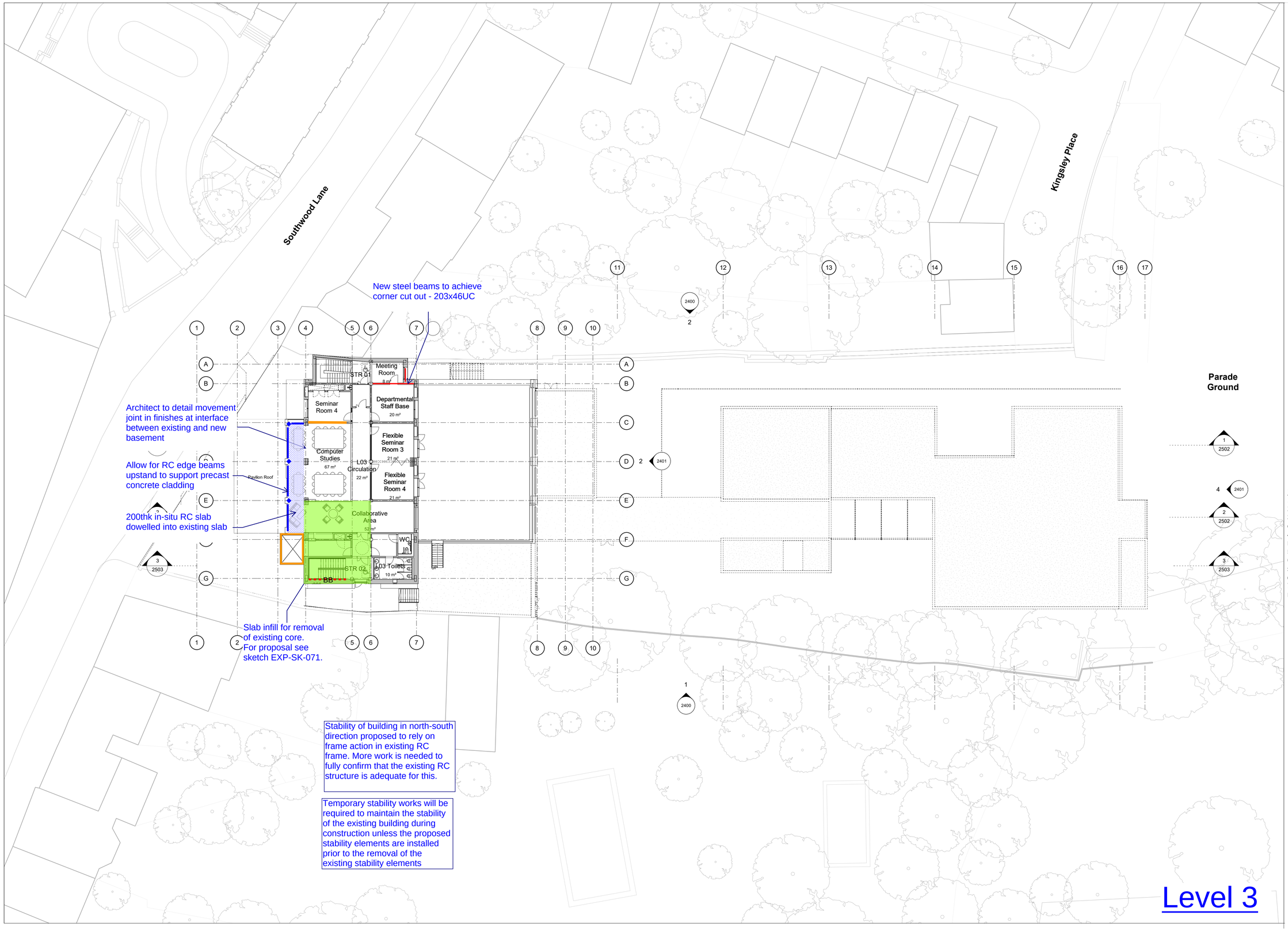
STAGE 2

Title: GA - Structures: Level 2

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-18 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

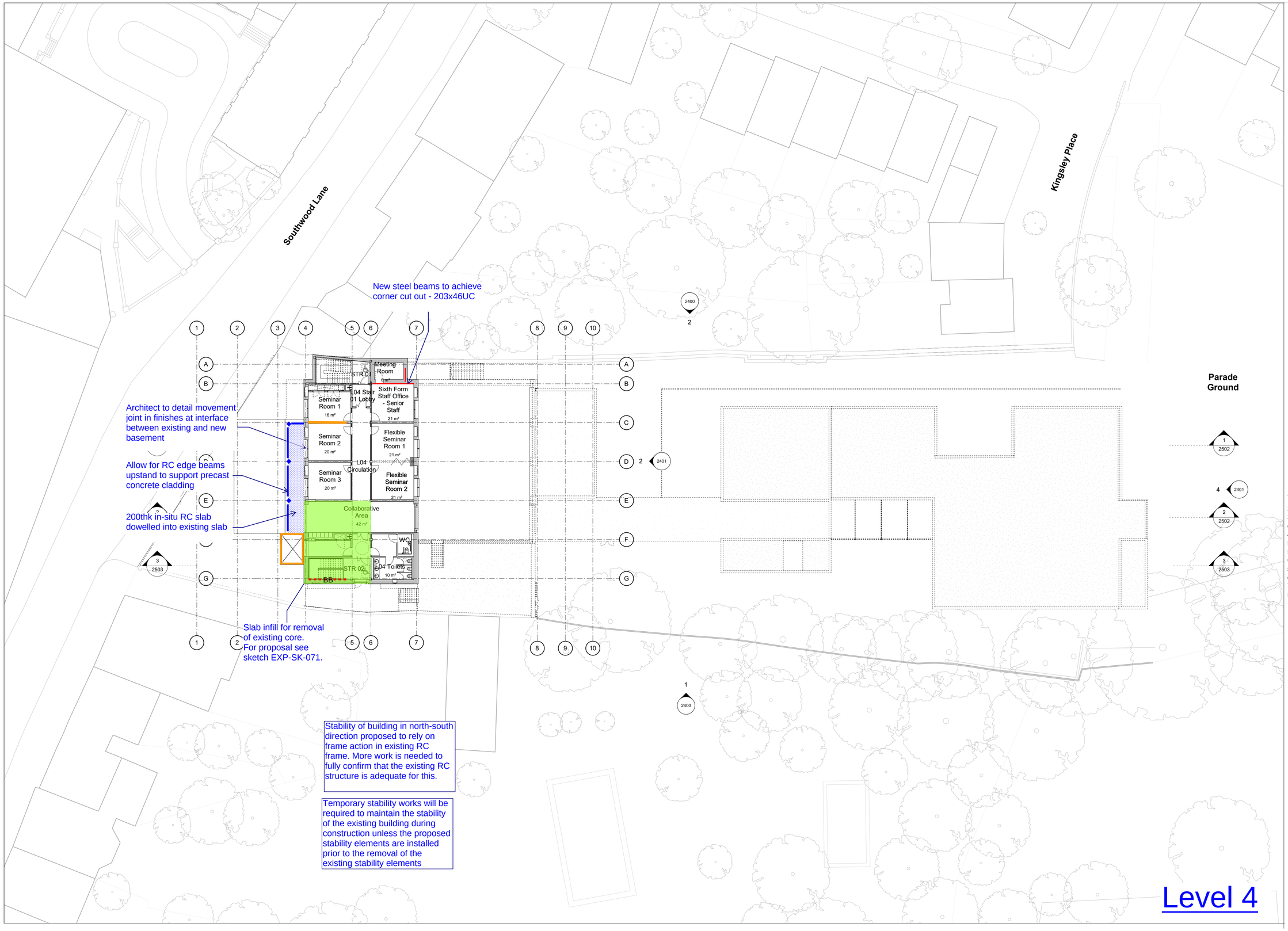
STAGE 2

Title: GA - Structures: Level 3

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-19 Date: 19/10/18 By: JG/CT

expedition



Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

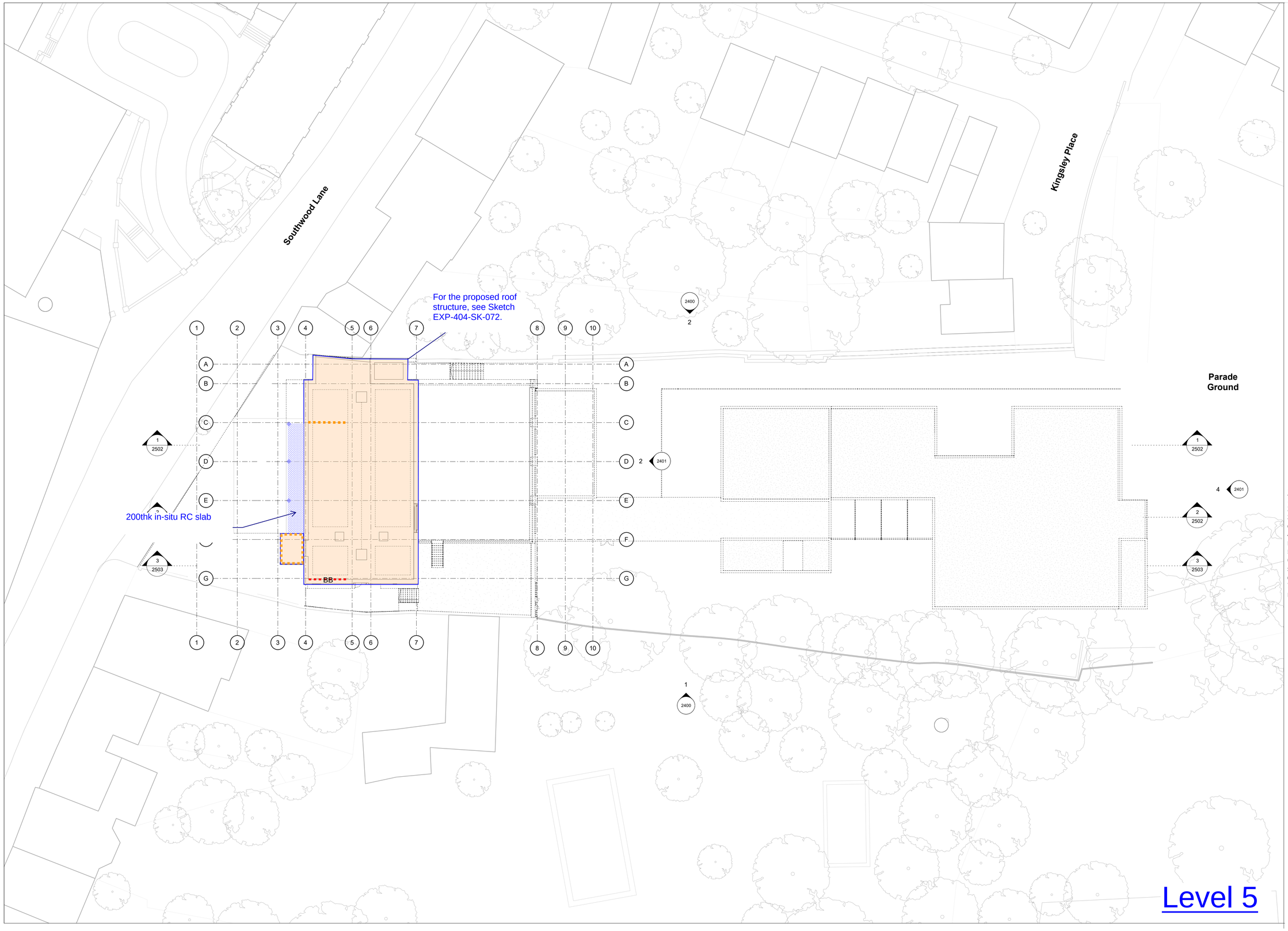
STAGE 2

Title: GA - Structures: Level 4

Job: Highgate School Dyne House Job No.: 404

Sketch No.: EXP-SK-20 Date: 19/10/18 By: JG/CT

expedition



Level 5

Superstructure

- Insitu RC beam
- Insitu RC beam under
- Steel beam
- Steel beam under
- BB — New steel cross bracing
- Glulam GL28h beams
- Glulam GL28h beams under
- 200 mm RC wall UNO (Dowelled into existing columns in existing building)
- RC wall under
- 250x700 or 400x400 insitu RC blade column UNO. Alternative shapes possible. Assumed no penetrations at corners
- 350mm dia. insitu RC circular column UNO
- 250x250 insitu RC column UNO
- Insitu RC column under
- RC insitu flat slab.
- RC insitu flat slab. Heave protection under.
- MJ — Structural movement Joint

Substructure

- Sheet pile retaining wall. Sizes on drawings
- Insitu RC retaining wall. Sizes on drawings
- Sheet pile retaining wall under
- Insitu RC retaining wall under

Notes

1. Concrete Grade C 30/37
2. Steel Grade S355
3. Ground heave protection under new construction
4. For details of all internal stair cases refer to Architectural Information
5. All piles to be CFA piles
6. Basement waterproofing relies on sheet piles welded clutches and a drained cavity.
7. 200wdx200dp RC upstands around all roof perimeters UNO

STAGE 2

Title: GA - Structures: Level 5

Job: Highgate School Dyne House

Job No.: 404

Sketch No.: EXP-SK-21

Date: 19/10/18

By: JG/CT

expedition



General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:

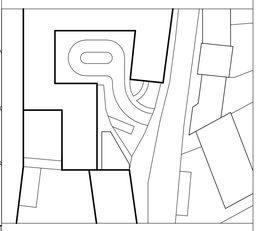


G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

-01



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	F	ISS 0004_Planning Issue	MB

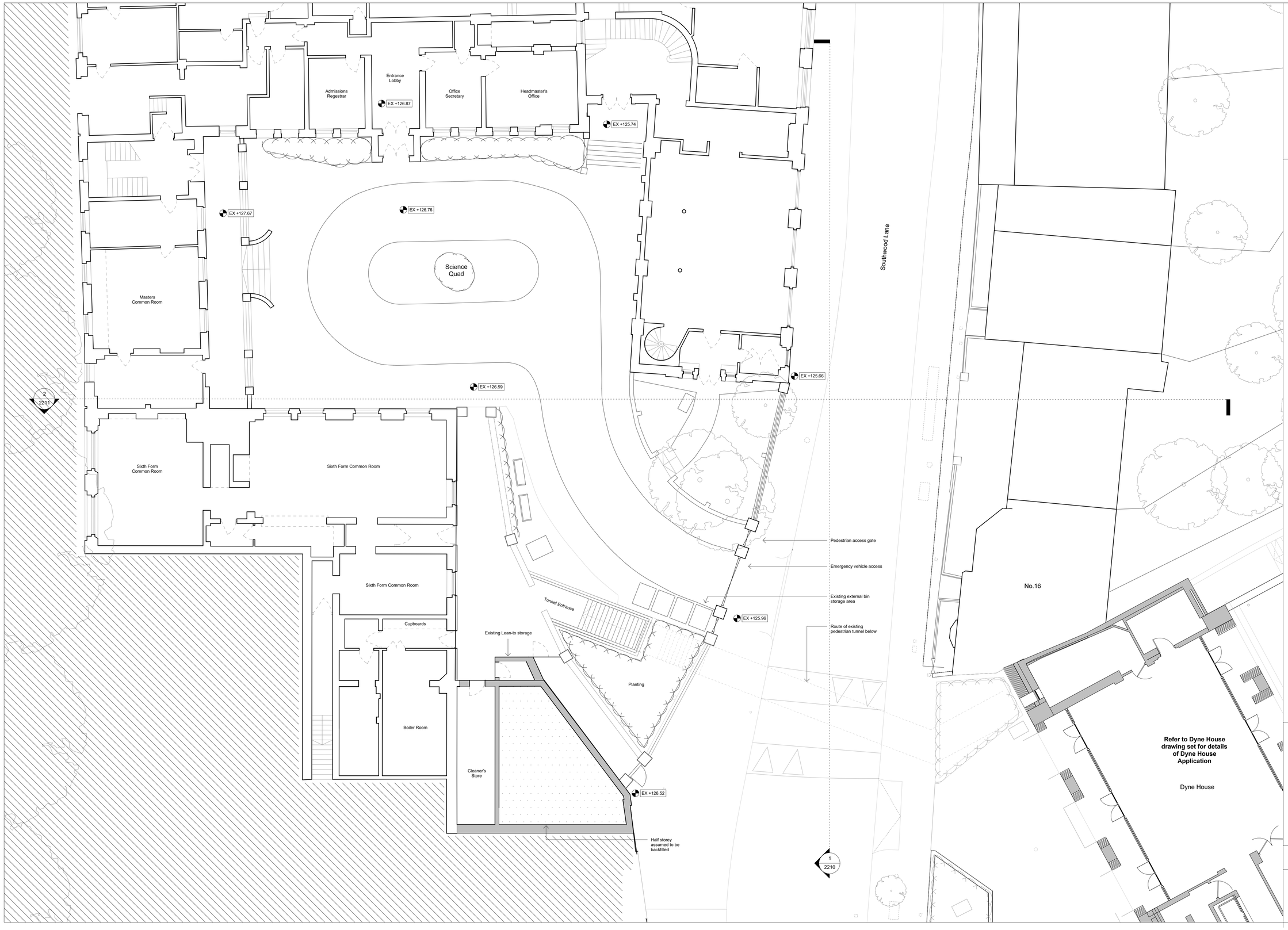
Date	Rev.	Description	Approved By

Project	Highgate School Island Site
Subject	Island Site - Level -01 Existing GA Plans
Architects	Hopkins Architects Limited 27 Broadley Terrace, London, NW1 6LG T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2110	F

Date: 03/15/17 Scale: As indicated at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

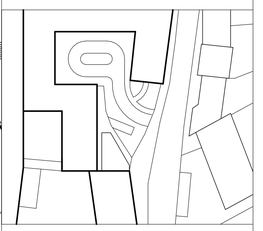
G2 Door tags are shown thus: DG-01 (Door number; Instance of doors per room) / DRS-XXX (Door type) / FR-XXs (Fire rating, 'x' denotes smoke seal)

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

00



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	F	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project	Highgate School Island Site
Subject	Island Site - Level 00 Existing GA Plans
Architects	Hopkins Architects Limited 27 Broadley Terrace, London, NW1 6LG T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2111	F

Date: 06/03/19 Scale: As indicated at A1

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General Notes:

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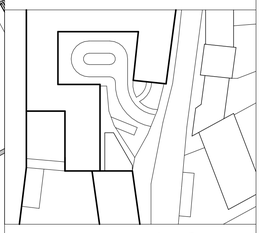
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DRS-XXX ← Door type
FR-XXs ← Fire rating, 'x' denotes smoke seal
Door number

G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

01



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	F	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

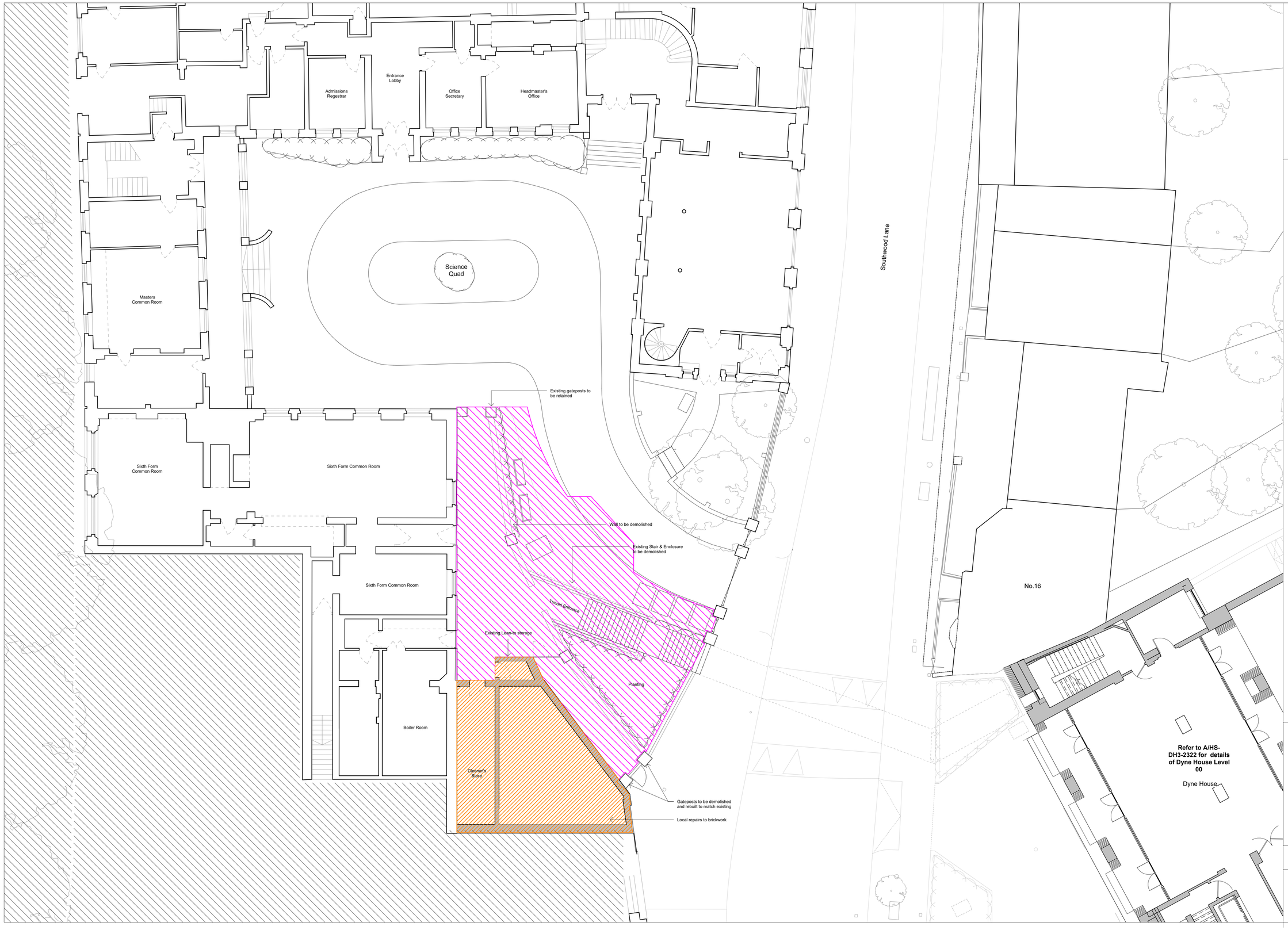
Project: Highgate School Island Site
Subject: Island Site - Level 01
Existing GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2112	F

Date: 06/04/19 Scale: As indicated at A1

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General Notes:

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Existing Levels are shown: EX+20.345

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G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

	Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
	Existing buildings to be demolished
	Existing Dyne House strip out and facade removal. Northern staircase to be retained
	Existing Dyne House structural demolition, including existing stair and lift core; structural slab
	Existing spaces to be retained
	Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
	Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
	Existing trees to be removed

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

00

PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	D	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project: Highgate School Island Site
Subject: Island Site - Level 00 Demolition Plans
Architects: Hopkins Architects Limited, 27 Broadley Terrace, London, NW1 6LG, T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2311	D

Date: 05/15/19 Scale: As indicated at A1

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General Notes:

G1 All Levels are above ordnance datum (AOD)
New Levels are shown thus: +20.345
Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

G2 Door tags are shown thus:



G3 Abbreviatons:

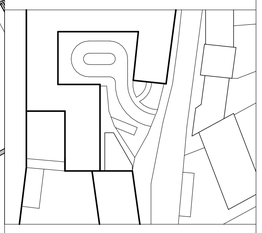
GN/AWC:	Gender Neutral / Accessible WC
CS:	Cleaner's Store
PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

KEY - DEMOLITION PLAN:

	Existing structures, hard standings, scrub and vegetation removal, excluding trees and boundary walls.
	Existing buildings to be demolished
	Existing Dyne House strip out and facade removal. Northern staircase to be retained
	Existing Dyne House structural demolition, including existing stair and lift core; structural slab
	Existing spaces to be retained
	Penetration through existing Dyne House slab to form new risers (1 & 2) and new southern stair
	Refer to drawing 2112 for forecourt, Gibbon Garden, trees and rear demolition information
	Existing trees to be removed

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

01



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	G	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project: Highgate School Island Site
Subject: Island Site - Level 01 Demolition Plans
Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2312	G

Date: 06/04/19 Scale: As indicated at A1

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G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
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PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

EX +125.74

Proposed Science Block basement extension by others

Lift

EX +121.95

Store

Precast Concrete Stair

Section of tunnel wall amended to align with stair orientation

EX +121.95

Existing Tunnel

Male WCs

Female WCs

EX +121.57

Refer to A/HS-DH3-2424 for details of Dyne House Level -01

Refer to Dyne House drawings for details

2511

2610

2610

2810

2611

2510

-01

PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	H	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project	Highgate School Island Site
Subject	Island Site - Level -01 Proposed GA Plans
Architects	Hopkins Architects Limited 27 Broadley Terrace, London, NW1 6LG T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	**2410**	**H**

Date: 06/05/19 Scale: As indicated at A1

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Existing Levels are shown: EX+20.345

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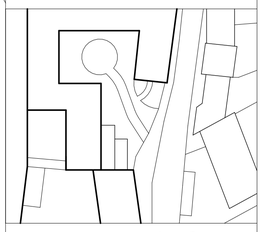


G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
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PH:	Printer hub
ST:	Store
RWP:	Rain water pipe

- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries

00



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	H	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

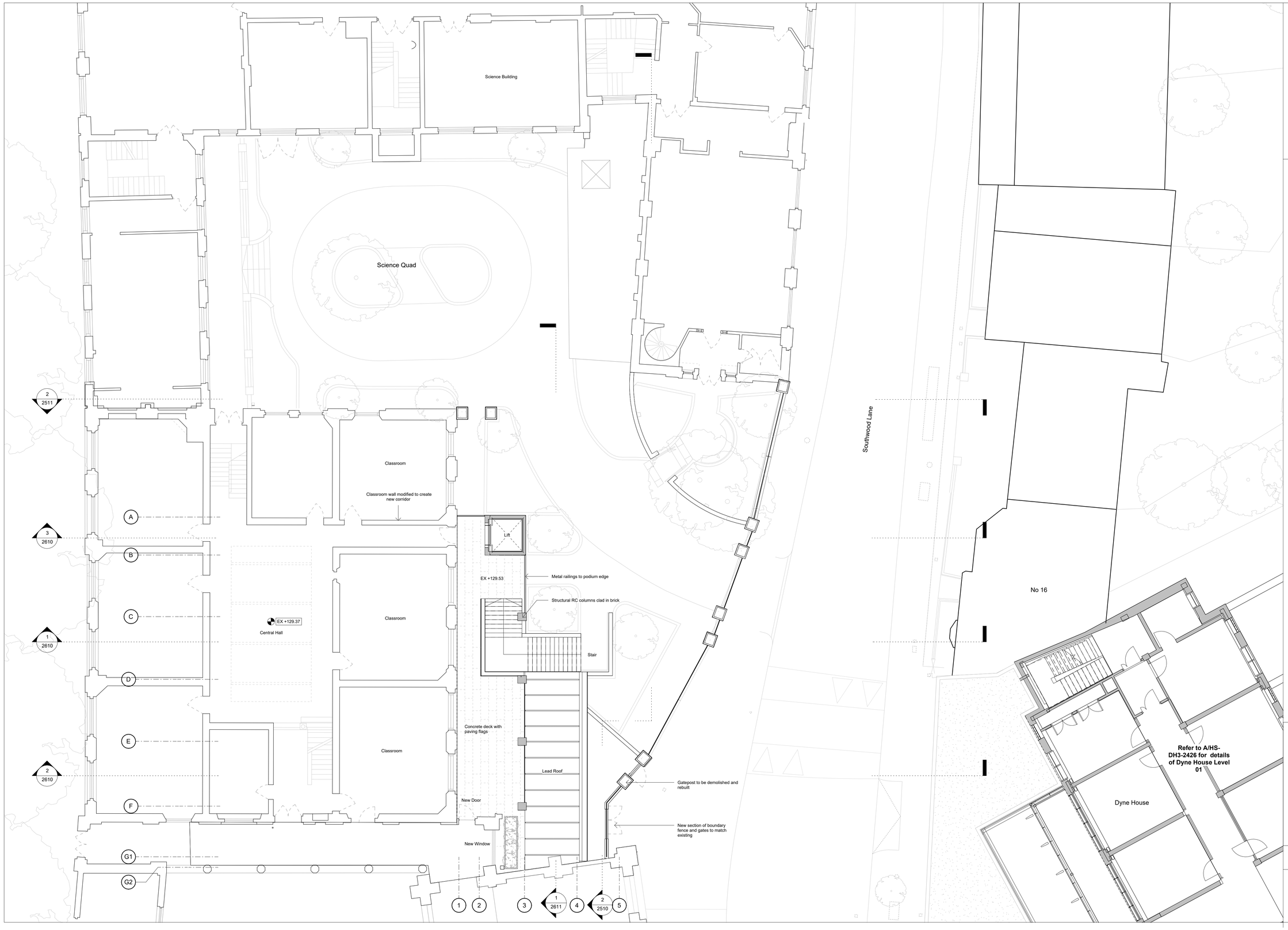
Project: Highgate School Island Site
Subject: Island Site - Level 00
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2411	H

Date: 06/03/19 Scale: As indicated at A1

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01

PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	H	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

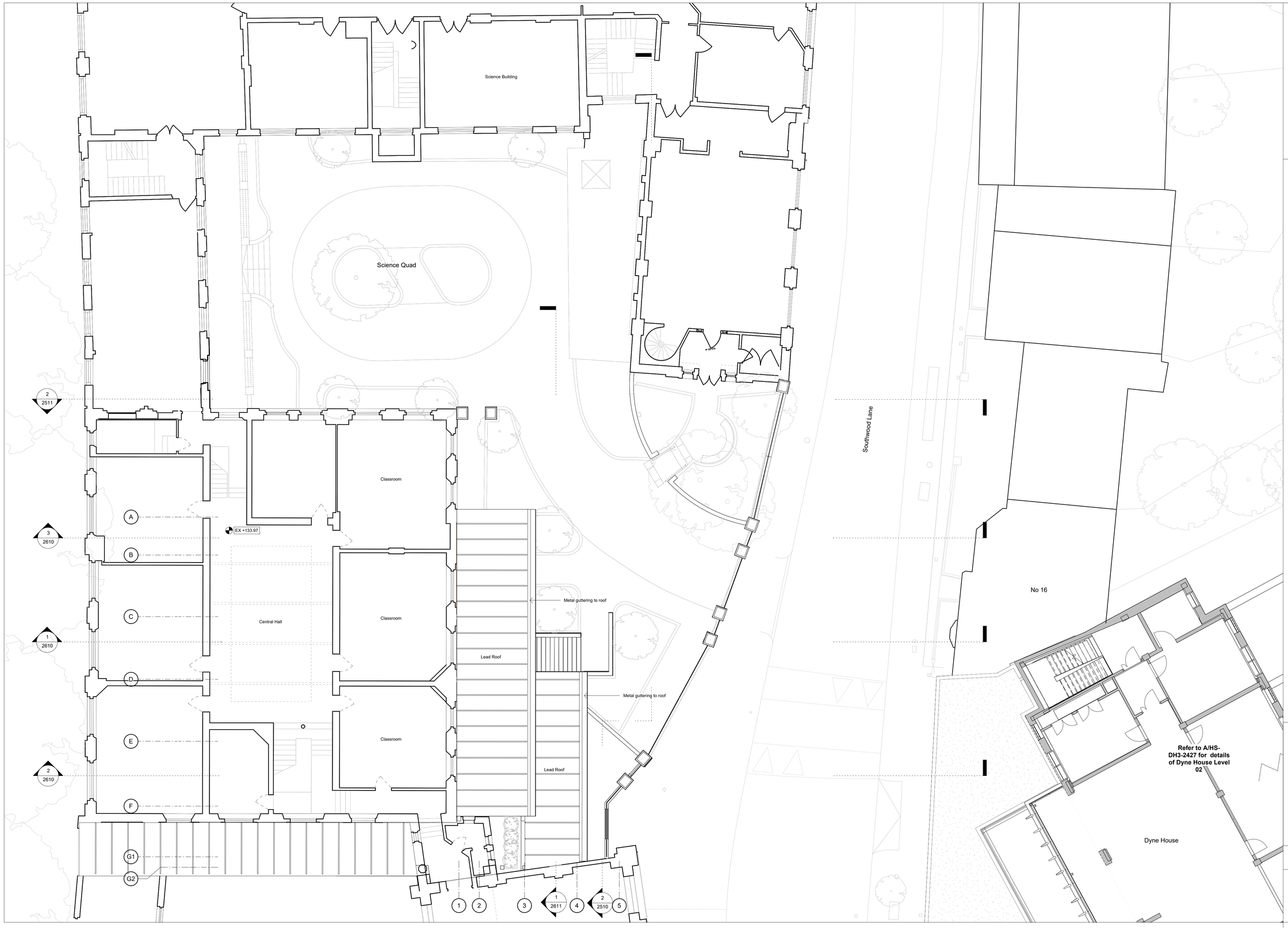
Project: Highgate School Island Site
Subject: Island Site - Level 01
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2412	H

Date: 06/03/19 Scale: As indicated at A1

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RF

PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	H	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

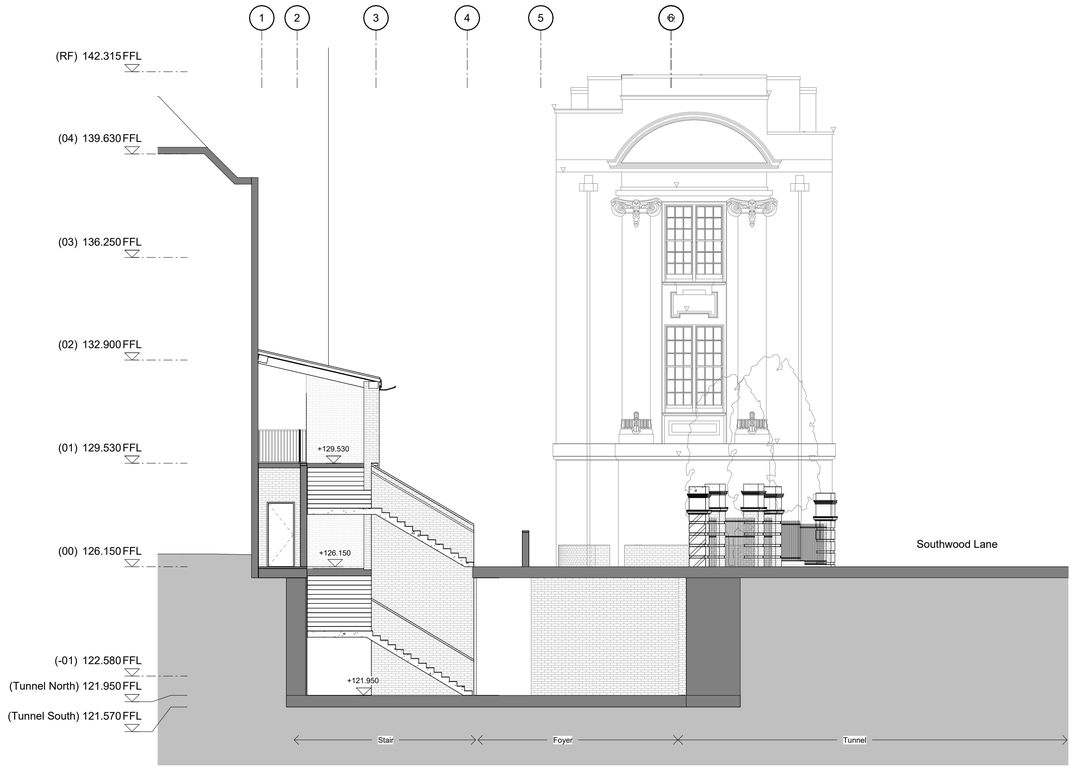
Project: Highgate School Island Site
Subject: Island Site - Roof Level
Proposed GA Plans

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

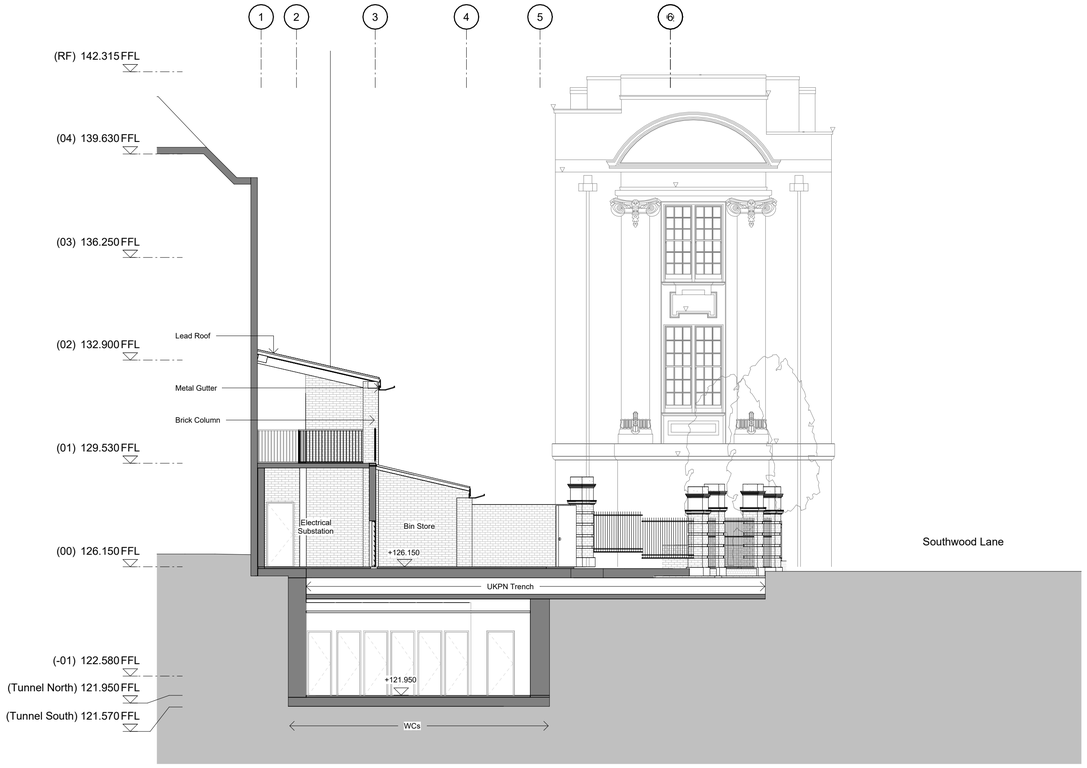
Sort Code	Drawing Number	Rev.
A/HS-IS	2413	H

Date: 06/03/19 Scale: As indicated at A1

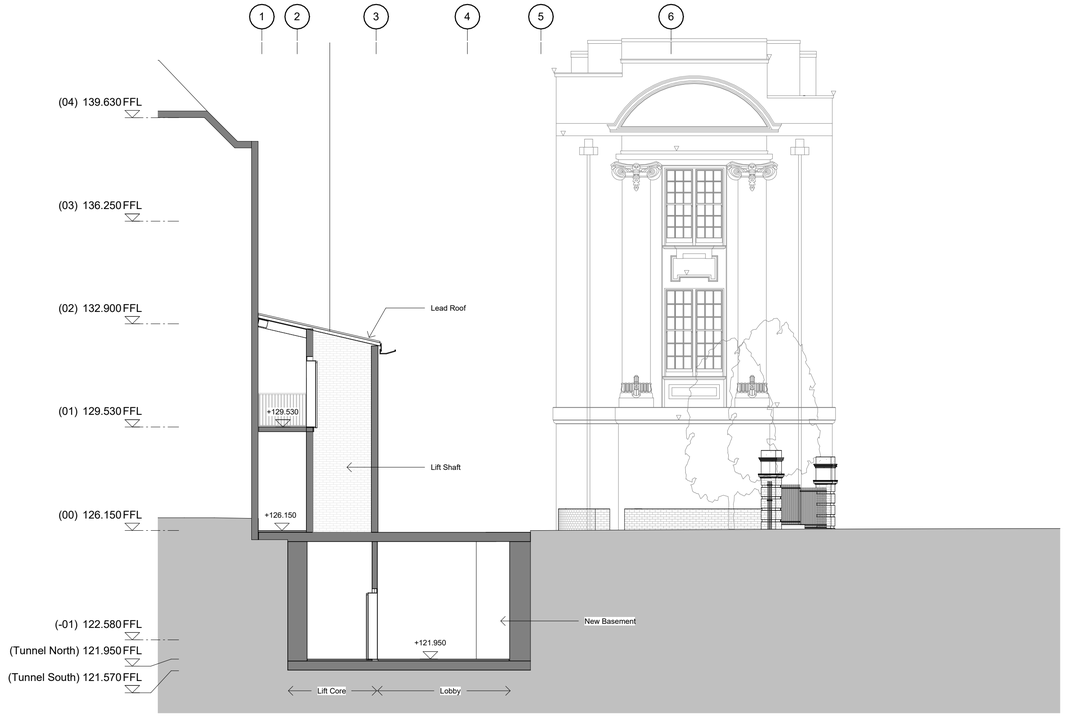
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1 2610 **Section through Staircase**
1 : 100



2 2610 **Section through substation and WC's**
1 : 100



3 2610 **Section through Lift Core**
1 : 100

General Notes:

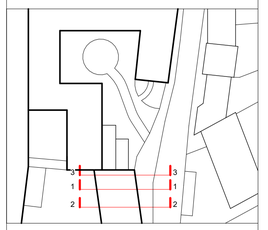
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- Refer to drawing A/HS-DH3-2000 for Site Application and Owenership boundaries



PLANNING

Scale at 1:100
0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	F	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project: Highgate School Island Site
Subject: Proposed Cross Sections
Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	**2610**	**F**

Date: 06/03/19 Scale: As indicated at A1

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1 2611 **Long Section**
1 : 100

General Notes:

G1 All Levels are above ordnance datum (AOD)
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Retained Existing Levels thus: EX+20.345
Existing Levels are shown: EX+20.345

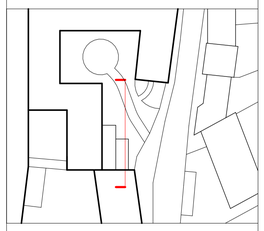
G2 Door tags are shown thus:



G3 Abbreviatons:

GN/AWC:	Gender Neutral / Accessible WC
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PLANNING

Scale at 1:100

0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
13.01.2023	E	ISS 0004_Planning Issue	MB

Date	Rev.	Description	Approved By

Project: Highgate School Island Site
Subject: Proposed Long Sections

Architects: Hopkins Architects Limited
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	**2611**	**E**

Date: 06/03/19 Scale: As indicated at A1

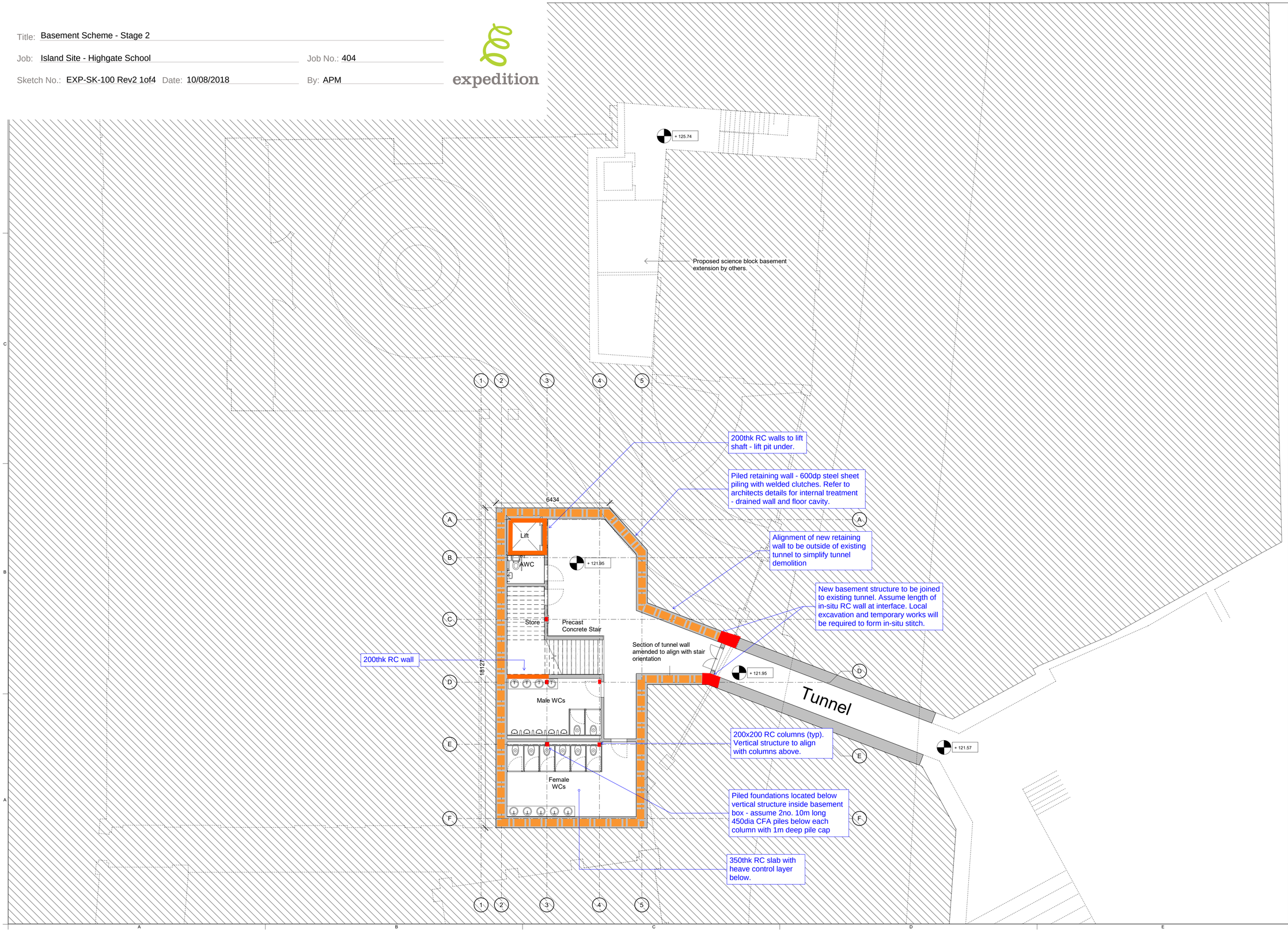
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Title: Basement Scheme - Stage 2

Job: Island Site - Highgate School Job No.: 404

Sketch No.: EXP-SK-100 Rev2 1of4 Date: 10/08/2018 By: APM

expedition



Notes:

All concrete to be minimum grade C30/37

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
20.07.2018	A	Memo 0001 Draft Stage 2 backgrounds issue	JG
27.07.2018	B	Memo 0002 Stage 2 Backgrounds & Costing issue	JG
24.08.2018	C	Draft Issue_Grids Added. GA Plan Updates	JG

Date	Rev.	Description	Approved By

Project: Highgate School Island Site

Subject: Proposed GA Plan - Level -01

Architects: Hopkins Architects Partnership LLP
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2310	C

Date 08/10/18 Scale 1 : 100 at A1

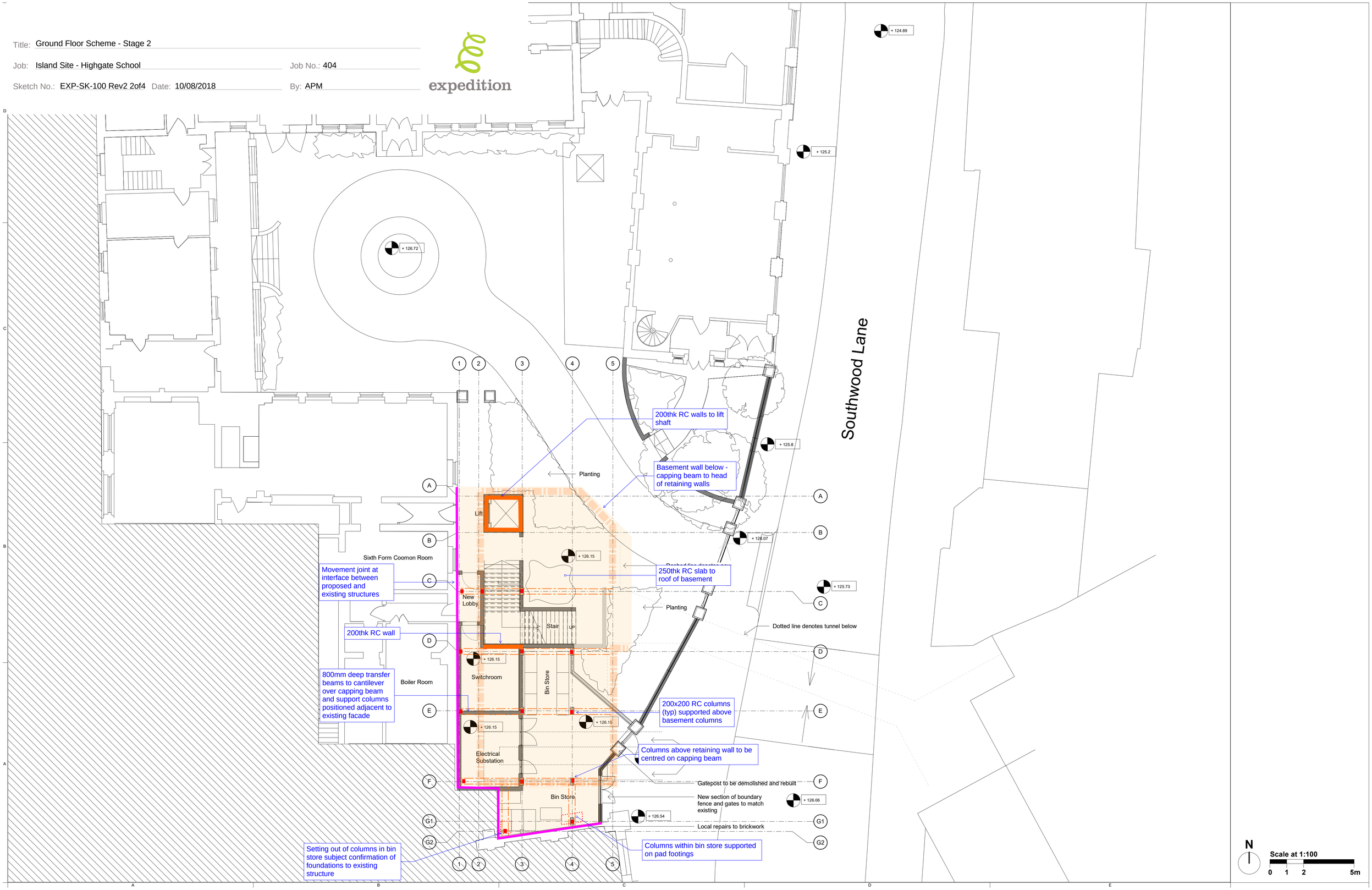
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Title: Ground Floor Scheme - Stage 2

Job: Island Site - Highgate School Job No.: 404

Sketch No.: EXP-SK-100 Rev2 2of4 Date: 10/08/2018 By: APM

expedition



Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
20.07.2018	A	Memo 0001 Draft Stage 2 backgrounds issue	JG
27.07.2018	B	Memo 0002 Stage 2 Backgrounds & Costing issue	JG
24.08.2018	C	Draft Issue_Grids Added. GA Plan Updates	JG

Date	Rev.	Description	Approved By

Project: Highgate School Island Site

Subject: Proposed GA PLan - Level 00

Architects: Hopkins Architects Partnership LLP
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2311	C

Date 08/10/18 Scale 1 : 100 at A1

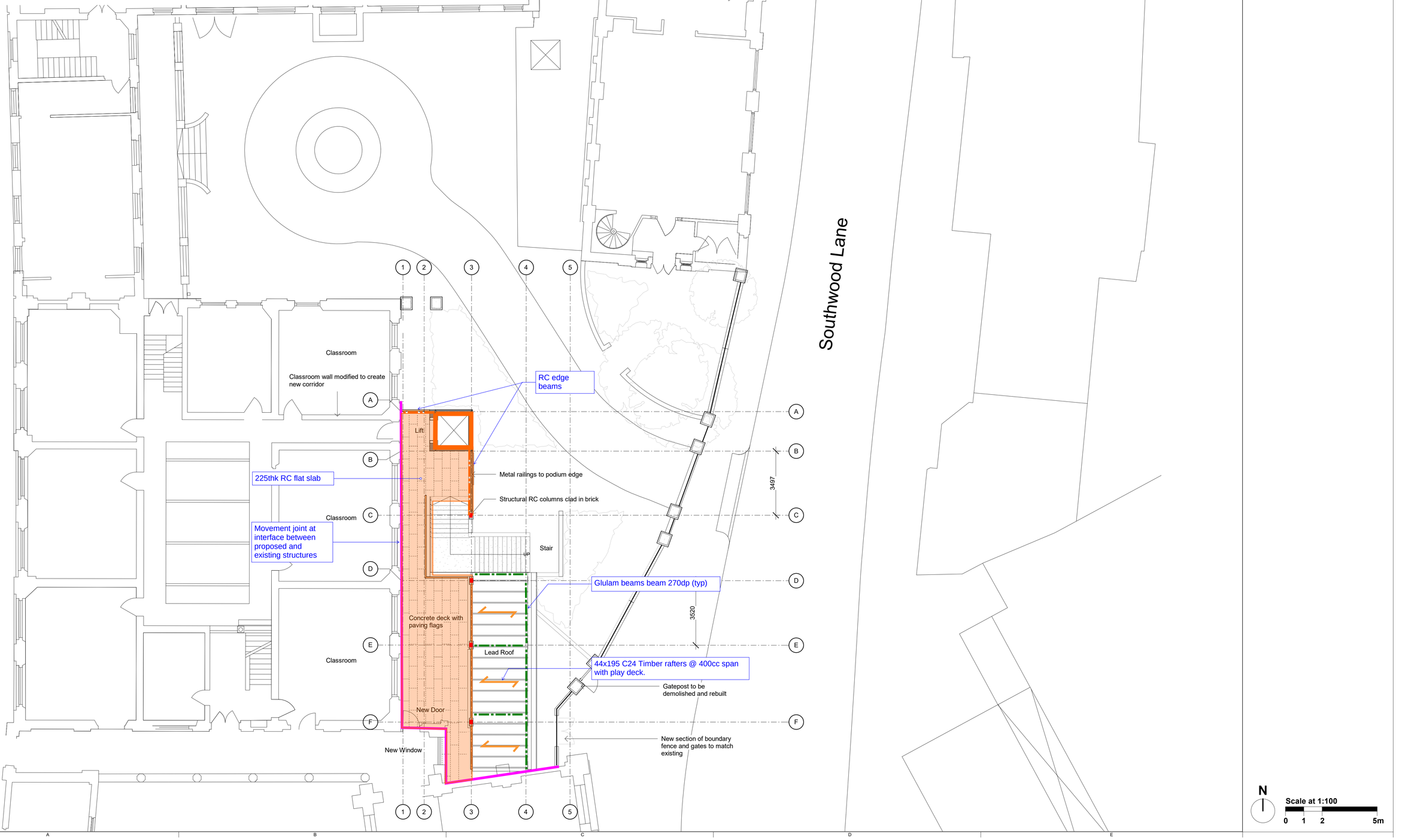
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Title: 1st Floor Scheme - Stage 2

Job: Island Site - Highgate School | Job No.: 404

Sketch No.: EXP-SK-100 Rev2 3of4 | Date: 10/08/2018 | By: APM

expedition



N

Scale at 1:100

0 1 2 5m

Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
20.07.2018	A	Memo 0001 Draft Stage 2 backgrounds issue	JG
27.07.2018	B	Memo 0002 Stage 2 Backgrounds & Costing issue	JG
24.08.2018	C	Draft Issue_Grids Added. GA Plan Updates	JG

Date	Rev.	Description	Approved By

Project: Highgate School Island Site

Subject: Proposed GA Plan - Level 01

Architects: Hopkins Architects Partnership LLP
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2312	C

Date 08/10/18 Scale 1 : 100 at A1

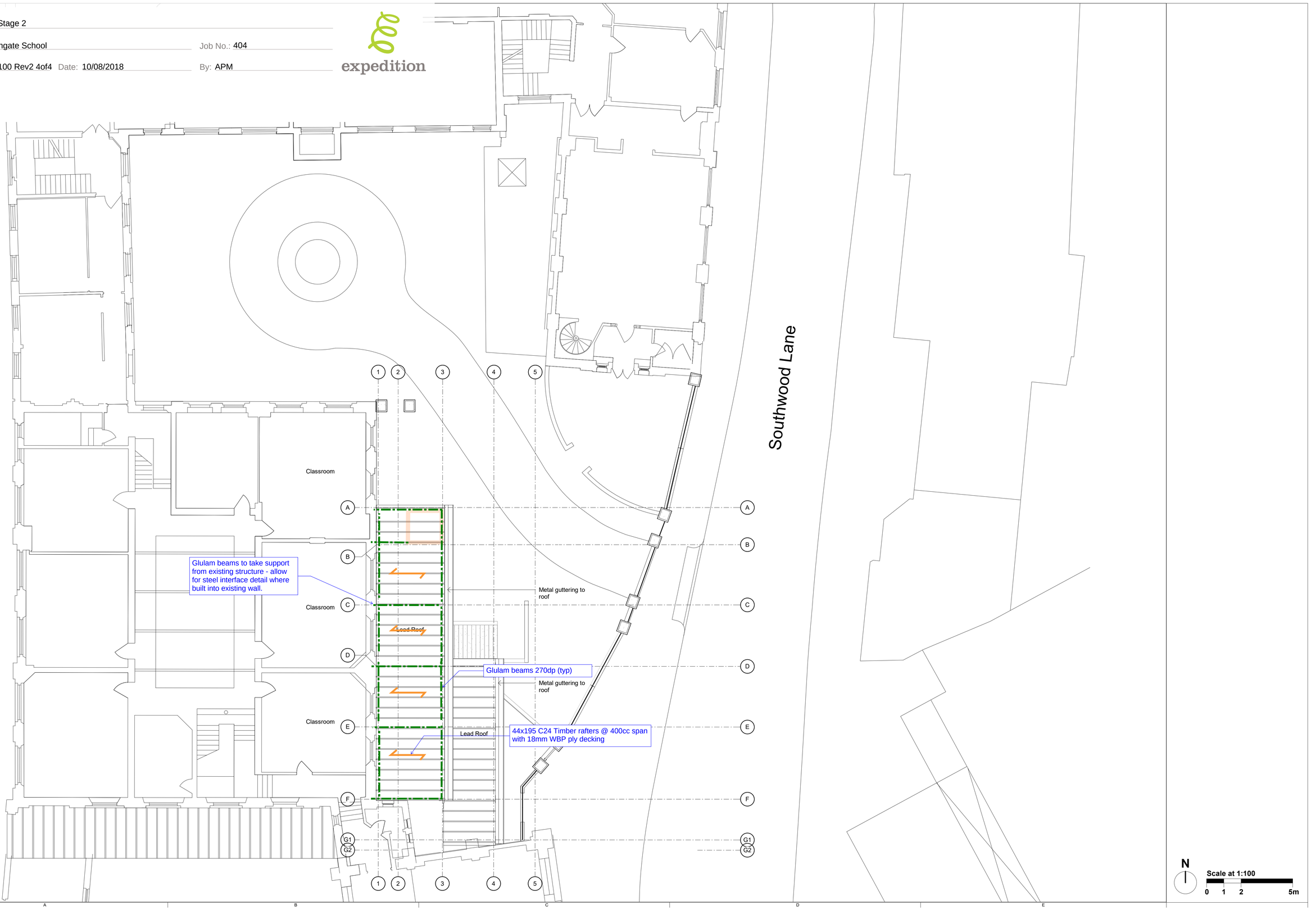
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Title: Roof Scheme - Stage 2

Job: Island Site - Highgate School Job No.: 404

Sketch No.: EXP-SK-100 Rev2 4of4 Date: 10/08/2018 By: APM

expedition



Work Package	Cost Check	Info/Briefing	Tender	Contract	Construction

Date	Rev.	Description	Approved By
20.07.2018	A	Memo 0001 Draft Stage 2 backgrounds issue	JG
27.07.2018	B	Memo 0002 Stage 2 Backgrounds & Costing issue	JG
24.08.2018	C	Draft Issue_Grids Added. GA Plan Updates	JG

Date	Rev.	Description	Approved By

Project: Highgate School Island Site

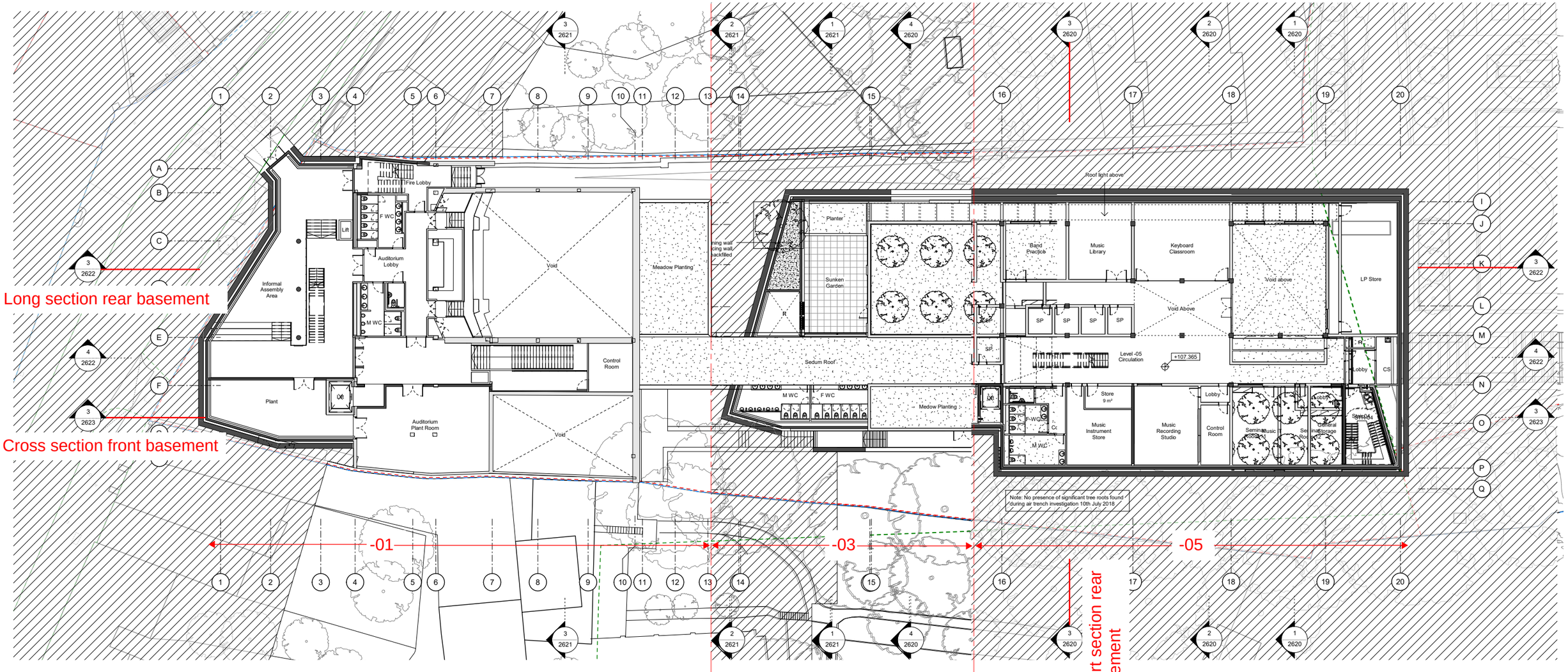
Subject: Proposed GA Roof Plan

Architects: Hopkins Architects Partnership LLP
27 Broadley Terrace, London, NW1 6LG
T: 020 7724 1751 E: mail@hopkins.co.uk

Sort Code	Drawing Number	Rev.
A/HS-IS	2313	C

Date 08/10/18 Scale 1 : 100 at A1

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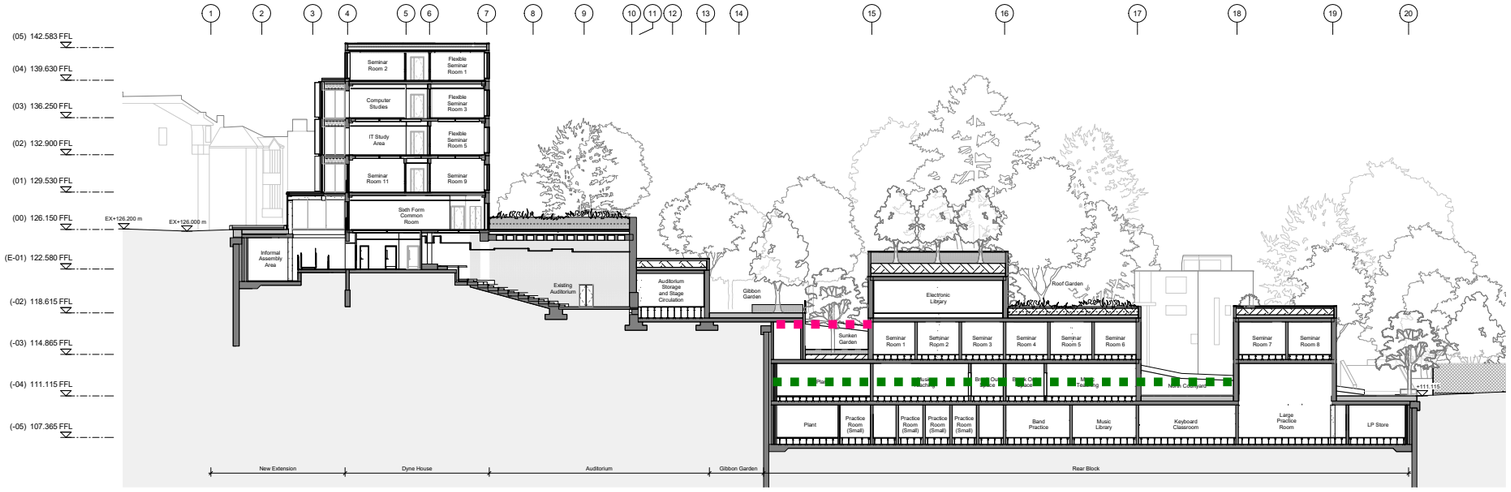
Dyne House compiled plans

Title: Indicative basement construction sequences

Job: Highgate School Job No.: 404

Sketch No.: SK-200 Date: 14/08/2024 By: APM

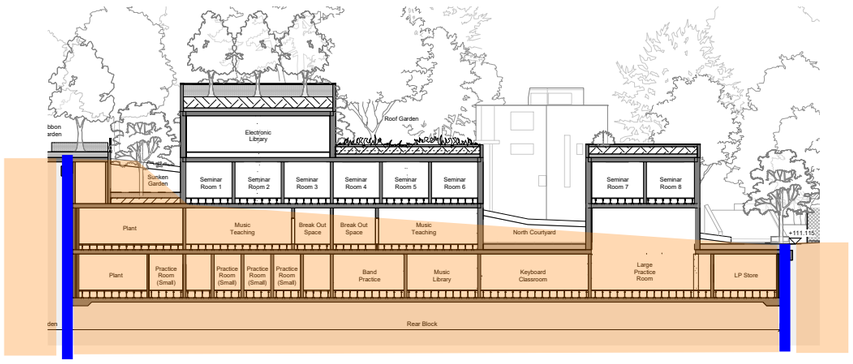
expedition



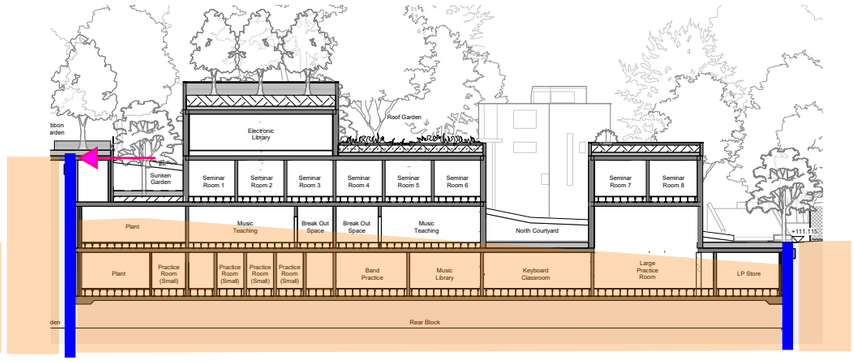
Typical long section Dyne House rear basement

Approximate extent of upper level propping to rear basement

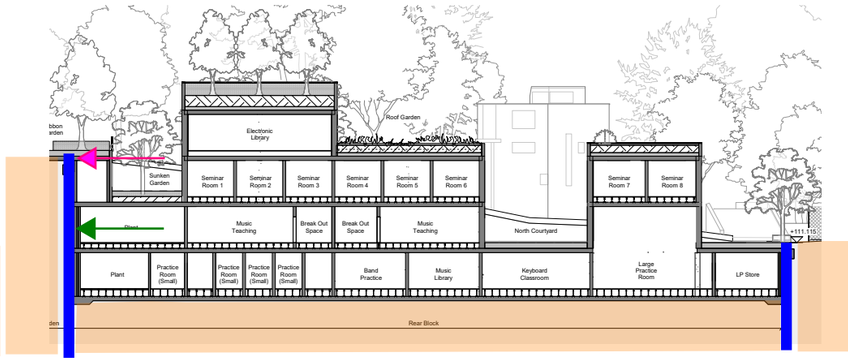
Approximate extent of lower level propping to rear basement



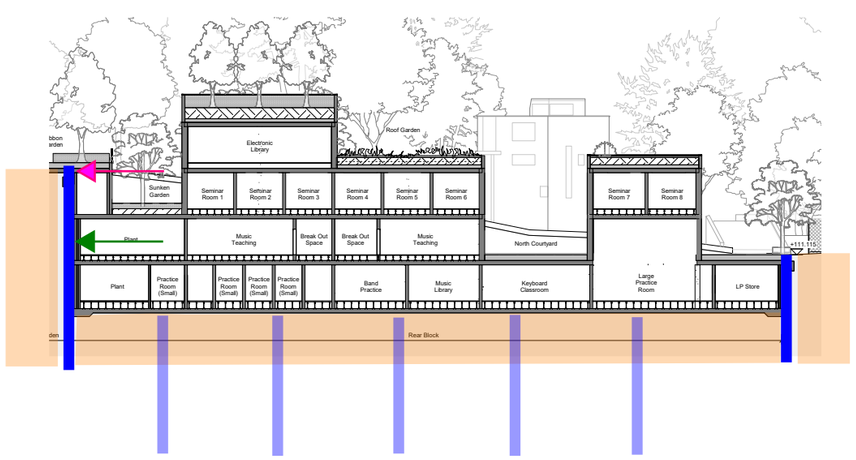
1. Install sheet piling from existing ground level



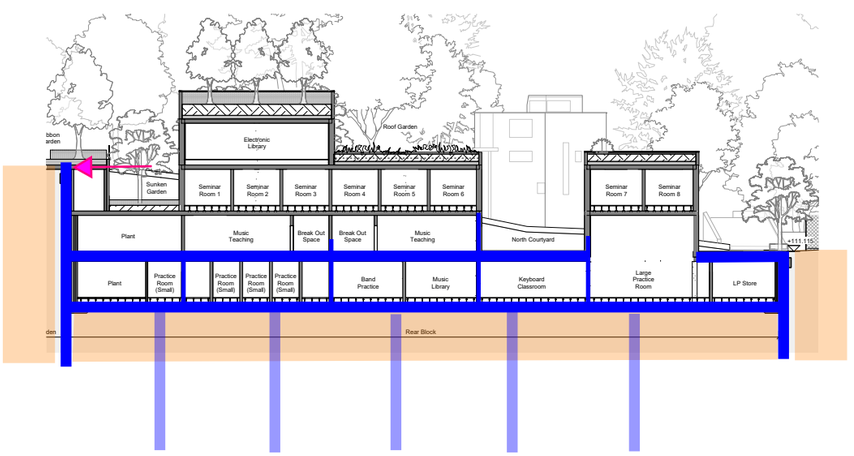
2. Commence excavation. Install extent of temporary propping to West end of basement (as indicated on section above) at approximately ground level. The option of using ground anchors will be investigated for Western wall if compatible with sewer location but it is assumed temporary props will be used in the first instance.



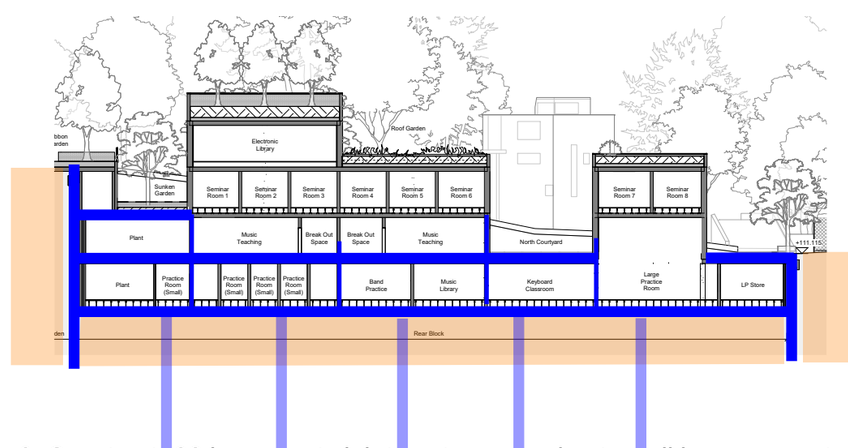
3. Continue excavation down to lowest basement level. Install temporary propping to West end and central section of basement (as indicated on section above) at approximately mid depth of excavation. Eastern wall to cantilever.



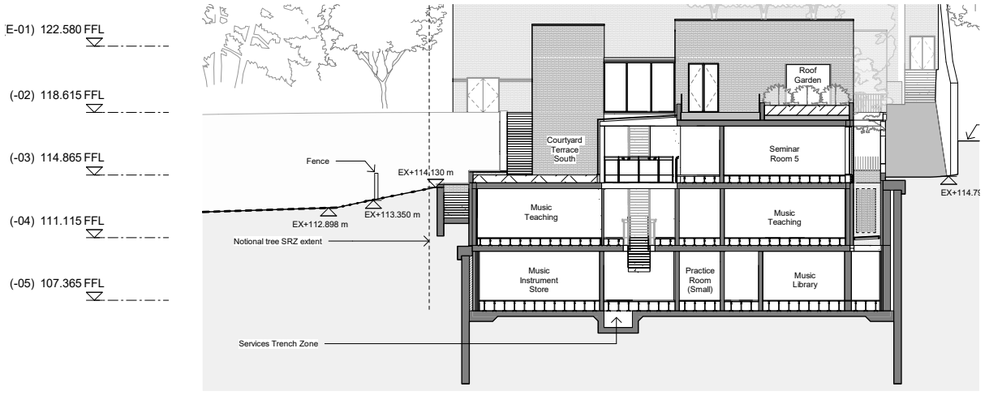
4. Install bearing piles from excavated level.



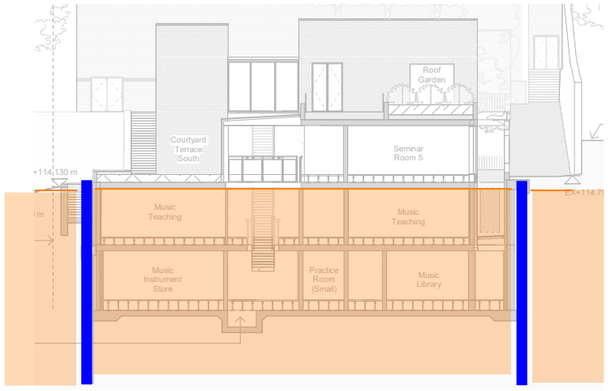
5. Construct -05 & -04 basement slabs to act as propping to wall in permanent condition. Remove mid depth props.



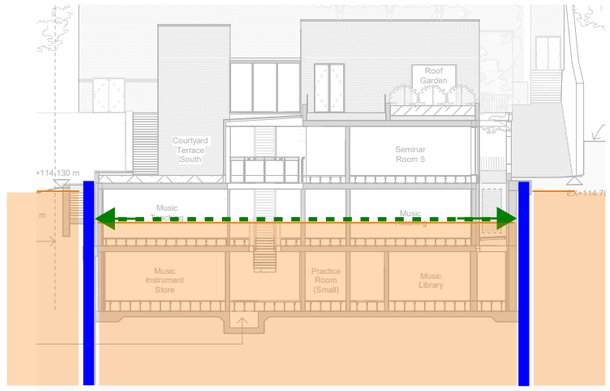
6. Construct -03 basement slab to act as propping to wall in permanent condition. Remove temporary propping at upper level. Subsequently continue with superstructure construction and construction.



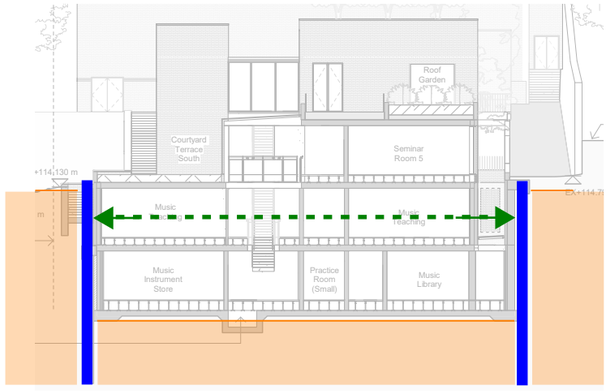
Typical short section Dyne House rear basement



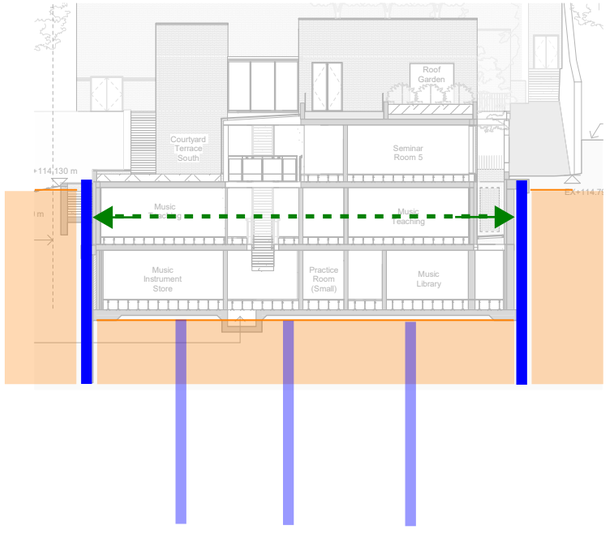
1. Install sheet piling from existing ground level



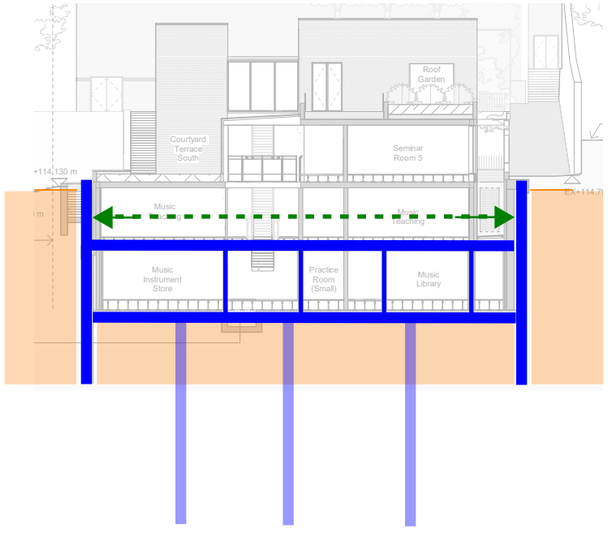
2. Commence excavation. Install temporary propping at approx between -03 & -04 levels to extent shown on long section.



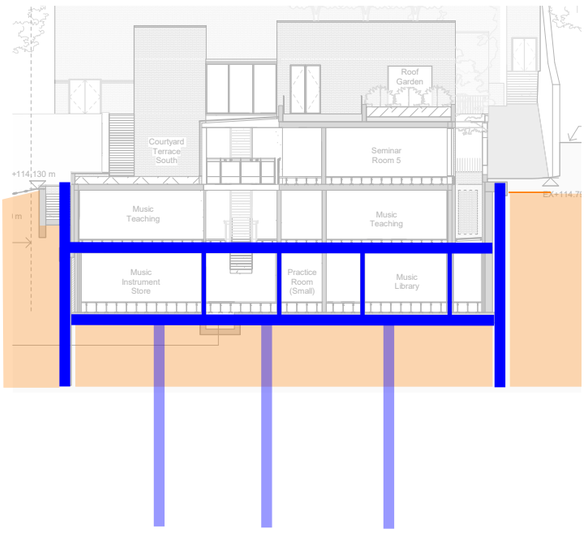
3. Continue excavation down to lowest basement level.



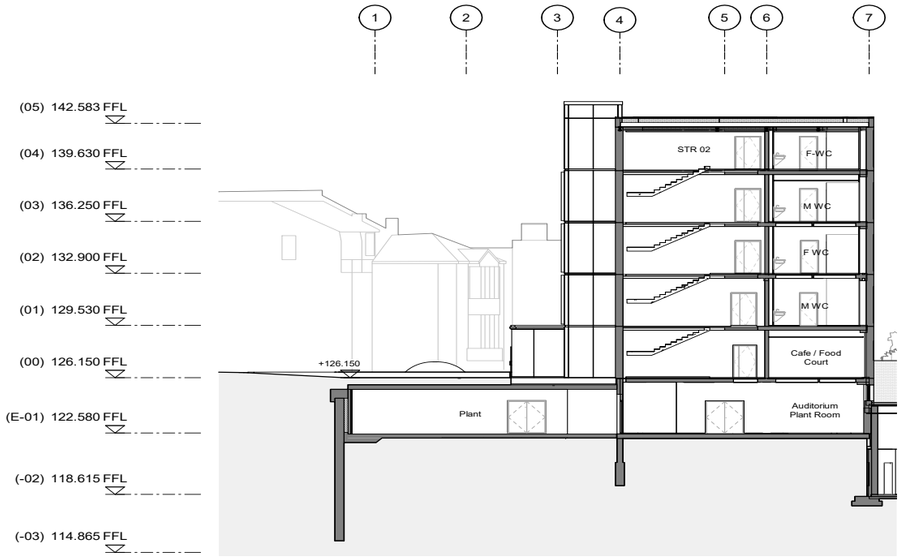
4. Install bearing piles from excavated level.



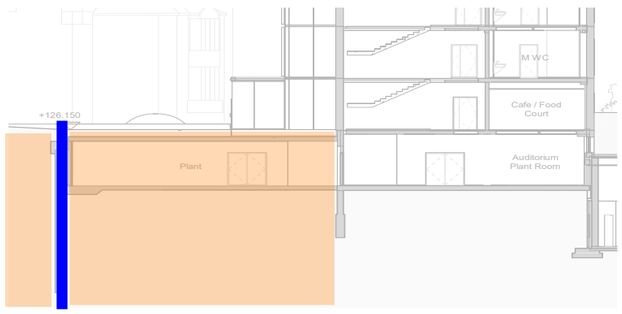
5. Construct basement slabs to act as propping to wall in permanent condition.



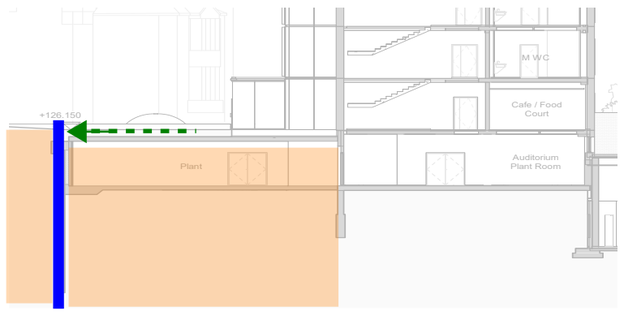
6. Remove temporary propping at ground level. Subsequently continue with superstructure construction and construction of sunken pathway.



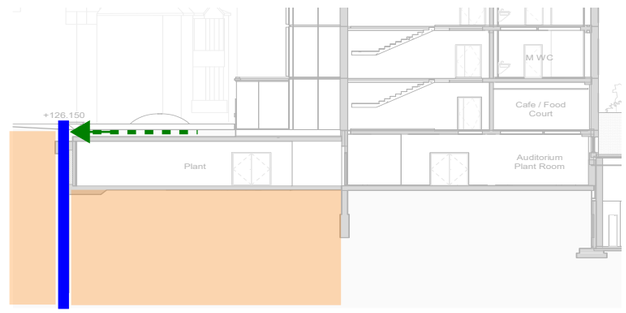
Typical cross section Dyne House front basement



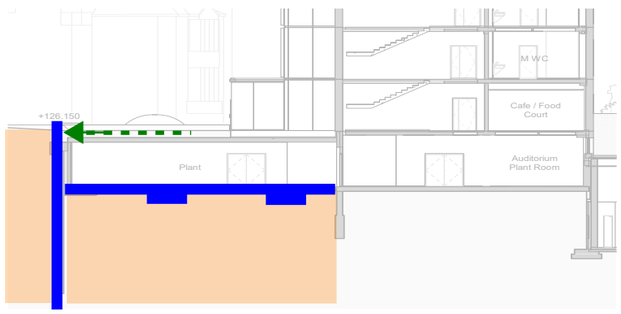
1. Install sheet piling from existing ground level



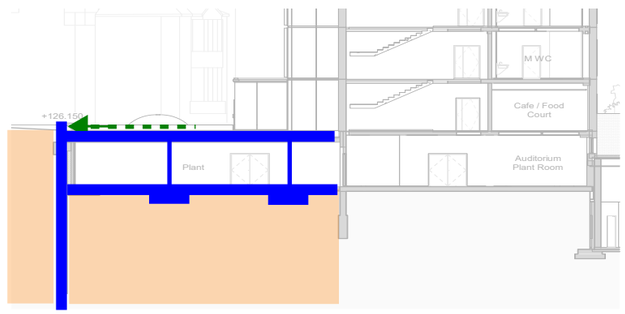
2. Commence excavation. Install temporary propping at approx ground level.



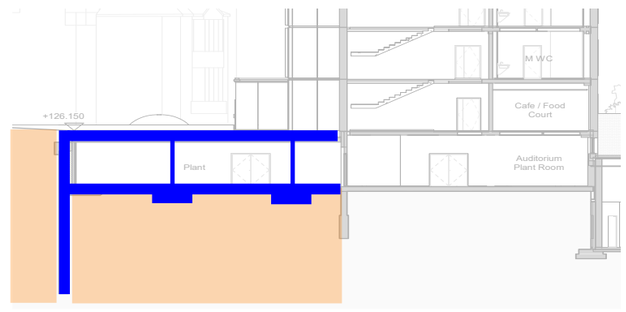
3. Continue excavation down to lowest basement level.



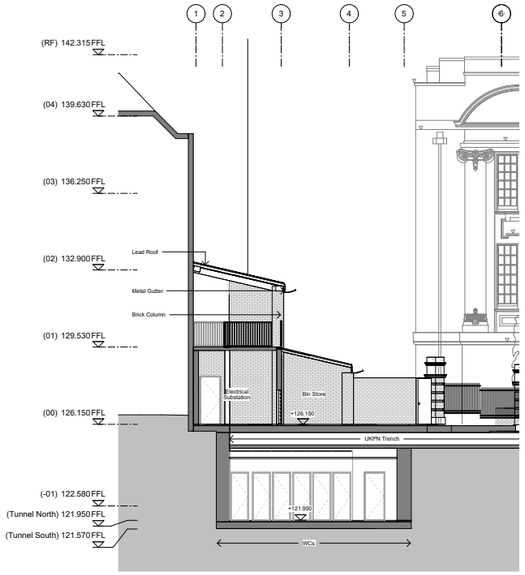
4. Install pad foundation and basement slab making connection to existing structure.



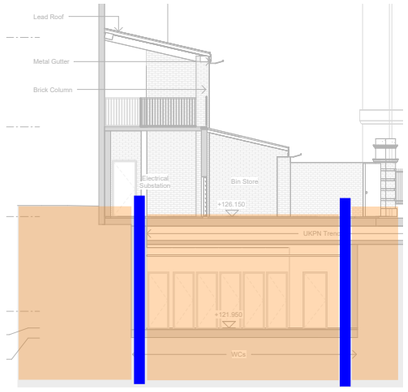
5. Construct vertical structure and ground floor slab (coordinated with temporary prop locations) to act as propping to wall in permanent condition.



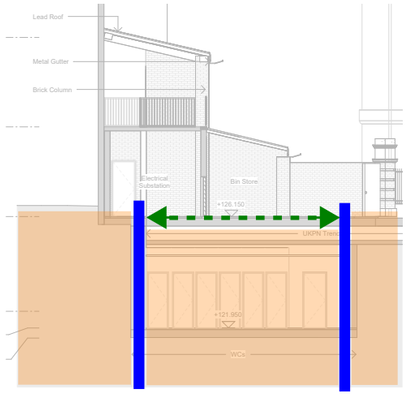
6. Remove temporary propping at ground level. Subsequently complete ground floor slab and continue with superstructure construction.



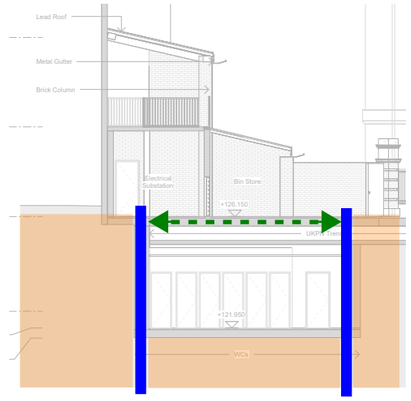
Island site basement typical cross section



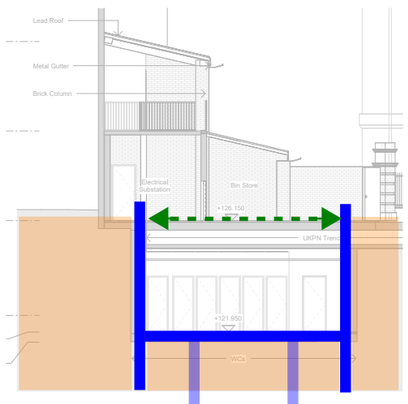
1. Install sheet piling from existing ground level



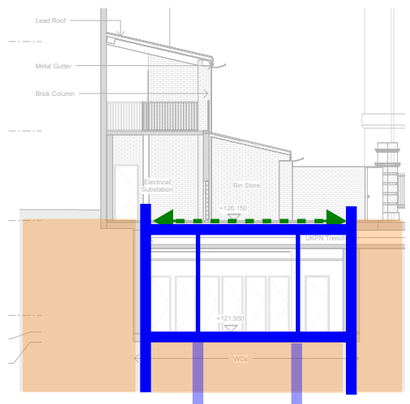
2. Commence excavation. Install temporary propping at approx ground level.



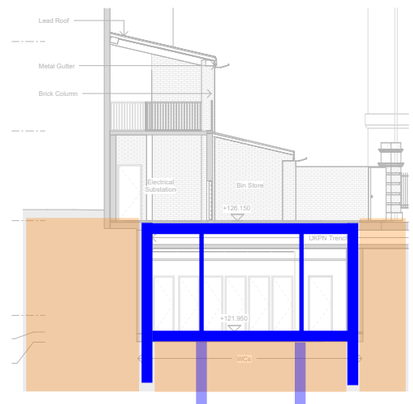
3. Continue excavation down to lowest basement level.



4. Install piled foundation and basement slab.



5. Construct vertical structure and ground floor slab (coordinated with temporary prop locations) to act as propping to wall in permanent condition.



6. Remove temporary propping at ground level. Subsequently complete ground floor slab and continue with superstructure construction.

Appendix C. Ground Movement and Damage Impact Assessment

A-squared Studio

Highgate School - Dyne House and Island Site

Ground Movement Assessment Report

September 2024

1157-A2S-XX-XX-RP-Y-0002-02

Project Name	Highgate School - Dyne House and Island Site
Project Number	1157
Client	Expedition Engineering Ltd
Document Name	Ground Movement Assessment Report

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Document Reference	Status	Revision	Issued by	Date
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1157-A2S-XX-XX-RP-Y-0002-01	Second Issue	01	QS	16.08.2024
1157-A2S-XX-XX-RP-Y-0002-02	Third Issue	02	QS	10.09.2024

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3. Ground Conditions 4
4. Impact Assessment Methodology 7
5. Conclusions & Closing Remarks 17

1. Introduction

A-squared Studio Engineers Ltd (A-squared) has been appointed by Expedition Engineering Ltd (Expedition) to undertake a Ground Movement Assessment (GMA) for the Dyne House and Island development in Highgate, London.

The A-squared scope comprises an assessment of the potential impact of the proposed redevelopment works on the various neighbouring properties.

1.1. Study Aims & Objectives

A ground movement and impact assessment has been carried out in order to estimate the potential damage induced by the proposed redevelopment at the Dyne House and Island sites of Highgate School on the neighbouring properties.

The scheme includes the renovation and extension of the existing Dyne House, and the demolition of the existing structures, excavation of one- to three-level basements, and construction of one- to two-storey structures on both the Island plot and the eastern section of the Dyne House plot.

The assessment encompasses properties located within the *zone of influence* of the proposed scheme. The GMA assessment is based on *greenfield* ground movements which are unlikely to be exceeded. The adopted assessment methodology provides a robust and conservative assessment, representative of current industry best practice, as detailed in Section 8.

The assessment carried out and described herein aims to:

- Assess the impact on ground movements induced by the proposed works on properties adjacent to the development under consideration.
- Provide performance criteria and inform aspects of substructure construction and design.

This report provides a detailed description of the:

- Site and proposed development.
- Modelling parameters and input.
- Analyses and results.

2. The Site & Development

2.1. Site Location and Proposed Development

The proposed development is located within the Highgate School campus along Southwood Lane, Highgate, London, N6 5EE, as shown in Figure 2.1, and is comprised of the Dyne House and Island plots in the east and west, respectively. The entire site falls within the administrative boundaries of the London Borough of Haringey. Highgate Underground Station is located approximately 620m north of the site.

The Island plot is generally flat, with ground elevation of approximately +126.0mOD. The Dyne House plot slopes downwards from west to east, with elevations ranging from approximately +126.0mOD to +111.0mOD.

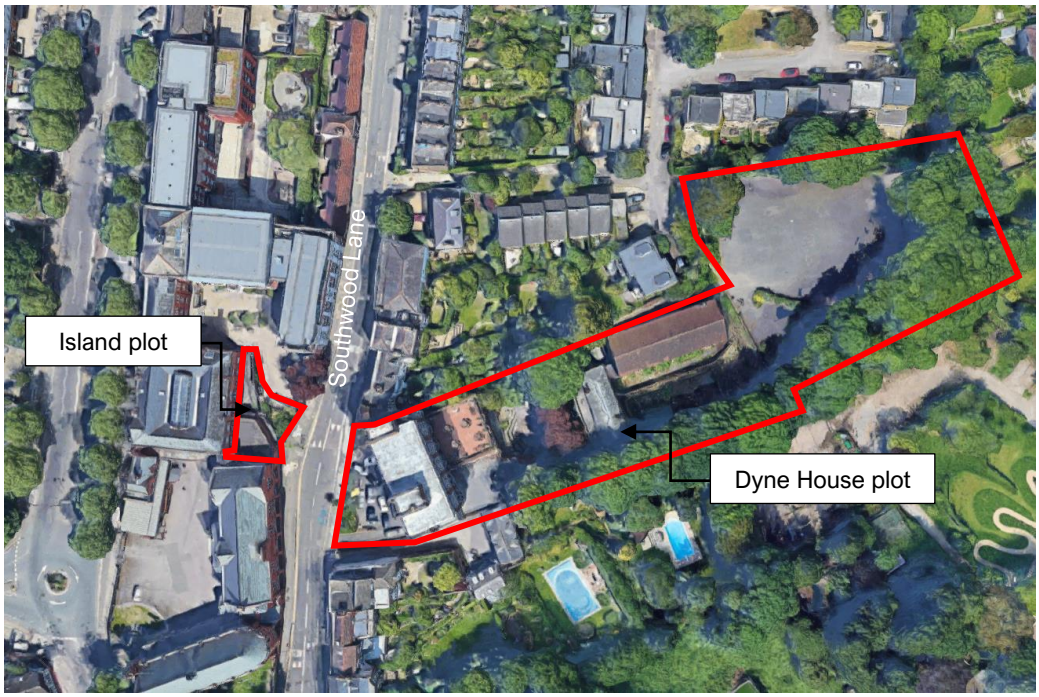


Figure 2.1 Dyne House and Island development locations

The Island plot is currently occupied by a two-storey structure directly adjacent to the Central Hall and Big School buildings of Highgate School. This structure will be demolished, and a two-storey building with one-level basement will be constructed in its place. The approximate depth to formation level of the one-level basement is 4.5mBGL (+121.5mOD).

The Dyne House plot is currently occupied by several structures. Dyne House is a five-storey school building with a one- to two-level basement occupying the western section of the site. The Gym and Geography Building is a two-storey 'L'-shaped structure occupying the centre of the plot. A 1m- to 2m-deep disused swimming pool is located directly south of the Gym and Geography Building. The eastern section of the plot, referred to as the 'Parade Grounds', is covered in asphalt and is currently used as a playground.

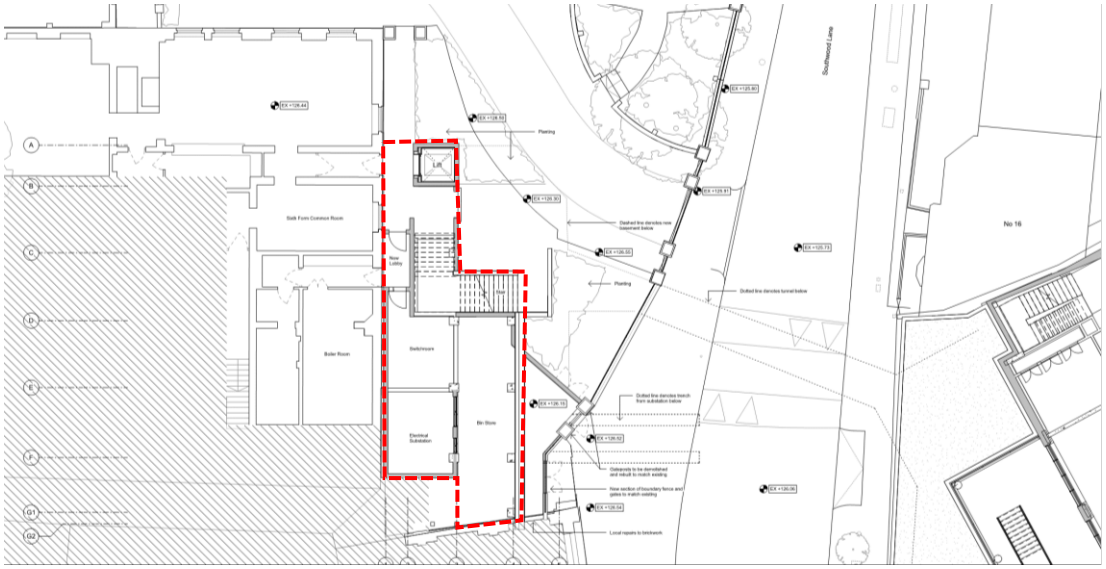
The current proposal involves the expansion of the existing Dyne House structure to the west towards Southwood Lane through the construction of an adjacent one- to five-storey structure and excavation of a one-level basement to depths of approximately 4.0mBGL (+121.0mOD). This is referred to as the 'Dyne House front extension'. The existing Dyne House structure will be extensively redeveloped; however, it is understood that this will not affect the current building height, basement depth and anticipated building loads. The existing Gym and Geography Building will be demolished and a one- to two-level teaching facility with a one- to three-level basement, referred to as the 'Rear Block', will be constructed in its place. Excavation depths for this proposed basement range between 4.0mBGL and 11.0mBGL, due to the sloping nature of the plot (approximate basement formation level at +107.0mOD for

the Rear Block). A one-level bridge link structure, referred to as the 'Bridge Link', is also proposed to connect the redeveloped Dyne House and new teaching facility. No construction is expected to take place within the Parade Grounds.

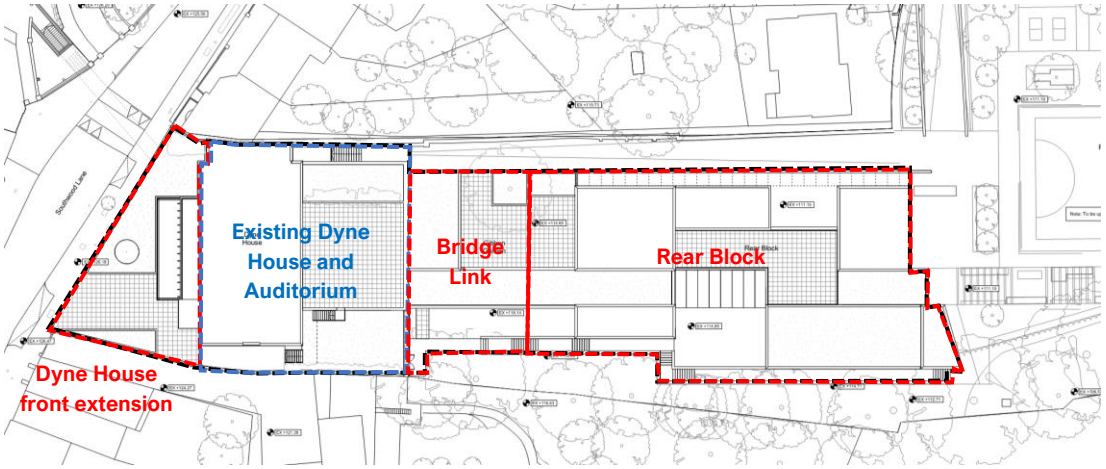
The Dyne House and Island plots are connected via an existing underground link tunnel crossing beneath Southwood Lane. It is understood that no construction works are proposed for this tunnel. The tunnel will be accessible through the proposed one-level basement at the Island plot and the proposed one-level basement underneath the Dyne House extension.

Based on the *Highgate School Dyne House III: RIBA Stage 2 Report* prepared by Expedition in October 2018, the proposed structures on the Island plot will be supported by 10m-long pile foundations. The Bridge Link and Rear Block are understood to be supported by 15m-long piles, while the existing Dyne House structure and proposed Dyne House front extension will be supported by shallow pad foundations. The excavations are understood to be supported by embedded retaining walls.

The proposed building footprints for the Dyne House and Island plots are shown in Figure 2.2.



(a) Island plot



(b) Dyne House plot

Source: *Highgate Schools Dyne House 3* drawings provided by Expedition Engineering Ltd (04/11/2019).
Proposed building footprints shown in red.

Figure 2.2 Proposed building footprints

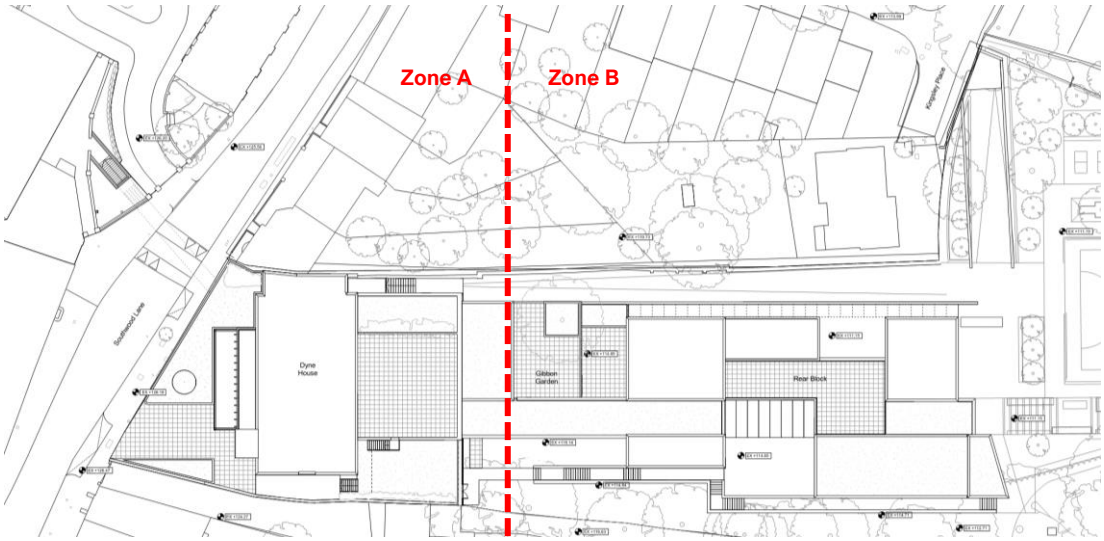
3. Ground Conditions

Site-specific ground investigation works were carried out on the project site by Geotechnical & Environmental Associates Ltd (GEA) between March and May 2015. Further ground investigation particularly at Island plot site was carried out by Listers Geotechnics Ltd in 2018. The ground conditions at the site were generally found to comprise the following (in order of succession):

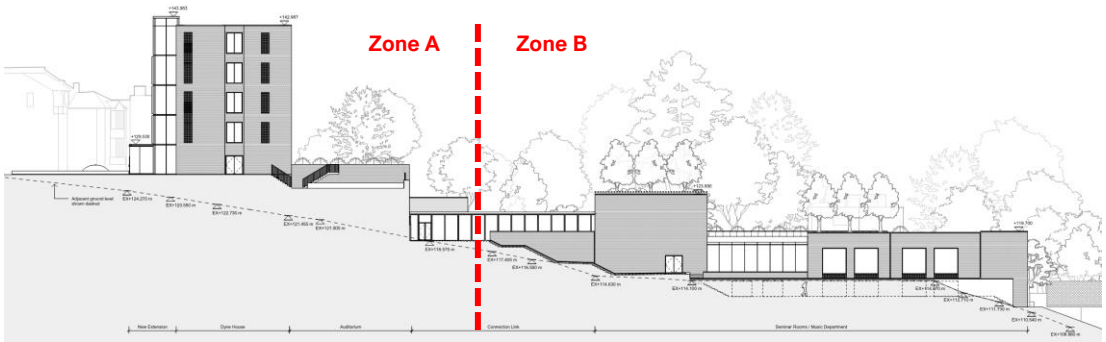
- Made Ground – topsoil and anthropogenic deposits of undifferentiated clays, sands and gravels.
- Bagshot Formation – firm light brown to brown silty sandy gravelly CLAY / SAND with sand partings.
- Claygate Member – firm to stiff brown / orange slightly silty CLAY with occasional silt partings.
- London Clay Formation – stiff to very stiff fissured brown CLAY with occasional rare bands of silty sand.

The above include the strata of engineering interest and significance, taking cognisance of the scale of the proposed development and zone of influence. The thickness of the Bagshot Formation was observed to reduce from west to east, following the slope of the ground surface. In the eastern sections of the site (i.e. underneath the Rear Block and Parade Grounds), the Bagshot Formation was no longer observed, and the Made Ground stratum was found to directly overlie the Claygate Member.

The entire site has been simplified and discretised and into two separate soil zones, as shown in Figure 3.1, to take into account the changes in elevation of the ground surface and differences in observed strata: Zone A, representing the western portions of the site (including the Island plot), and Zone B, representing the eastern portions of the site. The Bagshot Formation is absesnt in Zone B.



(a) Plan view



(b) Profile view

Figure 3.1 Plan and profile views showing Zone A and Zone B

The two ground models adopted for this assessment are presented in Table 3.1 and Table 3.2. The strength and stiffness profiles of the Bagshot Formation and Claygate Member were found to be consistent with respect to depth below ground level, regardless of ground surface elevation, indicating that the site may be located on an anticline.

Table 3.1 Zone A ground model and geotechncial parameters adopted for analysis purposes

Stratum	Depth (mBGL)	Thickness (m)	Undrained Shear Strength, Cu (kPa)	Undrained Young's Modulus, E_u [2] (MPa)	Drained Young's Modulus, E' [2] (MPa)
Made Ground	0.0	1.5	-	-	10.0
Bagshot Formation	1.5	11.5	-	-	44.0
Claygate Member + London Clay[6][7]	13.0	45.0[8]	23+8.0z[9]	9.2 + 3.2z[9]	7.4 + 2.6z[9]

1. Ground model based on previous site-specific ground investigation undertaken by GEA. This data has been interpreted specifically for the scope of the GMA presented herein.
2. Stiffness data (E_u and E') has been evaluated empirically from in-situ testing data taking into consideration the nature of the geotechnical/soil-structure interaction mechanisms and level of anticipated strain within the soil mass.
3. Undrained shear strength, c_u, of the Claygate Member and London Clay has been estimated from SPT N_{60} values and unconsolidated undrained (UU) triaxial tests. SPT N_{60} and c_u have been correlated using the ratio $c_u/N_{60} = f_1 = 4.5$, per CIRIA C143.
4. The drained stiffness, E' of Bagshot Formation has been estimated from SPT N60 values correlated using E' = 2N, per CIRIA C143.
5. Undrained stiffness of the London Clay and Claygate Member has been estimated using the relationship $E_u/c_u = 400$.
6. The closest deep BGS boreholes show that the London Clay formation extends to depths of approximately 129.0mBGL. The entire excavation is thus assumed to take place within the Bagshot Formation, Claygate Member, and London Clay.
7. The Claygate Member and London Clay strata were assumed to follow a continuous stiffness profile.
8. *Rigid boundary* was assumed at 58.0mBGL for analytical purposes.
9. z refers to the depth in metres below the top of the Claygate Member and London Clay formation. Lower bound stiffness values adopted for GMA purposes only.

Table 3.2 Zone B ground model and geotechncial parameters adopted for analysis purposes

Stratum	Depth (mBGL)	Thickness (m)	Undrained Young's Modulus, E_u [2] (MPa)	Drained Young's Modulus, E' [2] (MPa)
Made Ground	0.0	1.0	-	10.0
Claygate Member + London Clay[6][7]	1.0	57.0[8]	9.2 + 3.2z[9]	7.4 + 2.6z[9]

1. Ground model based on previous site-specific ground investigation undertaken by GEA. This data has been interpreted specifically for the scope of the GMA presented herein.
2. Stiffness data (E_u and E') has been evaluated empirically from in-situ testing data taking into consideration the nature of the geotechnical/soil-structure interaction mechanisms and level of anticipated strain within the soil mass.
3. The closest deep BGS boreholes show that the London Clay formation extends to depths of approximately 129.0mBGL. The entire excavation is thus assumed to take place within the Bagshot Formation, Claygate Member, and London Clay.
4. Undrained shear strength, c_u, of the Claygate Member and London Clay has been estimated from SPT N_{60} values and unconsolidated undrained (UU) triaxial tests. SPT N_{60} and c_u have been correlated using the ratio $c_u/N_{60} = f_1 = 4.5$, per CIRIA C143.
5. Undrained stiffness of the London Clay and Claygate Member has been estimated using the relationship $E_u/c_u = 400$.
6. The Claygate Member and London Clay strata were assumed to follow a continuous stiffness profile.

7. *Rigid boundary* was assumed at 58.0mBGL for analytical purposes.
8. z refers to the depth in metres below the top of the Claygate Member and London Clay formation. Lower bound stiffness values adopted for GMA purposes only.

4. Impact Assessment Methodology

4.1. Assessment Details

The assessment has been undertaken using proprietary spreadsheets and the commercially available software Oasys Pdisp and Xdisp, which consider the three-dimensional ground movement field induced by the proposed excavation works.

Ground movements will arise as a result of various mechanisms which are mobilised as part of the construction works for the proposed scheme. The demolition of the existing buildings and basement excavations will induce ground movements arising from the overburden removal and installation of the proposed retention system. The permanent condition loading will partially reinstate a portion of the removed overburden, yielding settlements across the foundation system. The induced ground movements will extend over a given zone of influence surrounding the building/excavation footprint.

A series of three-dimensional models of the proposed scheme have been developed in Oasys Xdisp/Pdisp and combined by means of superposition in order to enable ground movement assessments to be carried out representing the various construction stages. The ground movement displacement fields were separated in two groups (A & B) based on the approach followed, as detailed below:

Group A – Unloading/Loading ground movements

A1. Building demolition and basement excavation (short-term).

A2. Building demolition, basement excavation, and application of the proposed building loading (long-term).

Group B – CIRIA-based ground movements

B1. Embedded retaining wall installation and basement excavation.

B2. Embedded retaining wall installation, basement excavation, and application of the proposed building loading (long-term).

The Group A assessments are based on *greenfield* ground movements evaluated from linear half-space (Pdisp) analyses and focus on vertical ground movements induced by the overburden removal unloading and reloading processes.

A demolition pressure of 30kPa has been applied over the footprints of the three existing buildings to be demolished on both sites (approximately 15kPa/storey), as shown in Figure 4.1.



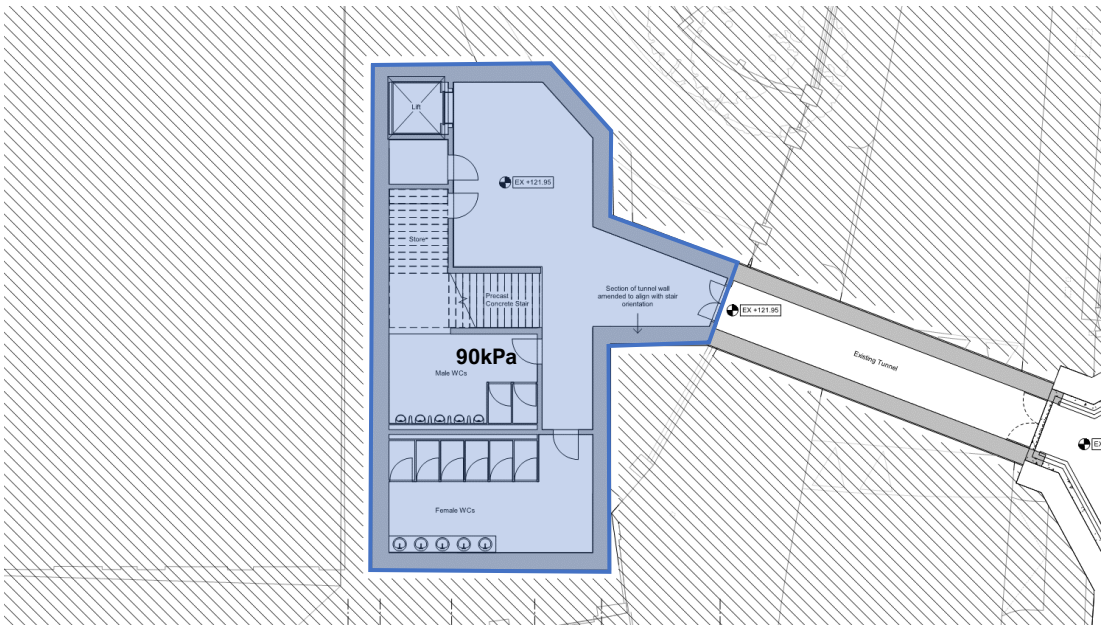
(a) Island plot



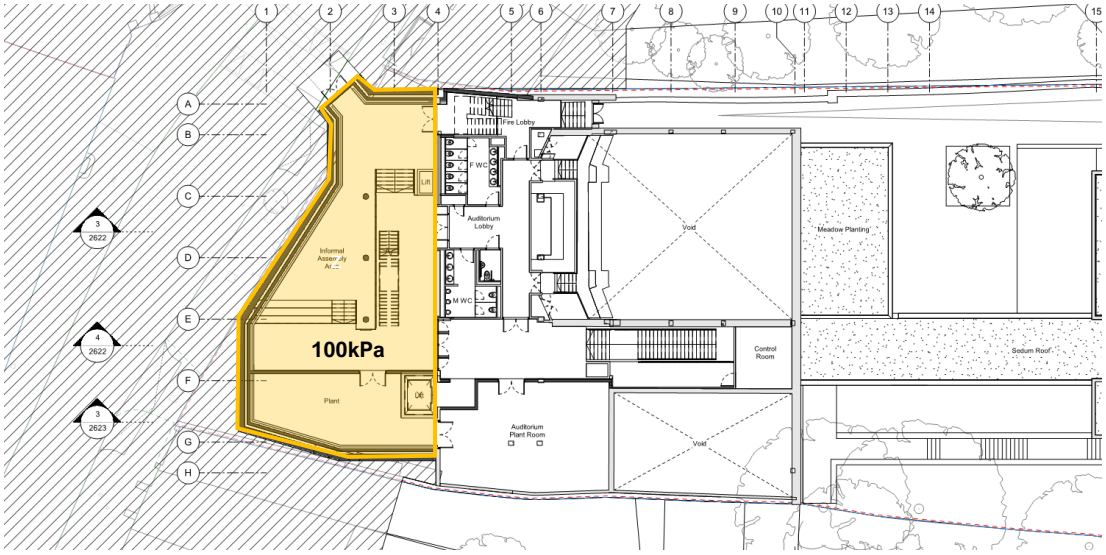
(b) Dyne House plot

Figure 4.1 Modelled demolition area in Pdisp

Excavation unloading pressures have been modelled at the basement formation levels representing the removal of approximately 4.5m (90kPa) of overburden at the Island plot and 4.0m (80kPa) to 11.0m (220kPa) of overburden at the Dyne House plot. The modelled excavation geometries are shown in Figure 4.2.



(a) Island plot



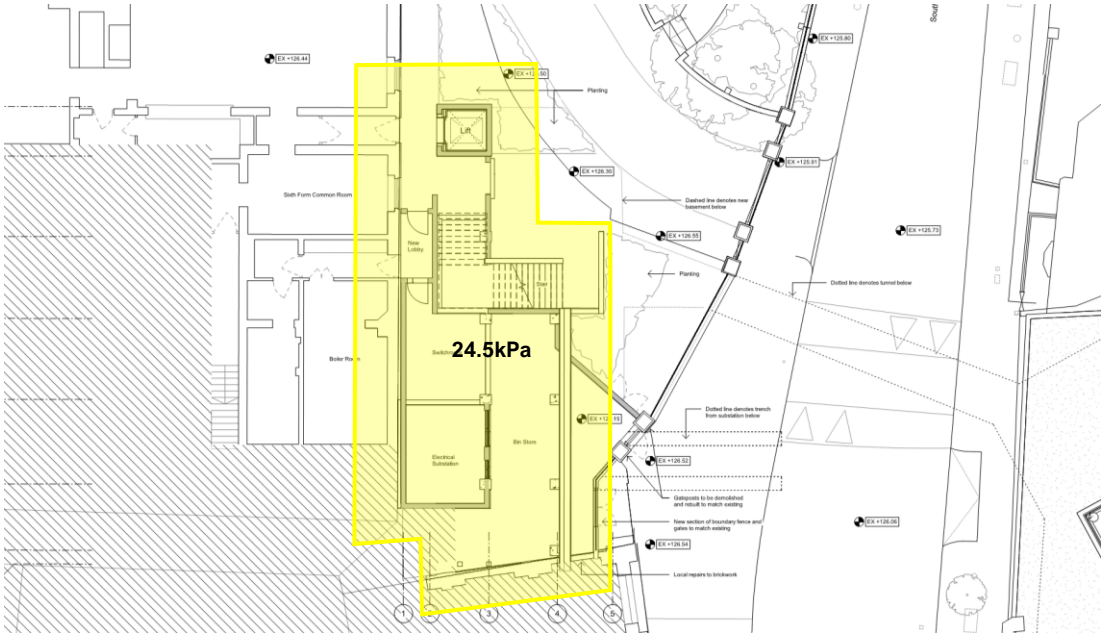
(b) Dyne House plot – Dyne House front extension



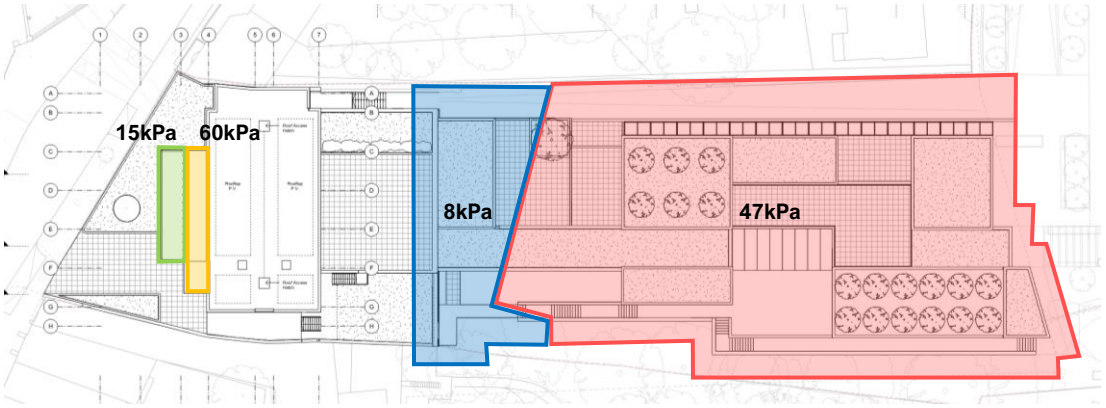
(c) Dyne House plot – Rear block

Figure 4.2 Modelled excavation areas in Pdisp

The proposed structure on the Island plot will have two storeys and will be supported by 10m-long piles. The proposed one- to five-storey Dyne House front extension will be supported by shallow foundations, while the one-storey Bridge Link and one- to three-storey Rear Block will be supported by 15m-long piles. Based on an assumed surcharge of 15kPa/storey, uniformly distributed loading pressures have been modelled either at basement formation level (for structures on shallow foundations) or as an equivalent pressure at depths equal to 2/3 of the proposed bearing pile lengths, assuming a 1:4 (horizontal:vertical) load spread distribution with depth (for structures supported by pile foundations). Foundation types and pile lengths have been assumed based on the *Highgate School Dyne House III: RIBA Stage 2 Report* provided by Expedition. Figure 4.3 shows the modelled loading pressures for the various proposed structures.



(a) Island plot



(b) Dyne House plot

Figure 4.3 Modelled loading areas in Pdisp

The Group B assessments adopt the normalised ground displacement curves reported in CIRIA C760. In addition to the effects arising from the basement excavation, the ground movement effects associated with the installation of the embedded retaining wall have been considered. The following CIRIA C760 normalised ground movement curves were adopted to assess ground movements due to retention system installation and excavation works:

- *Embedded retaining wall*: Installation of contiguous bored pile wall in stiff clay.
- *Excavation to formation*: Excavation in front of a high stiffness wall in stiff clay.

The modelling of the contiguous pile wall curve has been deemed suitable for calculating the installation effects of secant piled walls, contiguous piled walls, and/or sheet pile walls (assuming pre-boring or jetting installation aids, which may be required).

In the B2 assessment, the CIRIA ground movements are combined with the long-term settlements induced by the loading redistribution (evaluated in Pdisp).

The two sets of analyses enabled the evaluation of an envelope of damage classification results, with the worst-case results presented herein. A representative geometry has been adopted for defining the excavation/installation geometry implemented in the 3D modelling efforts, as shown in Figure 4.4.

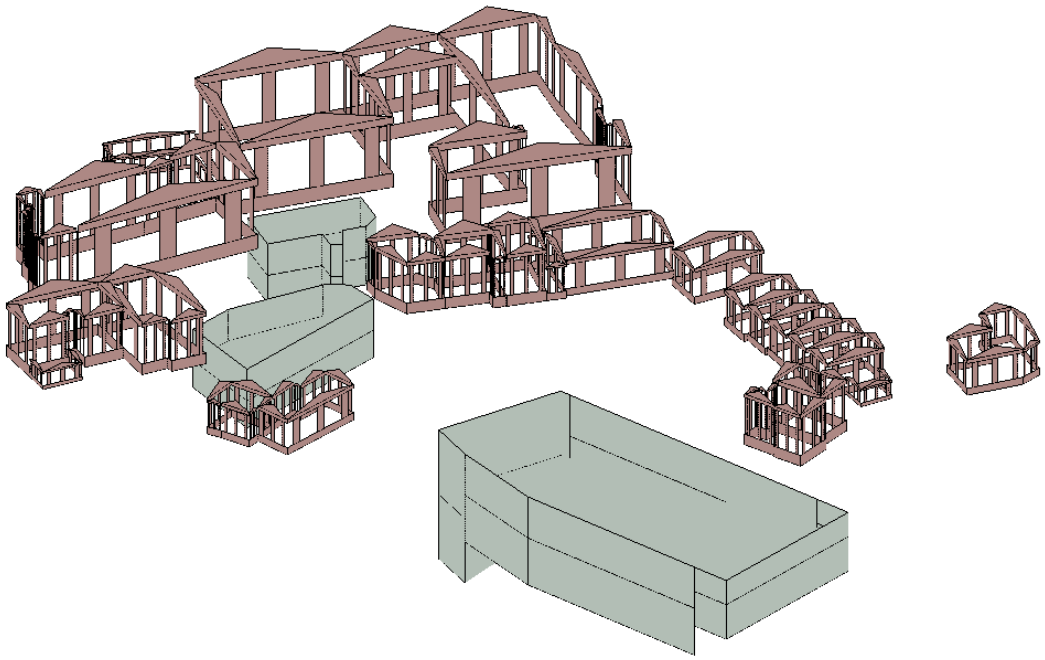


Figure 4.4 Indicative plot of the three-dimensional analytical model using the Oasys Xdisp software suite

4.2. Impact Assessment

4.2.1. General

The potential impact/damage induced on primary façade/wall elements of the buildings surrounding the proposed scheme have been evaluated on the basis of the calculated ground movement fields. Façades of the existing Dyne House building and auditorium were not considered in this analysis. The masonry walls of concern are shown in Figure 4.5, including the wall nomenclature/reference system adopted. The arrangement is based on the currently available survey information and presents an array of masonry façades running both perpendicular and parallel to the proposed basements (covering the key deformation mechanisms). In total, 142 façades of the neighbouring buildings were considered for the current study and these are grouped in the following manner:

- BS-01 – BS-18: Highgate School – Big School Building
- SB-01 – SB-14: Highgate School – Science Building
- HL-01 – HL-03: Highgate School – Link Building
- CH-01 – CH-11: Highgate School – Central Hall
- 10S-01 – 10S-11: 10 Southwood Lane
- 12S-01 – 12S-06: 12 Southwood Lane
- 14S-01 – 14S-12: 14 Southwood Lane
- 16S-01 – 16S-06: 16 Southwood Lane
- 18S-01 – 18S-05: 18 Southwood Lane
- 20S-01 – 20S-07: 20 Southwood Lane
- 22S-01 – 22S-04: 22 Southwood Lane
- HT-01 – HT-04: Highgate Tabernacle
- 23K-01 – 23K-19: 23-27 Kingsley Place
- 23AB-01 – 23AB-15: 23A & 23B Kingsley Place
- 28K-01 – 28K-07: 28 Kingsley Place

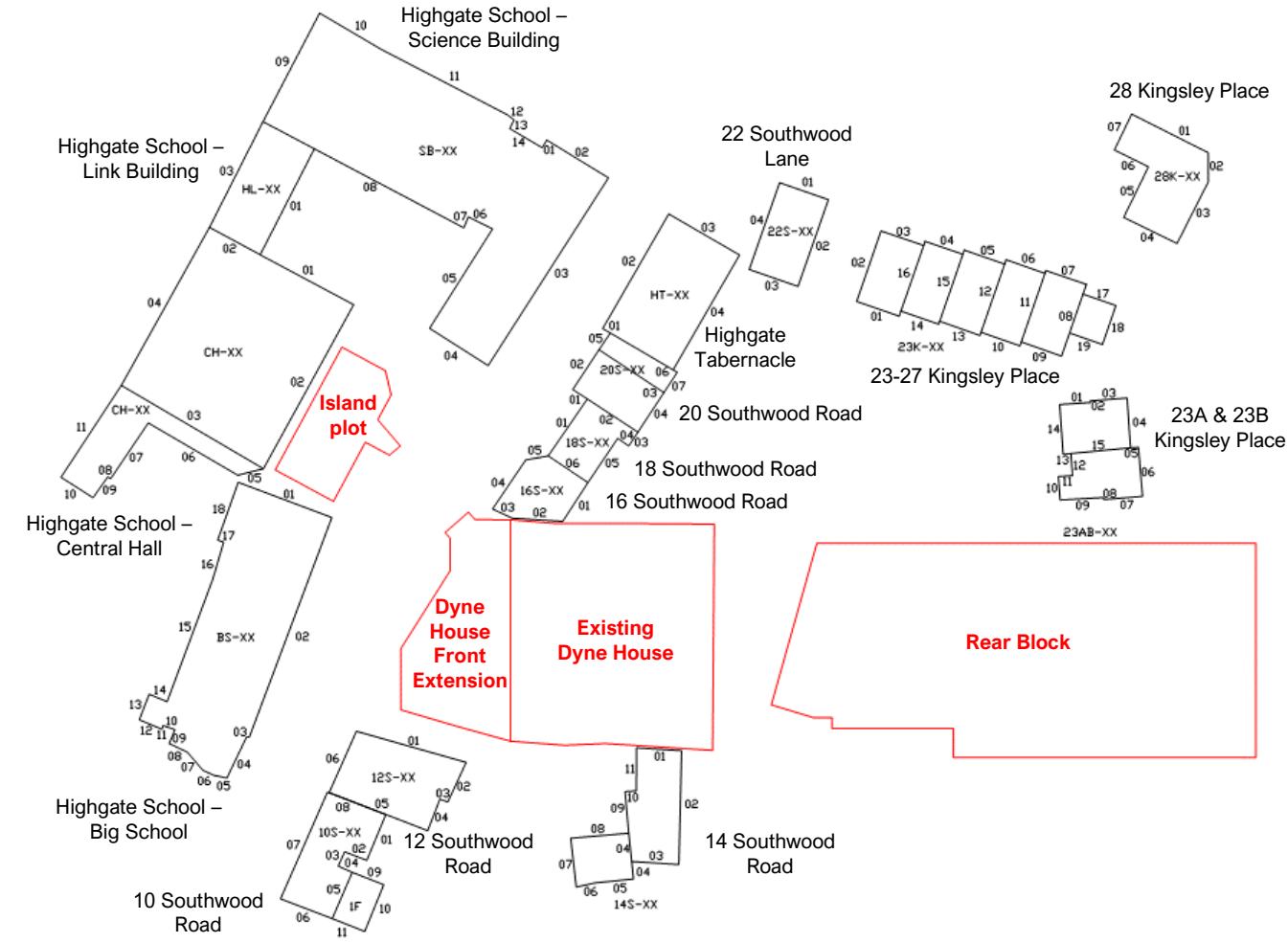


Figure 4.5 Simplfied scheme and nomenclature for each building façade/masonry wall element

Each wall has been assumed to behave as an equivalent beam subject to a bending and extension/compression deformation mechanism, based on the evaluated greenfield ground movement, as outlined previously.

Tensile strains induced within the building masonry walls have been evaluated based on the deflection ratios Δ/L and horizontal extension mechanisms estimated from the analyses. The assessment considers the well-established Burland (1997) damage classification method, as presented and summarised in Figure 4.6 and Figure 4.7. This method involves a relatively simple but robust means of assessment, which is widely adopted and is considered to comprise an industry standard/best practice basis for impact assessments of this typology.

Potential damage categories are directly related to the tensile strains induced by the proposed construction stages, arising from a combination of direct tension and bending induced tension mechanisms. The evaluated damage categories correspond to an unlikely to be exceeded scenario (on the basis of the data sets adopted and greenfield assumptions).

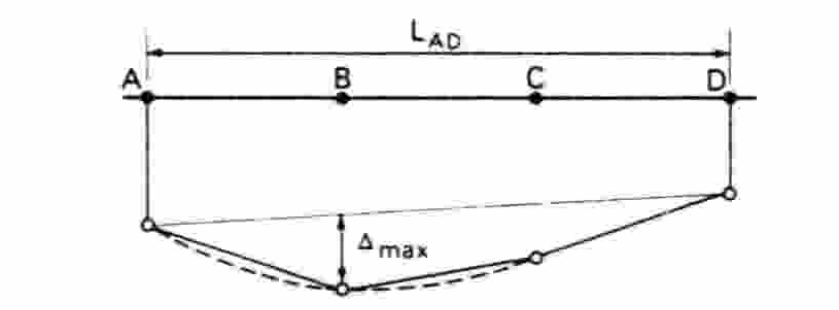


Figure 4.6 Definition of relative deflection Δ and deflection ratio Δ/L

Category of damage	Description of typical damage (ease of repair is underlined)	Approximate crack width (mm)	Limiting tensile strain ε_{lim} (per cent)
0 Negligible	Hairline cracks of less than about 0.1 mm are classed as negligible.	< 0.1	0.0–0.05
1 Very slight	Fine cracks that can easily be treated during normal decoration. Perhaps isolated slight fracture in building. Cracks in external brickwork visible on inspection.	< 1	0.05–0.075
2 Slight	Cracks easily filled. Redecoration probably required. Several slight fractures showing inside of building. Cracks are visible externally and some repointing may be required externally to ensure weathertightness. Doors and windows may stick slightly.	< 5	0.075–0.15
3 Moderate	The cracks require some opening up and can be patched by a mason. Recurrent cracks can be masked by suitable linings. Repointing of external brickwork and possibly a small amount of brickwork to be replaced. Doors and windows sticking. Service pipes may fracture. Weathertightness often impaired.	5–15 or a number of cracks > 3	0.15–0.3
4 Severe	Extensive repair work involving breaking-out and replacing sections of walls, especially over doors and windows. Windows and frames distorted, floor sloping noticeably. Walls leaning or bulging noticeably, some loss of bearing in beams. Service pipes disrupted.	15–25 but also depends on number of cracks	> 0.3
5 Very severe	This requires a major repair involving partial or complete rebuilding. Beams lose bearings, walls lean badly and require shoring. Windows broken with distortion. Danger of instability.	usually > 25 but depends on number of cracks.	

After Burland et al. 1977, Boscardin and Cording 1989, and Burland 2001.

Figure 4.7 Building damage classification – relationship between category of damage and limiting strain ε_{lim}

4.2.2. Results

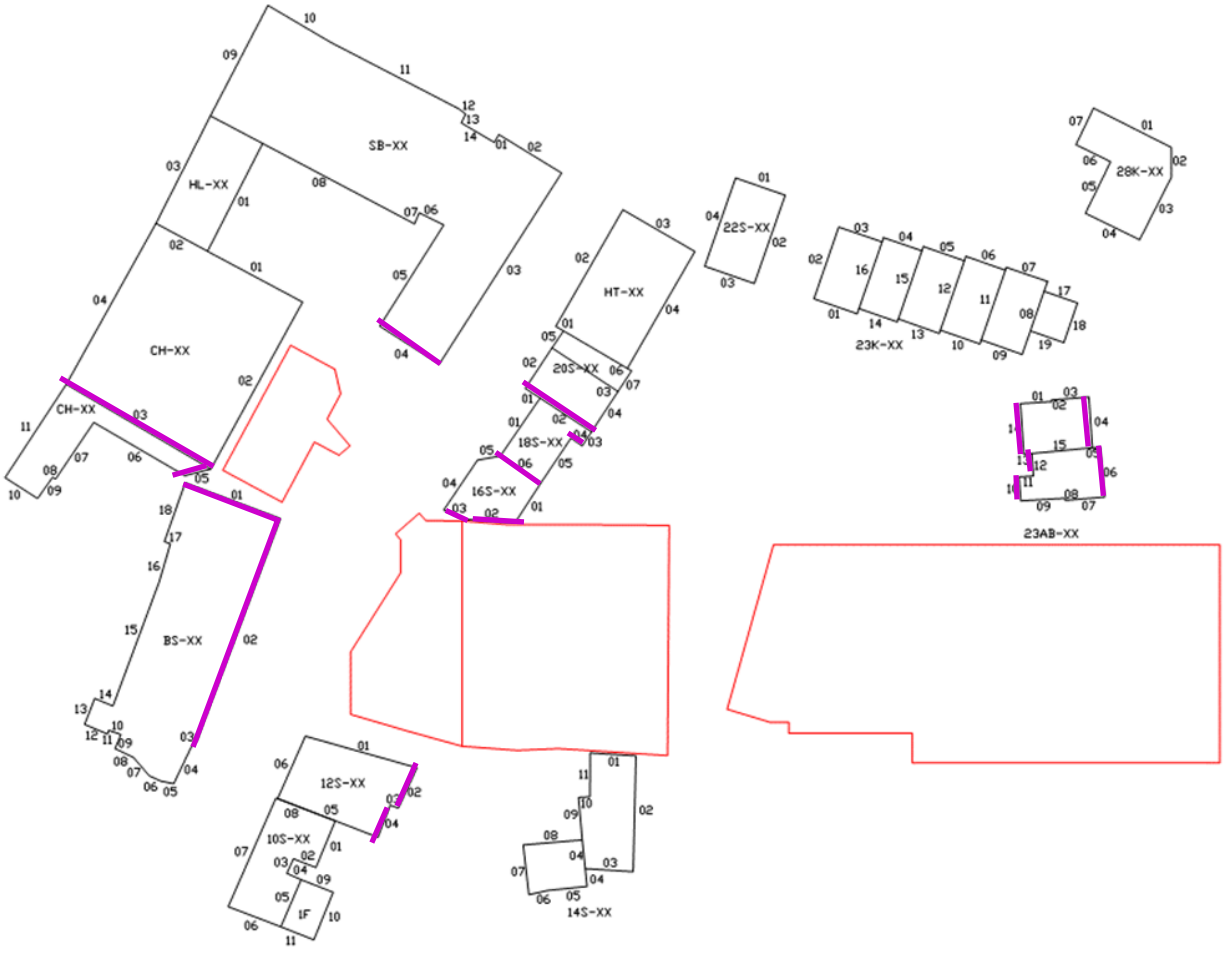
The results of the assessment indicate that eleven façades will experience damage *Category 1 – Very Slight* throughout the construction works. The affected façades are presented in Table 4.1 and Figure 4.8. The remaining façades are not expected to exceed damage *Category 0 – Negligible* and are omitted from the table below. Figure 4.9 and Figure 4.10 depict the vertical and

horizontal displacements, respectively, induced by the retaining wall installation and excavation calculated using CIRIA C760 datasets (i.e. assessment B1). It is noted that excavation works of the eastern side of Dyne House extension may induce ground movements on the adjacent façades of the existing one-level basement, but these have not been considered in this analysis.

Table 4.1 Evaluated damage categories resulting from the assessment (façades which do not exceed Category 0 are not presented)

Façade Reference	Analysis Scenario			
	A1	A2	B1	B2
16S-02	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
16S-03	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
16S-06	Category 0 – Negligible	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight
18S-02	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
18S-04	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
BS-01	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
BS-02	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
SB-04	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
CH-03	Category 0 – Negligible	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight
CH-05	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
12S-02	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
12S-04	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
23AB-02	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight

Façade Reference	Analysis Scenario			
	A1	A2	B1	B2
23AB-04	Category 0 – Negligible	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight
23AB-06	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
23AB-08	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
23AB-10	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
23AB-12	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight
23AB-14	Category 0 – Negligible	Category 0 – Negligible	Category 1 – Very Slight	Category 1 – Very Slight



Purple – Category 1 (Very Slight)

Figure 4.8 Damage category results from Group A and Group B assessments

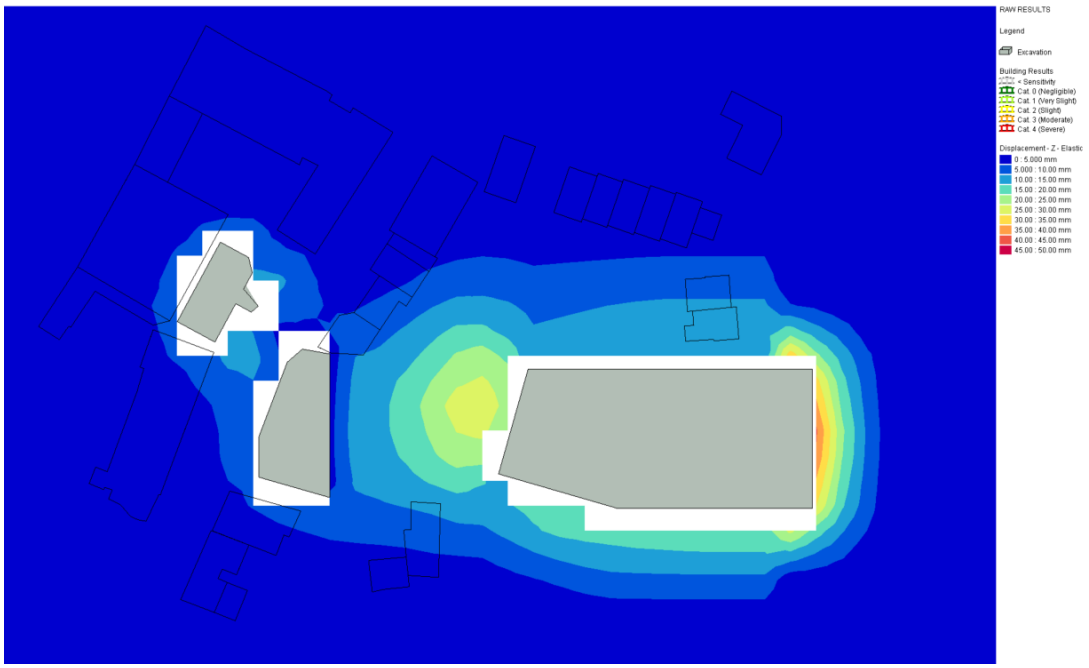


Figure 4.9 Resultant Xdisp vertical displacement contours for scenario B1 – units in mm – retaining wall installation and excavation (CIRIA C760)

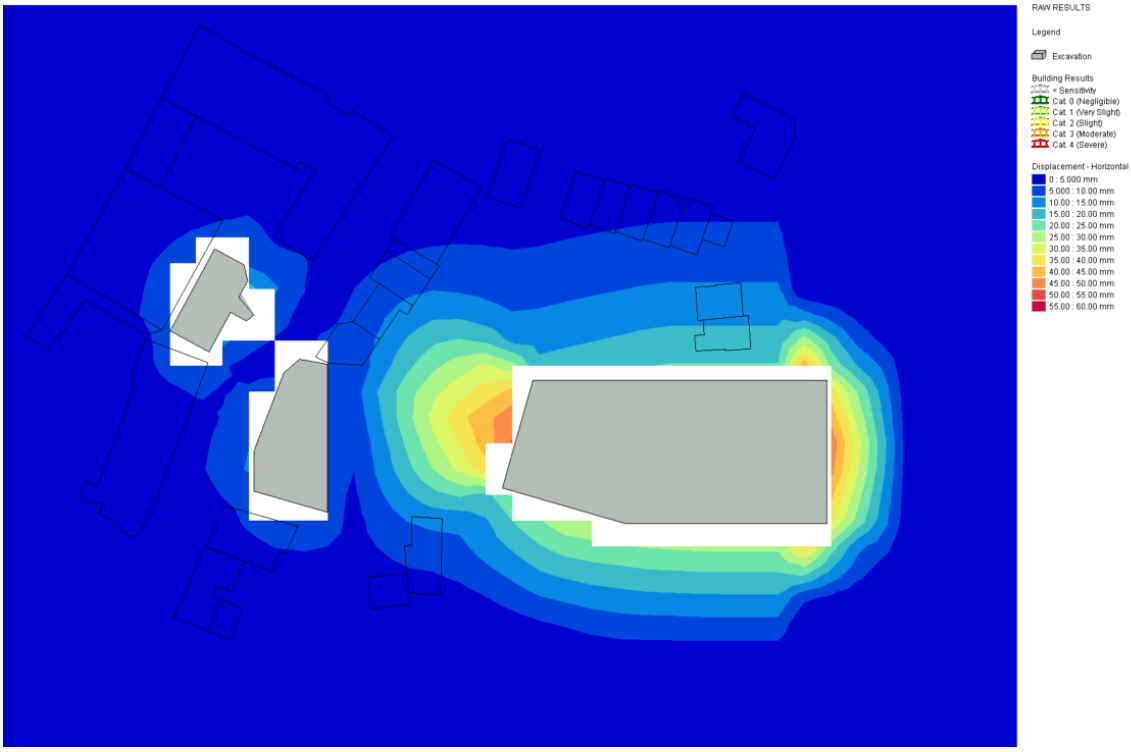


Figure 4.10 Resultant Xdisp horizontal displacement contours for scenario B1 – units in mm – retaining wall installation and excavation (CIRIA C760)

5. Conclusions & Closing Remarks

The interaction between the proposed Dyne House and Island developments and the neighbouring properties within the zone of influence of the schemes has been reviewed as part of the GMA study presented herein.

The proposed development construction operations comprise a series of stages, including the demolition of the two existing structures, installation of the embedded retaining wall, bulk excavation, and construction of the proposed permanent works elements. The impact of the various construction stages has been reviewed on the basis of two alternative methods, i.e. evaluating the effects of unloading / overburden removal using Pdisp and simulating the excavation-induced ground movement fields using empirical CIRIA curves in Xdisp. In the latter case, a propped embedded retaining wall solution (during the temporary works stage) has been considered, utilising the CIRIA C760 ground movement curves for excavation in front of *high stiffness walls in stiff clay*.

These two different scenarios have been considered in order to bind the potential ground movements arising from excavation operations (i.e. maximum potential heave and settlement respectively). This strategy ensures a robust evaluation of potential impact in light of the bespoke, intricate and workmanship-dependent construction methodology. Both short-term (undrained) and long-term (drained) conditions have been assessed by adopting the relevant soil stiffness parameters for each case. Outline retaining wall calculations have been carried out with WALLAP to inform validate the assumptions made in this assessment.

In order to best limit ground movements in proximity to movement sensitive neighbouring buildings, due consideration may be given to suitable means and methods of construction. For example, reducing the extent of temporary excavations during earth removal operations in close proximity to buildings considered to be at most risk of damage.

The results from the GMA (denoting the evaluated damage categorisation in accordance with the Burland criteria described herein) are presented in Table 4.1. It is observed that the maximum damage classification for the neighbouring properties is *Category 1 – Very Slight*.

It is noted that the predicted ground movements, the associated wall tensile strains, and the level of damage categorisation are considered to be moderately conservative in view of the relatively cautious data selection and *greenfield* nature of the assessment undertaken.

It is also noted that the GMA will be supplemented by a project-specific monitoring regime and Action Plan, which will delineate lines of responsibility, trigger levels in accordance with those presented in this GMA, and appropriate mitigation measures. The assessment presented herein is dependent and reliant on the works being undertaken by an experienced contractor, high quality workmanship and appropriate supervision of construction means and methods by experienced personnel.

It is recommended that this report is reviewed and understood in full by the project team and relevant stakeholders. Where significant changes are made to items such as construction sequencing, temporary propping arrangements and scheme design, the engineer should thoroughly review the change and evaluate any potential impacts on ground movement and building damage. If necessary, the building damage categories should be re-evaluated.

It is critical that the permanent and temporary works designs are carried out in a coordinated manner between performance specified elements and substructure contractors, with the aim to ensure that such design elements are in alignment with the assumptions / findings of the GMA and overall design intent.

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Results : Immediate : Load Centres : Polygonal

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	Demolition - Island	50.24481	87.69775	0.00000	-31.08234	-0.12500	-29.999	-87.717	-0.0018456
2	Demolition - Gym	142.50032	67.85597	0.00000	-39.03018	-0.083333	-29.999	-88.038	-0.0018391
3	Excavation - Island	54.23715	92.51654	-4.50000	-29.56184	-4.7361	-97.278	-273.51	-0.0014098
4	Excavation - DH Extension	70.61353	65.24345	-5.00000	-36.79720	-5.2353	-100.01	-292.21	-0.0013992
5	Excavation - Rear Block 1	115.39120	63.99754	-11.00000	-29.48621	-11.044	-244.13	-751.55	231.58E-6
6	Excavation - Rear Block 2	143.32062	63.93365	-7.00000	-32.83461	-7.1214	-148.12	-438.47	-102.43E-6
7	Excavation - Rear Block 3	170.07170	63.37677	-4.00000	-19.21570	-4.2525	-80.533	-231.67	-253.41E-6

Results : Consolidation : Load Centres : Polygonal

None

Results : Total : Load Centres : Polygonal

None

Results : Immediate : Displacement Data : Lines

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	16S-01	86.49970	85.17730	0.00000	1.48294	-0.12500	-67.769E-9	-0.0082450	164.89E-9
1	16S-01	86.26439	84.81760	0.00000	1.39229	-0.12500	-68.717E-9	-0.0082778	165.55E-9
1	16S-01	86.02907	84.45790	0.00000	1.29368	-0.12500	-69.677E-9	-0.0083101	166.19E-9
1	16S-01	85.79376	84.09820	0.00000	1.18642	-0.12500	-70.650E-9	-0.0083419	166.83E-9
1	16S-01	85.55844	83.73850	0.00000	1.06975	-0.12500	-71.633E-9	-0.0083732	167.46E-9
1	16S-01	85.32313	83.37880	0.00000	0.94287	-0.12500	-72.626E-9	-0.0084038	168.07E-9
1	16S-01	85.08781	83.01910	0.00000	0.80491	-0.12500	-73.628E-9	-0.0084339	168.67E-9
1	16S-01	84.85250	82.65940	0.00000	0.65494	-0.12500	-74.638E-9	-0.0084632	169.25E-9
1	16S-01	84.61719	82.29970	0.00000	0.49199	-0.12500	-75.655E-9	-0.0084918	169.83E-9
1	16S-01	84.38187	81.94000	0.00000	0.31502	-0.12500	-76.676E-9	-0.0085196	170.38E-9
1	16S-01	84.14656	81.58030	0.00000	0.12294	-0.12500	-77.702E-9	-0.0085466	170.92E-9
1	16S-01	83.91124	81.22060	0.00000	-0.08536	-0.12500	-78.729E-9	-0.0085726	171.44E-9
1	16S-01	83.67593	80.86090	0.00000	-0.31105	-0.12500	-79.756E-9	-0.0085977	171.95E-9
1	16S-01	83.44061	80.50120	0.00000	-0.55531	-0.12500	-80.782E-9	-0.0086218	172.43E-9
1	16S-01	83.20530	80.14150	0.00000	-0.81934	-0.12500	-81.803E-9	-0.0086448	172.89E-9
2	16S-02	83.20530	80.14150	0.00000	-0.81934	-0.12500	-81.803E-9	-0.0086448	172.89E-9
2	16S-02	82.73566	80.17139	0.00000	-1.14046	-0.12500	-84.824E-9	-0.0086997	173.98E-9
2	16S-02	82.26601	80.20129	0.00000	-1.48968	-0.12500	-88.267E-9	-0.0087682	175.35E-9
2	16S-02	81.79637	80.23118	0.00000	-1.86915	-0.12500	-92.167E-9	-0.0088510	177.01E-9
2	16S-02	81.32673	80.26107	0.00000	-2.28108	-0.12500	-96.565E-9	-0.0089486	178.96E-9
2	16S-02	80.85709	80.29096	0.00000	-2.72776	-0.12500	-101.51E-9	-0.0090618	181.22E-9
2	16S-02	80.38744	80.32086	0.00000	-3.21153	-0.12500	-107.04E-9	-0.0091914	183.81E-9
2	16S-02	79.91780	80.35075	0.00000	-3.73489	-0.12500	-113.24E-9	-0.0093382	186.75E-9
2	16S-02	79.44816	80.38064	0.00000	-4.30057	-0.12500	-120.15E-9	-0.0095033	190.05E-9
2	16S-02	78.97851	80.41054	0.00000	-4.91187	-0.12500	-127.87E-9	-0.0096877	193.74E-9
2	16S-02	78.50887	80.44043	0.00000	-5.57313	-0.12500	-136.48E-9	-0.0098927	197.84E-9
2	16S-02	78.03923	80.47032	0.00000	-6.29071	-0.12500	-146.07E-9	-0.010120	202.38E-9
2	16S-02	77.56959	80.50021	0.00000	-7.07498	-0.12500	-156.77E-9	-0.010370	207.39E-9
2	16S-02	77.09994	80.53011	0.00000	-7.94438	-0.12500	-168.71E-9	-0.010646	212.90E-9
2	16S-02	76.63030	80.56000	0.00000	-8.92644	-0.12500	-182.04E-9	-0.010949	218.95E-9
3	16S-03	76.63030	80.56000	0.00000	-8.92644	-0.12500	-182.04E-9	-0.010949	218.95E-9
3	16S-03	76.20712	80.75773	0.00000	-9.31377	-0.12500	-196.77E-9	-0.011278	225.53E-9
3	16S-03	75.78393	80.95547	0.00000	-9.48265	-0.12500	-213.22E-9	-0.011638	232.73E-9
3	16S-03	75.36075	81.15320	0.00000	-9.51654	-0.12500	-231.61E-9	-0.012032	240.60E-9
3	16S-03	74.93757	81.35093	0.00000	-9.45954	-0.12500	-252.19E-9	-0.012461	249.20E-9
3	16S-03	74.51438	81.54867	0.00000	-9.33303	-0.12500	-275.27E-9	-0.012931	258.58E-9
3	16S-03	74.09120	81.74640	0.00000	-9.15024	-0.12500	-301.19E-9	-0.013443	268.82E-9
4	16S-04	74.09120	81.74640	0.00000	-9.15024	-0.12500	-301.19E-9	-0.013443	268.82E-9
4	16S-04	74.36064	82.14321	0.00000	-7.97041	-0.12500	-290.55E-9	-0.013237	264.70E-9
4	16S-04	74.63009	82.54001	0.00000	-6.92724	-0.12500	-279.99E-9	-0.013027	260.51E-9
4	16S-04	74.89953	82.93682	0.00000	-6.00003	-0.12500	-269.54E-9	-0.012816	256.29E-9
4	16S-04	75.16898	83.33362	0.00000	-5.17343	-0.12500	-259.24E-9	-0.012603	252.03E-9
4	16S-04	75.43842	83.73043	0.00000	-4.43519	-0.12500	-249.12E-9	-0.012390	247.77E-9
4	16S-04	75.70786	84.12724	0.00000	-3.77516	-0.12500	-239.21E-9	-0.012176	243.49E-9
4	16S-04	75.97731	84.52404	0.00000	-3.18464	-0.12500	-229.53E-9	-0.011963	239.23E-9
4	16S-04	76.24675	84.92085	0.00000	-2.65610	-0.12500	-220.10E-9	-0.011751	234.99E-9
4	16S-04	76.51619	85.31766	0.00000	-2.18287	-0.12500	-210.93E-9	-0.011540	230.78E-9
4	16S-04	76.78564	85.71446	0.00000	-1.75904	-0.12500	-202.03E-9	-0.011331	226.60E-9
4	16S-04	77.05508	86.11127	0.00000	-1.37929	-0.12500	-193.42E-9	-0.011125	222.47E-9
4	16S-04	77.32452	86.50807	0.00000	-1.03889	-0.12500	-185.11E-9	-0.010921	218.40E-9
4	16S-04	77.59397	86.90488	0.00000	-0.73355	-0.12500	-177.09E-9	-0.010720	214.38E-9
4	16S-04	77.86341	87.30169	0.00000	-0.45946	-0.12500	-169.36E-9	-0.010523	210.43E-9
4	16S-04	78.13286	87.69849	0.00000	-0.21320	-0.12500	-161.94E-9	-0.010329	206.55E-9
4	16S-04	78.40230	88.09530	0.00000	0.00829	-0.12500	-154.82E-9	-0.010138	202.74E-9
5	16S-05	78.40230	88.09530	0.00000	0.00829	-0.12500	-154.82E-9	-0.010138	202.74E-9
5	16S-05	78.88938	88.18518	0.00000	0.17081	-0.12500	-143.41E-9	-0.0098536	197.05E-9
5	16S-05	79.37647	88.27507	0.00000	0.32645	-0.12500	-133.19E-9	-0.0095939	191.86E-9
5	16S-05	79.86355	88.36495	0.00000	0.47502	-0.12500	-124.04E-9	-0.0093572	187.13E-9
5	16S-05	80.35063	88.45483	0.00000	0.61640	-0.12500	-115.83E-9	-0.0091419	182.82E-9
5	16S-05	80.83772	88.54472	0.00000	0.75059	-0.12500	-108.47E-9	-0.0089464	178.91E-9
5	16S-05	81.32480	88.63460	0.00000	0.87766	-0.12500	-101.86E-9	-0.0087694	175.37E-9
6	16S-06	81.32480	88.63460	0.00000	0.87766	-0.12500	-101.86E-9	-0.0087694	175.37E-9
6	16S-06	81.69444	88.38765	0.00000	0.91118	-0.12500	-97.622E-9	-0.0086740	173.47E-9
6	16S-06	82.06407	88.14070	0.00000	0.94650	-0.12500	-93.717E-9	-0.0085883	171.75E-9
6	16S-06	82.43371	87.89375	0.00000	0.98363	-0.12500	-90.132E-9	-0.0085118	170.23E-9
6	16S-06	82.80334	87.64680	0.00000	1.02253	-0.12500	-86.849E-9	-0.0084446	168.88E-9
6	16S-06	83.17298	87.39985	0.00000	1.06315	-0.12500	-83.853E-9	-0.0083863	167.72E-9
6	16S-06	83.54261	87.15290	0.00000	1.10538	-0.12500	-81.128E-9	-0.0083368	166.73E-9
6	16S-06	83.91225	86.90595	0.00000	1.14911	-0.12500	-78.663E-9	-0.0082960	165.91E-9
6	16S-06	84.28189	86.65900	0.00000	1.19418	-0.12500	-76.443E-9	-0.0082638	165.27E-9
6	16S-06	84.65152	86.41205	0.00000	1.24043	-0.12500	-74.460E-9	-0.0082400	164.79E-9
6	16S-06	85.02116	86.16510	0.00000	1.28769	-0.12500	-72.702E-9	-0.0082246	164.48E-9
6	16S-06	85.39079	85.91815	0.00000	1.33576	-0.12500	-71.161E-9	-0.0082174	164.34E-9
6	16S-06	85.76043	85.67120	0.00000	1.38446	-0.12500	-69.830E-9	-0.0082184	164.36E-9
6	16S-06	86.13006	85.42425	0.00000	1.43358	-0.12500	-68.701E-9	-0.0082277	164.54E-9
6	16S-06	86.49970	85.17730	0.00000	1.48294	-0.12500	-67.769E-9	-0.0082450	164.89E-9
7	BS-01	41.07740	85.19800	0.00000	-3.25409	-0.12500	-72.311E-6	-0.23413	4.6739E-6
7	BS-01	41.54492	85.02303	0.00000	-3.62641	-0.12500	-100.92E-6	-0.27742	5.5364E-6
7	BS-01	42.01244	84.84806	0.00000	-4.02385	-0.12500	-145.01E-6	-0.33245	6.6317E-6
7	BS-01	42.47996	84.67309	0.00000	-4.44629	-0.12500	-216.41E-6	-0.40394	8.0528E-6
7	BS-01	42.94748	84.49812	0.00000	-4.89333	-0.12500	-340.49E-6	-0.49963	9.9517E-6
7	BS-01	43.41500	84.32315	0.00000	-5.36456	-0.12500	-578.89E-6	-0.63337	12.598E-6
7	BS-01	43.88252	84.14818	0.00000	-5.86052	-0.12500	-0.0011051	-0.83240	16.515E-6
7	BS-01	44.35003	83.97322	0.00000	-6.38509	-0.12500	-0.0024996	-1.1559	22.817E-6
7	BS-01	44.81755	83.79825	0.00000	-6.95047	-0.12500	-0.0071868	-1.7465	34.068E-6
7	BS-01	45.28507	83.62328	0.00000	-7.58412	-0.12500	-0.031834	-3.0316	56.812E-6
7	BS-01	45.75259	83.44831	0.00000	-8.30772	-0.12500	-0.22440	-6.2779	98.630E-6
7	BS-01	46.22011	83.27334	0.00000	-8.94676	-0.12500	-0.34000	-8.6370	131.94E-6
7	BS-01	46.68763	83.09837	0.00000	-9.42689	-0.12500	-0.35735	-9.3883	144.88E-6
7	BS-01	47.15515	82.92340	0.00000	-9.80235	-0.12500	-0.36650	-9.6889	149.80E-6
7	BS-01	47.62267	82.74843	0.00000	-10.08621	-0.12500	-0.37247	-9.7146	149.60E-6
7	BS-01	48.09019	82.57346	0.00000	-10.24988	-0.12500	-0.35237	-9.0468	138.65E-6
7	BS-01	48.55771	82.39849	0.00000	-10.26874	-0.12500	-0.12075	-6.3514	112.54E-6
7	BS-01	49.02523	82.22352	0.00000	-10.37139	-0.12500	-0.10836	-6.2020	111.04E-6
7	BS-01	49.49275	82.04855	0.00000	-10.55980	-0.12500	-0.30194	-8.5900	135.57E-6
7	BS-01	49.96027	81.87358	0.00000	-10.61541	-0.12500	-0.33435	-9.3525	146.93E-6
7	BS-01	50.42778	81.69862	0.00000	-10.55022	-0.12500	-0.34397	-9.5134	148.99E-6
7	BS-01	50.89530	81.52365	0.00000	-10.38789	-0.12500	-0.35098	-9.4575	147.03E-6
7	BS-01	51.36282	81.34868	0.00000	-10.11754	-0.12500	-0.35198	-9.0673	139.11E-6
7	BS-01	51.83034	81.17371	0.00000	-9.68432	-0.12500	-0.26059	-7.2544	113.82E-6
7	BS-01	52.29786	80.99874	0.00000	-9.12117	-0.12500	-0.050091	-4.1305	76.599E-6
7	BS-01	52.76538	80.82377	0.00000	-8.59016	-0.12500	-0.019884	-2.7869	53.353E-6
7	BS-01	53.23290	80.64880	0.00000	-8.07232	-0.12500	-0.010101	-1.9255	37.297E-6
8	BS-02	53.23290	80.64880	0.00000	-8.07232	-0.12500	-0.010101	-1.9255	37.297E-6
8	BS-02	53.06007	80.18887	0.00000	-7.21532	-0.12500	-0.0029213	-1.1811	23.271E-6

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
8	BS-02	52.88724	79.72893	0.00000	-6.47670	-0.12500	-0.0012165	-0.81341	16.122E-6
8	BS-02	52.71441	79.26900	0.00000	-5.82225	-0.12500	-605.09E-6	-0.59686	11.865E-6
8	BS-02	52.54158	78.80906	0.00000	-5.23555	-0.12500	-336.70E-6	-0.45689	9.0974E-6
8	BS-02	52.36875	78.34913	0.00000	-4.70681	-0.12500	-202.99E-6	-0.36069	7.1895E-6
8	BS-02	52.19592	77.88920	0.00000	-4.22911	-0.12500	-130.01E-6	-0.29155	5.8153E-6
8	BS-02	52.02309	77.42926	0.00000	-3.79702	-0.12500	-87.298E-6	-0.24009	4.7914E-6
8	BS-02	51.85025	76.96933	0.00000	-3.40591	-0.12500	-60.876E-6	-0.20074	4.0075E-6
8	BS-02	51.67742	76.50940	0.00000	-3.05175	-0.12500	-43.777E-6	-0.16996	3.3940E-6
8	BS-02	51.50459	76.04946	0.00000	-2.73092	-0.12500	-32.295E-6	-0.14545	2.9051E-6
8	BS-02	51.33176	75.58953	0.00000	-2.44016	-0.12500	-24.341E-6	-0.12562	2.5094E-6
8	BS-02	51.15893	75.12959	0.00000	-2.17649	-0.12500	-18.685E-6	-0.10936	2.1850E-6
8	BS-02	50.98610	74.66966	0.00000	-1.93722	-0.12500	-14.571E-6	-0.095891	1.9161E-6
8	BS-02	50.81327	74.20973	0.00000	-1.71989	-0.12500	-11.521E-6	-0.084610	1.6908E-6
8	BS-02	50.64044	73.74979	0.00000	-1.52228	-0.12500	-9.2207E-6	-0.075083	1.5006E-6
8	BS-02	50.46761	73.28986	0.00000	-1.34235	-0.12500	-7.4599E-6	-0.066975	1.3386E-6
8	BS-02	50.29478	72.82992	0.00000	-1.17829	-0.12500	-6.0942E-6	-0.060025	1.1998E-6
8	BS-02	50.12195	72.36999	0.00000	-1.02842	-0.12500	-5.0223E-6	-0.054031	1.0800E-6
8	BS-02	49.94912	71.91006	0.00000	-0.89126	-0.12500	-4.1719E-6	-0.048832	976.14E-9
8	BS-02	49.77629	71.45012	0.00000	-0.76544	-0.12500	-3.4908E-6	-0.044298	885.53E-9
8	BS-02	49.60346	70.99019	0.00000	-0.64977	-0.12500	-2.9405E-6	-0.040324	806.13E-9
8	BS-02	49.43063	70.53025	0.00000	-0.54315	-0.12500	-2.4922E-6	-0.036827	736.23E-9
8	BS-02	49.25780	70.07032	0.00000	-0.44459	-0.12500	-2.1244E-6	-0.033735	674.44E-9
8	BS-02	49.08496	69.61039	0.00000	-0.35323	-0.12500	-1.8204E-6	-0.030991	619.61E-9
8	BS-02	48.91213	69.15045	0.00000	-0.26829	-0.12500	-1.5677E-6	-0.028548	570.77E-9
8	BS-02	48.73930	68.69052	0.00000	-0.18908	-0.12500	-1.3563E-6	-0.026365	527.13E-9
8	BS-02	48.56647	68.23059	0.00000	-0.11497	-0.12500	-1.1786E-6	-0.024407	488.00E-9
8	BS-02	48.39364	67.77065	0.00000	-0.04543	-0.12500	-1.0283E-6	-0.022646	452.81E-9
8	BS-02	48.22081	67.31072	0.00000	0.02002	-0.12500	-900.59E-9	-0.021059	421.07E-9
8	BS-02	48.04798	66.85078	0.00000	0.08181	-0.12500	-791.64E-9	-0.019623	392.36E-9
8	BS-02	47.87515	66.39085	0.00000	0.14029	-0.12500	-698.25E-9	-0.018321	366.34E-9
8	BS-02	47.70232	65.93092	0.00000	0.19579	-0.12500	-617.89E-9	-0.017138	342.69E-9
8	BS-02	47.52949	65.47098	0.00000	0.24858	-0.12500	-548.47E-9	-0.016060	321.14E-9
8	BS-02	47.35666	65.01105	0.00000	0.29891	-0.12500	-488.28E-9	-0.015076	301.46E-9
8	BS-02	47.18383	64.55111	0.00000	0.34696	-0.12500	-435.91E-9	-0.014176	283.46E-9
8	BS-02	47.01100	64.09118	0.00000	0.39292	-0.12500	-390.20E-9	-0.013350	266.95E-9
8	BS-02	46.83817	63.63125	0.00000	0.43692	-0.12500	-350.17E-9	-0.012592	251.79E-9
8	BS-02	46.66534	63.17131	0.00000	0.47910	-0.12500	-315.01E-9	-0.011894	237.83E-9
8	BS-02	46.49250	62.71138	0.00000	0.51954	-0.12500	-284.05E-9	-0.011250	224.96E-9
8	BS-02	46.31967	62.25145	0.00000	0.55834	-0.12500	-256.70E-9	-0.010656	213.08E-9
8	BS-02	46.14684	61.79151	0.00000	0.59557	-0.12500	-232.49E-9	-0.010106	202.08E-9
8	BS-02	45.97401	61.33158	0.00000	0.63128	-0.12500	-210.99E-9	-0.0095960	191.90E-9
8	BS-02	45.80118	60.87164	0.00000	0.66552	-0.12500	-191.86E-9	-0.0091231	182.44E-9
8	BS-02	45.62835	60.41171	0.00000	0.69832	-0.12500	-174.79E-9	-0.0086836	173.65E-9
8	BS-02	45.45552	59.95178	0.00000	0.72972	-0.12500	-159.54E-9	-0.0082745	165.47E-9
8	BS-02	45.28269	59.49184	0.00000	0.75975	-0.12500	-145.88E-9	-0.0078932	157.85E-9
8	BS-02	45.10986	59.03191	0.00000	0.78843	-0.12500	-133.61E-9	-0.0075374	150.73E-9
8	BS-02	44.93703	58.57197	0.00000	0.81578	-0.12500	-122.58E-9	-0.0072048	144.08E-9
8	BS-02	44.76420	58.11204	0.00000	0.84181	-0.12500	-112.64E-9	-0.0068937	137.86E-9
8	BS-02	44.59137	57.65211	0.00000	0.86655	-0.12500	-103.66E-9	-0.0066022	132.03E-9
8	BS-02	44.41854	57.19217	0.00000	0.89001	-0.12500	-95.543E-9	-0.0063288	126.56E-9
8	BS-02	44.24571	56.73224	0.00000	0.91222	-0.12500	-88.188E-9	-0.0060721	121.43E-9
8	BS-02	44.07288	56.27230	0.00000	0.93319	-0.12500	-81.514E-9	-0.0058308	116.61E-9
8	BS-02	43.90005	55.81237	0.00000	0.95294	-0.12500	-75.447E-9	-0.0056037	112.06E-9
8	BS-02	43.72721	55.35244	0.00000	0.97149	-0.12500	-69.924E-9	-0.0053898	107.79E-9
8	BS-02	43.55438	54.89250	0.00000	0.98887	-0.12500	-64.888E-9	-0.0051880	103.75E-9
8	BS-02	43.38155	54.43257	0.00000	1.00510	-0.12500	-60.289E-9	-0.0049976	99.945E-9
8	BS-02	43.20872	53.97264	0.00000	1.02020	-0.12500	-56.085E-9	-0.0048177	96.346E-9
8	BS-02	43.03589	53.51270	0.00000	1.03420	-0.12500	-52.235E-9	-0.0046475	92.944E-9
8	BS-02	42.86306	53.05277	0.00000	1.04713	-0.12500	-48.705E-9	-0.0044864	89.723E-9
8	BS-02	42.69023	52.59283	0.00000	1.05903	-0.12500	-45.464E-9	-0.0043338	86.671E-9
8	BS-02	42.51740	52.13290	0.00000	1.06991	-0.12500	-42.485E-9	-0.0041891	83.777E-9
9	BS-03	42.51740	52.13290	0.00000	1.06991	-0.12500	-42.485E-9	-0.0041891	83.777E-9
9	BS-03	42.34490	52.12415	0.00000	1.07388	-0.12500	-42.198E-9	-0.0041713	83.421E-9
9	BS-03	42.17240	52.11540	0.00000	1.07763	-0.12500	-41.909E-9	-0.0041535	83.064E-9
10	BS-04	42.17240	52.11540	0.00000	1.07763	-0.12500	-41.909E-9	-0.0041535	83.064E-9
10	BS-04	41.96133	51.67676	0.00000	1.08702	-0.12500	-39.268E-9	-0.0040195	80.386E-9
10	BS-04	41.75025	51.23812	0.00000	1.09535	-0.12500	-36.828E-9	-0.0038921	77.837E-9
10	BS-04	41.53918	50.79948	0.00000	1.10269	-0.12500	-34.572E-9	-0.0037707	75.410E-9
10	BS-04	41.32810	50.36083	0.00000	1.10907	-0.12500	-32.483E-9	-0.0036550	73.097E-9
10	BS-04	41.11702	49.92219	0.00000	1.11454	-0.12500	-30.548E-9	-0.0035447	70.890E-9
10	BS-04	40.90595	49.48355	0.00000	1.11915	-0.12500	-28.753E-9	-0.0034394	68.785E-9
10	BS-04	40.69488	49.04491	0.00000	1.12293	-0.12500	-27.086E-9	-0.0033389	66.774E-9
10	BS-04	40.48380	48.60627	0.00000	1.12593	-0.12500	-25.536E-9	-0.0032428	64.853E-9
10	BS-04	40.27273	48.16763	0.00000	1.12819	-0.12500	-24.095E-9	-0.0031509	63.015E-9
10	BS-04	40.06165	47.72898	0.00000	1.12975	-0.12500	-22.753E-9	-0.0030630	61.257E-9
10	BS-04	39.85057	47.29034	0.00000	1.13064	-0.12500	-21.503E-9	-0.0029788	59.573E-9
10	BS-04	39.63950	46.85170	0.00000	1.13091	-0.12500	-20.336E-9	-0.0028982	57.961E-9
11	BS-05	39.63950	46.85170	0.00000	1.13091	-0.12500	-20.336E-9	-0.0028982	57.961E-9
11	BS-05	39.22713	46.92883	0.00000	1.12927	-0.12500	-20.232E-9	-0.0028836	57.669E-9
11	BS-05	38.81475	47.00595	0.00000	1.12730	-0.12500	-20.119E-9	-0.0028685	57.368E-9
11	BS-05	38.40237	47.08308	0.00000	1.12503	-0.12500	-19.998E-9	-0.0028530	57.058E-9
11	BS-05	37.99000	47.16020	0.00000	1.12247	-0.12500	-19.868E-9	-0.0028371	56.739E-9
12	BS-06	37.99000	47.16020	0.00000	1.12247	-0.12500	-19.868E-9	-0.0028371	56.739E-9
12	BS-06	37.62248	47.32718	0.00000	1.12004	-0.12500	-19.959E-9	-0.0028367	56.732E-9
12	BS-06	37.25495	47.49415	0.00000	1.11746	-0.12500	-20.042E-9	-0.0028359	56.716E-9
12	BS-06	36.88743	47.66112	0.00000	1.11474	-0.12500	-20.117E-9	-0.0028347	56.691E-9
12	BS-06	36.51990	47.82810	0.00000	1.11188	-0.12500	-20.184E-9	-0.0028330	56.657E-9
13	BS-07	36.51990	47.82810	0.00000	1.11188	-0.12500	-20.184E-9	-0.0028330	56.657E-9
13	BS-07	36.26713	48.12325	0.00000	1.11014	-0.12500	-20.626E-9	-0.0028580	57.157E-9
13	BS-07	36.01435	48.41840	0.00000	1.10836	-0.12500	-21.075E-9	-0.0028831	57.660E-9
13	BS-07	35.76158	48.71355	0.00000	1.10655	-0.12500	-21.530E-9	-0.0029084	58.165E-9
13	BS-07	35.50880	49.00870	0.00000	1.10471	-0.12500	-21.991E-9	-0.0029338	58.673E-9
13	BS-07	35.25603	49.30385	0.00000	1.10282	-0.12500	-22.458E-9	-0.0029592	59.182E-9
13	BS-07	35.00325	49.59900	0.00000	1.10090	-0.12500	-22.929E-9	-0.0029848	59.693E-9
13	BS-07	34.75048	49.89415	0.00000	1.09893	-0.12500	-23.406E-9	-0.0030104	60.204E-9
13	BS-07	34.49770	50.18930	0.00000	1.09692	-0.12500	-23.888E-9	-0.0030360	60.717E-9
14	BS-08	34.49770	50.18930	0.00000	1.09692	-0.12500	-23.888E-9	-0.0030360	60.717E-9
14	BS-08	34.10253	50.37673	0.00000	1.09321	-0.12500	-23.909E-9	-0.0030311	60.618E-9
14	BS-08	33.70737	50.56417	0.00000	1.08935	-0.12500	-23.918E-9	-0.0030254	60.505E-9
14	BS-08	33.31220	50.75160	0.00000	1.08536	-0.12500	-23.913E-9	-0.0030190	60.378E-9
14	BS-08	32.91703	50.93903	0.00000	1.08124	-0.12500	-23.894E-9	-0.0030119	60.236E-9
14	BS-08	32.52187	51.12647	0.00000	1.07699	-0.12500	-23.863E-9	-0.0030041	60.079E-9
14	BS-08	32.12670	51.31390	0.00000	1.07263	-0.12500	-23.817E-9	-0.0029955	59.908E-9
15	BS-09	32.12670	51.31390	0.00000	1.07263	-0.12500	-23.817E-9	-0.0029955	59.908E-9
15	BS-09	32.31482	51.76587	0.00000	1.07590	-0.12500	-25.293E-9	-0.0030873	61.743E-9
15	BS-09	32.50295	52.21785	0.00000	1.07891	-0.12500	-26.882E-9	-0.0031835	63.667E-9
15	BS-09	32.69107	52.66983	0.00000	1.08163	-0.12500	-28.596E-9	-0.0032844	65.685E-9
15	BS-09	32.87920	53.12180	0.00000	1.08406	-0.12500	-30.447E-9	-0.0033904	67.804E-9
16	BS-10	32.87920	53.12180	0.00000	1.08406	-0.12500	-30.447E-9	-0.0033904	67.804E-9
16	BS-10	32.49437	53.25320	0.00000	1.08010	-0.12500	-30.191E-9	-0.0033704	67.405E-9
16	BS-10	32.10955	53.38460	0.00000	1.07599	-0.12500	-29.922E-9	-0.0033497	66.991E-9
16	BS-10	31.72472	53.51600	0.00000	1.07175	-0.12500	-29.639E-9	-0.0033284	66.564E-9
16	BS-10	31.33990	53.64740	0.00000	1.06737	-0.12500	-29.345E-9	-0.0033063	66.123E-9
17	BS-11	31.33990	53.64740	0.00000	1.06737	-0.12500	-29.345E-9	-0.0033063	66.123E-9
17	BS-11	31.26590	53.40790	0.00000	1.06615	-0.12500	-28.440E-9	-0.0032545	65.086E-9
17	BS-11	31.19190	53.16840	0.00000	1.06487	-0.12500	-27.568E-9	-0.0032038	64.073E-9
18	BS-12	31.19190	53.16840	0.00000	1.06487	-0.12500	-27.568E-9	-0.0032038	64.073E-9
18	BS-12	30.82340	53.32289	0.00000	1.06052	-0.12500	-27.386E-9	-0.0031881	63.758E-9
18	BS-12	30.45490	53.47737	0.00000	1.05608	-0.12500	-27.191E-9	-0.0031717	63.430E-9
18	BS-12	30.08640	53.63186	0.00000	1.05154	-0.12500	-26.985E-9	-0.0031546	63.089E-9
18	BS-12	29.71790	53.78635	0.00000	1.04693	-0.12500	-26.767E-9	-0.0031369	62.736E-9
18	BS-12	29.34940	53.94084	0.00000	1.04224	-0.12500	-26.538E-9	-0.0031187	62.370E-9
18	BS-12	28.98090	54.09533	0.00000	1.03747	-0.12500	-26.299E-9	-0.0030998	61.993E-9
18	BS-12	28.61240	54.24981	0.00000	1.03263	-0.12500	-26.050E-9	-0.0030804	61.605E-9
18	BS-12	28.24390	54.40430	0.00000	1.02773	-0.12500	-25.791E-9	-0.0030604	61.205E-9
19	BS-13	28.24390	54.40430	0.00000	1.02773	-0.12500	-25.791E-9	-0.0030604	61.205E-9
19	BS-13	28.40681	54.81690	0.00000	1.03086	-0.12500	-27.237E-9	-0.0031466	62.928E-9
19	BS-13	28.56972	55.22950	0.00000	1.03382	-0.12500	-28.783E-9	-0.0032364	64.725E-9
19	BS-13	28.73264	55.64210	0.00000	1.03659	-0.12500	-30.437E-9	-0.0033303	66.602E-9
19	BS-13	28.89555	56.05470	0.00000	1.03916	-0.12500	-32.209E-9	-0.0034283	68.562E-9
19	BS-13	29.05846	56.46730	0.00000	1.04153	-0.12500	-34.107E-9	-0.0035308	70.611E-9
19	BS-13	29.22138	56.87990	0.00000	1.04368	-0.12500	-36.143E-9	-0.0036379	72.753E-9
19	BS-13	29.38429	57.29250	0.00000	1.04560	-0.12500	-38.328E-9	-0.0037499	74.994E-9
19	BS-13	29.54720	57.70510	0.00000	1.04727	-0.12500	-40.675E-9	-0.0038673	77.340E-9
20	BS-14	29.54720	57.70510	0.00000	1.04727	-0.12500	-40.675E-9	-0.0038673	77.340E-9
20	BS-14	29.93258	57.54730	0.00000	1.05181	-0.12500	-41.208E-9	-0.0038984	77.963E-9
20	BS-14	30.31797	57.38950	0.00000	1.05624	-0.12500	-41.723E-9	-0.0039287	78.568E-9
20	BS-14	30.70335	57.23170	0.00000	1.06055	-0.12500	-42.218E-9	-0.0039579	79.154E-9
20	BS-14	31.08873	57.07390	0.00000	1.06473	-0.12500	-42.693E-9	-0.0039862	79.719E-9
20	BS-14	31.47412	56.91610	0.00000	1.06878	-0.12500	-43.147E-9	-0.0040134	80.264E-9
20	BS-14	31.85950	56.75830	0.00000	1.07268	-0.12500	-43.578E-9	-0.0040396	80.787E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
21	BS-15	31.85950	56.75830	0.00000	1.07268	-0.12500	-43.578E-9	-0.0040396	80.787E-9
21	BS-15	32.03411	57.22651	0.00000	1.07337	-0.12500	-46.718E-9	-0.0041878	83.750E-9
21	BS-15	32.20873	57.69472	0.00000	1.07367	-0.12500	-50.137E-9	-0.0043443	86.880E-9
21	BS-15	32.38334	58.16294	0.00000	1.07354	-0.12500	-53.866E-9	-0.0045097	90.188E-9
21	BS-15	32.55796	58.63115	0.00000	1.07297	-0.12500	-57.936E-9	-0.0046847	93.687E-9
21	BS-15	32.73257	59.09936	0.00000	1.07193	-0.12500	-62.386E-9	-0.0048700	97.393E-9
21	BS-15	32.90719	59.56757	0.00000	1.07038	-0.12500	-67.256E-9	-0.0050664	101.32E-9
21	BS-15	33.08180	60.03578	0.00000	1.06829	-0.12500	-72.596E-9	-0.0052747	105.49E-9
21	BS-15	33.25642	60.50399	0.00000	1.06563	-0.12500	-78.456E-9	-0.0054959	109.91E-9
21	BS-15	33.43103	60.97221	0.00000	1.06236	-0.12500	-84.899E-9	-0.0057310	114.61E-9
21	BS-15	33.60565	61.44042	0.00000	1.05844	-0.12500	-91.992E-9	-0.0059811	119.61E-9
21	BS-15	33.78026	61.90863	0.00000	1.05382	-0.12500	-99.813E-9	-0.0062474	124.94E-9
21	BS-15	33.95488	62.37684	0.00000	1.04846	-0.12500	-108.45E-9	-0.0065314	130.61E-9
21	BS-15	34.12949	62.84505	0.00000	1.04230	-0.12500	-118.01E-9	-0.0068344	136.67E-9
21	BS-15	34.30411	63.31326	0.00000	1.03528	-0.12500	-128.60E-9	-0.0071581	143.15E-9
21	BS-15	34.47872	63.78148	0.00000	1.02734	-0.12500	-140.35E-9	-0.0075045	150.07E-9
21	BS-15	34.65334	64.24969	0.00000	1.01841	-0.12500	-153.42E-9	-0.0078753	157.49E-9
21	BS-15	34.82795	64.71790	0.00000	1.00841	-0.12500	-167.99E-9	-0.0082729	165.44E-9
21	BS-15	35.00256	65.18611	0.00000	0.99727	-0.12500	-184.25E-9	-0.0086998	173.97E-9
21	BS-15	35.17718	65.65432	0.00000	0.98488	-0.12500	-202.44E-9	-0.0091586	183.15E-9
21	BS-15	35.35179	66.12254	0.00000	0.97116	-0.12500	-222.83E-9	-0.0096525	193.02E-9
21	BS-15	35.52641	66.59075	0.00000	0.95599	-0.12500	-245.73E-9	-0.010185	203.67E-9
21	BS-15	35.70102	67.05896	0.00000	0.93924	-0.12500	-271.51E-9	-0.010759	215.15E-9
21	BS-15	35.87564	67.52717	0.00000	0.92080	-0.12500	-300.61E-9	-0.011380	227.57E-9
21	BS-15	36.05025	67.99538	0.00000	0.90051	-0.12500	-333.53E-9	-0.012052	241.01E-9
21	BS-15	36.22487	68.46359	0.00000	0.87822	-0.12500	-370.85E-9	-0.012781	255.58E-9
21	BS-15	36.39948	68.93181	0.00000	0.85375	-0.12500	-413.30E-9	-0.013572	271.40E-9
21	BS-15	36.57410	69.40002	0.00000	0.82692	-0.12500	-461.68E-9	-0.014433	288.61E-9
21	BS-15	36.74871	69.86823	0.00000	0.79750	-0.12500	-517.00E-9	-0.015371	307.36E-9
21	BS-15	36.92333	70.33644	0.00000	0.76528	-0.12500	-580.43E-9	-0.016395	327.82E-9
21	BS-15	37.09794	70.80465	0.00000	0.73001	-0.12500	-653.39E-9	-0.017514	350.20E-9
21	BS-15	37.27256	71.27286	0.00000	0.69140	-0.12500	-737.58E-9	-0.018740	374.72E-9
21	BS-15	37.44717	71.74108	0.00000	0.64915	-0.12500	-835.05E-9	-0.020087	401.63E-9
21	BS-15	37.62179	72.20929	0.00000	0.60294	-0.12500	-948.29E-9	-0.021568	431.24E-9
21	BS-15	37.79640	72.67750	0.00000	0.55241	-0.12500	-1.0803E-6	-0.023200	463.88E-9
22	BS-16	37.79640	72.67750	0.00000	0.55241	-0.12500	-1.0803E-6	-0.023200	463.88E-9
22	BS-16	37.93699	73.15284	0.00000	0.49934	-0.12500	-1.2287E-6	-0.024934	498.52E-9
22	BS-16	38.07758	73.62818	0.00000	0.44161	-0.12500	-1.4017E-6	-0.026842	536.67E-9
22	BS-16	38.21817	74.10352	0.00000	0.37883	-0.12500	-1.6041E-6	-0.028947	578.75E-9
22	BS-16	38.35876	74.57886	0.00000	0.31058	-0.12500	-1.8417E-6	-0.031274	625.26E-9
22	BS-16	38.49935	75.05420	0.00000	0.23643	-0.12500	-2.1219E-6	-0.033852	676.78E-9
22	BS-16	38.63994	75.52954	0.00000	0.15591	-0.12500	-2.4534E-6	-0.036711	733.93E-9
22	BS-16	38.78053	76.00488	0.00000	0.06851	-0.12500	-2.8473E-6	-0.039891	797.49E-9
22	BS-16	38.92112	76.48022	0.00000	-0.02628	-0.12500	-3.3172E-6	-0.043434	868.29E-9
22	BS-16	39.06171	76.95556	0.00000	-0.12901	-0.12500	-3.8803E-6	-0.047390	947.33E-9
22	BS-16	39.20230	77.43090	0.00000	-0.24026	-0.12500	-4.5580E-6	-0.051815	1.0357E-6
23	BS-17	39.20230	77.43090	0.00000	-0.24026	-0.12500	-4.5580E-6	-0.051815	1.0357E-6
23	BS-17	38.81835	77.57060	0.00000	-0.18756	-0.12500	-4.2121E-6	-0.049606	991.62E-9
23	BS-17	38.43440	77.71030	0.00000	-0.13557	-0.12500	-3.8857E-6	-0.047446	948.46E-9
24	BS-18	38.43440	77.71030	0.00000	-0.13557	-0.12500	-3.8857E-6	-0.047446	948.46E-9
24	BS-18	38.59959	78.17828	0.00000	-0.24731	-0.12500	-4.5591E-6	-0.051847	1.0364E-6
24	BS-18	38.76478	78.64626	0.00000	-0.36816	-0.12500	-5.3710E-6	-0.056772	1.1348E-6
24	BS-18	38.92996	79.11424	0.00000	-0.49869	-0.12500	-6.3538E-6	-0.062293	1.2451E-6
24	BS-18	39.09515	79.58222	0.00000	-0.63948	-0.12500	-7.5481E-6	-0.068488	1.3689E-6
24	BS-18	39.26034	80.05021	0.00000	-0.79111	-0.12500	-9.0043E-6	-0.075451	1.5079E-6
24	BS-18	39.42552	80.51819	0.00000	-0.95410	-0.12500	-10.785E-6	-0.083281	1.6643E-6
24	BS-18	39.59071	80.98617	0.00000	-1.12894	-0.12500	-12.969E-6	-0.092091	1.8403E-6
24	BS-18	39.75590	81.45415	0.00000	-1.31606	-0.12500	-15.650E-6	-0.10200	2.0382E-6
24	BS-18	39.92109	81.92213	0.00000	-1.51577	-0.12500	-18.942E-6	-0.11314	2.2605E-6
24	BS-18	40.08628	82.39011	0.00000	-1.72824	-0.12500	-22.980E-6	-0.12563	2.5098E-6
24	BS-18	40.25146	82.85809	0.00000	-1.95349	-0.12500	-27.916E-6	-0.13960	2.7886E-6
24	BS-18	40.41665	83.32608	0.00000	-2.19132	-0.12500	-33.921E-6	-0.15515	3.0988E-6
24	BS-18	40.58184	83.79406	0.00000	-2.44126	-0.12500	-41.174E-6	-0.17236	3.4422E-6
24	BS-18	40.74702	84.26204	0.00000	-2.70253	-0.12500	-49.861E-6	-0.19127	3.8194E-6
24	BS-18	40.91221	84.73002	0.00000	-2.97398	-0.12500	-60.171E-6	-0.21188	4.2304E-6
24	BS-18	41.07740	85.19800	0.00000	-3.25409	-0.12500	-72.311E-6	-0.23413	4.6739E-6
25	SB-01	80.55960	128.61410	0.00000	1.29738	-0.12500	-10.179E-9	-0.0025246	50.490E-9
25	SB-01	80.70318	128.86005	0.00000	1.29356	-0.12500	-9.9632E-9	-0.0025013	50.026E-9
25	SB-01	80.84675	129.10600	0.00000	1.28970	-0.12500	-9.7541E-9	-0.0024785	49.569E-9
25	SB-01	80.99032	129.35195	0.00000	1.28579	-0.12500	-9.5514E-9	-0.0024561	49.120E-9
25	SB-01	81.13390	129.59790	0.00000	1.28185	-0.12500	-9.3548E-9	-0.0024340	48.679E-9
26	SB-02	81.13390	129.59790	0.00000	1.28185	-0.12500	-9.3548E-9	-0.0024340	48.679E-9
26	SB-02	81.53432	129.35316	0.00000	1.29240	-0.12500	-9.4024E-9	-0.0024524	49.046E-9
26	SB-02	81.93475	129.10841	0.00000	1.30305	-0.12500	-9.4499E-9	-0.0024709	49.417E-9
26	SB-02	82.33517	128.86366	0.00000	1.31378	-0.12500	-9.4975E-9	-0.0024896	49.792E-9
26	SB-02	82.73560	128.61892	0.00000	1.32462	-0.12500	-9.5455E-9	-0.0025086	50.171E-9
26	SB-02	83.13602	128.37418	0.00000	1.33555	-0.12500	-9.5939E-9	-0.0025278	50.555E-9
26	SB-02	83.53645	128.12943	0.00000	1.34657	-0.12500	-9.6429E-9	-0.0025472	50.944E-9
26	SB-02	83.93688	127.88469	0.00000	1.35769	-0.12500	-9.6927E-9	-0.0025670	51.338E-9
26	SB-02	84.33730	127.63994	0.00000	1.36890	-0.12500	-9.7435E-9	-0.0025870	51.738E-9
26	SB-02	84.73772	127.39520	0.00000	1.38022	-0.12500	-9.7954E-9	-0.0026073	52.144E-9
26	SB-02	85.13815	127.15045	0.00000	1.39163	-0.12500	-9.8487E-9	-0.0026279	52.557E-9
26	SB-02	85.53857	126.90571	0.00000	1.40313	-0.12500	-9.9035E-9	-0.0026489	52.976E-9
26	SB-02	85.93900	126.66096	0.00000	1.41474	-0.12500	-9.9601E-9	-0.0026702	53.403E-9
26	SB-02	86.33942	126.41622	0.00000	1.42644	-0.12500	-10.019E-9	-0.0026920	53.838E-9
26	SB-02	86.73985	126.17147	0.00000	1.43825	-0.12500	-10.079E-9	-0.0027141	54.281E-9
26	SB-02	87.14028	125.92673	0.00000	1.45015	-0.12500	-10.143E-9	-0.0027367	54.732E-9
26	SB-02	87.54070	125.68198	0.00000	1.46215	-0.12500	-10.209E-9	-0.0027597	55.193E-9
26	SB-02	87.94112	125.43724	0.00000	1.47425	-0.12500	-10.278E-9	-0.0027832	55.663E-9
26	SB-02	88.34155	125.19249	0.00000	1.48645	-0.12500	-10.350E-9	-0.0028072	56.144E-9
26	SB-02	88.74197	124.94774	0.00000	1.49875	-0.12500	-10.425E-9	-0.0028318	56.634E-9
26	SB-02	89.14240	124.70300	0.00000	1.51115	-0.12500	-10.504E-9	-0.0028569	57.136E-9
27	SB-03	89.14240	124.70300	0.00000	1.51115	-0.12500	-10.504E-9	-0.0028569	57.136E-9
27	SB-03	88.87339	124.28303	0.00000	1.51943	-0.12500	-10.810E-9	-0.0028945	57.889E-9
27	SB-03	88.60438	123.86307	0.00000	1.52760	-0.12500	-11.130E-9	-0.0029330	58.660E-9
27	SB-03	88.33537	123.44310	0.00000	1.53565	-0.12500	-11.465E-9	-0.0029725	59.449E-9
27	SB-03	88.06636	123.02313	0.00000	1.54357	-0.12500	-11.816E-9	-0.0030129	60.257E-9
27	SB-03	87.79735	122.60316	0.00000	1.55135	-0.12500	-12.184E-9	-0.0030544	61.086E-9
27	SB-03	87.52834	122.18320	0.00000	1.55898	-0.12500	-12.571E-9	-0.0030969	61.937E-9
27	SB-03	87.25933	121.76323	0.00000	1.56645	-0.12500	-12.977E-9	-0.0031405	62.809E-9
27	SB-03	86.99032	121.34326	0.00000	1.57373	-0.12500	-13.404E-9	-0.0031854	63.706E-9
27	SB-03	86.72131	120.92329	0.00000	1.58083	-0.12500	-13.854E-9	-0.0032314	64.627E-9
27	SB-03	86.45230	120.50333	0.00000	1.58772	-0.12500	-14.327E-9	-0.0032788	65.574E-9
27	SB-03	86.18329	120.08336	0.00000	1.59439	-0.12500	-14.826E-9	-0.0033275	66.548E-9
27	SB-03	85.91428	119.66339	0.00000	1.60083	-0.12500	-15.353E-9	-0.0033777	67.551E-9
27	SB-03	85.64527	119.24343	0.00000	1.60700	-0.12500	-15.909E-9	-0.0034293	68.585E-9
27	SB-03	85.37626	118.82346	0.00000	1.61291	-0.12500	-16.496E-9	-0.0034826	69.650E-9
27	SB-03	85.10724	118.40349	0.00000	1.61852	-0.12500	-17.117E-9	-0.0035375	70.749E-9
27	SB-03	84.83823	117.98352	0.00000	1.62381	-0.12500	-17.775E-9	-0.0035942	71.883E-9
27	SB-03	84.56922	117.56356	0.00000	1.62876	-0.12500	-18.472E-9	-0.0036528	73.054E-9
27	SB-03	84.30021	117.14359	0.00000	1.63335	-0.12500	-19.211E-9	-0.0037134	74.265E-9
27	SB-03	84.03120	116.72362	0.00000	1.63755	-0.12500	-19.995E-9	-0.0037760	75.517E-9
27	SB-03	83.76219	116.30366	0.00000	1.64133	-0.12500	-20.828E-9	-0.0038408	76.813E-9
27	SB-03	83.49318	115.88369	0.00000	1.64465	-0.12500	-21.713E-9	-0.0039079	78.155E-9
27	SB-03	83.22417	115.46372	0.00000	1.64750	-0.12500	-22.655E-9	-0.0039774	79.546E-9
27	SB-03	82.95516	115.04375	0.00000	1.64983	-0.12500	-23.659E-9	-0.0040496	80.989E-9
27	SB-03	82.68615	114.62379	0.00000	1.65160	-0.12500	-24.728E-9	-0.0041245	82.486E-9
27	SB-03	82.41714	114.20382	0.00000	1.65277	-0.12500	-25.869E-9	-0.0042022	84.041E-9
27	SB-03	82.14813	113.78385	0.00000	1.65330	-0.12500	-27.088E-9	-0.0042831	85.658E-9
27	SB-03	81.87912	113.36388	0.00000	1.65315	-0.12500	-28.390E-9	-0.0043671	87.339E-9
27	SB-03	81.61011	112.94392	0.00000	1.65226	-0.12500	-29.782E-9	-0.0044546	89.089E-9
27	SB-03	81.34110	112.52395	0.00000	1.65057	-0.12500	-31.273E-9	-0.0045458	90.912E-9
27	SB-03	81.07209	112.10398	0.00000	1.64804	-0.12500	-32.871E-9	-0.0046408	92.812E-9
27	SB-03	80.80308	111.68402	0.00000	1.64459	-0.12500	-34.584E-9	-0.0047399	94.794E-9
27	SB-03	80.53407	111.26405	0.00000	1.64017	-0.12500	-36.423E-9	-0.0048434	96.864E-9
27	SB-03	80.26506	110.84408	0.00000	1.63469	-0.12500	-38.398E-9	-0.0049515	99.025E-9
27	SB-03	79.99605	110.42411	0.00000	1.62809	-0.12500	-40.522E-9	-0.0050645	101.28E-9
27	SB-03	79.72704	110.00415	0.00000	1.62027	-0.12500	-42.809E-9	-0.0051827	103.65E-9
27	SB-03	79.45803	109.58418	0.00000	1.61115	-0.12500	-45.271E-9	-0.0053065	106.12E-9
27	SB-03	79.18902	109.16421	0.00000	1.60062	-0.12500	-47.927E-9	-0.0054361	108.72E-9
27	SB-03	78.92001	108.74424	0.00000	1.58860	-0.12500	-50.792E-9	-0.0055721	111.43E-9
27	SB-03	78.65100	108.32428	0.00000	1.57496	-0.12500	-53.887E-9	-0.0057147	114.29E-9
27	SB-03	78.38199	107.90431	0.00000	1.55959	-0.12500	-57.233E-9	-0.0058644	117.28E-9
27	SB-03	78.11298	107.48434	0.00000	1.54235	-0.12500	-60.854E-9	-0.0060218	120.43E-9
27	SB-03	77.84397	107.06438	0.00000	1.52311	-0.12500	-64.775E-9	-0.0061872	123.74E-9
27	SB-03	77.57496	106.64441	0.00000	1.50173	-0.12500	-69.026E-9	-0.0063612	127.22E-9
27	SB-03	77.30594	106.22444	0.00000	1.47804	-0.12500	-73.639E-9	-0.0065445	130.88E-9
27	SB-03	77.03693	105.80447	0.00000	1.45187	-0.12500	-78.649E-9	-0.0067376	134.74E-9
27	SB-03	76.76792	105.38451	0.00000	1.42306	-0.12500	-84.095E-9	-0.0069411	138.81E-9
27	SB-03	76.49891	104.96454	0.00000	1.39139	-0.12500	-90.020E-9	-0.0071559	143.11E-9
27	SB-03	76.22990	104.54457	0.00000	1.35668	-0.12500	-96.474E-9	-0.0073827	147.64E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
27	SB-03	75.96089	104.12461	0.00000	1.31871	-0.12500	-103.51E-9	-0.0076222	152.43E-9
27	SB-03	75.69188	103.70464	0.00000	1.27724	-0.12500	-111.19E-9	-0.0078754	157.50E-9
27	SB-03	75.42287	103.28467	0.00000	1.23204	-0.12500	-119.57E-9	-0.0081433	162.85E-9
27	SB-03	75.15386	102.86470	0.00000	1.18286	-0.12500	-128.73E-9	-0.0084269	168.52E-9
27	SB-03	74.88485	102.44474	0.00000	1.12942	-0.12500	-138.76E-9	-0.0087272	174.53E-9
27	SB-03	74.61584	102.02477	0.00000	1.07146	-0.12500	-149.74E-9	-0.0090455	180.89E-9
27	SB-03	74.34683	101.60480	0.00000	1.00868	-0.12500	-161.78E-9	-0.0093830	187.64E-9
27	SB-03	74.07782	101.18483	0.00000	0.94080	-0.12500	-174.99E-9	-0.0097411	194.80E-9
27	SB-03	73.80881	100.76487	0.00000	0.86751	-0.12500	-189.49E-9	-0.010121	202.40E-9
27	SB-03	73.53980	100.34490	0.00000	0.78849	-0.12500	-205.43E-9	-0.010525	210.48E-9
28	SB-04	73.53980	100.34490	0.00000	0.78849	-0.12500	-205.43E-9	-0.010525	210.48E-9
28	SB-04	73.15931	100.58655	0.00000	0.73097	-0.12500	-214.34E-9	-0.010708	214.14E-9
28	SB-04	72.77883	100.82820	0.00000	0.67128	-0.12500	-223.53E-9	-0.010894	217.86E-9
28	SB-04	72.39835	101.06985	0.00000	0.60946	-0.12500	-232.99E-9	-0.011083	221.63E-9
28	SB-04	72.01786	101.31150	0.00000	0.54553	-0.12500	-242.71E-9	-0.011274	225.45E-9
28	SB-04	71.63737	101.55315	0.00000	0.47957	-0.12500	-252.68E-9	-0.011467	229.30E-9
28	SB-04	71.25689	101.79480	0.00000	0.41166	-0.12500	-262.86E-9	-0.011660	233.18E-9
28	SB-04	70.87641	102.03645	0.00000	0.34194	-0.12500	-273.25E-9	-0.011855	237.06E-9
28	SB-04	70.49592	102.27810	0.00000	0.27056	-0.12500	-283.80E-9	-0.012049	240.94E-9
28	SB-04	70.11543	102.51975	0.00000	0.19774	-0.12500	-294.49E-9	-0.012242	244.80E-9
28	SB-04	69.73495	102.76140	0.00000	0.12371	-0.12500	-305.28E-9	-0.012434	248.64E-9
28	SB-04	69.35447	103.00305	0.00000	0.04877	-0.12500	-316.13E-9	-0.012623	252.43E-9
28	SB-04	68.97398	103.24470	0.00000	-0.02676	-0.12500	-327.00E-9	-0.012810	256.15E-9
28	SB-04	68.59349	103.48635	0.00000	-0.10249	-0.12500	-337.84E-9	-0.012992	259.80E-9
28	SB-04	68.21301	103.72800	0.00000	-0.17809	-0.12500	-348.59E-9	-0.013170	263.36E-9
28	SB-04	67.83253	103.96965	0.00000	-0.25281	-0.12500	-359.20E-9	-0.013342	266.80E-9
28	SB-04	67.45204	104.21130	0.00000	-0.32642	-0.12500	-369.61E-9	-0.013508	270.11E-9
28	SB-04	67.07155	104.45295	0.00000	-0.39826	-0.12500	-379.76E-9	-0.013666	273.27E-9
28	SB-04	66.69107	104.69460	0.00000	-0.46778	-0.12500	-389.58E-9	-0.013816	276.27E-9
28	SB-04	66.31058	104.93625	0.00000	-0.53435	-0.12500	-399.00E-9	-0.013956	279.08E-9
28	SB-04	65.93010	105.17790	0.00000	-0.59738	-0.12500	-407.96E-9	-0.014087	281.68E-9
29	SB-05	65.93010	105.17790	0.00000	-0.59738	-0.12500	-407.96E-9	-0.014087	281.68E-9
29	SB-05	66.18562	105.58103	0.00000	-0.39577	-0.12500	-367.14E-9	-0.013330	266.56E-9
29	SB-05	66.44114	105.98417	0.00000	-0.21401	-0.12500	-331.18E-9	-0.012633	252.63E-9
29	SB-05	66.69667	106.38730	0.00000	-0.05015	-0.12500	-299.42E-9	-0.011990	239.77E-9
29	SB-05	66.95219	106.79044	0.00000	0.09758	-0.12500	-271.29E-9	-0.011396	227.88E-9
29	SB-05	67.20771	107.19357	0.00000	0.23077	-0.12500	-246.32E-9	-0.010845	216.87E-9
29	SB-05	67.46323	107.59671	0.00000	0.35086	-0.12500	-224.10E-9	-0.010335	206.67E-9
29	SB-05	67.71875	107.99984	0.00000	0.45916	-0.12500	-204.28E-9	-0.0098610	197.19E-9
29	SB-05	67.97428	108.40297	0.00000	0.55684	-0.12500	-186.57E-9	-0.0094204	188.39E-9
29	SB-05	68.22980	108.80611	0.00000	0.64494	-0.12500	-170.70E-9	-0.0090102	180.18E-9
29	SB-05	68.48532	109.20924	0.00000	0.72442	-0.12500	-156.46E-9	-0.0086277	172.54E-9
29	SB-05	68.74084	109.61238	0.00000	0.79610	-0.12500	-143.66E-9	-0.0082708	165.40E-9
29	SB-05	68.99636	110.01551	0.00000	0.86076	-0.12500	-132.12E-9	-0.0079372	158.73E-9
29	SB-05	69.25188	110.41865	0.00000	0.91908	-0.12500	-121.71E-9	-0.0076250	152.48E-9
29	SB-05	69.50741	110.82178	0.00000	0.97165	-0.12500	-112.29E-9	-0.0073325	146.64E-9
29	SB-05	69.76293	111.22492	0.00000	1.01903	-0.12500	-103.76E-9	-0.0070583	141.15E-9
29	SB-05	70.01845	111.62805	0.00000	1.06170	-0.12500	-96.028E-9	-0.0068007	136.00E-9
29	SB-05	70.27397	112.03118	0.00000	1.10012	-0.12500	-88.997E-9	-0.0065587	131.16E-9
29	SB-05	70.52949	112.43432	0.00000	1.13466	-0.12500	-82.599E-9	-0.0063310	126.61E-9
29	SB-05	70.78502	112.83745	0.00000	1.16569	-0.12500	-76.767E-9	-0.0061165	122.32E-9
29	SB-05	71.04054	113.24059	0.00000	1.19353	-0.12500	-71.443E-9	-0.0059143	118.28E-9
29	SB-05	71.29606	113.64372	0.00000	1.21846	-0.12500	-66.577E-9	-0.0057234	114.46E-9
29	SB-05	71.55158	114.04686	0.00000	1.24074	-0.12500	-62.122E-9	-0.0055432	110.86E-9
29	SB-05	71.80710	114.44999	0.00000	1.26060	-0.12500	-58.039E-9	-0.0053727	107.45E-9
29	SB-05	72.06262	114.85312	0.00000	1.27826	-0.12500	-54.292E-9	-0.0052114	104.22E-9
29	SB-05	72.31815	115.25626	0.00000	1.29390	-0.12500	-50.848E-9	-0.0050586	101.17E-9
29	SB-05	72.57367	115.65939	0.00000	1.30771	-0.12500	-47.680E-9	-0.0049138	98.269E-9
29	SB-05	72.82919	116.06253	0.00000	1.31982	-0.12500	-44.761E-9	-0.0047763	95.521E-9
29	SB-05	73.08471	116.46566	0.00000	1.33039	-0.12500	-42.068E-9	-0.0046458	92.916E-9
29	SB-05	73.34023	116.86880	0.00000	1.33954	-0.12500	-39.583E-9	-0.0045217	90.429E-9
29	SB-05	73.59576	117.27193	0.00000	1.34740	-0.12500	-37.285E-9	-0.0044037	88.069E-9
29	SB-05	73.85128	117.67507	0.00000	1.35405	-0.12500	-35.158E-9	-0.0042913	85.821E-9
29	SB-05	74.10680	118.07820	0.00000	1.35961	-0.12500	-33.188E-9	-0.0041842	83.680E-9
30	SB-06	74.10680	118.07820	0.00000	1.35961	-0.12500	-33.188E-9	-0.0041842	83.680E-9
30	SB-06	73.71623	118.27067	0.00000	1.34698	-0.12500	-33.478E-9	-0.0041817	83.631E-9
30	SB-06	73.32565	118.46315	0.00000	1.33451	-0.12500	-33.757E-9	-0.0041789	83.573E-9
30	SB-06	72.93508	118.65563	0.00000	1.32222	-0.12500	-34.025E-9	-0.0041756	83.507E-9
30	SB-06	72.54450	118.84810	0.00000	1.31011	-0.12500	-34.279E-9	-0.0041718	83.432E-9
30	SB-06	72.15393	119.04057	0.00000	1.29820	-0.12500	-34.520E-9	-0.0041675	83.346E-9
30	SB-06	71.76335	119.23305	0.00000	1.28647	-0.12500	-34.746E-9	-0.0041626	83.248E-9
30	SB-06	71.37278	119.42552	0.00000	1.27495	-0.12500	-34.956E-9	-0.0041571	83.139E-9
30	SB-06	70.98220	119.61800	0.00000	1.26363	-0.12500	-35.150E-9	-0.0041510	83.016E-9
31	SB-07	70.98220	119.61800	0.00000	1.26363	-0.12500	-35.150E-9	-0.0041510	83.016E-9
31	SB-07	70.83282	119.26970	0.00000	1.25962	-0.12500	-36.856E-9	-0.0042425	84.846E-9
31	SB-07	70.68345	118.92140	0.00000	1.25489	-0.12500	-38.670E-9	-0.0043376	86.747E-9
31	SB-07	70.53408	118.57310	0.00000	1.24938	-0.12500	-40.598E-9	-0.0044363	88.721E-9
31	SB-07	70.38470	118.22480	0.00000	1.24304	-0.12500	-42.650E-9	-0.0045390	90.774E-9
32	SB-08	70.38470	118.22480	0.00000	1.24304	-0.12500	-42.650E-9	-0.0045390	90.774E-9
32	SB-08	69.95028	118.45410	0.00000	1.23012	-0.12500	-42.868E-9	-0.0045305	90.605E-9
32	SB-08	69.51585	118.68340	0.00000	1.21756	-0.12500	-43.053E-9	-0.0045208	90.410E-9
32	SB-08	69.08143	118.91271	0.00000	1.20535	-0.12500	-43.204E-9	-0.0045098	90.190E-9
32	SB-08	68.64701	119.14201	0.00000	1.19351	-0.12500	-43.321E-9	-0.0044974	89.943E-9
32	SB-08	68.21258	119.37131	0.00000	1.18203	-0.12500	-43.401E-9	-0.0044837	89.669E-9
32	SB-08	67.77816	119.60061	0.00000	1.17092	-0.12500	-43.444E-9	-0.0044686	89.366E-9
32	SB-08	67.34374	119.82991	0.00000	1.16017	-0.12500	-43.450E-9	-0.0044520	89.036E-9
32	SB-08	66.90931	120.05921	0.00000	1.14978	-0.12500	-43.419E-9	-0.0044341	88.676E-9
32	SB-08	66.47489	120.28852	0.00000	1.13975	-0.12500	-43.349E-9	-0.0044146	88.287E-9
32	SB-08	66.04047	120.51782	0.00000	1.13007	-0.12500	-43.242E-9	-0.0043937	87.868E-9
32	SB-08	65.60604	120.74712	0.00000	1.12074	-0.12500	-43.097E-9	-0.0043713	87.420E-9
32	SB-08	65.17162	120.97642	0.00000	1.11174	-0.12500	-42.913E-9	-0.0043474	86.943E-9
32	SB-08	64.73720	121.20572	0.00000	1.10306	-0.12500	-42.693E-9	-0.0043220	86.436E-9
32	SB-08	64.30277	121.43502	0.00000	1.09470	-0.12500	-42.436E-9	-0.0042952	85.900E-9
32	SB-08	63.86835	121.66433	0.00000	1.08664	-0.12500	-42.143E-9	-0.0042670	85.335E-9
32	SB-08	63.43393	121.89363	0.00000	1.07887	-0.12500	-41.815E-9	-0.0042373	84.742E-9
32	SB-08	62.99950	122.12293	0.00000	1.07137	-0.12500	-41.452E-9	-0.0042063	84.121E-9
32	SB-08	62.56508	122.35223	0.00000	1.06413	-0.12500	-41.057E-9	-0.0041739	83.473E-9
32	SB-08	62.13066	122.58153	0.00000	1.05714	-0.12500	-40.630E-9	-0.0041402	82.799E-9
32	SB-08	61.69623	122.81083	0.00000	1.05037	-0.12500	-40.173E-9	-0.0041052	82.100E-9
32	SB-08	61.26181	123.04014	0.00000	1.04380	-0.12500	-39.687E-9	-0.0040690	81.376E-9
32	SB-08	60.82739	123.26944	0.00000	1.03744	-0.12500	-39.174E-9	-0.0040317	80.629E-9
32	SB-08	60.39296	123.49874	0.00000	1.03124	-0.12500	-38.636E-9	-0.0039932	79.858E-9
32	SB-08	59.95854	123.72804	0.00000	1.02521	-0.12500	-38.073E-9	-0.0039536	79.067E-9
32	SB-08	59.52412	123.95734	0.00000	1.01933	-0.12500	-37.489E-9	-0.0039130	78.255E-9
32	SB-08	59.08969	124.18664	0.00000	1.01357	-0.12500	-36.884E-9	-0.0038714	77.425E-9
32	SB-08	58.65527	124.41595	0.00000	1.00792	-0.12500	-36.261E-9	-0.0038290	76.576E-9
32	SB-08	58.22085	124.64525	0.00000	1.00237	-0.12500	-35.621E-9	-0.0037857	75.711E-9
32	SB-08	57.78642	124.87455	0.00000	0.99691	-0.12500	-34.966E-9	-0.0037417	74.830E-9
32	SB-08	57.35200	125.10385	0.00000	0.99151	-0.12500	-34.299E-9	-0.0036970	73.935E-9
32	SB-08	56.91758	125.33315	0.00000	0.98618	-0.12500	-33.620E-9	-0.0036516	73.028E-9
32	SB-08	56.48315	125.56245	0.00000	0.98088	-0.12500	-32.932E-9	-0.0036057	72.109E-9
32	SB-08	56.04873	125.79175	0.00000	0.97563	-0.12500	-32.236E-9	-0.0035592	71.180E-9
32	SB-08	55.61431	126.02106	0.00000	0.97039	-0.12500	-31.534E-9	-0.0035123	70.242E-9
32	SB-08	55.17988	126.25036	0.00000	0.96517	-0.12500	-30.828E-9	-0.0034650	69.296E-9
32	SB-08	54.74546	126.47966	0.00000	0.95996	-0.12500	-30.119E-9	-0.0034174	68.344E-9
32	SB-08	54.31104	126.70896	0.00000	0.95474	-0.12500	-29.409E-9	-0.0033695	67.387E-9
32	SB-08	53.87661	126.93826	0.00000	0.94952	-0.12500	-28.699E-9	-0.0033215	66.426E-9
32	SB-08	53.44219	127.16756	0.00000	0.94427	-0.12500	-27.990E-9	-0.0032732	65.462E-9
32	SB-08	53.00777	127.39687	0.00000	0.93901	-0.12500	-27.284E-9	-0.0032250	64.496E-9
32	SB-08	52.57334	127.62617	0.00000	0.93372	-0.12500	-26.583E-9	-0.0031766	63.529E-9
32	SB-08	52.13892	127.85547	0.00000	0.92839	-0.12500	-25.886E-9	-0.0031283	62.563E-9
32	SB-08	51.70450	128.08477	0.00000	0.92304	-0.12500	-25.195E-9	-0.0030801	61.598E-9
32	SB-08	51.27007	128.31407	0.00000	0.91765	-0.12500	-24.512E-9	-0.0030319	60.636E-9
32	SB-08	50.83565	128.54337	0.00000	0.91221	-0.12500	-23.837E-9	-0.0029840	59.677E-9
32	SB-08	50.40123	128.77268	0.00000	0.90674	-0.12500	-23.170E-9	-0.0029362	58.722E-9
32	SB-08	49.96680	129.00198	0.00000	0.90122	-0.12500	-22.513E-9	-0.0028887	57.771E-9
32	SB-08	49.53238	129.23128	0.00000	0.89566	-0.12500	-21.866E-9	-0.0028415	56.827E-9
32	SB-08	49.09796	129.46058	0.00000	0.89006	-0.12500	-21.230E-9	-0.0027946	55.889E-9
32	SB-08	48.66353	129.68988	0.00000	0.88441	-0.12500	-20.606E-9	-0.0027480	54.958E-9
32	SB-08	48.22911	129.91918	0.00000	0.87872	-0.12500	-19.993E-9	-0.0027019	54.035E-9
32	SB-08	47.79469	130.14849	0.00000	0.87299	-0.12500	-19.392E-9	-0.0026561	53.120E-9
32	SB-08	47.36026	130.37779	0.00000	0.86721	-0.12500	-18.804E-9	-0.0026108	52.214E-9
32	SB-08	46.92584	130.60709	0.00000	0.86139	-0.12500	-18.228E-9	-0.0025659	51.317E-9
32	SB-08	46.49142	130.83639	0.00000	0.85554	-0.12500	-17.666E-9	-0.0025216	50.430E-9
32	SB-08	46.05699	131.06569	0.00000	0.84965	-0.12500	-17.116E-9	-0.0024777	49.553E-9
32	SB-08	45.62257	131.29500	0.00000	0.84372	-0.12500	-16.580E-9	-0.0024344	48.687E-9
32	SB-08	45.18815	131.52430	0.00000	0.83776	-0.12500	-16.057E-9	-0.0023917	47.831E-9
32	SB-08	44.75372	131.75360	0.00000	0.83177	-0.12500	-15.548E-9	-0.0023495	46.987E-9
32	SB-08	44.31930	131.98290	0.00000	0.82575	-0.12500	-15.052E-9	-0.0023078	46.155E-9
33	SB-09	44.31930	131.98290	0.00000	0.82575	-0.12500	-15.052E-9	-0.0023078	46.155E-9
33	SB-09	44.54866	132.42340	0.00000	0.82386	-0.12500	-14.394E-9	-0.0022590	45.178E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
33	SB-09	44.77801	132.86390	0.00000	0.82184	-0.12500	-13.769E-9	-0.0022117	44.232E-9
33	SB-09	45.00737	133.30440	0.00000	0.81971	-0.12500	-13.176E-9	-0.0021658	43.314E-9
33	SB-09	45.23672	133.74490	0.00000	0.81746	-0.12500	-12.611E-9	-0.0021213	42.425E-9
33	SB-09	45.46608	134.18540	0.00000	0.81509	-0.12500	-12.075E-9	-0.0020782	41.563E-9
33	SB-09	45.69544	134.62590	0.00000	0.81262	-0.12500	-11.565E-9	-0.0020365	40.728E-9
33	SB-09	45.92479	135.06640	0.00000	0.81005	-0.12500	-11.081E-9	-0.0019959	39.917E-9
33	SB-09	46.15415	135.50690	0.00000	0.80738	-0.12500	-10.620E-9	-0.0019566	39.132E-9
33	SB-09	46.38351	135.94740	0.00000	0.80461	-0.12500	-10.181E-9	-0.0019185	38.369E-9
33	SB-09	46.61286	136.38790	0.00000	0.80176	-0.12500	-9.7640E-9	-0.0018816	37.630E-9
33	SB-09	46.84222	136.82840	0.00000	0.79883	-0.12500	-9.3670E-9	-0.0018457	36.912E-9
33	SB-09	47.07158	137.26890	0.00000	0.79581	-0.12500	-8.9891E-9	-0.0018109	36.216E-9
33	SB-09	47.30093	137.70940	0.00000	0.79272	-0.12500	-8.6292E-9	-0.0017771	35.541E-9
33	SB-09	47.53029	138.14990	0.00000	0.78956	-0.12500	-8.2866E-9	-0.0017443	34.885E-9
33	SB-09	47.75964	138.59040	0.00000	0.78633	-0.12500	-7.9602E-9	-0.0017124	34.248E-9
33	SB-09	47.98900	139.03090	0.00000	0.78304	-0.12500	-7.6492E-9	-0.0016815	33.630E-9
33	SB-09	48.21836	139.47140	0.00000	0.77969	-0.12500	-7.3529E-9	-0.0016515	33.029E-9
33	SB-09	48.44771	139.91190	0.00000	0.77628	-0.12500	-7.0704E-9	-0.0016223	32.446E-9
33	SB-09	48.67707	140.35240	0.00000	0.77282	-0.12500	-6.8010E-9	-0.0015940	31.879E-9
33	SB-09	48.90642	140.79290	0.00000	0.76931	-0.12500	-6.5442E-9	-0.0015664	31.328E-9
33	SB-09	49.13578	141.23340	0.00000	0.76575	-0.12500	-6.2991E-9	-0.0015397	30.793E-9
33	SB-09	49.36514	141.67390	0.00000	0.76215	-0.12500	-6.0652E-9	-0.0015137	30.272E-9
33	SB-09	49.59449	142.11440	0.00000	0.75851	-0.12500	-5.8420E-9	-0.0014883	29.766E-9
33	SB-09	49.82385	142.55490	0.00000	0.75483	-0.12500	-5.6289E-9	-0.0014637	29.274E-9
33	SB-09	50.05321	142.99540	0.00000	0.75111	-0.12500	-5.4254E-9	-0.0014398	28.795E-9
33	SB-09	50.28256	143.43590	0.00000	0.74737	-0.12500	-5.2310E-9	-0.0014165	28.329E-9
33	SB-09	50.51192	143.87640	0.00000	0.74359	-0.12500	-5.0452E-9	-0.0013938	27.876E-9
33	SB-09	50.74128	144.31690	0.00000	0.73979	-0.12500	-4.8677E-9	-0.0013718	27.435E-9
33	SB-09	50.97063	144.75740	0.00000	0.73596	-0.12500	-4.6979E-9	-0.0013503	27.005E-9
33	SB-09	51.19999	145.19790	0.00000	0.73211	-0.12500	-4.5356E-9	-0.0013294	26.587E-9
33	SB-09	51.42934	145.63840	0.00000	0.72824	-0.12500	-4.3803E-9	-0.0013090	26.179E-9
33	SB-09	51.65870	146.07890	0.00000	0.72435	-0.12500	-4.2317E-9	-0.0012891	25.782E-9
34	SB-10	51.65870	146.07890	0.00000	0.72435	-0.12500	-4.2317E-9	-0.0012891	25.782E-9
34	SB-10	52.05637	145.84480	0.00000	0.73025	-0.12500	-4.3147E-9	-0.0013041	26.081E-9
34	SB-10	52.45404	145.61070	0.00000	0.73620	-0.12500	-4.3988E-9	-0.0013192	26.383E-9
34	SB-10	52.85171	145.37660	0.00000	0.74218	-0.12500	-4.4838E-9	-0.0013343	26.686E-9
34	SB-10	53.24938	145.14250	0.00000	0.74820	-0.12500	-4.5698E-9	-0.0013496	26.992E-9
34	SB-10	53.64705	144.90840	0.00000	0.75426	-0.12500	-4.6568E-9	-0.0013650	27.300E-9
34	SB-10	54.04472	144.67430	0.00000	0.76036	-0.12500	-4.7446E-9	-0.0013805	27.610E-9
34	SB-10	54.44239	144.44020	0.00000	0.76650	-0.12500	-4.8333E-9	-0.0013961	27.922E-9
34	SB-10	54.84006	144.20610	0.00000	0.77268	-0.12500	-4.9229E-9	-0.0014118	28.236E-9
34	SB-10	55.23773	143.97200	0.00000	0.77890	-0.12500	-5.0132E-9	-0.0014276	28.551E-9
34	SB-10	55.63540	143.73790	0.00000	0.78516	-0.12500	-5.1043E-9	-0.0014435	28.869E-9
34	SB-10	56.03307	143.50380	0.00000	0.79146	-0.12500	-5.1961E-9	-0.0014594	29.188E-9
34	SB-10	56.43074	143.26970	0.00000	0.79780	-0.12500	-5.2886E-9	-0.0014755	29.509E-9
34	SB-10	56.82841	143.03560	0.00000	0.80419	-0.12500	-5.3817E-9	-0.0014916	29.832E-9
34	SB-10	57.22608	142.80150	0.00000	0.81061	-0.12500	-5.4753E-9	-0.0015078	30.156E-9
34	SB-10	57.62375	142.56740	0.00000	0.81708	-0.12500	-5.5695E-9	-0.0015241	30.481E-9
34	SB-10	58.02142	142.33330	0.00000	0.82359	-0.12500	-5.6642E-9	-0.0015404	30.808E-9
34	SB-10	58.41909	142.09920	0.00000	0.83015	-0.12500	-5.7592E-9	-0.0015569	31.136E-9
34	SB-10	58.81676	141.86510	0.00000	0.83675	-0.12500	-5.8546E-9	-0.0015733	31.466E-9
34	SB-10	59.21443	141.63100	0.00000	0.84339	-0.12500	-5.9503E-9	-0.0015898	31.796E-9
34	SB-10	59.61210	141.39690	0.00000	0.85008	-0.12500	-6.0462E-9	-0.0016064	32.128E-9
35	SB-11	59.61210	141.39690	0.00000	0.85008	-0.12500	-6.0462E-9	-0.0016064	32.128E-9
35	SB-11	60.04295	141.17306	0.00000	0.85694	-0.12500	-6.1350E-9	-0.0016225	32.449E-9
35	SB-11	60.47379	140.94923	0.00000	0.86384	-0.12500	-6.2234E-9	-0.0016386	32.771E-9
35	SB-11	60.90464	140.72539	0.00000	0.87080	-0.12500	-6.3113E-9	-0.0016546	33.092E-9
35	SB-11	61.33549	140.50155	0.00000	0.87780	-0.12500	-6.3986E-9	-0.0016707	33.414E-9
35	SB-11	61.76634	140.27772	0.00000	0.88485	-0.12500	-6.4853E-9	-0.0016868	33.735E-9
35	SB-11	62.19718	140.05388	0.00000	0.89195	-0.12500	-6.5713E-9	-0.0017028	34.056E-9
35	SB-11	62.62803	139.83004	0.00000	0.89911	-0.12500	-6.6565E-9	-0.0017189	34.376E-9
35	SB-11	63.05888	139.60621	0.00000	0.90631	-0.12500	-6.7408E-9	-0.0017349	34.697E-9
35	SB-11	63.48973	139.38237	0.00000	0.91357	-0.12500	-6.8243E-9	-0.0017509	35.017E-9
35	SB-11	63.92057	139.15853	0.00000	0.92088	-0.12500	-6.9066E-9	-0.0017668	35.336E-9
35	SB-11	64.35142	138.93469	0.00000	0.92825	-0.12500	-6.9879E-9	-0.0017828	35.654E-9
35	SB-11	64.78227	138.71086	0.00000	0.93567	-0.12500	-7.0681E-9	-0.0017987	35.972E-9
35	SB-11	65.21312	138.48702	0.00000	0.94315	-0.12500	-7.1470E-9	-0.0018145	36.289E-9
35	SB-11	65.64396	138.26318	0.00000	0.95069	-0.12500	-7.2246E-9	-0.0018303	36.606E-9
35	SB-11	66.07481	138.03935	0.00000	0.95828	-0.12500	-7.3009E-9	-0.0018461	36.921E-9
35	SB-11	66.50566	137.81551	0.00000	0.96593	-0.12500	-7.3757E-9	-0.0018618	37.236E-9
35	SB-11	66.93651	137.59167	0.00000	0.97365	-0.12500	-7.4491E-9	-0.0018775	37.549E-9
35	SB-11	67.36735	137.36784	0.00000	0.98142	-0.12500	-7.5209E-9	-0.0018932	37.862E-9
35	SB-11	67.79820	137.14400	0.00000	0.98926	-0.12500	-7.5912E-9	-0.0019087	38.174E-9
35	SB-11	68.22905	136.92016	0.00000	0.99716	-0.12500	-7.6598E-9	-0.0019243	38.485E-9
35	SB-11	68.65989	136.69633	0.00000	1.00513	-0.12500	-7.7268E-9	-0.0019398	38.794E-9
35	SB-11	69.09074	136.47249	0.00000	1.01316	-0.12500	-7.7920E-9	-0.0019552	39.103E-9
35	SB-11	69.52159	136.24865	0.00000	1.02126	-0.12500	-7.8556E-9	-0.0019706	39.411E-9
35	SB-11	69.95244	136.02482	0.00000	1.02942	-0.12500	-7.9173E-9	-0.0019859	39.717E-9
35	SB-11	70.38328	135.80098	0.00000	1.03765	-0.12500	-7.9773E-9	-0.0020012	40.023E-9
35	SB-11	70.81413	135.57714	0.00000	1.04595	-0.12500	-8.0355E-9	-0.0020164	40.328E-9
35	SB-11	71.24498	135.35331	0.00000	1.05433	-0.12500	-8.0919E-9	-0.0020316	40.632E-9
35	SB-11	71.67583	135.12947	0.00000	1.06277	-0.12500	-8.1465E-9	-0.0020468	40.935E-9
35	SB-11	72.10667	134.90563	0.00000	1.07128	-0.12500	-8.1993E-9	-0.0020619	41.237E-9
35	SB-11	72.53752	134.68179	0.00000	1.07987	-0.12500	-8.2503E-9	-0.0020770	41.539E-9
35	SB-11	72.96837	134.45796	0.00000	1.08853	-0.12500	-8.2995E-9	-0.0020921	41.840E-9
35	SB-11	73.39922	134.23412	0.00000	1.09727	-0.12500	-8.3470E-9	-0.0021071	42.141E-9
35	SB-11	73.83006	134.01028	0.00000	1.10608	-0.12500	-8.3928E-9	-0.0021221	42.441E-9
35	SB-11	74.26091	133.78645	0.00000	1.11497	-0.12500	-8.4369E-9	-0.0021371	42.741E-9
35	SB-11	74.69176	133.56261	0.00000	1.12393	-0.12500	-8.4793E-9	-0.0021521	43.041E-9
35	SB-11	75.12261	133.33877	0.00000	1.13297	-0.12500	-8.5203E-9	-0.0021671	43.341E-9
35	SB-11	75.55345	133.11494	0.00000	1.14209	-0.12500	-8.5596E-9	-0.0021821	43.642E-9
35	SB-11	75.98430	132.89110	0.00000	1.15129	-0.12500	-8.5976E-9	-0.0021972	43.942E-9
36	SB-12	75.98430	132.89110	0.00000	1.15129	-0.12500	-8.5976E-9	-0.0021972	43.942E-9
36	SB-12	76.21543	132.72207	0.00000	1.15726	-0.12500	-8.6486E-9	-0.0022092	44.183E-9
36	SB-12	76.44655	132.55305	0.00000	1.16326	-0.12500	-8.6992E-9	-0.0022213	44.425E-9
36	SB-12	76.67767	132.38403	0.00000	1.16930	-0.12500	-8.7494E-9	-0.0022334	44.668E-9
36	SB-12	76.90880	132.21500	0.00000	1.17537	-0.12500	-8.7994E-9	-0.0022456	44.911E-9
37	SB-13	76.90880	132.21500	0.00000	1.17537	-0.12500	-8.7994E-9	-0.0022456	44.911E-9
37	SB-13	76.76538	131.93155	0.00000	1.17964	-0.12500	-9.0221E-9	-0.0022703	45.405E-9
37	SB-13	76.62195	131.64810	0.00000	1.18387	-0.12500	-9.2528E-9	-0.0022955	45.909E-9
37	SB-13	76.47853	131.36465	0.00000	1.18805	-0.12500	-9.4919E-9	-0.0023212	46.423E-9
37	SB-13	76.33510	131.08120	0.00000	1.19218	-0.12500	-9.7398E-9	-0.0023475	46.949E-9
38	SB-14	76.33510	131.08120	0.00000	1.19218	-0.12500	-9.7398E-9	-0.0023475	46.949E-9
38	SB-14	76.75755	130.83449	0.00000	1.20226	-0.12500	-9.7899E-9	-0.0023649	47.296E-9
38	SB-14	77.18000	130.58778	0.00000	1.21243	-0.12500	-9.8383E-9	-0.0023823	47.645E-9
38	SB-14	77.60245	130.34107	0.00000	1.22270	-0.12500	-9.8852E-9	-0.0023998	47.994E-9
38	SB-14	78.02490	130.09436	0.00000	1.23307	-0.12500	-9.9306E-9	-0.0024173	48.345E-9
38	SB-14	78.44735	129.84765	0.00000	1.24354	-0.12500	-9.9745E-9	-0.0024349	48.697E-9
38	SB-14	78.86980	129.60094	0.00000	1.25411	-0.12500	-10.017E-9	-0.0024526	49.051E-9
38	SB-14	79.29225	129.35423	0.00000	1.26478	-0.12500	-10.059E-9	-0.0024704	49.407E-9
38	SB-14	79.71470	129.10752	0.00000	1.27554	-0.12500	-10.100E-9	-0.0024883	49.765E-9
38	SB-14	80.13715	128.86081	0.00000	1.28641	-0.12500	-10.140E-9	-0.0025064	50.126E-9
38	SB-14	80.55960	128.61410	0.00000	1.29738	-0.12500	-10.179E-9	-0.0025246	50.490E-9
39	HL-01	50.98220	128.46600	0.00000	0.91405	-0.12500	-24.064E-9	-0.0030001	60.000E-9
39	HL-01	50.76237	128.03676	0.00000	0.91357	-0.12500	-25.384E-9	-0.0030789	61.574E-9
39	HL-01	50.54254	127.60752	0.00000	0.91273	-0.12500	-26.793E-9	-0.0031608	63.213E-9
39	HL-01	50.32271	127.17828	0.00000	0.91153	-0.12500	-28.295E-9	-0.0032462	64.920E-9
39	HL-01	50.10287	126.74904	0.00000	0.90994	-0.12500	-29.899E-9	-0.0033351	66.699E-9
39	HL-01	49.88304	126.31980	0.00000	0.90795	-0.12500	-31.612E-9	-0.0034278	68.553E-9
39	HL-01	49.66321	125.89056	0.00000	0.90552	-0.12500	-33.442E-9	-0.0035245	70.486E-9
39	HL-01	49.44338	125.46132	0.00000	0.90264	-0.12500	-35.399E-9	-0.0036253	72.502E-9
39	HL-01	49.22355	125.03208	0.00000	0.89929	-0.12500	-37.492E-9	-0.0037305	74.605E-9
39	HL-01	49.00372	124.60283	0.00000	0.89544	-0.12500	-39.731E-9	-0.0038402	76.800E-9
39	HL-01	48.78389	124.17359	0.00000	0.89107	-0.12500	-42.129E-9	-0.0039548	79.091E-9
39	HL-01	48.56406	123.74435	0.00000	0.88616	-0.12500	-44.697E-9	-0.0040744	81.484E-9
39	HL-01	48.34423	123.31511	0.00000	0.88068	-0.12500	-47.449E-9	-0.0041994	83.983E-9
39	HL-01	48.12439	122.88587	0.00000	0.87461	-0.12500	-50.401E-9	-0.0043300	86.594E-9
39	HL-01	47.90456	122.45663	0.00000	0.86792	-0.12500	-53.566E-9	-0.0044664	89.322E-9
39	HL-01	47.68473	122.02739	0.00000	0.86058	-0.12500	-56.964E-9	-0.0046091	92.175E-9
39	HL-01	47.46490	121.59815	0.00000	0.85258	-0.12500	-60.612E-9	-0.0047582	95.158E-9
39	HL-01	47.24507	121.16891	0.00000	0.84389	-0.12500	-64.530E-9	-0.0049142	98.277E-9
39	HL-01	47.02524	120.73967	0.00000	0.83449	-0.12500	-68.741E-9	-0.0050774	101.54E-9
39	HL-01	46.80541	120.31043	0.00000	0.82435	-0.12500	-73.268E-9	-0.0052482	104.96E-9
39	HL-01	46.58557	119.88119	0.00000	0.81345	-0.12500	-78.136E-9	-0.0054269	108.53E-9
39	HL-01	46.36574	119.45195	0.00000	0.80178	-0.12500	-83.374E-9	-0.0056139	112.27E-9
39	HL-01	46.14591	119.02271	0.00000	0.78931	-0.12500	-89.011E-9	-0.0058097	116.18E-9
39	HL-01	45.92608	118.59347	0.00000	0.77603	-0.12500	-95.079E-9	-0.0060147	120.28E-9
39	HL-01	45.70625	118.16423	0.00000	0.76192	-0.12500	-101.61E-9	-0.0062293	124.57E-9
39	HL-01	45.48642	117.73498	0.00000	0.74697	-0.12500	-108.65E-9	-0.0064541	129.07E-9
39	HL-01	45.26659	117.30574	0.00000	0.73118	-0.12500	-116.24E-9	-0.0066894	133.77E-9
39	HL-01	45.04676	116.87650	0.00000	0.71455	-0.12500	-124.41E-9	-0.0069359	138.70E-9
39	HL-01	44.82693	116.44726	0.00000	0.69706	-0.12500	-133.22E-9	-0.0071940	143.86E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
39	HL-01	44.60709	116.01802	0.00000	0.67873	-0.12500	-142.71E-9	-0.0074642	149.27E-9
39	HL-01	44.38726	115.58878	0.00000	0.65957	-0.12500	-152.94E-9	-0.0077471	154.92E-9
39	HL-01	44.16743	115.15954	0.00000	0.63959	-0.12500	-163.96E-9	-0.0080432	160.84E-9
39	HL-01	43.94760	114.73030	0.00000	0.61881	-0.12500	-175.84E-9	-0.0083531	167.04E-9
40	HL-02	43.94760	114.73030	0.00000	0.61881	-0.12500	-175.84E-9	-0.0083531	167.04E-9
40	HL-02	43.53589	114.95231	0.00000	0.64151	-0.12500	-165.42E-9	-0.0080760	161.50E-9
40	HL-02	43.12418	115.17432	0.00000	0.66215	-0.12500	-155.62E-9	-0.0078083	156.15E-9
40	HL-02	42.71246	115.39634	0.00000	0.68086	-0.12500	-146.41E-9	-0.0075497	150.98E-9
40	HL-02	42.30075	115.61835	0.00000	0.69776	-0.12500	-137.76E-9	-0.0073002	145.99E-9
40	HL-02	41.88904	115.84036	0.00000	0.71300	-0.12500	-129.63E-9	-0.0070594	141.17E-9
40	HL-02	41.47733	116.06238	0.00000	0.72666	-0.12500	-121.99E-9	-0.0068272	136.53E-9
40	HL-02	41.06561	116.28439	0.00000	0.73888	-0.12500	-114.83E-9	-0.0066033	132.05E-9
40	HL-02	40.65390	116.50640	0.00000	0.74974	-0.12500	-108.11E-9	-0.0063876	127.74E-9
40	HL-02	40.24219	116.72841	0.00000	0.75933	-0.12500	-101.80E-9	-0.0061798	123.58E-9
40	HL-02	39.83047	116.95042	0.00000	0.76776	-0.12500	-95.889E-9	-0.0059796	119.58E-9
40	HL-02	39.41876	117.17244	0.00000	0.77508	-0.12500	-90.341E-9	-0.0057869	115.73E-9
40	HL-02	39.00705	117.39445	0.00000	0.78140	-0.12500	-85.138E-9	-0.0056013	112.02E-9
40	HL-02	38.59534	117.61646	0.00000	0.78676	-0.12500	-80.257E-9	-0.0054226	108.44E-9
40	HL-02	38.18362	117.83848	0.00000	0.79125	-0.12500	-75.679E-9	-0.0052506	105.00E-9
40	HL-02	37.77191	118.06049	0.00000	0.79492	-0.12500	-71.385E-9	-0.0050851	101.69E-9
40	HL-02	37.36020	118.28250	0.00000	0.79783	-0.12500	-67.356E-9	-0.0049257	98.506E-9
41	HL-03	37.36020	118.28250	0.00000	0.79783	-0.12500	-67.356E-9	-0.0049257	98.506E-9
41	HL-03	37.57767	118.71064	0.00000	0.80161	-0.12500	-64.220E-9	-0.0048029	96.050E-9
41	HL-03	37.79514	119.13877	0.00000	0.80522	-0.12500	-61.221E-9	-0.0046831	93.654E-9
41	HL-03	38.01262	119.56691	0.00000	0.80866	-0.12500	-58.354E-9	-0.0045662	91.318E-9
41	HL-03	38.23009	119.99505	0.00000	0.81191	-0.12500	-55.617E-9	-0.0044524	89.042E-9
41	HL-03	38.44756	120.42319	0.00000	0.81498	-0.12500	-53.004E-9	-0.0043416	86.826E-9
41	HL-03	38.66503	120.85133	0.00000	0.81786	-0.12500	-50.511E-9	-0.0042337	84.669E-9
41	HL-03	38.88250	121.27946	0.00000	0.82054	-0.12500	-48.135E-9	-0.0041288	82.571E-9
41	HL-03	39.09998	121.70760	0.00000	0.82302	-0.12500	-45.871E-9	-0.0040268	80.531E-9
41	HL-03	39.31745	122.13574	0.00000	0.82530	-0.12500	-43.714E-9	-0.0039276	78.548E-9
41	HL-03	39.53492	122.56387	0.00000	0.82738	-0.12500	-41.660E-9	-0.0038313	76.621E-9
41	HL-03	39.75239	122.99201	0.00000	0.82926	-0.12500	-39.705E-9	-0.0037377	74.750E-9
41	HL-03	39.96986	123.42015	0.00000	0.83094	-0.12500	-37.845E-9	-0.0036469	72.933E-9
41	HL-03	40.18733	123.84829	0.00000	0.83241	-0.12500	-36.076E-9	-0.0035587	71.169E-9
41	HL-03	40.40481	124.27643	0.00000	0.83368	-0.12500	-34.394E-9	-0.0034731	69.457E-9
41	HL-03	40.62228	124.70456	0.00000	0.83475	-0.12500	-32.794E-9	-0.0033900	67.796E-9
41	HL-03	40.83975	125.13270	0.00000	0.83563	-0.12500	-31.273E-9	-0.0033094	66.185E-9
41	HL-03	41.05722	125.56084	0.00000	0.83631	-0.12500	-29.827E-9	-0.0032313	64.622E-9
41	HL-03	41.27469	125.98897	0.00000	0.83680	-0.12500	-28.453E-9	-0.0031555	63.106E-9
41	HL-03	41.49217	126.41711	0.00000	0.83710	-0.12500	-27.147E-9	-0.0030820	61.636E-9
41	HL-03	41.70964	126.84525	0.00000	0.83722	-0.12500	-25.907E-9	-0.0030107	60.211E-9
41	HL-03	41.92711	127.27339	0.00000	0.83715	-0.12500	-24.728E-9	-0.0029416	58.830E-9
41	HL-03	42.14458	127.70153	0.00000	0.83691	-0.12500	-23.607E-9	-0.0028747	57.490E-9
41	HL-03	42.36205	128.12966	0.00000	0.83649	-0.12500	-22.543E-9	-0.0028097	56.192E-9
41	HL-03	42.57952	128.55780	0.00000	0.83591	-0.12500	-21.531E-9	-0.0027468	54.933E-9
41	HL-03	42.79700	128.98594	0.00000	0.83516	-0.12500	-20.570E-9	-0.0026858	53.713E-9
41	HL-03	43.01447	129.41407	0.00000	0.83425	-0.12500	-19.657E-9	-0.0026268	52.530E-9
41	HL-03	43.23194	129.84221	0.00000	0.83319	-0.12500	-18.789E-9	-0.0025693	51.383E-9
41	HL-03	43.44941	130.27035	0.00000	0.83198	-0.12500	-17.964E-9	-0.0025137	50.272E-9
41	HL-03	43.66688	130.69849	0.00000	0.83063	-0.12500	-17.180E-9	-0.0024598	49.194E-9
41	HL-03	43.88436	131.12662	0.00000	0.82913	-0.12500	-16.434E-9	-0.0024076	48.150E-9
41	HL-03	44.10183	131.55476	0.00000	0.82750	-0.12500	-15.726E-9	-0.0023569	47.137E-9
41	HL-03	44.31930	131.98290	0.00000	0.82575	-0.12500	-15.052E-9	-0.0023078	46.155E-9
42	CH-01	43.98880	114.70780	0.00000	0.61640	-0.12500	-176.93E-9	-0.0083816	167.61E-9
42	CH-01	44.42074	114.47714	0.00000	0.59011	-0.12500	-188.55E-9	-0.0086813	173.60E-9
42	CH-01	44.85268	114.24649	0.00000	0.56122	-0.12500	-200.91E-9	-0.0089914	179.80E-9
42	CH-01	45.28462	114.01583	0.00000	0.52953	-0.12500	-214.05E-9	-0.0093118	186.21E-9
42	CH-01	45.71656	113.78517	0.00000	0.49485	-0.12500	-227.99E-9	-0.0096425	192.82E-9
42	CH-01	46.14850	113.55451	0.00000	0.45697	-0.12500	-242.78E-9	-0.0099834	199.64E-9
42	CH-01	46.58044	113.32386	0.00000	0.41568	-0.12500	-258.42E-9	-0.010334	206.66E-9
42	CH-01	47.01237	113.09320	0.00000	0.37073	-0.12500	-274.96E-9	-0.010695	213.87E-9
42	CH-01	47.44431	112.86254	0.00000	0.32190	-0.12500	-292.40E-9	-0.011066	221.28E-9
42	CH-01	47.87625	112.63189	0.00000	0.26895	-0.12500	-310.77E-9	-0.011445	228.87E-9
42	CH-01	48.30819	112.40123	0.00000	0.21164	-0.12500	-330.05E-9	-0.011833	236.63E-9
42	CH-01	48.74013	112.17057	0.00000	0.14971	-0.12500	-350.25E-9	-0.012229	244.55E-9
42	CH-01	49.17207	111.93991	0.00000	0.08294	-0.12500	-371.36E-9	-0.012633	252.61E-9
42	CH-01	49.60401	111.70926	0.00000	0.01110	-0.12500	-393.34E-9	-0.013042	260.79E-9
42	CH-01	50.03595	111.47860	0.00000	-0.06601	-0.12500	-416.16E-9	-0.013456	269.08E-9
42	CH-01	50.46789	111.24794	0.00000	-0.14858	-0.12500	-439.75E-9	-0.013875	277.45E-9
42	CH-01	50.89983	111.01729	0.00000	-0.23675	-0.12500	-464.04E-9	-0.014296	285.86E-9
42	CH-01	51.33177	110.78663	0.00000	-0.33060	-0.12500	-488.94E-9	-0.014718	294.29E-9
42	CH-01	51.76371	110.55597	0.00000	-0.43015	-0.12500	-514.33E-9	-0.015139	302.71E-9
42	CH-01	52.19565	110.32531	0.00000	-0.53534	-0.12500	-540.09E-9	-0.015557	311.08E-9
42	CH-01	52.62759	110.09466	0.00000	-0.64601	-0.12500	-566.05E-9	-0.015971	319.35E-9
42	CH-01	53.05953	109.86400	0.00000	-0.76186	-0.12500	-592.05E-9	-0.016378	327.48E-9
42	CH-01	53.49146	109.63334	0.00000	-0.88247	-0.12500	-617.88E-9	-0.016775	335.43E-9
42	CH-01	53.92340	109.40269	0.00000	-1.00723	-0.12500	-643.34E-9	-0.017161	343.15E-9
42	CH-01	54.35534	109.17203	0.00000	-1.13536	-0.12500	-668.19E-9	-0.017533	350.58E-9
42	CH-01	54.78728	108.94137	0.00000	-1.26588	-0.12500	-692.19E-9	-0.017889	357.69E-9
42	CH-01	55.21922	108.71071	0.00000	-1.39760	-0.12500	-715.08E-9	-0.018225	364.41E-9
42	CH-01	55.65116	108.48006	0.00000	-1.52911	-0.12500	-736.62E-9	-0.018540	370.71E-9
42	CH-01	56.08310	108.24940	0.00000	-1.65882	-0.12500	-756.54E-9	-0.018830	376.52E-9
43	CH-02	56.08310	108.24940	0.00000	-1.65882	-0.12500	-756.54E-9	-0.018830	376.52E-9
43	CH-02	55.84919	107.82393	0.00000	-1.95897	-0.12500	-861.03E-9	-0.020194	403.77E-9
43	CH-02	55.61528	107.39846	0.00000	-2.28820	-0.12500	-983.70E-9	-0.021702	433.93E-9
43	CH-02	55.38138	106.97298	0.00000	-2.64860	-0.12500	-1.1284E-6	-0.023376	467.39E-9
43	CH-02	55.14747	106.54751	0.00000	-3.04221	-0.12500	-1.3000E-6	-0.025240	504.64E-9
43	CH-02	54.91356	106.12204	0.00000	-3.47100	-0.12500	-1.5046E-6	-0.027320	546.23E-9
43	CH-02	54.67965	105.69657	0.00000	-3.93679	-0.12500	-1.7499E-6	-0.029651	592.82E-9
43	CH-02	54.44574	105.27110	0.00000	-4.44110	-0.12500	-2.0460E-6	-0.032272	645.20E-9
43	CH-02	54.21184	104.84562	0.00000	-4.98488	-0.12500	-2.4057E-6	-0.035231	704.32E-9
43	CH-02	53.97793	104.42015	0.00000	-5.56782	-0.12500	-2.8459E-6	-0.038583	771.32E-9
43	CH-02	53.74402	103.99468	0.00000	-6.18687	-0.12500	-3.3887E-6	-0.042400	847.58E-9
43	CH-02	53.51011	103.56921	0.00000	-6.83347	-0.12500	-4.0638E-6	-0.046764	934.80E-9
43	CH-02	53.27620	103.14374	0.00000	-7.49142	-0.12500	-4.9110E-6	-0.051781	1.0350E-6
43	CH-02	53.04230	102.71826	0.00000	-8.14046	-0.12500	-5.9844E-6	-0.057580	1.1509E-6
43	CH-02	52.80839	102.29279	0.00000	-8.76471	-0.12500	-7.3592E-6	-0.064321	1.2855E-6
43	CH-02	52.57448	101.86732	0.00000	-9.35596	-0.12500	-9.1400E-6	-0.072207	1.4430E-6
43	CH-02	52.34057	101.44185	0.00000	-9.91131	-0.12500	-11.476E-6	-0.081498	1.6286E-6
43	CH-02	52.10666	101.01638	0.00000	-10.43046	-0.12500	-14.582E-6	-0.092526	1.8488E-6
43	CH-02	51.87276	100.59090	0.00000	-10.91425	-0.12500	-18.773E-6	-0.10572	2.1121E-6
43	CH-02	51.63885	100.16543	0.00000	-11.36402	-0.12500	-24.522E-6	-0.12165	2.4300E-6
43	CH-02	51.40494	99.73996	0.00000	-11.78133	-0.12500	-32.547E-6	-0.14105	2.8172E-6
43	CH-02	51.17103	99.31449	0.00000	-12.16788	-0.12500	-43.969E-6	-0.16495	3.2937E-6
43	CH-02	50.93712	98.88902	0.00000	-12.52542	-0.12500	-60.579E-6	-0.19470	3.8868E-6
43	CH-02	50.70322	98.46354	0.00000	-12.85574	-0.12500	-85.316E-6	-0.23222	4.6341E-6
43	CH-02	50.46931	98.03807	0.00000	-13.16066	-0.12500	-123.18E-6	-0.28016	5.5885E-6
43	CH-02	50.23540	97.61260	0.00000	-13.44204	-0.12500	-183.12E-6	-0.34242	6.8265E-6
43	CH-02	50.00149	97.18713	0.00000	-13.70183	-0.12500	-282.35E-6	-0.42489	8.4638E-6
43	CH-02	49.76758	96.76166	0.00000	-13.94228	-0.12500	-458.17E-6	-0.53717	10.688E-6
43	CH-02	49.53368	96.33618	0.00000	-14.16659	-0.12500	-807.06E-6	-0.69695	13.842E-6
43	CH-02	49.29977	95.91071	0.00000	-14.38062	-0.12500	-0.0016438	-0.94215	18.646E-6
43	CH-02	49.06586	95.48524	0.00000	-14.59752	-0.12500	-0.0043603	-1.3705	26.887E-6
43	CH-02	48.83195	95.05977	0.00000	-14.84666	-0.12500	-0.018364	-2.2894	43.584E-6
43	CH-02	48.59804	94.63430	0.00000	-15.15763	-0.12500	-0.10266	-4.4395	76.471E-6
43	CH-02	48.36414	94.20882	0.00000	-15.42149	-0.12500	-0.17251	-6.3878	107.05E-6
43	CH-02	48.13023	93.78335	0.00000	-15.55033	-0.12500	-0.17769	-7.1164	121.00E-6
43	CH-02	47.89632	93.35788	0.00000	-15.58158	-0.12500	-0.17595	-7.4167	127.22E-6
43	CH-02	47.66241	92.93241	0.00000	-15.54241	-0.12500	-0.17233	-7.5464	130.25E-6
43	CH-02	47.42850	92.50694	0.00000	-15.44440	-0.12500	-0.16806	-7.5944	131.72E-6
43	CH-02	47.19460	92.08146	0.00000	-15.29205	-0.12500	-0.16427	-7.6005	132.30E-6
43	CH-02	46.96069	91.65599	0.00000	-15.08674	-0.12500	-0.16085	-7.5804	132.31E-6
43	CH-02	46.72678	91.23052	0.00000	-14.82841	-0.12500	-0.15706	-7.5389	131.93E-6
43	CH-02	46.49287	90.80505	0.00000	-14.51626	-0.12500	-0.15312	-7.4801	131.23E-6
43	CH-02	46.25896	90.37958	0.00000	-14.14902	-0.12500	-0.14966	-7.4066	130.17E-6
43	CH-02	46.02506	89.95410	0.00000	-13.72492	-0.12500	-0.14646	-7.3143	128.71E-6
43	CH-02	45.79115	89.52863	0.00000	-13.24155	-0.12500	-0.14294	-7.1919	126.69E-6
43	CH-02	45.55724	89.10316	0.00000	-12.69531	-0.12500	-0.13903	-7.0189	123.69E-6
43	CH-02	45.32333	88.67769	0.00000	-12.08026	-0.12500	-0.13349	-6.7464	118.91E-6
43	CH-02	45.08942	88.25222	0.00000	-11.38577	-0.12500	-0.12848	-6.3014	110.61E-6
43	CH-02	44.85552	87.82674	0.00000	-10.58856	-0.12500	-0.11030	-5.3362	93.489E-6
43	CH-02	44.62161	87.40127	0.00000	-9.69330	-0.12500	-0.043686	-3.4596	63.950E-6
43	CH-02	44.38770	86.97580	0.00000	-8.82476	-0.12500	-0.0097932	-2.0929	40.683E-6
44	CH-03	44.38770	86.97580	0.00000	-8.82476	-0.12500	-0.0097932	-2.0929	40.683E-6
44	CH-03	43.96821	87.22111	0.00000	-7.96306	-0.12500	-0.0033466	-1.3649	26.896E-6
44	CH-03	43.54871	87.46643	0.00000	-7.19642	-0.12500	-0.0013993	-0.95414	18.915E-6
44	CH-03	43.12922	87.71174	0.00000	-6.50348	-0.12500	-693.51E-6	-0.70469	14.010E-6
44	CH-03	42.70973	87.95705	0.00000	-5.87073	-0.12500	-387.17E-6	-0.54149	10.783E-6
44	CH-03	42.29023	88.20237	0.00000	-5.29017	-0.12500	-235.13E-6	-0.42844	8.5406E-6
44	CH-03	41.87074	88.44768	0.00000	-4.75654	-0.12500	-151.90E-6	-0.34666	6.9150E-6

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
44	CH-03	41.45125	88.69300	0.00000	-4.26591	-0.12500	-102.85E-6	-0.28551	5.6978E-6
44	CH-03	41.03175	88.93831	0.00000	-3.81505	-0.12500	-72.257E-6	-0.23856	4.7625E-6
44	CH-03	40.61226	89.18362	0.00000	-3.40109	-0.12500	-52.293E-6	-0.20174	4.0285E-6
44	CH-03	40.19277	89.42894	0.00000	-3.02138	-0.12500	-38.781E-6	-0.17235	3.4424E-6
44	CH-03	39.77327	89.67425	0.00000	-2.67344	-0.12500	-29.354E-6	-0.14855	2.9676E-6
44	CH-03	39.35378	89.91956	0.00000	-2.35493	-0.12500	-22.610E-6	-0.12904	2.5780E-6
44	CH-03	38.93429	90.16488	0.00000	-2.06364	-0.12500	-17.679E-6	-0.11285	2.2550E-6
44	CH-03	38.51480	90.41019	0.00000	-1.79745	-0.12500	-14.007E-6	-0.099310	1.9845E-6
44	CH-03	38.09530	90.65550	0.00000	-1.55439	-0.12500	-11.227E-6	-0.087879	1.7562E-6
44	CH-03	37.67581	90.90082	0.00000	-1.33259	-0.12500	-9.0921E-6	-0.078156	1.5620E-6
44	CH-03	37.25632	91.14613	0.00000	-1.13033	-0.12500	-7.4322E-6	-0.069832	1.3957E-6
44	CH-03	36.83682	91.39145	0.00000	-0.94597	-0.12500	-6.1267E-6	-0.062661	1.2525E-6
44	CH-03	36.41733	91.63676	0.00000	-0.77801	-0.12500	-5.0894E-6	-0.056448	1.1283E-6
44	CH-03	35.99784	91.88207	0.00000	-0.62508	-0.12500	-4.2576E-6	-0.051037	1.0202E-6
44	CH-03	35.57834	92.12739	0.00000	-0.48587	-0.12500	-3.5848E-6	-0.046303	925.62E-9
44	CH-03	35.15885	92.37270	0.00000	-0.35921	-0.12500	-3.0364E-6	-0.042141	842.46E-9
44	CH-03	34.73936	92.61801	0.00000	-0.24401	-0.12500	-2.5862E-6	-0.038469	769.07E-9
44	CH-03	34.31986	92.86333	0.00000	-0.13929	-0.12500	-2.2141E-6	-0.035216	704.05E-9
44	CH-03	33.90037	93.10864	0.00000	-0.04413	-0.12500	-1.9048E-6	-0.032323	646.23E-9
44	CH-03	33.48088	93.35395	0.00000	0.04231	-0.12500	-1.6461E-6	-0.029742	594.64E-9
44	CH-03	33.06138	93.59927	0.00000	0.12077	-0.12500	-1.4286E-6	-0.027432	548.47E-9
44	CH-03	32.64189	93.84458	0.00000	0.19196	-0.12500	-1.2448E-6	-0.025358	507.02E-9
44	CH-03	32.22240	94.08990	0.00000	0.25651	-0.12500	-1.0887E-6	-0.023491	469.70E-9
44	CH-03	31.80290	94.33521	0.00000	0.31499	-0.12500	-955.60E-9	-0.021806	436.00E-9
44	CH-03	31.38341	94.58052	0.00000	0.36793	-0.12500	-841.61E-9	-0.020280	405.51E-9
44	CH-03	30.96392	94.82584	0.00000	0.41581	-0.12500	-743.60E-9	-0.018896	377.84E-9
44	CH-03	30.54442	95.07115	0.00000	0.45906	-0.12500	-659.00E-9	-0.017638	352.67E-9
44	CH-03	30.12493	95.31646	0.00000	0.49809	-0.12500	-585.72E-9	-0.016490	329.74E-9
44	CH-03	29.70544	95.56178	0.00000	0.53326	-0.12500	-522.02E-9	-0.015442	308.78E-9
44	CH-03	29.28595	95.80709	0.00000	0.56489	-0.12500	-466.48E-9	-0.014483	289.61E-9
44	CH-03	28.86645	96.05240	0.00000	0.59328	-0.12500	-417.90E-9	-0.013604	272.02E-9
44	CH-03	28.44696	96.29772	0.00000	0.61872	-0.12500	-375.27E-9	-0.012796	255.87E-9
44	CH-03	28.02747	96.54303	0.00000	0.64146	-0.12500	-337.77E-9	-0.012052	241.00E-9
44	CH-03	27.60797	96.78835	0.00000	0.66171	-0.12500	-304.69E-9	-0.011366	227.29E-9
44	CH-03	27.18848	97.03366	0.00000	0.67970	-0.12500	-275.43E-9	-0.010733	214.62E-9
44	CH-03	26.76899	97.27897	0.00000	0.69560	-0.12500	-249.49E-9	-0.010147	202.91E-9
44	CH-03	26.34949	97.52429	0.00000	0.70960	-0.12500	-226.43E-9	-0.0096043	192.06E-9
44	CH-03	25.93000	97.76960	0.00000	0.72185	-0.12500	-205.88E-9	-0.0091009	181.99E-9
45	CH-04	25.93000	97.76960	0.00000	0.72185	-0.12500	-205.88E-9	-0.0091009	181.99E-9
45	CH-04	26.16813	98.19696	0.00000	0.71816	-0.12500	-208.31E-9	-0.0091606	183.19E-9
45	CH-04	26.40627	98.62432	0.00000	0.71463	-0.12500	-210.42E-9	-0.0092120	184.21E-9
45	CH-04	26.64440	99.05168	0.00000	0.71129	-0.12500	-212.19E-9	-0.0092548	185.07E-9
45	CH-04	26.88253	99.47903	0.00000	0.70814	-0.12500	-213.62E-9	-0.0092888	185.75E-9
45	CH-04	27.12067	99.90639	0.00000	0.70522	-0.12500	-214.68E-9	-0.0093138	186.25E-9
45	CH-04	27.35880	100.33375	0.00000	0.70253	-0.12500	-215.38E-9	-0.0093297	186.57E-9
45	CH-04	27.59693	100.76111	0.00000	0.70008	-0.12500	-215.70E-9	-0.0093365	186.70E-9
45	CH-04	27.83507	101.18847	0.00000	0.69789	-0.12500	-215.65E-9	-0.0093340	186.65E-9
45	CH-04	28.07320	101.61583	0.00000	0.69597	-0.12500	-215.22E-9	-0.0093223	186.42E-9
45	CH-04	28.31133	102.04318	0.00000	0.69432	-0.12500	-214.42E-9	-0.0093015	186.00E-9
45	CH-04	28.54947	102.47054	0.00000	0.69296	-0.12500	-213.25E-9	-0.0092716	185.41E-9
45	CH-04	28.78760	102.89790	0.00000	0.69190	-0.12500	-211.72E-9	-0.0092327	184.63E-9
45	CH-04	29.02573	103.32526	0.00000	0.69114	-0.12500	-209.84E-9	-0.0091852	183.68E-9
45	CH-04	29.26387	103.75262	0.00000	0.69067	-0.12500	-207.62E-9	-0.0091291	182.56E-9
45	CH-04	29.50200	104.17997	0.00000	0.69051	-0.12500	-205.08E-9	-0.0090648	181.27E-9
45	CH-04	29.74013	104.60733	0.00000	0.69066	-0.12500	-202.23E-9	-0.0089926	179.83E-9
45	CH-04	29.97827	105.03469	0.00000	0.69111	-0.12500	-199.10E-9	-0.0089128	178.23E-9
45	CH-04	30.21640	105.46205	0.00000	0.69186	-0.12500	-195.69E-9	-0.0088258	176.49E-9
45	CH-04	30.45453	105.88941	0.00000	0.69291	-0.12500	-192.04E-9	-0.0087320	174.62E-9
45	CH-04	30.69267	106.31677	0.00000	0.69425	-0.12500	-188.16E-9	-0.0086318	172.61E-9
45	CH-04	30.93080	106.74412	0.00000	0.69588	-0.12500	-184.08E-9	-0.0085256	170.49E-9
45	CH-04	31.16893	107.17148	0.00000	0.69778	-0.12500	-179.82E-9	-0.0084138	168.26E-9
45	CH-04	31.40707	107.59884	0.00000	0.69995	-0.12500	-175.41E-9	-0.0082971	165.92E-9
45	CH-04	31.64520	108.02620	0.00000	0.70238	-0.12500	-170.86E-9	-0.0081757	163.49E-9
45	CH-04	31.88333	108.45356	0.00000	0.70505	-0.12500	-166.20E-9	-0.0080502	160.98E-9
45	CH-04	32.12147	108.88092	0.00000	0.70796	-0.12500	-161.46E-9	-0.0079211	158.40E-9
45	CH-04	32.35960	109.30827	0.00000	0.71108	-0.12500	-156.65E-9	-0.0077887	155.76E-9
45	CH-04	32.59773	109.73563	0.00000	0.71440	-0.12500	-151.80E-9	-0.0076536	153.05E-9
45	CH-04	32.83587	110.16299	0.00000	0.71792	-0.12500	-146.93E-9	-0.0075162	150.31E-9
45	CH-04	33.07400	110.59035	0.00000	0.72160	-0.12500	-142.05E-9	-0.0073770	147.52E-9
45	CH-04	33.31213	111.01771	0.00000	0.72544	-0.12500	-137.19E-9	-0.0072362	144.71E-9
45	CH-04	33.55027	111.44507	0.00000	0.72942	-0.12500	-132.35E-9	-0.0070945	141.87E-9
45	CH-04	33.78840	111.87242	0.00000	0.73352	-0.12500	-127.56E-9	-0.0069520	139.02E-9
45	CH-04	34.02653	112.29978	0.00000	0.73773	-0.12500	-122.83E-9	-0.0068092	136.17E-9
45	CH-04	34.26467	112.72714	0.00000	0.74202	-0.12500	-118.17E-9	-0.0066664	133.31E-9
45	CH-04	34.50280	113.15450	0.00000	0.74638	-0.12500	-113.59E-9	-0.0065240	130.47E-9
45	CH-04	34.74093	113.58186	0.00000	0.75078	-0.12500	-109.10E-9	-0.0063822	127.63E-9
45	CH-04	34.97907	114.00922	0.00000	0.75522	-0.12500	-104.71E-9	-0.0062412	124.81E-9
45	CH-04	35.21720	114.43658	0.00000	0.75968	-0.12500	-100.43E-9	-0.0061015	122.02E-9
45	CH-04	35.45533	114.86393	0.00000	0.76413	-0.12500	-96.266E-9	-0.0059630	119.25E-9
45	CH-04	35.69347	115.29129	0.00000	0.76857	-0.12500	-92.215E-9	-0.0058262	116.51E-9
45	CH-04	35.93160	115.71865	0.00000	0.77297	-0.12500	-88.286E-9	-0.0056911	113.81E-9
45	CH-04	36.16973	116.14601	0.00000	0.77732	-0.12500	-84.481E-9	-0.0055580	111.15E-9
45	CH-04	36.40787	116.57337	0.00000	0.78161	-0.12500	-80.802E-9	-0.0054269	108.53E-9
45	CH-04	36.64600	117.00073	0.00000	0.78581	-0.12500	-77.249E-9	-0.0052981	105.95E-9
45	CH-04	36.88413	117.42808	0.00000	0.78993	-0.12500	-73.824E-9	-0.0051715	103.42E-9
45	CH-04	37.12227	117.85544	0.00000	0.79394	-0.12500	-70.526E-9	-0.0050473	100.94E-9
45	CH-04	37.36040	118.28280	0.00000	0.79783	-0.12500	-67.354E-9	-0.0049256	98.505E-9
46	CH-05	44.38770	86.97580	0.00000	-8.82476	-0.12500	-0.0097932	-2.0929	40.683E-6
46	CH-05	43.96845	86.86828	0.00000	-7.81532	-0.12500	-0.0028381	-1.3114	25.888E-6
46	CH-05	43.54920	86.76075	0.00000	-6.95679	-0.12500	-0.0012181	-0.92317	18.317E-6
46	CH-05	43.12995	86.65323	0.00000	-6.20358	-0.12500	-635.98E-6	-0.69056	13.735E-6
46	CH-05	42.71070	86.54570	0.00000	-5.53318	-0.12500	-372.07E-6	-0.53672	10.690E-6
46	CH-05	42.29145	86.43818	0.00000	-4.93202	-0.12500	-234.45E-6	-0.42860	8.5439E-6
46	CH-05	41.87220	86.33065	0.00000	-4.39063	-0.12500	-155.76E-6	-0.34941	6.9694E-6
46	CH-05	41.45295	86.22312	0.00000	-3.90176	-0.12500	-107.72E-6	-0.28959	5.7788E-6
46	CH-05	41.03370	86.11560	0.00000	-3.45954	-0.12500	-76.913E-6	-0.24332	4.8571E-6
47	CH-06	41.03370	86.11560	0.00000	-3.45954	-0.12500	-76.913E-6	-0.24332	4.8571E-6
47	CH-06	40.61901	86.35816	0.00000	-3.13512	-0.12500	-57.844E-6	-0.20998	4.1927E-6
47	CH-06	40.20431	86.60072	0.00000	-2.82890	-0.12500	-44.155E-6	-0.18237	3.6421E-6
47	CH-06	39.78962	86.84328	0.00000	-2.54100	-0.12500	-34.168E-6	-0.15932	3.1822E-6
47	CH-06	39.37493	87.08584	0.00000	-2.27124	-0.12500	-26.770E-6	-0.13993	2.7954E-6
47	CH-06	38.96024	87.32840	0.00000	-2.01924	-0.12500	-21.214E-6	-0.12352	2.4679E-6
47	CH-06	38.54554	87.57096	0.00000	-1.78445	-0.12500	-16.988E-6	-0.10954	2.1889E-6
47	CH-06	38.13085	87.81352	0.00000	-1.56620	-0.12500	-13.733E-6	-0.097570	1.9498E-6
47	CH-06	37.71616	88.05609	0.00000	-1.36375	-0.12500	-11.200E-6	-0.087256	1.7438E-6
47	CH-06	37.30146	88.29865	0.00000	-1.17630	-0.12500	-9.2073E-6	-0.078327	1.5654E-6
47	CH-06	36.88677	88.54121	0.00000	-1.00301	-0.12500	-7.6254E-6	-0.070560	1.4103E-6
47	CH-06	36.47208	88.78377	0.00000	-0.84306	-0.12500	-6.3587E-6	-0.063774	1.2747E-6
47	CH-06	36.05739	89.02633	0.00000	-0.69561	-0.12500	-5.3360E-6	-0.057821	1.1558E-6
47	CH-06	35.64269	89.26889	0.00000	-0.55985	-0.12500	-4.5042E-6	-0.052578	1.0510E-6
47	CH-06	35.22800	89.51145	0.00000	-0.43498	-0.12500	-3.8229E-6	-0.047943	958.41E-9
47	CH-06	34.81331	89.75401	0.00000	-0.32025	-0.12500	-3.2613E-6	-0.043833	876.26E-9
47	CH-06	34.39861	89.99657	0.00000	-0.21493	-0.12500	-2.7955E-6	-0.040175	803.16E-9
47	CH-06	33.98392	90.23913	0.00000	-0.11835	-0.12500	-2.4071E-6	-0.036910	737.91E-9
47	CH-06	33.56923	90.48169	0.00000	-0.02985	-0.12500	-2.0815E-6	-0.033987	679.49E-9
47	CH-06	33.15454	90.72425	0.00000	0.05117	-0.12500	-1.8071E-6	-0.031363	627.04E-9
47	CH-06	32.73984	90.96681	0.00000	0.12528	-0.12500	-1.5748E-6	-0.029001	579.83E-9
47	CH-06	32.32515	91.20938	0.00000	0.19300	-0.12500	-1.3772E-6	-0.026870	537.23E-9
47	CH-06	31.91046	91.45194	0.00000	0.25483	-0.12500	-1.2086E-6	-0.024942	498.69E-9
47	CH-06	31.49576	91.69450	0.00000	0.31123	-0.12500	-1.0640E-6	-0.023194	463.76E-9
47	CH-06	31.08107	91.93706	0.00000	0.36262	-0.12500	-939.60E-9	-0.021606	432.01E-9
47	CH-06	30.66638	92.17962	0.00000	0.40939	-0.12500	-832.17E-9	-0.020160	403.10E-9
47	CH-06	30.25169	92.42218	0.00000	0.45191	-0.12500	-739.08E-9	-0.018841	376.72E-9
47	CH-06	29.83699	92.66474	0.00000	0.49051	-0.12500	-658.16E-9	-0.017635	352.61E-9
47	CH-06	29.42230	92.90730	0.00000	0.52550	-0.12500	-587.60E-9	-0.016530	330.53E-9
48	CH-07	29.42230	92.90730	0.00000	0.52550	-0.12500	-587.60E-9	-0.016530	330.53E-9
48	CH-07	29.15173	92.50539	0.00000	0.54330	-0.12500	-563.25E-9	-0.016136	322.66E-9
48	CH-07	28.88117	92.10349	0.00000	0.56089	-0.12500	-538.98E-9	-0.015737	314.67E-9
48	CH-07	28.61060	91.70158	0.00000	0.57821	-0.12500	-514.91E-9	-0.015333	306.59E-9
48	CH-07	28.34003	91.29968	0.00000	0.59521	-0.12500	-491.16E-9	-0.014926	298.46E-9
48	CH-07	28.06947	90.89777	0.00000	0.61183	-0.12500	-467.82E-9	-0.014518	290.30E-9
48	CH-07	27.79890	90.49587	0.00000	0.62805	-0.12500	-444.99E-9	-0.014110	282.14E-9
48	CH-07	27.52833	90.09396	0.00000	0.64382	-0.12500	-422.75E-9	-0.013704	274.03E-9
48	CH-07	27.25777	89.69206	0.00000	0.65912	-0.12500	-401.14E-9	-0.013301	265.97E-9
48	CH-07	26.98720	89.29015	0.00000	0.67390	-0.12500	-380.23E-9	-0.012902	257.99E-9
48	CH-07	26.71663	88.88824	0.00000	0.68815	-0.12500	-360.04E-9	-0.012508	250.11E-9
48	CH-07	26.44607	88.48634	0.00000	0.70185	-0.12500	-340.62E-9	-0.012120	242.35E-9
48	CH-07	26.17550	88.08443	0.00000	0.71499	-0.12500	-321.98E-9	-0.011738	234.73E-9
48	CH-07	25.90493	87.68253	0.00000	0.72754	-0.12500	-304.12E-9	-0.011365	227.25E-9
48	CH-07	25.63437	87.28062	0.00000	0.73951	-0.12500	-287.07E-9	-0.010999	219.94E-9
48	CH-07	25.36380	86.87872	0.00000	0.75088	-0.12500	-270.80E-9	-0.010641	212.79E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
48	CH-07	25.09323	86.47681	0.00000	0.76166	-0.12500	-255.32E-9	-0.010292	205.82E-9
48	CH-07	24.82267	86.07491	0.00000	0.77185	-0.12500	-240.61E-9	-0.0099528	199.03E-9
48	CH-07	24.55210	85.67300	0.00000	0.78144	-0.12500	-226.66E-9	-0.0096225	192.42E-9
49	CH-08	24.55210	85.67300	0.00000	0.78144	-0.12500	-226.66E-9	-0.0096225	192.42E-9
49	CH-08	24.36080	85.78905	0.00000	0.78440	-0.12500	-218.55E-9	-0.0094264	188.50E-9
49	CH-08	24.16950	85.90510	0.00000	0.78718	-0.12500	-210.77E-9	-0.0092351	184.68E-9
50	CH-09	24.16950	85.90510	0.00000	0.78718	-0.12500	-210.77E-9	-0.0092351	184.68E-9
50	CH-09	23.93042	85.56780	0.00000	0.79428	-0.12500	-200.21E-9	-0.0089713	179.40E-9
50	CH-09	23.69135	85.23050	0.00000	0.80096	-0.12500	-190.15E-9	-0.0087144	174.27E-9
50	CH-09	23.45228	84.89320	0.00000	0.80724	-0.12500	-180.56E-9	-0.0084644	169.27E-9
50	CH-09	23.21320	84.55590	0.00000	0.81311	-0.12500	-171.44E-9	-0.0082212	164.40E-9
50	CH-09	22.97413	84.21860	0.00000	0.81858	-0.12500	-162.77E-9	-0.0079849	159.68E-9
50	CH-09	22.73505	83.88130	0.00000	0.82366	-0.12500	-154.53E-9	-0.0077554	155.09E-9
50	CH-09	22.49598	83.54400	0.00000	0.82837	-0.12500	-146.69E-9	-0.0075326	150.63E-9
50	CH-09	22.25690	83.20670	0.00000	0.83271	-0.12500	-139.26E-9	-0.0073163	146.31E-9
51	CH-10	22.25690	83.20670	0.00000	0.83271	-0.12500	-139.26E-9	-0.0073163	146.31E-9
51	CH-10	21.84234	83.47075	0.00000	0.83312	-0.12500	-130.27E-9	-0.0070469	140.92E-9
51	CH-10	21.42778	83.73480	0.00000	0.83311	-0.12500	-121.90E-9	-0.0067888	135.76E-9
51	CH-10	21.01322	83.99885	0.00000	0.83270	-0.12500	-114.11E-9	-0.0065415	130.82E-9
51	CH-10	20.59866	84.26290	0.00000	0.83190	-0.12500	-106.85E-9	-0.0063048	126.08E-9
51	CH-10	20.18410	84.52695	0.00000	0.83073	-0.12500	-100.09E-9	-0.0060780	121.55E-9
51	CH-10	19.76954	84.79100	0.00000	0.82922	-0.12500	-93.798E-9	-0.0058609	117.21E-9
51	CH-10	19.35498	85.05505	0.00000	0.82737	-0.12500	-87.937E-9	-0.0056529	113.05E-9
51	CH-10	18.94042	85.31910	0.00000	0.82521	-0.12500	-82.476E-9	-0.0054538	109.07E-9
51	CH-10	18.52586	85.58315	0.00000	0.82275	-0.12500	-77.387E-9	-0.0052632	105.25E-9
51	CH-10	18.11130	85.84720	0.00000	0.82001	-0.12500	-72.644E-9	-0.0050806	101.60E-9
52	CH-11	18.11130	85.84720	0.00000	0.82001	-0.12500	-72.644E-9	-0.0050806	101.60E-9
52	CH-11	18.37194	86.24464	0.00000	0.81917	-0.12500	-75.940E-9	-0.0052070	104.13E-9
52	CH-11	18.63258	86.64209	0.00000	0.81813	-0.12500	-79.360E-9	-0.0053357	106.70E-9
52	CH-11	18.89322	87.03953	0.00000	0.81690	-0.12500	-82.906E-9	-0.0054668	109.33E-9
52	CH-11	19.15386	87.43697	0.00000	0.81546	-0.12500	-86.577E-9	-0.0056000	111.99E-9
52	CH-11	19.41450	87.83442	0.00000	0.81382	-0.12500	-90.373E-9	-0.0057353	114.69E-9
52	CH-11	19.67514	88.23186	0.00000	0.81198	-0.12500	-94.293E-9	-0.0058725	117.44E-9
52	CH-11	19.93578	88.62930	0.00000	0.80993	-0.12500	-98.336E-9	-0.0060116	120.22E-9
52	CH-11	20.19642	89.02675	0.00000	0.80769	-0.12500	-102.50E-9	-0.0061523	123.03E-9
52	CH-11	20.45706	89.42419	0.00000	0.80525	-0.12500	-106.78E-9	-0.0062945	125.88E-9
52	CH-11	20.71770	89.82163	0.00000	0.80262	-0.12500	-111.17E-9	-0.0064380	128.75E-9
52	CH-11	20.97834	90.21908	0.00000	0.79980	-0.12500	-115.67E-9	-0.0065825	131.64E-9
52	CH-11	21.23898	90.61652	0.00000	0.79679	-0.12500	-120.27E-9	-0.0067278	134.54E-9
52	CH-11	21.49962	91.01396	0.00000	0.79360	-0.12500	-124.96E-9	-0.0068737	137.46E-9
52	CH-11	21.76026	91.41141	0.00000	0.79025	-0.12500	-129.74E-9	-0.0070198	140.38E-9
52	CH-11	22.02090	91.80885	0.00000	0.78672	-0.12500	-134.59E-9	-0.0071660	143.30E-9
52	CH-11	22.28154	92.20629	0.00000	0.78304	-0.12500	-139.51E-9	-0.0073118	146.22E-9
52	CH-11	22.54218	92.60374	0.00000	0.77921	-0.12500	-144.47E-9	-0.0074569	149.12E-9
52	CH-11	22.80282	93.00118	0.00000	0.77524	-0.12500	-149.48E-9	-0.0076010	152.00E-9
52	CH-11	23.06346	93.39862	0.00000	0.77114	-0.12500	-154.50E-9	-0.0077437	154.86E-9
52	CH-11	23.32410	93.79607	0.00000	0.76693	-0.12500	-159.54E-9	-0.0078846	157.67E-9
52	CH-11	23.58474	94.19351	0.00000	0.76262	-0.12500	-164.56E-9	-0.0080233	160.45E-9
52	CH-11	23.84538	94.59095	0.00000	0.75822	-0.12500	-169.55E-9	-0.0081594	163.17E-9
52	CH-11	24.10602	94.98840	0.00000	0.75375	-0.12500	-174.49E-9	-0.0082924	165.83E-9
52	CH-11	24.36666	95.38584	0.00000	0.74923	-0.12500	-179.37E-9	-0.0084220	168.42E-9
52	CH-11	24.62730	95.78328	0.00000	0.74466	-0.12500	-184.15E-9	-0.0085476	170.93E-9
52	CH-11	24.88794	96.18073	0.00000	0.74007	-0.12500	-188.81E-9	-0.0086688	173.35E-9
52	CH-11	25.14858	96.57817	0.00000	0.73548	-0.12500	-193.35E-9	-0.0087852	175.68E-9
52	CH-11	25.40922	96.97561	0.00000	0.73089	-0.12500	-197.72E-9	-0.0088963	177.90E-9
52	CH-11	25.66986	97.37306	0.00000	0.72634	-0.12500	-201.91E-9	-0.0090018	180.01E-9
52	CH-11	25.93050	97.77050	0.00000	0.72185	-0.12500	-205.89E-9	-0.0091010	182.00E-9
53	10S-01	60.26430	42.08760	0.00000	0.65263	-0.12500	-15.376E-9	-0.0030885	61.769E-9
53	10S-01	60.08619	41.66303	0.00000	0.73049	-0.12500	-14.841E-9	-0.0030343	60.684E-9
53	10S-01	59.90809	41.23846	0.00000	0.80017	-0.12500	-14.328E-9	-0.0029813	59.624E-9
53	10S-01	59.72998	40.81389	0.00000	0.86246	-0.12500	-13.836E-9	-0.0029294	58.587E-9
53	10S-01	59.55187	40.38931	0.00000	0.91809	-0.12500	-13.363E-9	-0.0028787	57.573E-9
53	10S-01	59.37376	39.96474	0.00000	0.96772	-0.12500	-12.910E-9	-0.0028292	56.582E-9
53	10S-01	59.19566	39.54017	0.00000	1.01192	-0.12500	-12.474E-9	-0.0027807	55.612E-9
53	10S-01	59.01755	39.11560	0.00000	1.05121	-0.12500	-12.057E-9	-0.0027333	54.664E-9
53	10S-01	58.83944	38.69103	0.00000	1.08606	-0.12500	-11.655E-9	-0.0026869	53.737E-9
53	10S-01	58.66134	38.26646	0.00000	1.11689	-0.12500	-11.270E-9	-0.0026416	52.830E-9
53	10S-01	58.48323	37.84189	0.00000	1.14407	-0.12500	-10.899E-9	-0.0025972	51.943E-9
53	10S-01	58.30512	37.41731	0.00000	1.16794	-0.12500	-10.543E-9	-0.0025538	51.075E-9
53	10S-01	58.12701	36.99274	0.00000	1.18881	-0.12500	-10.201E-9	-0.0025113	50.225E-9
53	10S-01	57.94891	36.56817	0.00000	1.20695	-0.12500	-9.8720E-9	-0.0024698	49.395E-9
53	10S-01	57.77080	36.14360	0.00000	1.22260	-0.12500	-9.5558E-9	-0.0024291	48.581E-9
54	10S-02	57.77080	36.14360	0.00000	1.22260	-0.12500	-9.5558E-9	-0.0024291	48.581E-9
54	10S-02	57.41346	36.28429	0.00000	1.21830	-0.12500	-9.6238E-9	-0.0024277	48.552E-9
54	10S-02	57.05613	36.42498	0.00000	1.21426	-0.12500	-9.6942E-9	-0.0024264	48.527E-9
54	10S-02	56.69879	36.56566	0.00000	1.21047	-0.12500	-9.7669E-9	-0.0024253	48.505E-9
54	10S-02	56.34145	36.70635	0.00000	1.20694	-0.12500	-9.8418E-9	-0.0024244	48.487E-9
54	10S-02	55.98411	36.84704	0.00000	1.20364	-0.12500	-9.9189E-9	-0.0024237	48.472E-9
54	10S-02	55.62678	36.98772	0.00000	1.20057	-0.12500	-9.9980E-9	-0.0024231	48.461E-9
54	10S-02	55.26944	37.12841	0.00000	1.19773	-0.12500	-10.079E-9	-0.0024227	48.453E-9
54	10S-02	54.91210	37.26910	0.00000	1.19510	-0.12500	-10.162E-9	-0.0024224	48.448E-9
55	10S-03	54.91210	37.26910	0.00000	1.19510	-0.12500	-10.162E-9	-0.0024224	48.448E-9
55	10S-03	54.77050	36.95770	0.00000	1.20463	-0.12500	-9.9040E-9	-0.0023914	47.826E-9
55	10S-03	54.62890	36.64630	0.00000	1.21194	-0.12500	-9.6538E-9	-0.0023608	47.216E-9
55	10S-03	54.48730	36.33490	0.00000	1.21885	-0.12500	-9.4111E-9	-0.0023308	46.615E-9
55	10S-03	54.34570	36.02350	0.00000	1.22484	-0.12500	-9.1758E-9	-0.0023013	46.025E-9
55	10S-03	54.20410	35.71210	0.00000	1.22996	-0.12500	-8.9476E-9	-0.0022723	45.446E-9
55	10S-03	54.06250	35.40070	0.00000	1.23428	-0.12500	-8.7263E-9	-0.0022438	44.875E-9
56	10S-04	54.06250	35.40070	0.00000	1.23428	-0.12500	-8.7263E-9	-0.0022438	44.875E-9
56	10S-04	54.36875	35.26848	0.00000	1.23749	-0.12500	-8.6680E-9	-0.0022441	44.880E-9
56	10S-04	54.67500	35.13627	0.00000	1.24081	-0.12500	-8.6108E-9	-0.0022444	44.887E-9
56	10S-04	54.98125	35.00405	0.00000	1.24423	-0.12500	-8.5549E-9	-0.0022448	44.895E-9
56	10S-04	55.28750	34.87183	0.00000	1.24777	-0.12500	-8.5003E-9	-0.0022454	44.906E-9
56	10S-04	55.59375	34.73962	0.00000	1.25142	-0.12500	-8.4470E-9	-0.0022460	44.919E-9
56	10S-04	55.90000	34.60740	0.00000	1.25519	-0.12500	-8.3951E-9	-0.0022468	44.935E-9
57	10S-05	55.90000	34.60740	0.00000	1.25519	-0.12500	-8.3951E-9	-0.0022468	44.935E-9
57	10S-05	55.71496	34.17881	0.00000	1.26036	-0.12500	-8.1260E-9	-0.0022097	44.194E-9
57	10S-05	55.52993	33.75021	0.00000	1.26419	-0.12500	-7.8673E-9	-0.0021735	43.469E-9
57	10S-05	55.34489	33.32162	0.00000	1.26679	-0.12500	-7.6185E-9	-0.0021380	42.760E-9
57	10S-05	55.15986	32.89303	0.00000	1.26826	-0.12500	-7.3792E-9	-0.0021033	42.066E-9
57	10S-05	54.97482	32.46444	0.00000	1.26870	-0.12500	-7.1490E-9	-0.0020694	41.387E-9
57	10S-05	54.78979	32.03584	0.00000	1.26821	-0.12500	-6.9275E-9	-0.0020361	40.722E-9
57	10S-05	54.60475	31.60725	0.00000	1.26687	-0.12500	-6.7142E-9	-0.0020036	40.072E-9
57	10S-05	54.41971	31.17866	0.00000	1.26474	-0.12500	-6.5089E-9	-0.0019718	39.435E-9
57	10S-05	54.23468	30.75006	0.00000	1.26191	-0.12500	-6.3111E-9	-0.0019406	38.811E-9
57	10S-05	54.04964	30.32147	0.00000	1.25842	-0.12500	-6.1207E-9	-0.0019101	38.201E-9
57	10S-05	53.86461	29.89288	0.00000	1.25435	-0.12500	-5.9372E-9	-0.0018802	37.603E-9
57	10S-05	53.67957	29.46429	0.00000	1.24973	-0.12500	-5.7603E-9	-0.0018509	37.018E-9
57	10S-05	53.49454	29.03569	0.00000	1.24463	-0.12500	-5.5899E-9	-0.0018222	36.444E-9
57	10S-05	53.30950	28.60710	0.00000	1.23907	-0.12500	-5.4255E-9	-0.0017942	35.882E-9
58	10S-06	53.30950	28.60710	0.00000	1.23907	-0.12500	-5.4255E-9	-0.0017942	35.882E-9
58	10S-06	52.88902	28.76706	0.00000	1.23379	-0.12500	-5.4419E-9	-0.0017900	35.799E-9
58	10S-06	52.46854	28.92701	0.00000	1.22855	-0.12500	-5.4590E-9	-0.0017859	35.718E-9
58	10S-06	52.04806	29.08697	0.00000	1.22335	-0.12500	-5.4769E-9	-0.0017820	35.638E-9
58	10S-06	51.62758	29.24692	0.00000	1.21820	-0.12500	-5.4955E-9	-0.0017781	35.561E-9
58	10S-06	51.20709	29.40688	0.00000	1.21308	-0.12500	-5.5148E-9	-0.0017742	35.484E-9
58	10S-06	50.78661	29.56684	0.00000	1.20800	-0.12500	-5.5346E-9	-0.0017705	35.409E-9
58	10S-06	50.36613	29.72679	0.00000	1.20295	-0.12500	-5.5550E-9	-0.0017668	35.336E-9
58	10S-06	49.94565	29.88675	0.00000	1.19793	-0.12500	-5.5758E-9	-0.0017632	35.264E-9
58	10S-06	49.52517	30.04671	0.00000	1.19294	-0.12500	-5.5971E-9	-0.0017597	35.193E-9
58	10S-06	49.10469	30.20666	0.00000	1.18798	-0.12500	-5.6188E-9	-0.0017562	35.123E-9
58	10S-06	48.68421	30.36662	0.00000	1.18305	-0.12500	-5.6408E-9	-0.0017527	35.053E-9
58	10S-06	48.26373	30.52658	0.00000	1.17813	-0.12500	-5.6631E-9	-0.0017493	34.985E-9
58	10S-06	47.84324	30.68653	0.00000	1.17323	-0.12500	-5.6856E-9	-0.0017459	34.917E-9
58	10S-06	47.42276	30.84649	0.00000	1.16835	-0.12500	-5.7083E-9	-0.0017426	34.850E-9
58	10S-06	47.00228	31.00644	0.00000	1.16349	-0.12500	-5.7310E-9	-0.0017392	34.784E-9
58	10S-06	46.58180	31.16640	0.00000	1.15863	-0.12500	-5.7538E-9	-0.0017359	34.718E-9
59	10S-07	46.58180	31.16640	0.00000	1.15863	-0.12500	-5.7538E-9	-0.0017359	34.718E-9
59	10S-07	46.77181	31.59864	0.00000	1.16453	-0.12500	-5.9535E-9	-0.0017656	35.311E-9
59	10S-07	46.96181	32.03089	0.00000	1.17010	-0.12500	-6.1621E-9	-0.0017959	35.918E-9
59	10S-07	47.15182	32.46313	0.00000	1.17531	-0.12500	-6.3800E-9	-0.0018271	36.541E-9
59	10S-07	47.34183	32.89538	0.00000	1.18013	-0.12500	-6.6077E-9	-0.0018590	37.180E-9
59	10S-07	47.53183	33.32762	0.00000	1.18451	-0.12500	-6.8457E-9	-0.0018918	37.834E-9
59	10S-07	47.72184	33.75986	0.00000	1.18842	-0.12500	-7.0946E-9	-0.0019254	38.506E-9
59	10S-07	47.91184	34.19211	0.00000	1.19181	-0.12500	-7.3551E-9	-0.0019598	39.195E-9
59	10S-07	48.10185	34.62435	0.00000	1.19463	-0.12500	-7.6277E-9	-0.0019952	39.903E-9
59	10S-07	48.29186	35.05659	0.00000	1.19685	-0.12500	-7.9130E-9	-0.0020315	40.629E-9
59	10S-07	48.48186	35.48884	0.00000	1.19839	-0.12500	-8.2120E-9	-0.0020688	41.374E-9
59	10S-07	48.67187	35.92108	0.00000	1.19920	-0.12500	-8.5253E-9	-0.0021070	42.140E-9
59	10S-07	48.86187	36.35332	0.00000	1.19921	-0.12500	-8.8537E-9	-0.0021464	42.926E-9
59	10S-07	49.05188	36.78557	0.00000	1.19836	-0.12500	-9.1981E-9	-0.0021868	43.734E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
59	10S-07	49.24189	37.21781	0.00000	1.19656	-0.12500	-9.5595E-9	-0.0022283	44.565E-9
59	10S-07	49.43189	37.65006	0.00000	1.19374	-0.12500	-9.9388E-9	-0.0022710	45.418E-9
59	10S-07	49.62190	38.08230	0.00000	1.18980	-0.12500	-10.337E-9	-0.0023149	46.296E-9
59	10S-07	49.81191	38.51454	0.00000	1.18464	-0.12500	-10.755E-9	-0.0023600	47.199E-9
59	10S-07	50.00191	38.94679	0.00000	1.17815	-0.12500	-11.195E-9	-0.0024064	48.128E-9
59	10S-07	50.19192	39.37903	0.00000	1.17022	-0.12500	-11.658E-9	-0.0024542	49.083E-9
59	10S-07	50.38193	39.81127	0.00000	1.16071	-0.12500	-12.144E-9	-0.0025034	50.067E-9
59	10S-07	50.57193	40.24352	0.00000	1.14949	-0.12500	-12.656E-9	-0.0025541	51.080E-9
59	10S-07	50.76194	40.67576	0.00000	1.13641	-0.12500	-13.195E-9	-0.0026063	52.123E-9
59	10S-07	50.95194	41.10801	0.00000	1.12128	-0.12500	-13.762E-9	-0.0026600	53.198E-9
59	10S-07	51.14195	41.54025	0.00000	1.10394	-0.12500	-14.360E-9	-0.0027154	54.306E-9
59	10S-07	51.33196	41.97249	0.00000	1.08418	-0.12500	-14.991E-9	-0.0027725	55.448E-9
59	10S-07	51.52196	42.40474	0.00000	1.06178	-0.12500	-15.656E-9	-0.0028313	56.625E-9
59	10S-07	51.71197	42.83698	0.00000	1.03650	-0.12500	-16.358E-9	-0.0028920	57.839E-9
59	10S-07	51.90198	43.26922	0.00000	1.00808	-0.12500	-17.099E-9	-0.0029547	59.091E-9
59	10S-07	52.09198	43.70147	0.00000	0.97622	-0.12500	-17.882E-9	-0.0030193	60.384E-9
59	10S-07	52.28199	44.13371	0.00000	0.94062	-0.12500	-18.708E-9	-0.0030860	61.718E-9
59	10S-07	52.47199	44.56596	0.00000	0.90092	-0.12500	-19.583E-9	-0.0031549	63.096E-9
59	10S-07	52.66200	44.99820	0.00000	0.85675	-0.12500	-20.507E-9	-0.0032261	64.520E-9
60	10S-08	52.66200	44.99820	0.00000	0.85675	-0.12500	-20.507E-9	-0.0032261	64.520E-9
60	10S-08	53.08435	44.83650	0.00000	0.84066	-0.12500	-20.171E-9	-0.0032158	64.313E-9
60	10S-08	53.50670	44.67480	0.00000	0.82458	-0.12500	-19.839E-9	-0.0032056	64.109E-9
60	10S-08	53.92905	44.51310	0.00000	0.80858	-0.12500	-19.512E-9	-0.0031956	63.910E-9
60	10S-08	54.35140	44.35140	0.00000	0.79277	-0.12500	-19.189E-9	-0.0031859	63.715E-9
60	10S-08	54.77375	44.18970	0.00000	0.77727	-0.12500	-18.872E-9	-0.0031764	63.526E-9
60	10S-08	55.19610	44.02800	0.00000	0.76216	-0.12500	-18.560E-9	-0.0031672	63.343E-9
60	10S-08	55.61845	43.86630	0.00000	0.74758	-0.12500	-18.254E-9	-0.0031584	63.165E-9
60	10S-08	56.04080	43.70460	0.00000	0.73362	-0.12500	-17.955E-9	-0.0031499	62.995E-9
60	10S-08	56.46315	43.54290	0.00000	0.72040	-0.12500	-17.662E-9	-0.0031417	62.832E-9
60	10S-08	56.88550	43.38120	0.00000	0.70804	-0.12500	-17.377E-9	-0.0031339	62.677E-9
60	10S-08	57.30785	43.21950	0.00000	0.69665	-0.12500	-17.099E-9	-0.0031266	62.530E-9
60	10S-08	57.73020	43.05780	0.00000	0.68634	-0.12500	-16.828E-9	-0.0031197	62.392E-9
60	10S-08	58.15255	42.89610	0.00000	0.67721	-0.12500	-16.565E-9	-0.0031132	62.263E-9
60	10S-08	58.57490	42.73440	0.00000	0.66936	-0.12500	-16.311E-9	-0.0031073	62.143E-9
60	10S-08	58.99725	42.57270	0.00000	0.66290	-0.12500	-16.064E-9	-0.0031018	62.034E-9
60	10S-08	59.41960	42.41100	0.00000	0.65791	-0.12500	-15.826E-9	-0.0030968	61.935E-9
60	10S-08	59.84195	42.24930	0.00000	0.65446	-0.12500	-15.597E-9	-0.0030924	61.846E-9
60	10S-08	60.26430	42.08760	0.00000	0.65263	-0.12500	-15.376E-9	-0.0030885	61.769E-9
61	10S-09	55.90000	34.60740	0.00000	1.25519	-0.12500	-8.3951E-9	-0.0022468	44.935E-9
61	10S-09	56.30750	34.44578	0.00000	1.26015	-0.12500	-8.3366E-9	-0.0022490	44.979E-9
61	10S-09	56.71500	34.28416	0.00000	1.26532	-0.12500	-8.2803E-9	-0.0022514	45.028E-9
61	10S-09	57.12250	34.12254	0.00000	1.27071	-0.12500	-8.2262E-9	-0.0022541	45.080E-9
61	10S-09	57.53000	33.96092	0.00000	1.27632	-0.12500	-8.1746E-9	-0.0022569	45.137E-9
61	10S-09	57.93750	33.79930	0.00000	1.28215	-0.12500	-8.1253E-9	-0.0022600	45.198E-9
61	10S-09	58.34500	33.63768	0.00000	1.28821	-0.12500	-8.0784E-9	-0.0022632	45.264E-9
61	10S-09	58.75250	33.47606	0.00000	1.29449	-0.12500	-8.0342E-9	-0.0022667	45.334E-9
61	10S-09	59.16000	33.31444	0.00000	1.30100	-0.12500	-7.9925E-9	-0.0022705	45.409E-9
61	10S-09	59.56750	33.15282	0.00000	1.30775	-0.12500	-7.9534E-9	-0.0022745	45.489E-9
61	10S-09	59.97500	32.99120	0.00000	1.31472	-0.12500	-7.9170E-9	-0.0022787	45.573E-9
62	10S-10	59.97500	32.99120	0.00000	1.31472	-0.12500	-7.9170E-9	-0.0022787	45.573E-9
62	10S-10	59.79820	32.55856	0.00000	1.31978	-0.12500	-7.6848E-9	-0.0022431	44.861E-9
62	10S-10	59.62140	32.12591	0.00000	1.32344	-0.12500	-7.4606E-9	-0.0022081	44.162E-9
62	10S-10	59.44460	31.69327	0.00000	1.32582	-0.12500	-7.2441E-9	-0.0021739	43.477E-9
62	10S-10	59.26780	31.26063	0.00000	1.32704	-0.12500	-7.0349E-9	-0.0021403	42.805E-9
62	10S-10	59.09100	30.82799	0.00000	1.32719	-0.12500	-6.8328E-9	-0.0021073	42.146E-9
62	10S-10	58.91420	30.39534	0.00000	1.32637	-0.12500	-6.6375E-9	-0.0020750	41.499E-9
62	10S-10	58.73740	29.96270	0.00000	1.32467	-0.12500	-6.4488E-9	-0.0020433	40.865E-9
62	10S-10	58.56060	29.53006	0.00000	1.32217	-0.12500	-6.2663E-9	-0.0020122	40.243E-9
62	10S-10	58.38380	29.09741	0.00000	1.31893	-0.12500	-6.0900E-9	-0.0019817	39.633E-9
62	10S-10	58.20700	28.66477	0.00000	1.31502	-0.12500	-5.9194E-9	-0.0019518	39.035E-9
62	10S-10	58.03020	28.23213	0.00000	1.31050	-0.12500	-5.7546E-9	-0.0019224	38.447E-9
62	10S-10	57.85340	27.79949	0.00000	1.30543	-0.12500	-5.5951E-9	-0.0018936	37.871E-9
62	10S-10	57.67660	27.36684	0.00000	1.29986	-0.12500	-5.4408E-9	-0.0018653	37.306E-9
62	10S-10	57.49980	26.93420	0.00000	1.29382	-0.12500	-5.2915E-9	-0.0018376	36.751E-9
63	10S-11	57.49980	26.93420	0.00000	1.29382	-0.12500	-5.2915E-9	-0.0018376	36.751E-9
63	10S-11	57.08077	27.10149	0.00000	1.28813	-0.12500	-5.2998E-9	-0.0018327	36.653E-9
63	10S-11	56.66174	27.26878	0.00000	1.28248	-0.12500	-5.3093E-9	-0.0018279	36.558E-9
63	10S-11	56.24271	27.43607	0.00000	1.27688	-0.12500	-5.3200E-9	-0.0018233	36.465E-9
63	10S-11	55.82368	27.60336	0.00000	1.27133	-0.12500	-5.3318E-9	-0.0018188	36.375E-9
63	10S-11	55.40465	27.77065	0.00000	1.26583	-0.12500	-5.3448E-9	-0.0018144	36.287E-9
63	10S-11	54.98562	27.93794	0.00000	1.26039	-0.12500	-5.3589E-9	-0.0018101	36.202E-9
63	10S-11	54.56659	28.10523	0.00000	1.25499	-0.12500	-5.3741E-9	-0.0018060	36.118E-9
63	10S-11	54.14756	28.27252	0.00000	1.24963	-0.12500	-5.3903E-9	-0.0018019	36.038E-9
63	10S-11	53.72853	28.43981	0.00000	1.24433	-0.12500	-5.4074E-9	-0.0017980	35.959E-9
63	10S-11	53.30950	28.60710	0.00000	1.23907	-0.12500	-5.4255E-9	-0.0017942	35.882E-9
64	10S-12	53.30950	28.60710	0.00000	1.23907	-0.12500	-5.4255E-9	-0.0017942	35.882E-9
64	10S-12	53.49454	29.03569	0.00000	1.24463	-0.12500	-5.5899E-9	-0.0018222	36.444E-9
64	10S-12	53.67957	29.46429	0.00000	1.24973	-0.12500	-5.7603E-9	-0.0018509	37.018E-9
64	10S-12	53.86461	29.89288	0.00000	1.25435	-0.12500	-5.9372E-9	-0.0018802	37.603E-9
64	10S-12	54.04964	30.32147	0.00000	1.25842	-0.12500	-6.1207E-9	-0.0019101	38.201E-9
64	10S-12	54.23468	30.75006	0.00000	1.26191	-0.12500	-6.3111E-9	-0.0019406	38.811E-9
64	10S-12	54.41971	31.17866	0.00000	1.26474	-0.12500	-6.5089E-9	-0.0019718	39.435E-9
64	10S-12	54.60475	31.60725	0.00000	1.26687	-0.12500	-6.7142E-9	-0.0020036	40.072E-9
64	10S-12	54.78979	32.03584	0.00000	1.26821	-0.12500	-6.9275E-9	-0.0020361	40.722E-9
64	10S-12	54.97482	32.46444	0.00000	1.26870	-0.12500	-7.1490E-9	-0.0020694	41.387E-9
64	10S-12	55.15986	32.89303	0.00000	1.26826	-0.12500	-7.3792E-9	-0.0021033	42.066E-9
64	10S-12	55.34489	33.32162	0.00000	1.26679	-0.12500	-7.6185E-9	-0.0021380	42.760E-9
64	10S-12	55.52993	33.75021	0.00000	1.26419	-0.12500	-7.8673E-9	-0.0021735	43.469E-9
64	10S-12	55.71496	34.17881	0.00000	1.26036	-0.12500	-8.1260E-9	-0.0022097	44.194E-9
64	10S-12	55.90000	34.60740	0.00000	1.25519	-0.12500	-8.3951E-9	-0.0022468	44.935E-9
65	12S-01	56.42810	52.89730	0.00000	-1.64972	-0.12500	-51.671E-9	-0.0050688	101.37E-9
65	12S-01	56.90271	52.76362	0.00000	-1.88435	-0.12500	-50.263E-9	-0.0050265	100.52E-9
65	12S-01	57.37732	52.62994	0.00000	-2.13120	-0.12500	-48.880E-9	-0.0049849	99.692E-9
65	12S-01	57.85193	52.49626	0.00000	-2.38935	-0.12500	-47.523E-9	-0.0049439	98.872E-9
65	12S-01	58.32654	52.36258	0.00000	-2.65756	-0.12500	-46.195E-9	-0.0049037	98.069E-9
65	12S-01	58.80115	52.22890	0.00000	-2.93411	-0.12500	-44.898E-9	-0.0048645	97.284E-9
65	12S-01	59.27576	52.09522	0.00000	-3.21689	-0.12500	-43.634E-9	-0.0048263	96.520E-9
65	12S-01	59.75037	51.96154	0.00000	-3.50332	-0.12500	-42.404E-9	-0.0047891	95.778E-9
65	12S-01	60.22498	51.82786	0.00000	-3.79044	-0.12500	-41.210E-9	-0.0047532	95.059E-9
65	12S-01	60.69959	51.69418	0.00000	-4.07499	-0.12500	-40.053E-9	-0.0047186	94.367E-9
65	12S-01	61.17420	51.56050	0.00000	-4.35352	-0.12500	-38.935E-9	-0.0046853	93.702E-9
65	12S-01	61.64881	51.42682	0.00000	-4.62255	-0.12500	-37.855E-9	-0.0046535	93.066E-9
65	12S-01	62.12342	51.29314	0.00000	-4.87875	-0.12500	-36.814E-9	-0.0046232	92.460E-9
65	12S-01	62.59803	51.15946	0.00000	-5.11911	-0.12500	-35.814E-9	-0.0045945	91.885E-9
65	12S-01	63.07264	51.02578	0.00000	-5.34097	-0.12500	-34.854E-9	-0.0045674	91.343E-9
65	12S-01	63.54725	50.89210	0.00000	-5.54214	-0.12500	-33.934E-9	-0.0045420	90.836E-9
65	12S-01	64.02186	50.75842	0.00000	-5.72085	-0.12500	-33.055E-9	-0.0045183	90.363E-9
65	12S-01	64.49647	50.62474	0.00000	-5.87576	-0.12500	-32.218E-9	-0.0044965	89.926E-9
65	12S-01	64.97108	50.49106	0.00000	-6.00587	-0.12500	-31.421E-9	-0.0044764	89.525E-9
65	12S-01	65.44569	50.35738	0.00000	-6.11048	-0.12500	-30.664E-9	-0.0044583	89.162E-9
65	12S-01	65.92030	50.22370	0.00000	-6.18914	-0.12500	-29.949E-9	-0.0044421	88.838E-9
65	12S-01	66.39491	50.09002	0.00000	-6.24154	-0.12500	-29.273E-9	-0.0044278	88.553E-9
65	12S-01	66.86952	49.95634	0.00000	-6.26756	-0.12500	-28.638E-9	-0.0044156	88.308E-9
65	12S-01	67.34413	49.82266	0.00000	-6.26713	-0.12500	-28.043E-9	-0.0044053	88.103E-9
65	12S-01	67.81874	49.68898	0.00000	-6.24030	-0.12500	-27.487E-9	-0.0043971	87.939E-9
65	12S-01	68.29335	49.55530	0.00000	-6.18715	-0.12500	-26.970E-9	-0.0043910	87.817E-9
65	12S-01	68.76796	49.42162	0.00000	-6.10783	-0.12500	-26.493E-9	-0.0043870	87.738E-9
65	12S-01	69.24257	49.28794	0.00000	-6.00258	-0.12500	-26.054E-9	-0.0043852	87.701E-9
65	12S-01	69.71718	49.15426	0.00000	-5.87169	-0.12500	-25.653E-9	-0.0043855	87.707E-9
65	12S-01	70.19179	49.02058	0.00000	-5.71561	-0.12500	-25.291E-9	-0.0043880	87.757E-9
65	12S-01	70.66640	48.88690	0.00000	-5.53494	-0.12500	-24.966E-9	-0.0043927	87.852E-9
66	12S-02	70.66640	48.88690	0.00000	-5.53494	-0.12500	-24.966E-9	-0.0043927	87.852E-9
66	12S-02	70.47116	48.45752	0.00000	-4.82880	-0.12500	-24.239E-9	-0.0043228	86.454E-9
66	12S-02	70.27592	48.02815	0.00000	-4.19005	-0.12500	-23.532E-9	-0.0042539	85.075E-9
66	12S-02	70.08067	47.59877	0.00000	-3.61279	-0.12500	-22.844E-9	-0.0041858	83.714E-9
66	12S-02	69.88543	47.16940	0.00000	-3.09162	-0.12500	-22.174E-9	-0.0041188	82.373E-9
66	12S-02	69.69019	46.74002	0.00000	-2.62157	-0.12500	-21.523E-9	-0.0040526	81.050E-9
66	12S-02	69.49495	46.31065	0.00000	-2.19802	-0.12500	-20.890E-9	-0.0039875	79.747E-9
66	12S-02	69.29971	45.88128	0.00000	-1.81669	-0.12500	-20.275E-9	-0.0039233	78.463E-9
66	12S-02	69.10447	45.45190	0.00000	-1.47362	-0.12500	-19.677E-9	-0.0038600	77.198E-9
66	12S-02	68.90922	45.02253	0.00000	-1.16515	-0.12500	-19.097E-9	-0.0037978	75.953E-9
66	12S-02	68.71398	44.59315	0.00000	-0.88794	-0.12500	-18.534E-9	-0.0037364	74.727E-9
66	12S-02	68.51874	44.16378	0.00000	-0.63893	-0.12500	-17.986E-9	-0.0036761	73.519E-9
66	12S-02	68.32350	43.73440	0.00000	-0.41533	-0.12500	-17.456E-9	-0.0036167	72.331E-9
67	12S-03	68.32350	43.73440	0.00000	-0.41533	-0.12500	-17.456E-9	-0.0036167	72.331E-9
67	12S-03	68.05865	43.82285	0.00000	-0.44558	-0.12500	-17.543E-9	-0.0036128	72.253E-9
67	12S-03	67.79380	43.91130	0.00000	-0.47413	-0.12500	-17.636E-9	-0.0036093	72.184E-9
67	12S-03	67.52895	43.99975	0.00000	-0.50093	-0.12500	-17.736E-9	-0.0036062	72.122E-9
67	12S-03	67.26410	44.08820	0.00000	-0.52591	-0.12500	-17.841E-9	-0.0036036	72.069E-9
68	12S-04	67.26410	44.08820	0.00000	-0.52591	-0.12500	-17.841E-9	-0.0036036	72.069E-9
68	12S-04	67.10714	43.67957	0.00000	-0.32563	-0.12500	-17.325E-9	-0.0035486	70.970E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
68	12S-04	66.95018	43.27094	0.00000	-0.14496	-0.12500	-16.824E-9	-0.0034946	69.889E-9
68	12S-04	66.79322	42.86231	0.00000	0.01798	-0.12500	-16.340E-9	-0.0034414	68.826E-9
68	12S-04	66.63626	42.45368	0.00000	0.16493	-0.12500	-15.870E-9	-0.0033892	67.781E-9
68	12S-04	66.47930	42.04505	0.00000	0.29743	-0.12500	-15.416E-9	-0.0033378	66.753E-9
68	12S-04	66.32234	41.63642	0.00000	0.41689	-0.12500	-14.975E-9	-0.0032872	65.743E-9
68	12S-04	66.16538	41.22779	0.00000	0.52456	-0.12500	-14.549E-9	-0.0032376	64.749E-9
68	12S-04	66.00842	40.81916	0.00000	0.62157	-0.12500	-14.136E-9	-0.0031887	63.773E-9
68	12S-04	65.85146	40.41053	0.00000	0.70895	-0.12500	-13.736E-9	-0.0031407	62.813E-9
68	12S-04	65.69450	40.00190	0.00000	0.78761	-0.12500	-13.348E-9	-0.0030935	61.869E-9
69	12S-05	65.69450	40.00190	0.00000	0.78761	-0.12500	-13.348E-9	-0.0030935	61.869E-9
69	12S-05	65.23740	40.17862	0.00000	0.76498	-0.12500	-13.460E-9	-0.0030889	61.777E-9
69	12S-05	64.78030	40.35534	0.00000	0.74422	-0.12500	-13.583E-9	-0.0030852	61.702E-9
69	12S-05	64.32320	40.53206	0.00000	0.72542	-0.12500	-13.717E-9	-0.0030822	61.643E-9
69	12S-05	63.86610	40.70879	0.00000	0.70864	-0.12500	-13.862E-9	-0.0030801	61.601E-9
69	12S-05	63.40900	40.88551	0.00000	0.69393	-0.12500	-14.019E-9	-0.0030788	61.574E-9
69	12S-05	62.95190	41.06223	0.00000	0.68133	-0.12500	-14.186E-9	-0.0030782	61.563E-9
69	12S-05	62.49480	41.23895	0.00000	0.67087	-0.12500	-14.365E-9	-0.0030785	61.568E-9
69	12S-05	62.03770	41.41567	0.00000	0.66255	-0.12500	-14.555E-9	-0.0030794	61.587E-9
69	12S-05	61.58060	41.59239	0.00000	0.65638	-0.12500	-14.756E-9	-0.0030812	61.622E-9
69	12S-05	61.12350	41.76911	0.00000	0.65234	-0.12500	-14.967E-9	-0.0030836	61.670E-9
69	12S-05	60.66640	41.94584	0.00000	0.65038	-0.12500	-15.189E-9	-0.0030868	61.734E-9
69	12S-05	60.20930	42.12256	0.00000	0.65047	-0.12500	-15.422E-9	-0.0030906	61.810E-9
69	12S-05	59.75220	42.29928	0.00000	0.65253	-0.12500	-15.666E-9	-0.0030951	61.901E-9
69	12S-05	59.29510	42.47600	0.00000	0.65649	-0.12500	-15.920E-9	-0.0031003	62.004E-9
69	12S-05	58.83800	42.65272	0.00000	0.66225	-0.12500	-16.184E-9	-0.0031061	62.120E-9
69	12S-05	58.38090	42.82944	0.00000	0.66972	-0.12500	-16.458E-9	-0.0031125	62.248E-9
69	12S-05	57.92380	43.00616	0.00000	0.67878	-0.12500	-16.741E-9	-0.0031195	62.388E-9
69	12S-05	57.46670	43.18289	0.00000	0.68930	-0.12500	-17.034E-9	-0.0031270	62.538E-9
69	12S-05	57.00960	43.35961	0.00000	0.70116	-0.12500	-17.337E-9	-0.0031351	62.700E-9
69	12S-05	56.55250	43.53633	0.00000	0.71422	-0.12500	-17.648E-9	-0.0031437	62.871E-9
69	12S-05	56.09540	43.71305	0.00000	0.72832	-0.12500	-17.968E-9	-0.0031527	63.052E-9
69	12S-05	55.63830	43.88977	0.00000	0.74334	-0.12500	-18.296E-9	-0.0031622	63.242E-9
69	12S-05	55.18120	44.06649	0.00000	0.75911	-0.12500	-18.632E-9	-0.0031721	63.440E-9
69	12S-05	54.72410	44.24321	0.00000	0.77551	-0.12500	-18.975E-9	-0.0031824	63.646E-9
69	12S-05	54.26700	44.41994	0.00000	0.79238	-0.12500	-19.325E-9	-0.0031930	63.858E-9
69	12S-05	53.80990	44.59666	0.00000	0.80960	-0.12500	-19.681E-9	-0.0032040	64.077E-9
69	12S-05	53.35280	44.77338	0.00000	0.82701	-0.12500	-20.043E-9	-0.0032152	64.301E-9
69	12S-05	52.89570	44.95010	0.00000	0.84451	-0.12500	-20.410E-9	-0.0032266	64.530E-9
70	12S-06	52.89570	44.95010	0.00000	0.84451	-0.12500	-20.410E-9	-0.0032266	64.530E-9
70	12S-06	53.09194	45.39161	0.00000	0.79234	-0.12500	-21.400E-9	-0.0033014	66.026E-9
70	12S-06	53.28819	45.83312	0.00000	0.73432	-0.12500	-22.448E-9	-0.0033788	67.573E-9
70	12S-06	53.48443	46.27463	0.00000	0.66988	-0.12500	-23.560E-9	-0.0034587	69.172E-9
70	12S-06	53.68068	46.71614	0.00000	0.59840	-0.12500	-24.738E-9	-0.0035415	70.827E-9
70	12S-06	53.87692	47.15766	0.00000	0.51921	-0.12500	-25.989E-9	-0.0036271	72.539E-9
70	12S-06	54.07317	47.59917	0.00000	0.43156	-0.12500	-27.316E-9	-0.0037157	74.311E-9
70	12S-06	54.26941	48.04068	0.00000	0.33464	-0.12500	-28.725E-9	-0.0038075	76.147E-9
70	12S-06	54.46566	48.48219	0.00000	0.22757	-0.12500	-30.223E-9	-0.0039025	78.047E-9
70	12S-06	54.66190	48.92370	0.00000	0.10938	-0.12500	-31.814E-9	-0.0040010	80.016E-9
70	12S-06	54.85814	49.36521	0.00000	-0.02096	-0.12500	-33.507E-9	-0.0041031	82.057E-9
70	12S-06	55.05439	49.80672	0.00000	-0.16457	-0.12500	-35.308E-9	-0.0042088	84.172E-9
70	12S-06	55.25063	50.24823	0.00000	-0.32264	-0.12500	-37.224E-9	-0.0043185	86.366E-9
70	12S-06	55.44688	50.68974	0.00000	-0.49644	-0.12500	-39.265E-9	-0.0044323	88.640E-9
70	12S-06	55.64312	51.13126	0.00000	-0.68731	-0.12500	-41.439E-9	-0.0045503	91.000E-9
70	12S-06	55.83937	51.57277	0.00000	-0.89663	-0.12500	-43.756E-9	-0.0046727	93.449E-9
70	12S-06	56.03561	52.01428	0.00000	-1.12585	-0.12500	-46.226E-9	-0.0047998	95.991E-9
70	12S-06	56.23186	52.45579	0.00000	-1.37640	-0.12500	-48.860E-9	-0.0049318	98.629E-9
70	12S-06	56.42810	52.89730	0.00000	-1.64972	-0.12500	-51.671E-9	-0.0050688	101.37E-9
71	14S-01	92.77120	50.75620	0.00000	2.15657	-0.12500	-86.943E-9	-0.0095772	191.53E-9
71	14S-01	93.25995	50.72525	0.00000	2.19637	-0.12500	-91.886E-9	-0.0098528	197.05E-9
71	14S-01	93.74870	50.69430	0.00000	2.23052	-0.12500	-97.221E-9	-0.010142	202.84E-9
71	14S-01	94.23745	50.66335	0.00000	2.25918	-0.12500	-102.98E-9	-0.010447	208.92E-9
71	14S-01	94.72620	50.63240	0.00000	2.28247	-0.12500	-109.20E-9	-0.010766	215.31E-9
71	14S-01	95.21495	50.60145	0.00000	2.30048	-0.12500	-115.93E-9	-0.011103	222.04E-9
71	14S-01	95.70370	50.57050	0.00000	2.31323	-0.12500	-123.21E-9	-0.011456	229.11E-9
71	14S-01	96.19245	50.53955	0.00000	2.32072	-0.12500	-131.09E-9	-0.011828	236.55E-9
71	14S-01	96.68120	50.50860	0.00000	2.32290	-0.12500	-139.64E-9	-0.012220	244.38E-9
71	14S-01	97.16995	50.47765	0.00000	2.31969	-0.12500	-148.91E-9	-0.012632	252.62E-9
71	14S-01	97.65870	50.44670	0.00000	2.31097	-0.12500	-158.97E-9	-0.013066	261.31E-9
71	14S-01	98.14745	50.41575	0.00000	2.29656	-0.12500	-169.92E-9	-0.013524	270.46E-9
71	14S-01	98.63620	50.38480	0.00000	2.27628	-0.12500	-181.82E-9	-0.014007	280.11E-9
72	14S-02	98.63620	50.38480	0.00000	2.27628	-0.12500	-181.82E-9	-0.014007	280.11E-9
72	14S-02	98.62403	49.89284	0.00000	2.30217	-0.12500	-177.14E-9	-0.013796	275.89E-9
72	14S-02	98.61185	49.40089	0.00000	2.32716	-0.12500	-172.44E-9	-0.013583	271.63E-9
72	14S-02	98.59968	48.90893	0.00000	2.35116	-0.12500	-167.74E-9	-0.013368	267.34E-9
72	14S-02	98.58751	48.41697	0.00000	2.37410	-0.12500	-163.05E-9	-0.013152	263.01E-9
72	14S-02	98.57533	47.92502	0.00000	2.39592	-0.12500	-158.38E-9	-0.012934	258.67E-9
72	14S-02	98.56316	47.43306	0.00000	2.41656	-0.12500	-153.74E-9	-0.012717	254.31E-9
72	14S-02	98.55099	46.94110	0.00000	2.43599	-0.12500	-149.14E-9	-0.012499	249.95E-9
72	14S-02	98.53881	46.44915	0.00000	2.45417	-0.12500	-144.59E-9	-0.012280	245.59E-9
72	14S-02	98.52664	45.95719	0.00000	2.47108	-0.12500	-140.09E-9	-0.012063	241.23E-9
72	14S-02	98.51447	45.46523	0.00000	2.48671	-0.12500	-135.66E-9	-0.011845	236.89E-9
72	14S-02	98.50229	44.97328	0.00000	2.50105	-0.12500	-131.29E-9	-0.011629	232.56E-9
72	14S-02	98.49012	44.48132	0.00000	2.51408	-0.12500	-127.01E-9	-0.011414	228.26E-9
72	14S-02	98.47795	43.98936	0.00000	2.52583	-0.12500	-122.80E-9	-0.011200	223.98E-9
72	14S-02	98.46577	43.49741	0.00000	2.53630	-0.12500	-118.67E-9	-0.010987	219.73E-9
72	14S-02	98.45360	43.00545	0.00000	2.54550	-0.12500	-114.64E-9	-0.010777	215.52E-9
72	14S-02	98.44143	42.51349	0.00000	2.55344	-0.12500	-110.70E-9	-0.010568	211.35E-9
72	14S-02	98.42925	42.02154	0.00000	2.56015	-0.12500	-106.85E-9	-0.010361	207.22E-9
72	14S-02	98.41708	41.52958	0.00000	2.56565	-0.12500	-103.09E-9	-0.010157	203.13E-9
72	14S-02	98.40491	41.03762	0.00000	2.56997	-0.12500	-99.440E-9	-0.0099554	199.10E-9
72	14S-02	98.39273	40.54567	0.00000	2.57313	-0.12500	-95.886E-9	-0.0097561	195.11E-9
72	14S-02	98.38056	40.05371	0.00000	2.57516	-0.12500	-92.432E-9	-0.0095596	191.18E-9
72	14S-02	98.36839	39.56175	0.00000	2.57610	-0.12500	-89.078E-9	-0.0093658	187.31E-9
72	14S-02	98.35621	39.06980	0.00000	2.57597	-0.12500	-85.825E-9	-0.0091749	183.49E-9
72	14S-02	98.34404	38.57784	0.00000	2.57482	-0.12500	-82.673E-9	-0.0089869	179.73E-9
72	14S-02	98.33187	38.08588	0.00000	2.57266	-0.12500	-79.620E-9	-0.0088020	176.03E-9
72	14S-02	98.31969	37.59393	0.00000	2.56955	-0.12500	-76.665E-9	-0.0086202	172.39E-9
72	14S-02	98.30752	37.10197	0.00000	2.56551	-0.12500	-73.809E-9	-0.0084414	168.82E-9
72	14S-02	98.29535	36.61001	0.00000	2.56057	-0.12500	-71.048E-9	-0.0082659	165.31E-9
72	14S-02	98.28317	36.11806	0.00000	2.55478	-0.12500	-68.382E-9	-0.0080935	161.86E-9
72	14S-02	98.27100	35.62610	0.00000	2.54816	-0.12500	-65.809E-9	-0.0079243	158.48E-9
73	14S-03	98.27100	35.62610	0.00000	2.54816	-0.12500	-65.809E-9	-0.0079243	158.48E-9
73	14S-03	97.83503	35.65297	0.00000	2.53819	-0.12500	-63.289E-9	-0.0077652	155.30E-9
73	14S-03	97.39906	35.67984	0.00000	2.52773	-0.12500	-60.879E-9	-0.0076103	152.20E-9
73	14S-03	96.96309	35.70671	0.00000	2.51677	-0.12500	-58.575E-9	-0.0074594	149.18E-9
73	14S-03	96.52711	35.73359	0.00000	2.50531	-0.12500	-56.373E-9	-0.0073126	146.25E-9
73	14S-03	96.09114	35.76046	0.00000	2.49335	-0.12500	-54.268E-9	-0.0071697	143.39E-9
73	14S-03	95.65517	35.78733	0.00000	2.48089	-0.12500	-52.256E-9	-0.0070306	140.61E-9
73	14S-03	95.21920	35.81420	0.00000	2.46794	-0.12500	-50.332E-9	-0.0068953	137.90E-9
73	14S-03	94.78323	35.84107	0.00000	2.45448	-0.12500	-48.493E-9	-0.0067635	135.27E-9
73	14S-03	94.34726	35.86794	0.00000	2.44053	-0.12500	-46.735E-9	-0.0066354	132.70E-9
73	14S-03	93.91129	35.89481	0.00000	2.42608	-0.12500	-45.054E-9	-0.0065107	130.21E-9
73	14S-03	93.47531	35.92169	0.00000	2.41113	-0.12500	-43.447E-9	-0.0063894	127.78E-9
73	14S-03	93.03934	35.94856	0.00000	2.39569	-0.12500	-41.911E-9	-0.0062714	125.42E-9
73	14S-03	92.60337	35.97543	0.00000	2.37974	-0.12500	-40.443E-9	-0.0061567	123.13E-9
73	14S-03	92.16740	36.00230	0.00000	2.36329	-0.12500	-39.039E-9	-0.0060450	120.90E-9
74	14S-04	92.16740	36.00230	0.00000	2.36329	-0.12500	-39.039E-9	-0.0060450	120.90E-9
74	14S-04	92.20622	35.62567	0.00000	2.36062	-0.12500	-38.295E-9	-0.0059787	119.57E-9
74	14S-04	92.24503	35.24903	0.00000	2.35747	-0.12500	-37.559E-9	-0.0059126	118.25E-9
74	14S-04	92.28385	34.87240	0.00000	2.35387	-0.12500	-36.831E-9	-0.0058468	116.93E-9
74	14S-04	92.32267	34.49577	0.00000	2.34981	-0.12500	-36.112E-9	-0.0057813	115.62E-9
74	14S-04	92.36148	34.11913	0.00000	2.34533	-0.12500	-35.402E-9	-0.0057161	114.32E-9
74	14S-04	92.40030	33.74250	0.00000	2.34044	-0.12500	-34.700E-9	-0.0056513	113.02E-9
75	14S-05	92.40030	33.74250	0.00000	2.34044	-0.12500	-34.700E-9	-0.0056513	113.02E-9
75	14S-05	91.98313	33.69950	0.00000	2.32490	-0.12500	-33.479E-9	-0.0055460	110.92E-9
75	14S-05	91.56595	33.65650	0.00000	2.30913	-0.12500	-32.313E-9	-0.0054437	108.87E-9
75	14S-05	91.14878	33.61350	0.00000	2.29314	-0.12500	-31.199E-9	-0.0053444	106.88E-9
75	14S-05	90.73160	33.57050	0.00000	2.27695	-0.12500	-30.135E-9	-0.0052478	104.95E-9
75	14S-05	90.31442	33.52750	0.00000	2.26057	-0.12500	-29.119E-9	-0.0051539	103.07E-9
75	14S-05	89.89725	33.48450	0.00000	2.24401	-0.12500	-28.148E-9	-0.0050627	101.25E-9
75	14S-05	89.48007	33.44150	0.00000	2.22728	-0.12500	-27.219E-9	-0.0049740	99.476E-9
75	14S-05	89.06290	33.39850	0.00000	2.21041	-0.12500	-26.332E-9	-0.0048877	97.752E-9
75	14S-05	88.64572	33.35550	0.00000	2.19339	-0.12500	-25.483E-9	-0.0048039	96.075E-9
75	14S-05	88.22855	33.31250	0.00000	2.17624	-0.12500	-24.672E-9	-0.0047224	94.444E-9
75	14S-05	87.81137	33.26950	0.00000	2.15898	-0.12500	-23.895E-9	-0.0046431	92.859E-9
75	14S-05	87.39420	33.22650	0.00000	2.14162	-0.12500	-23.153E-9	-0.0045660	91.316E-9
76	14S-06	87.39420	33.22650	0.00000	2.14162	-0.12500	-23.153E-9	-0.0045660	91.316E-9
76	14S-06	86.98952	33.13740	0.00000	2.12431	-0.12500	-22.407E-9	-0.0044867	89.732E-9
76	14S-06	86.58483	33.04830	0.00000	2.10700	-0.12500	-21.695E-9	-0.0044097	88.192E-9
76	14S-06	86.18015	32.95920	0.00000	2.08972	-0.12500	-21.015E-9	-0.0043349	86.696E-9
76	14S-06	85.77547	32.87010	0.00000	2.07248	-0.12500	-20.364E-9	-0.0042622	85.241E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
76	14S-06	85.37078	32.78100	0.00000	2.05529	-0.12500	-19.742E-9	-0.0041914	83.826E-9
76	14S-06	84.96610	32.69190	0.00000	2.03818	-0.12500	-19.147E-9	-0.0041227	82.451E-9
77	14S-07	84.96610	32.69190	0.00000	2.03818	-0.12500	-19.147E-9	-0.0041227	82.451E-9
77	14S-07	84.91494	33.14352	0.00000	2.03773	-0.12500	-19.522E-9	-0.0041698	83.394E-9
77	14S-07	84.86377	33.59514	0.00000	2.03621	-0.12500	-19.901E-9	-0.0042172	84.341E-9
77	14S-07	84.81261	34.04676	0.00000	2.03352	-0.12500	-20.285E-9	-0.0042647	85.292E-9
77	14S-07	84.76144	34.49839	0.00000	2.02959	-0.12500	-20.673E-9	-0.0043125	86.248E-9
77	14S-07	84.71028	34.95001	0.00000	2.02432	-0.12500	-21.065E-9	-0.0043605	87.207E-9
77	14S-07	84.65911	35.40163	0.00000	2.01761	-0.12500	-21.461E-9	-0.0044086	88.169E-9
77	14S-07	84.60795	35.85325	0.00000	2.00935	-0.12500	-21.860E-9	-0.0044569	89.135E-9
77	14S-07	84.55679	36.30487	0.00000	1.99943	-0.12500	-22.264E-9	-0.0045053	90.103E-9
77	14S-07	84.50562	36.75649	0.00000	1.98771	-0.12500	-22.671E-9	-0.0045538	91.074E-9
77	14S-07	84.45446	37.20811	0.00000	1.97406	-0.12500	-23.081E-9	-0.0046025	92.047E-9
77	14S-07	84.40329	37.65974	0.00000	1.95834	-0.12500	-23.495E-9	-0.0046512	93.022E-9
77	14S-07	84.35213	38.11136	0.00000	1.94038	-0.12500	-23.912E-9	-0.0047001	93.999E-9
77	14S-07	84.30096	38.56298	0.00000	1.92001	-0.12500	-24.333E-9	-0.0047490	94.977E-9
77	14S-07	84.24980	39.01460	0.00000	1.89706	-0.12500	-24.756E-9	-0.0047979	95.956E-9
78	14S-08	84.24980	39.01460	0.00000	1.89706	-0.12500	-24.756E-9	-0.0047979	95.956E-9
78	14S-08	84.72059	39.05661	0.00000	1.93049	-0.12500	-25.617E-9	-0.0048873	97.743E-9
78	14S-08	85.19139	39.09861	0.00000	1.96356	-0.12500	-26.528E-9	-0.0049799	99.595E-9
78	14S-08	85.66218	39.14062	0.00000	1.99619	-0.12500	-27.491E-9	-0.0050758	101.51E-9
78	14S-08	86.13297	39.18263	0.00000	2.02834	-0.12500	-28.510E-9	-0.0051752	103.50E-9
78	14S-08	86.60377	39.22463	0.00000	2.05993	-0.12500	-29.588E-9	-0.0052783	105.56E-9
78	14S-08	87.07456	39.26664	0.00000	2.09094	-0.12500	-30.730E-9	-0.0053851	107.70E-9
78	14S-08	87.54536	39.30864	0.00000	2.12131	-0.12500	-31.938E-9	-0.0054959	109.91E-9
78	14S-08	88.01615	39.35065	0.00000	2.15100	-0.12500	-33.217E-9	-0.0056107	112.21E-9
78	14S-08	88.48694	39.39266	0.00000	2.17997	-0.12500	-34.572E-9	-0.0057299	114.59E-9
78	14S-08	88.95774	39.43466	0.00000	2.20820	-0.12500	-36.007E-9	-0.0058534	117.06E-9
78	14S-08	89.42853	39.47667	0.00000	2.23564	-0.12500	-37.529E-9	-0.0059817	119.63E-9
78	14S-08	89.89933	39.51868	0.00000	2.26228	-0.12500	-39.142E-9	-0.0061148	122.29E-9
78	14S-08	90.37012	39.56068	0.00000	2.28809	-0.12500	-40.852E-9	-0.0062529	125.05E-9
78	14S-08	90.84091	39.60269	0.00000	2.31303	-0.12500	-42.667E-9	-0.0063963	127.92E-9
78	14S-08	91.31171	39.64469	0.00000	2.33709	-0.12500	-44.593E-9	-0.0065452	130.90E-9
78	14S-08	91.78250	39.68670	0.00000	2.36024	-0.12500	-46.637E-9	-0.0066999	133.99E-9
79	14S-09	91.78250	39.68670	0.00000	2.36024	-0.12500	-46.637E-9	-0.0066999	133.99E-9
79	14S-09	91.74112	40.13607	0.00000	2.35606	-0.12500	-47.622E-9	-0.0067819	135.63E-9
79	14S-09	91.69975	40.58703	0.00000	2.35091	-0.12500	-48.611E-9	-0.0068638	137.27E-9
79	14S-09	91.65838	41.03720	0.00000	2.34475	-0.12500	-49.604E-9	-0.0069456	138.91E-9
79	14S-09	91.61700	41.48737	0.00000	2.33755	-0.12500	-50.601E-9	-0.0070272	140.54E-9
79	14S-09	91.57563	41.93753	0.00000	2.32929	-0.12500	-51.600E-9	-0.0071085	142.16E-9
79	14S-09	91.53425	42.38770	0.00000	2.31993	-0.12500	-52.600E-9	-0.0071895	143.78E-9
79	14S-09	91.49287	42.83787	0.00000	2.30947	-0.12500	-53.600E-9	-0.0072701	145.40E-9
79	14S-09	91.45150	43.28803	0.00000	2.29787	-0.12500	-54.599E-9	-0.0073503	147.00E-9
79	14S-09	91.41012	43.73820	0.00000	2.28511	-0.12500	-55.595E-9	-0.0074300	148.59E-9
79	14S-09	91.36875	44.18837	0.00000	2.27118	-0.12500	-56.588E-9	-0.0075091	150.17E-9
79	14S-09	91.32738	44.63853	0.00000	2.25607	-0.12500	-57.576E-9	-0.0075875	151.74E-9
79	14S-09	91.28600	45.08870	0.00000	2.23975	-0.12500	-58.557E-9	-0.0076652	153.30E-9
80	14S-10	91.28600	45.08870	0.00000	2.23975	-0.12500	-58.557E-9	-0.0076652	153.30E-9
80	14S-10	91.65398	45.11068	0.00000	2.26657	-0.12500	-60.817E-9	-0.0078170	156.33E-9
80	14S-10	92.02195	45.13265	0.00000	2.29186	-0.12500	-63.199E-9	-0.0079741	159.47E-9
80	14S-10	92.38993	45.15463	0.00000	2.31563	-0.12500	-65.709E-9	-0.0081365	162.72E-9
80	14S-10	92.75790	45.17660	0.00000	2.33790	-0.12500	-68.355E-9	-0.0083045	166.08E-9
81	14S-11	92.75790	45.17660	0.00000	2.33790	-0.12500	-68.355E-9	-0.0083045	166.08E-9
81	14S-11	92.75901	45.64157	0.00000	2.32666	-0.12500	-69.914E-9	-0.0084143	168.28E-9
81	14S-11	92.76012	46.10653	0.00000	2.31459	-0.12500	-71.479E-9	-0.0085239	170.47E-9
81	14S-11	92.76122	46.57150	0.00000	2.30173	-0.12500	-73.047E-9	-0.0086330	172.65E-9
81	14S-11	92.76233	47.03647	0.00000	2.28809	-0.12500	-74.617E-9	-0.0087416	174.82E-9
81	14S-11	92.76344	47.50143	0.00000	2.27373	-0.12500	-76.186E-9	-0.0088495	176.98E-9
81	14S-11	92.76455	47.96640	0.00000	2.25867	-0.12500	-77.752E-9	-0.0089567	179.12E-9
81	14S-11	92.76566	48.43137	0.00000	2.24296	-0.12500	-79.313E-9	-0.0090630	181.25E-9
81	14S-11	92.76677	48.89633	0.00000	2.22666	-0.12500	-80.865E-9	-0.0091683	183.36E-9
81	14S-11	92.76788	49.36130	0.00000	2.20980	-0.12500	-82.407E-9	-0.0092725	185.44E-9
81	14S-11	92.76898	49.82627	0.00000	2.19246	-0.12500	-83.936E-9	-0.0093754	187.50E-9
81	14S-11	92.77009	50.29123	0.00000	2.17470	-0.12500	-85.449E-9	-0.0094770	189.53E-9
81	14S-11	92.77120	50.75620	0.00000	2.15657	-0.12500	-86.943E-9	-0.0095772	191.53E-9
82	14S-12	91.78250	39.68670	0.00000	2.36024	-0.12500	-46.637E-9	-0.0066999	133.99E-9
82	14S-12	91.83061	39.22615	0.00000	2.36380	-0.12500	-45.661E-9	-0.0066178	132.35E-9
82	14S-12	91.87873	38.76560	0.00000	2.36639	-0.12500	-44.690E-9	-0.0065356	130.71E-9
82	14S-12	91.92684	38.30505	0.00000	2.36803	-0.12500	-43.727E-9	-0.0064535	129.06E-9
82	14S-12	91.97495	37.84450	0.00000	2.36876	-0.12500	-42.770E-9	-0.0063714	127.42E-9
82	14S-12	92.02306	37.38395	0.00000	2.36862	-0.12500	-41.823E-9	-0.0062895	125.79E-9
82	14S-12	92.07117	36.92340	0.00000	2.36764	-0.12500	-40.885E-9	-0.0062078	124.15E-9
82	14S-12	92.11929	36.46285	0.00000	2.36585	-0.12500	-39.956E-9	-0.0061263	122.52E-9
82	14S-12	92.16740	36.00230	0.00000	2.36329	-0.12500	-39.039E-9	-0.0060450	120.90E-9
83	18S-01	81.33400	88.63190	0.00000	0.87914	-0.12500	-101.75E-9	-0.0087666	175.32E-9
83	18S-01	81.61613	89.04169	0.00000	1.01270	-0.12500	-97.850E-9	-0.0086395	172.78E-9
83	18S-01	81.89826	89.45148	0.00000	1.13276	-0.12500	-94.113E-9	-0.0085150	170.29E-9
83	18S-01	82.18038	89.86127	0.00000	1.24082	-0.12500	-90.534E-9	-0.0083932	167.85E-9
83	18S-01	82.46251	90.27106	0.00000	1.33821	-0.12500	-87.112E-9	-0.0082741	165.47E-9
83	18S-01	82.74464	90.68084	0.00000	1.42608	-0.12500	-83.841E-9	-0.0081576	163.14E-9
83	18S-01	83.02677	91.09063	0.00000	1.50543	-0.12500	-80.717E-9	-0.0080439	160.87E-9
83	18S-01	83.30889	91.50042	0.00000	1.57715	-0.12500	-77.734E-9	-0.0079328	158.65E-9
83	18S-01	83.59102	91.91021	0.00000	1.64204	-0.12500	-74.889E-9	-0.0078244	156.48E-9
83	18S-01	83.87315	92.32000	0.00000	1.70076	-0.12500	-72.176E-9	-0.0077185	154.36E-9
83	18S-01	84.15528	92.72979	0.00000	1.75394	-0.12500	-69.589E-9	-0.0076153	152.30E-9
83	18S-01	84.43741	93.13958	0.00000	1.80211	-0.12500	-67.125E-9	-0.0075147	150.29E-9
83	18S-01	84.71953	93.54937	0.00000	1.84574	-0.12500	-64.777E-9	-0.0074165	148.32E-9
83	18S-01	85.00166	93.95916	0.00000	1.88526	-0.12500	-62.541E-9	-0.0073207	146.41E-9
83	18S-01	85.28379	94.36894	0.00000	1.92103	-0.12500	-60.412E-9	-0.0072274	144.54E-9
83	18S-01	85.56592	94.77873	0.00000	1.95340	-0.12500	-58.384E-9	-0.0071363	142.72E-9
83	18S-01	85.84804	95.18852	0.00000	1.98265	-0.12500	-56.454E-9	-0.0070476	140.94E-9
83	18S-01	86.13017	95.59831	0.00000	2.00905	-0.12500	-54.616E-9	-0.0069610	139.21E-9
83	18S-01	86.41230	96.00810	0.00000	2.03285	-0.12500	-52.866E-9	-0.0068765	137.52E-9
84	18S-02	86.41230	96.00810	0.00000	2.03285	-0.12500	-52.866E-9	-0.0068765	137.52E-9
84	18S-02	86.82094	95.73911	0.00000	2.05805	-0.12500	-52.071E-9	-0.0068921	137.84E-9
84	18S-02	87.22959	95.47012	0.00000	2.08314	-0.12500	-51.390E-9	-0.0069134	138.26E-9
84	18S-02	87.63823	95.20114	0.00000	2.10814	-0.12500	-50.823E-9	-0.0069403	138.80E-9
84	18S-02	88.04688	94.93215	0.00000	2.13303	-0.12500	-50.372E-9	-0.0069731	139.46E-9
84	18S-02	88.45552	94.66316	0.00000	2.15782	-0.12500	-50.035E-9	-0.0070117	140.23E-9
84	18S-02	88.86416	94.39418	0.00000	2.18247	-0.12500	-49.813E-9	-0.0070565	141.12E-9
84	18S-02	89.27281	94.12519	0.00000	2.20699	-0.12500	-49.708E-9	-0.0071074	142.14E-9
84	18S-02	89.68145	93.85620	0.00000	2.23134	-0.12500	-49.721E-9	-0.0071646	143.29E-9
84	18S-02	90.09009	93.58721	0.00000	2.25550	-0.12500	-49.853E-9	-0.0072284	144.56E-9
84	18S-02	90.49874	93.31822	0.00000	2.27944	-0.12500	-50.108E-9	-0.0072989	145.97E-9
84	18S-02	90.90738	93.04924	0.00000	2.30313	-0.12500	-50.486E-9	-0.0073761	147.52E-9
84	18S-02	91.31602	92.78025	0.00000	2.32652	-0.12500	-50.992E-9	-0.0074605	149.20E-9
84	18S-02	91.72467	92.51126	0.00000	2.34958	-0.12500	-51.629E-9	-0.0075521	151.04E-9
84	18S-02	92.13331	92.24228	0.00000	2.37225	-0.12500	-52.402E-9	-0.0076511	153.02E-9
84	18S-02	92.54196	91.97329	0.00000	2.39448	-0.12500	-53.314E-9	-0.0077579	155.15E-9
84	18S-02	92.95060	91.70430	0.00000	2.41622	-0.12500	-54.372E-9	-0.0078726	157.45E-9
85	18S-03	92.95060	91.70430	0.00000	2.41622	-0.12500	-54.372E-9	-0.0078726	157.45E-9
85	18S-03	92.75582	91.40858	0.00000	2.40572	-0.12500	-54.797E-9	-0.0078983	157.96E-9
85	18S-03	92.56103	91.11287	0.00000	2.39433	-0.12500	-55.223E-9	-0.0079236	158.47E-9
85	18S-03	92.36625	90.81715	0.00000	2.38200	-0.12500	-55.651E-9	-0.0079485	158.96E-9
85	18S-03	92.17147	90.52143	0.00000	2.36868	-0.12500	-56.081E-9	-0.0079730	159.45E-9
85	18S-03	91.97668	90.22572	0.00000	2.35430	-0.12500	-56.513E-9	-0.0079971	159.93E-9
85	18S-03	91.78190	89.93000	0.00000	2.33881	-0.12500	-56.948E-9	-0.0080208	160.41E-9
86	18S-04	91.78190	89.93000	0.00000	2.33881	-0.12500	-56.948E-9	-0.0080208	160.41E-9
86	18S-04	91.41813	90.17150	0.00000	2.31695	-0.12500	-56.170E-9	-0.0079269	158.53E-9
86	18S-04	91.05435	90.41300	0.00000	2.29470	-0.12500	-55.518E-9	-0.0078398	156.79E-9
86	18S-04	90.69057	90.65450	0.00000	2.27209	-0.12500	-54.990E-9	-0.0077591	155.18E-9
86	18S-04	90.32680	90.89600	0.00000	2.24918	-0.12500	-54.581E-9	-0.0076848	153.69E-9
87	18S-05	90.32680	90.89600	0.00000	2.24918	-0.12500	-54.581E-9	-0.0076848	153.69E-9
87	18S-05	90.05324	90.48731	0.00000	2.22237	-0.12500	-55.395E-9	-0.0077266	154.53E-9
87	18S-05	89.77967	90.07863	0.00000	2.19271	-0.12500	-56.226E-9	-0.0077682	155.36E-9
87	18S-05	89.50611	89.66994	0.00000	2.15992	-0.12500	-57.077E-9	-0.0078096	156.18E-9
87	18S-05	89.23254	89.26126	0.00000	2.12371	-0.12500	-57.947E-9	-0.0078507	157.01E-9
87	18S-05	88.95898	88.85257	0.00000	2.08378	-0.12500	-58.837E-9	-0.0078915	157.82E-9
87	18S-05	88.68541	88.44389	0.00000	2.03975	-0.12500	-59.747E-9	-0.0079321	158.64E-9
87	18S-05	88.41185	88.03520	0.00000	1.99123	-0.12500	-60.677E-9	-0.0079724	159.44E-9
87	18S-05	88.13829	87.62651	0.00000	1.93778	-0.12500	-61.629E-9	-0.0080124	160.24E-9
87	18S-05	87.86472	87.21783	0.00000	1.87891	-0.12500	-62.601E-9	-0.0080521	161.04E-9
87	18S-05	87.59116	86.80914	0.00000	1.81407	-0.12500	-63.595E-9	-0.0080915	161.82E-9
87	18S-05	87.31759	86.40046	0.00000	1.74267	-0.12500	-64.610E-9	-0.0081306	162.60E-9
87	18S-05	87.04403	85.99177	0.00000	1.66404	-0.12500	-65.646E-9	-0.0081692	163.38E-9
87	18S-05	86.77046	85.58309	0.00000	1.57744	-0.12500	-66.702E-9	-0.0082075	164.14E-9
87	18S-05	86.49690	85.17440	0.00000	1.48205	-0.12500	-67.780E-9	-0.0082453	164.90E-9
88	20S-01	86.41230	96.00810	0.00000	2.03285	-0.12500	-52.866E-9	-0.0068765	137.52E-9
88	20S-01	86.09843	96.21123	0.00000	2.01339	-0.12500	-53.562E-9	-0.0068687	137.37E-9
88	20S-01	85.78457	96.41437	0.00000	1.99387	-0.12500	-54.326E-9	-0.0068641	137.28E-9
88	20S-01	85.47070	96.61750	0.00000	1.97427	-0.12500	-55.159E-9	-0.0068627	137.25E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
88	20S-01	85.15683	96.82063	0.00000	1.95459	-0.12500	-56.062E-9	-0.0068644	137.28E-9
88	20S-01	84.84297	97.02377	0.00000	1.93482	-0.12500	-57.035E-9	-0.0068692	137.38E-9
88	20S-01	84.52910	97.22690	0.00000	1.91495	-0.12500	-58.078E-9	-0.0068769	137.53E-9
89	20S-02	84.52910	97.22690	0.00000	1.91495	-0.12500	-58.078E-9	-0.0068769	137.53E-9
89	20S-02	84.77199	97.59577	0.00000	1.93540	-0.12500	-56.099E-9	-0.0067852	135.70E-9
89	20S-02	85.01487	97.96464	0.00000	1.95404	-0.12500	-54.213E-9	-0.0066958	133.91E-9
89	20S-02	85.25776	98.33351	0.00000	1.97100	-0.12500	-52.414E-9	-0.0066086	132.17E-9
89	20S-02	85.50064	98.70239	0.00000	1.98639	-0.12500	-50.699E-9	-0.0065237	130.47E-9
89	20S-02	85.74353	99.07126	0.00000	2.00031	-0.12500	-49.064E-9	-0.0064409	128.81E-9
89	20S-02	85.98641	99.44013	0.00000	2.01286	-0.12500	-47.504E-9	-0.0063601	127.20E-9
89	20S-02	86.22930	99.80900	0.00000	2.02412	-0.12500	-46.015E-9	-0.0062813	125.62E-9
89	20S-02	86.47219	100.17787	0.00000	2.03418	-0.12500	-44.595E-9	-0.0062044	124.08E-9
89	20S-02	86.71507	100.54674	0.00000	2.04310	-0.12500	-43.239E-9	-0.0061294	122.58E-9
89	20S-02	86.95796	100.91561	0.00000	2.05096	-0.12500	-41.944E-9	-0.0060561	121.12E-9
89	20S-02	87.20084	101.28449	0.00000	2.05782	-0.12500	-40.707E-9	-0.0059845	119.69E-9
89	20S-02	87.44373	101.65336	0.00000	2.06374	-0.12500	-39.526E-9	-0.0059146	118.29E-9
89	20S-02	87.68661	102.02223	0.00000	2.06877	-0.12500	-38.396E-9	-0.0058463	116.92E-9
89	20S-02	87.92950	102.39110	0.00000	2.07297	-0.12500	-37.316E-9	-0.0057795	115.59E-9
90	20S-03	87.92950	102.39110	0.00000	2.07297	-0.12500	-37.316E-9	-0.0057795	115.59E-9
90	20S-03	88.31205	102.13921	0.00000	2.09309	-0.12500	-37.131E-9	-0.0058112	116.22E-9
90	20S-03	88.69459	101.88733	0.00000	2.11318	-0.12500	-36.995E-9	-0.0058459	116.91E-9
90	20S-03	89.07714	101.63544	0.00000	2.13323	-0.12500	-36.908E-9	-0.0058838	117.67E-9
90	20S-03	89.45968	101.38355	0.00000	2.15323	-0.12500	-36.873E-9	-0.0059249	118.49E-9
90	20S-03	89.84223	101.13167	0.00000	2.17319	-0.12500	-36.889E-9	-0.0059694	119.38E-9
90	20S-03	90.22477	100.87978	0.00000	2.19309	-0.12500	-36.959E-9	-0.0060173	120.34E-9
90	20S-03	90.60732	100.62790	0.00000	2.21293	-0.12500	-37.084E-9	-0.0060688	121.37E-9
90	20S-03	90.98986	100.37601	0.00000	2.23271	-0.12500	-37.267E-9	-0.0061241	122.48E-9
90	20S-03	91.37241	100.12412	0.00000	2.25241	-0.12500	-37.508E-9	-0.0061831	123.66E-9
90	20S-03	91.75495	99.87224	0.00000	2.27202	-0.12500	-37.810E-9	-0.0062461	124.92E-9
90	20S-03	92.13750	99.62035	0.00000	2.29154	-0.12500	-38.176E-9	-0.0063132	126.26E-9
90	20S-03	92.52005	99.36846	0.00000	2.31095	-0.12500	-38.606E-9	-0.0063846	127.69E-9
90	20S-03	92.90259	99.11658	0.00000	2.33023	-0.12500	-39.104E-9	-0.0064603	129.20E-9
90	20S-03	93.28514	98.86469	0.00000	2.34937	-0.12500	-39.673E-9	-0.0065405	130.81E-9
90	20S-03	93.66768	98.61280	0.00000	2.36836	-0.12500	-40.315E-9	-0.0066254	132.50E-9
90	20S-03	94.05023	98.36092	0.00000	2.38716	-0.12500	-41.033E-9	-0.0067151	134.30E-9
90	20S-03	94.43277	98.10903	0.00000	2.40577	-0.12500	-41.832E-9	-0.0068099	136.19E-9
90	20S-03	94.81532	97.85715	0.00000	2.42416	-0.12500	-42.713E-9	-0.0069099	138.19E-9
90	20S-03	95.19786	97.60526	0.00000	2.44229	-0.12500	-43.682E-9	-0.0070153	140.30E-9
90	20S-03	95.58041	97.35337	0.00000	2.46015	-0.12500	-44.743E-9	-0.0071262	142.52E-9
90	20S-03	95.96295	97.10149	0.00000	2.47771	-0.12500	-45.900E-9	-0.0072430	144.86E-9
90	20S-03	96.34550	96.84960	0.00000	2.49492	-0.12500	-47.159E-9	-0.0073659	147.31E-9
91	20S-04	96.34550	96.84960	0.00000	2.49492	-0.12500	-47.159E-9	-0.0073659	147.31E-9
91	20S-04	96.10331	96.48179	0.00000	2.49426	-0.12500	-47.670E-9	-0.0074058	148.11E-9
91	20S-04	95.86113	96.11397	0.00000	2.49300	-0.12500	-48.181E-9	-0.0074453	148.90E-9
91	20S-04	95.61894	95.74616	0.00000	2.49112	-0.12500	-48.692E-9	-0.0074842	149.68E-9
91	20S-04	95.37676	95.37834	0.00000	2.48856	-0.12500	-49.204E-9	-0.0075225	150.44E-9
91	20S-04	95.13457	95.01053	0.00000	2.48531	-0.12500	-49.717E-9	-0.0075603	151.20E-9
91	20S-04	94.89239	94.64271	0.00000	2.48131	-0.12500	-50.231E-9	-0.0075975	151.94E-9
91	20S-04	94.65020	94.27490	0.00000	2.47653	-0.12500	-50.745E-9	-0.0076342	152.68E-9
91	20S-04	94.40801	93.90709	0.00000	2.47091	-0.12500	-51.261E-9	-0.0076702	153.40E-9
91	20S-04	94.16583	93.53927	0.00000	2.46440	-0.12500	-51.778E-9	-0.0077057	154.11E-9
91	20S-04	93.92364	93.17146	0.00000	2.45695	-0.12500	-52.296E-9	-0.0077406	154.81E-9
91	20S-04	93.68146	92.80364	0.00000	2.44850	-0.12500	-52.816E-9	-0.0077749	155.49E-9
91	20S-04	93.43927	92.43583	0.00000	2.43898	-0.12500	-53.338E-9	-0.0078086	156.16E-9
91	20S-04	93.19709	92.06801	0.00000	2.42832	-0.12500	-53.861E-9	-0.0078416	156.83E-9
91	20S-04	92.95490	91.70020	0.00000	2.41644	-0.12500	-54.387E-9	-0.0078741	157.48E-9
92	20S-05	87.93150	102.38980	0.00000	2.07307	-0.12500	-37.314E-9	-0.0057796	115.59E-9
92	20S-05	88.17202	102.75233	0.00000	2.07650	-0.12500	-36.296E-9	-0.0057154	114.30E-9
92	20S-05	88.41253	103.11487	0.00000	2.07920	-0.12500	-35.321E-9	-0.0056525	113.05E-9
92	20S-05	88.65305	103.47740	0.00000	2.08122	-0.12500	-34.386E-9	-0.0055909	111.81E-9
92	20S-05	88.89357	103.83993	0.00000	2.08259	-0.12500	-33.491E-9	-0.0055306	110.61E-9
92	20S-05	89.13408	104.20247	0.00000	2.08335	-0.12500	-32.632E-9	-0.0054716	109.43E-9
92	20S-05	89.37460	104.56500	0.00000	2.08352	-0.12500	-31.809E-9	-0.0054137	108.27E-9
93	20S-06	89.37460	104.56500	0.00000	2.08352	-0.12500	-31.809E-9	-0.0054137	108.27E-9
93	20S-06	89.76970	104.33398	0.00000	2.10246	-0.12500	-31.794E-9	-0.0054513	109.02E-9
93	20S-06	90.16481	104.10295	0.00000	2.12138	-0.12500	-31.819E-9	-0.0054918	109.83E-9
93	20S-06	90.55991	103.87193	0.00000	2.14028	-0.12500	-31.887E-9	-0.0055352	110.70E-9
93	20S-06	90.95502	103.64091	0.00000	2.15915	-0.12500	-31.999E-9	-0.0055816	111.63E-9
93	20S-06	91.35012	103.40989	0.00000	2.17798	-0.12500	-32.155E-9	-0.0056311	112.62E-9
93	20S-06	91.74523	103.17886	0.00000	2.19678	-0.12500	-32.358E-9	-0.0056839	113.67E-9
93	20S-06	92.14033	102.94784	0.00000	2.21553	-0.12500	-32.608E-9	-0.0057399	114.79E-9
93	20S-06	92.53544	102.71682	0.00000	2.23423	-0.12500	-32.907E-9	-0.0057994	115.98E-9
93	20S-06	92.93054	102.48580	0.00000	2.25288	-0.12500	-33.258E-9	-0.0058624	117.24E-9
93	20S-06	93.32565	102.25477	0.00000	2.27145	-0.12500	-33.661E-9	-0.0059290	118.58E-9
93	20S-06	93.72075	102.02375	0.00000	2.28995	-0.12500	-34.118E-9	-0.0059994	119.98E-9
93	20S-06	94.11585	101.79273	0.00000	2.30835	-0.12500	-34.633E-9	-0.0060737	121.47E-9
93	20S-06	94.51096	101.56170	0.00000	2.32666	-0.12500	-35.206E-9	-0.0061520	123.04E-9
93	20S-06	94.90606	101.33068	0.00000	2.34485	-0.12500	-35.841E-9	-0.0062345	124.69E-9
93	20S-06	95.30117	101.09966	0.00000	2.36291	-0.12500	-36.540E-9	-0.0063213	126.42E-9
93	20S-06	95.69627	100.86864	0.00000	2.38083	-0.12500	-37.306E-9	-0.0064125	128.25E-9
93	20S-06	96.09138	100.63761	0.00000	2.39859	-0.12500	-38.142E-9	-0.0065083	130.16E-9
93	20S-06	96.48648	100.40659	0.00000	2.41617	-0.12500	-39.051E-9	-0.0066089	132.17E-9
93	20S-06	96.88159	100.17557	0.00000	2.43355	-0.12500	-40.037E-9	-0.0067144	134.28E-9
93	20S-06	97.27669	99.94455	0.00000	2.45071	-0.12500	-41.103E-9	-0.0068250	136.50E-9
93	20S-06	97.67180	99.71352	0.00000	2.46762	-0.12500	-42.253E-9	-0.0069410	138.81E-9
93	20S-06	98.06690	99.48250	0.00000	2.48426	-0.12500	-43.493E-9	-0.0070624	141.24E-9
94	20S-07	98.06690	99.48250	0.00000	2.48426	-0.12500	-43.493E-9	-0.0070624	141.24E-9
94	20S-07	97.85066	99.15409	0.00000	2.48683	-0.12500	-43.947E-9	-0.0071014	142.02E-9
94	20S-07	97.63443	98.82568	0.00000	2.48906	-0.12500	-44.401E-9	-0.0071399	142.79E-9
94	20S-07	97.41819	98.49726	0.00000	2.49094	-0.12500	-44.855E-9	-0.0071781	143.56E-9
94	20S-07	97.20195	98.16885	0.00000	2.49246	-0.12500	-45.309E-9	-0.0072159	144.31E-9
94	20S-07	96.98571	97.84044	0.00000	2.49359	-0.12500	-45.764E-9	-0.0072533	145.06E-9
94	20S-07	96.76947	97.51202	0.00000	2.49433	-0.12500	-46.219E-9	-0.0072903	145.80E-9
94	20S-07	96.55324	97.18361	0.00000	2.49465	-0.12500	-46.675E-9	-0.0073269	146.53E-9
94	20S-07	96.33700	96.85520	0.00000	2.49454	-0.12500	-47.130E-9	-0.0073631	147.26E-9
95	HT-01	89.37270	104.57010	0.00000	2.08334	-0.12500	-31.803E-9	-0.0054129	108.25E-9
95	HT-01	89.13047	104.71325	0.00000	2.07169	-0.12500	-31.830E-9	-0.0053909	107.81E-9
95	HT-01	88.88825	104.85640	0.00000	2.06003	-0.12500	-31.871E-9	-0.0053700	107.40E-9
95	HT-01	88.64603	104.99955	0.00000	2.04836	-0.12500	-31.928E-9	-0.0053500	107.00E-9
95	HT-01	88.40380	105.14270	0.00000	2.03669	-0.12500	-31.998E-9	-0.0053310	106.62E-9
96	HT-02	88.40380	105.14270	0.00000	2.03669	-0.12500	-31.998E-9	-0.0053310	106.62E-9
96	HT-02	88.64137	105.55530	0.00000	2.03555	-0.12500	-31.056E-9	-0.0052632	105.26E-9
96	HT-02	88.87894	105.96789	0.00000	2.03380	-0.12500	-30.154E-9	-0.0051967	103.93E-9
96	HT-02	89.11652	106.38049	0.00000	2.03146	-0.12500	-29.291E-9	-0.0051315	102.63E-9
96	HT-02	89.35409	106.79309	0.00000	2.02857	-0.12500	-28.462E-9	-0.0050677	101.35E-9
96	HT-02	89.59166	107.20569	0.00000	2.02516	-0.12500	-27.668E-9	-0.0050050	100.10E-9
96	HT-02	89.82923	107.61828	0.00000	2.02126	-0.12500	-26.907E-9	-0.0049436	98.868E-9
96	HT-02	90.06681	108.03088	0.00000	2.01690	-0.12500	-26.175E-9	-0.0048833	97.662E-9
96	HT-02	90.30438	108.44348	0.00000	2.01210	-0.12500	-25.473E-9	-0.0048241	96.478E-9
96	HT-02	90.54195	108.85608	0.00000	2.00688	-0.12500	-24.798E-9	-0.0047659	95.315E-9
96	HT-02	90.77952	109.26867	0.00000	2.00128	-0.12500	-24.149E-9	-0.0047088	94.173E-9
96	HT-02	91.01709	109.68127	0.00000	1.99530	-0.12500	-23.524E-9	-0.0046527	93.051E-9
96	HT-02	91.25467	110.09387	0.00000	1.98898	-0.12500	-22.923E-9	-0.0045975	91.948E-9
96	HT-02	91.49224	110.50646	0.00000	1.98233	-0.12500	-22.344E-9	-0.0045433	90.863E-9
96	HT-02	91.72981	110.91906	0.00000	1.97537	-0.12500	-21.786E-9	-0.0044899	89.796E-9
96	HT-02	91.96738	111.33166	0.00000	1.96811	-0.12500	-21.248E-9	-0.0044374	88.746E-9
96	HT-02	92.20496	111.74426	0.00000	1.96057	-0.12500	-20.730E-9	-0.0043858	87.713E-9
96	HT-02	92.44253	112.15685	0.00000	1.95278	-0.12500	-20.229E-9	-0.0043349	86.695E-9
96	HT-02	92.68010	112.56945	0.00000	1.94473	-0.12500	-19.745E-9	-0.0042848	85.694E-9
96	HT-02	92.91767	112.98205	0.00000	1.93645	-0.12500	-19.278E-9	-0.0042355	84.707E-9
96	HT-02	93.15524	113.39464	0.00000	1.92795	-0.12500	-18.826E-9	-0.0041869	83.735E-9
96	HT-02	93.39282	113.80724	0.00000	1.91925	-0.12500	-18.389E-9	-0.0041389	82.777E-9
96	HT-02	93.63039	114.21984	0.00000	1.91034	-0.12500	-17.965E-9	-0.0040917	81.832E-9
96	HT-02	93.86796	114.63244	0.00000	1.90126	-0.12500	-17.556E-9	-0.0040452	80.901E-9
96	HT-02	94.10553	115.04503	0.00000	1.89200	-0.12500	-17.159E-9	-0.0039992	79.983E-9
96	HT-02	94.34311	115.45763	0.00000	1.88258	-0.12500	-16.774E-9	-0.0039539	79.077E-9
96	HT-02	94.58068	115.87023	0.00000	1.87300	-0.12500	-16.401E-9	-0.0039093	78.183E-9
96	HT-02	94.81825	116.28283	0.00000	1.86328	-0.12500	-16.039E-9	-0.0038651	77.301E-9
96	HT-02	95.05582	116.69542	0.00000	1.85343	-0.12500	-15.687E-9	-0.0038216	76.430E-9
96	HT-02	95.29339	117.10802	0.00000	1.84345	-0.12500	-15.346E-9	-0.0037786	75.571E-9
96	HT-02	95.53097	117.52062	0.00000	1.83335	-0.12500	-15.014E-9	-0.0037362	74.722E-9
96	HT-02	95.76854	117.93321	0.00000	1.82314	-0.12500	-14.692E-9	-0.0036943	73.884E-9
96	HT-02	96.00611	118.34581	0.00000	1.81283	-0.12500	-14.378E-9	-0.0036529	73.057E-9
96	HT-02	96.24368	118.75841	0.00000	1.80243	-0.12500	-14.073E-9	-0.0036120	72.239E-9
96	HT-02	96.48126	119.17101	0.00000	1.79194	-0.12500	-13.776E-9	-0.0035716	71.431E-9
96	HT-02	96.71883	119.58360	0.00000	1.78136	-0.12500	-13.487E-9	-0.0035317	70.633E-9
96	HT-02	96.95640	119.99620	0.00000	1.77071	-0.12500	-13.206E-9	-0.0034923	69.844E-9
97	HT-03	96.95640	119.99620	0.00000	1.77071	-0.12500	-13.206E-9	-0.0034923	69.844E-9
97	HT-03	97.37429	119.75529	0.00000	1.78524	-0.12500	-13.436E-9	-0.0035357	70.712E-9
97	HT-03	97.79217	119.51438	0.00000	1.79987	-0.12500	-13.678E-9	-0.0035805	71.608E-9
97	HT-03	98.21006	119.27347	0.00000	1.81459	-0.12500	-13.934E-9	-0.0036266	72.531E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
97	HT-03	98.62795	119.03256	0.00000	1.82940	-0.12500	-14.203E-9	-0.0036742	73.483E-9
97	HT-03	99.04583	118.79165	0.00000	1.84429	-0.12500	-14.488E-9	-0.0037233	74.465E-9
97	HT-03	99.46372	118.55075	0.00000	1.85927	-0.12500	-14.787E-9	-0.0037740	75.478E-9
97	HT-03	99.88160	118.30984	0.00000	1.87434	-0.12500	-15.103E-9	-0.0038262	76.522E-9
97	HT-03	100.29949	118.06893	0.00000	1.88949	-0.12500	-15.435E-9	-0.0038801	77.599E-9
97	HT-03	100.71738	117.82802	0.00000	1.90473	-0.12500	-15.784E-9	-0.0039356	78.711E-9
97	HT-03	101.13526	117.58711	0.00000	1.92004	-0.12500	-16.152E-9	-0.0039930	79.857E-9
97	HT-03	101.55315	117.34620	0.00000	1.93543	-0.12500	-16.539E-9	-0.0040521	81.040E-9
97	HT-03	101.97104	117.10529	0.00000	1.95089	-0.12500	-16.946E-9	-0.0041131	82.260E-9
97	HT-03	102.38892	116.86438	0.00000	1.96642	-0.12500	-17.373E-9	-0.0041761	83.519E-9
97	HT-03	102.80681	116.62347	0.00000	1.98202	-0.12500	-17.823E-9	-0.0042410	84.818E-9
97	HT-03	103.22470	116.38256	0.00000	1.99768	-0.12500	-18.296E-9	-0.0043081	86.159E-9
97	HT-03	103.64258	116.14165	0.00000	2.01341	-0.12500	-18.792E-9	-0.0043772	87.542E-9
97	HT-03	104.06047	115.90075	0.00000	2.02919	-0.12500	-19.314E-9	-0.0044486	88.970E-9
97	HT-03	104.47835	115.65984	0.00000	2.04502	-0.12500	-19.862E-9	-0.0045223	90.443E-9
97	HT-03	104.89624	115.41893	0.00000	2.06090	-0.12500	-20.437E-9	-0.0045983	91.963E-9
97	HT-03	105.31413	115.17802	0.00000	2.07683	-0.12500	-21.042E-9	-0.0046767	93.532E-9
97	HT-03	105.73201	114.93711	0.00000	2.09280	-0.12500	-21.676E-9	-0.0047577	95.151E-9
97	HT-03	106.14990	114.69620	0.00000	2.10880	-0.12500	-22.342E-9	-0.0048413	96.823E-9
98	HT-04	106.14990	114.69620	0.00000	2.10880	-0.12500	-22.342E-9	-0.0048413	96.823E-9
98	HT-04	105.91119	114.28331	0.00000	2.12181	-0.12500	-22.784E-9	-0.0048966	97.930E-9
98	HT-04	105.67248	113.87042	0.00000	2.13473	-0.12500	-23.232E-9	-0.0049523	99.043E-9
98	HT-04	105.43377	113.45753	0.00000	2.14754	-0.12500	-23.686E-9	-0.0050082	100.16E-9
98	HT-04	105.19507	113.04464	0.00000	2.16025	-0.12500	-24.146E-9	-0.0050644	101.29E-9
98	HT-04	104.95636	112.63176	0.00000	2.17284	-0.12500	-24.613E-9	-0.0051208	102.41E-9
98	HT-04	104.71765	112.21887	0.00000	2.18532	-0.12500	-25.086E-9	-0.0051775	103.55E-9
98	HT-04	104.47894	111.80598	0.00000	2.19766	-0.12500	-25.566E-9	-0.0052344	104.68E-9
98	HT-04	104.24023	111.39309	0.00000	2.20987	-0.12500	-26.051E-9	-0.0052914	105.83E-9
98	HT-04	104.00153	110.98020	0.00000	2.22194	-0.12500	-26.543E-9	-0.0053487	106.97E-9
98	HT-04	103.76282	110.56731	0.00000	2.23386	-0.12500	-27.041E-9	-0.0054061	108.12E-9
98	HT-04	103.52411	110.15442	0.00000	2.24562	-0.12500	-27.544E-9	-0.0054637	109.27E-9
98	HT-04	103.28540	109.74153	0.00000	2.25721	-0.12500	-28.054E-9	-0.0055214	110.43E-9
98	HT-04	103.04669	109.32864	0.00000	2.26864	-0.12500	-28.569E-9	-0.0055793	111.58E-9
98	HT-04	102.80798	108.91576	0.00000	2.27988	-0.12500	-29.091E-9	-0.0056372	112.74E-9
98	HT-04	102.56928	108.50287	0.00000	2.29094	-0.12500	-29.618E-9	-0.0056952	113.90E-9
98	HT-04	102.33057	108.08998	0.00000	2.30180	-0.12500	-30.150E-9	-0.0057533	115.06E-9
98	HT-04	102.09186	107.67709	0.00000	2.31245	-0.12500	-30.688E-9	-0.0058114	116.22E-9
98	HT-04	101.85315	107.26420	0.00000	2.32288	-0.12500	-31.232E-9	-0.0058695	117.39E-9
98	HT-04	101.61444	106.85131	0.00000	2.33310	-0.12500	-31.781E-9	-0.0059277	118.55E-9
98	HT-04	101.37573	106.43842	0.00000	2.34307	-0.12500	-32.335E-9	-0.0059858	119.71E-9
98	HT-04	101.13702	106.02553	0.00000	2.35281	-0.12500	-32.893E-9	-0.0060439	120.87E-9
98	HT-04	100.89832	105.61264	0.00000	2.36229	-0.12500	-33.457E-9	-0.0061019	122.03E-9
98	HT-04	100.65961	105.19976	0.00000	2.37150	-0.12500	-34.026E-9	-0.0061598	123.19E-9
98	HT-04	100.42090	104.78687	0.00000	2.38044	-0.12500	-34.599E-9	-0.0062176	124.35E-9
98	HT-04	100.18219	104.37398	0.00000	2.38909	-0.12500	-35.177E-9	-0.0062753	125.50E-9
98	HT-04	99.94348	103.96109	0.00000	2.39744	-0.12500	-35.759E-9	-0.0063329	126.65E-9
98	HT-04	99.70477	103.54820	0.00000	2.40548	-0.12500	-36.345E-9	-0.0063903	127.80E-9
98	HT-04	99.46607	103.13531	0.00000	2.41319	-0.12500	-36.936E-9	-0.0064474	128.94E-9
98	HT-04	99.22736	102.72242	0.00000	2.42056	-0.12500	-37.530E-9	-0.0065044	130.08E-9
98	HT-04	98.98865	102.30953	0.00000	2.42758	-0.12500	-38.128E-9	-0.0065611	131.22E-9
98	HT-04	98.74994	101.89664	0.00000	2.43423	-0.12500	-38.730E-9	-0.0066176	132.35E-9
98	HT-04	98.51123	101.48376	0.00000	2.44050	-0.12500	-39.335E-9	-0.0066737	133.47E-9
98	HT-04	98.27253	101.07087	0.00000	2.44636	-0.12500	-39.943E-9	-0.0067296	134.59E-9
98	HT-04	98.03382	100.65798	0.00000	2.45181	-0.12500	-40.554E-9	-0.0067851	135.70E-9
98	HT-04	97.79511	100.24509	0.00000	2.45682	-0.12500	-41.169E-9	-0.0068402	136.80E-9
98	HT-04	97.55640	99.83220	0.00000	2.46136	-0.12500	-41.786E-9	-0.0068950	137.89E-9
99	22S-01	111.36030	124.06920	0.00000	0.99183	-0.083333	-4.1303E-9	-0.0024474	48.947E-9
99	22S-01	111.81115	123.91236	0.00000	0.99659	-0.083333	-4.2244E-9	-0.0024789	49.577E-9
99	22S-01	112.26200	123.75551	0.00000	1.00134	-0.083333	-4.3216E-9	-0.0025111	50.221E-9
99	22S-01	112.71285	123.59867	0.00000	1.00607	-0.083333	-4.4221E-9	-0.0025439	50.877E-9
99	22S-01	113.16370	123.44183	0.00000	1.01077	-0.083333	-4.5257E-9	-0.0025774	51.547E-9
99	22S-01	113.61455	123.28499	0.00000	1.01545	-0.083333	-4.6327E-9	-0.0026115	52.230E-9
99	22S-01	114.06540	123.12814	0.00000	1.02010	-0.083333	-4.7432E-9	-0.0026464	52.927E-9
99	22S-01	114.51625	122.97130	0.00000	1.02472	-0.083333	-4.8571E-9	-0.0026819	53.638E-9
99	22S-01	114.96710	122.81446	0.00000	1.02932	-0.083333	-4.9746E-9	-0.0027181	54.362E-9
99	22S-01	115.41795	122.65761	0.00000	1.03389	-0.083333	-5.0957E-9	-0.0027551	55.100E-9
99	22S-01	115.86880	122.50077	0.00000	1.03843	-0.083333	-5.2207E-9	-0.0027927	55.853E-9
99	22S-01	116.31965	122.34393	0.00000	1.04293	-0.083333	-5.3495E-9	-0.0028310	56.620E-9
99	22S-01	116.77050	122.18709	0.00000	1.04740	-0.083333	-5.4822E-9	-0.0028701	57.402E-9
99	22S-01	117.22135	122.03024	0.00000	1.05184	-0.083333	-5.6189E-9	-0.0029099	58.198E-9
99	22S-01	117.67220	121.87340	0.00000	1.05624	-0.083333	-5.7598E-9	-0.0029505	59.009E-9
100	22S-02	117.67220	121.87340	0.00000	1.05624	-0.083333	-5.7598E-9	-0.0029505	59.009E-9
100	22S-02	117.50862	121.40396	0.00000	1.06396	-0.083333	-5.9395E-9	-0.0030038	60.075E-9
100	22S-02	117.34504	120.93452	0.00000	1.07161	-0.083333	-6.1252E-9	-0.0030582	61.162E-9
100	22S-02	117.18146	120.46507	0.00000	1.07921	-0.083333	-6.3172E-9	-0.0031136	62.271E-9
100	22S-02	117.01788	119.99563	0.00000	1.08673	-0.083333	-6.5157E-9	-0.0031701	63.402E-9
100	22S-02	116.85430	119.52619	0.00000	1.09418	-0.083333	-6.7208E-9	-0.0032278	64.555E-9
100	22S-02	116.69073	119.05675	0.00000	1.10154	-0.083333	-6.9329E-9	-0.0032866	65.731E-9
100	22S-02	116.52715	118.58731	0.00000	1.10881	-0.083333	-7.1521E-9	-0.0033465	66.929E-9
100	22S-02	116.36357	118.11787	0.00000	1.11599	-0.083333	-7.3787E-9	-0.0034076	68.151E-9
100	22S-02	116.19999	117.64843	0.00000	1.12305	-0.083333	-7.6129E-9	-0.0034699	69.397E-9
100	22S-02	116.03641	117.17898	0.00000	1.13001	-0.083333	-7.8550E-9	-0.0035334	70.666E-9
100	22S-02	115.87283	116.70954	0.00000	1.13684	-0.083333	-8.1053E-9	-0.0035981	71.961E-9
100	22S-02	115.70925	116.24010	0.00000	1.14355	-0.083333	-8.3639E-9	-0.0036640	73.280E-9
100	22S-02	115.54567	115.77066	0.00000	1.15012	-0.083333	-8.6313E-9	-0.0037313	74.624E-9
100	22S-02	115.38209	115.30122	0.00000	1.15654	-0.083333	-8.9077E-9	-0.0037998	75.994E-9
100	22S-02	115.21851	114.83178	0.00000	1.16280	-0.083333	-9.1934E-9	-0.0038695	77.390E-9
100	22S-02	115.05493	114.36233	0.00000	1.16890	-0.083333	-9.4887E-9	-0.0039407	78.812E-9
100	22S-02	114.89135	113.89289	0.00000	1.17482	-0.083333	-9.7938E-9	-0.0040131	80.261E-9
100	22S-02	114.72778	113.42345	0.00000	1.18056	-0.083333	-10.109E-9	-0.0040869	81.737E-9
100	22S-02	114.56420	112.95401	0.00000	1.18611	-0.083333	-10.435E-9	-0.0041621	83.240E-9
100	22S-02	114.40062	112.48457	0.00000	1.19145	-0.083333	-10.772E-9	-0.0042386	84.771E-9
100	22S-02	114.23704	112.01513	0.00000	1.19657	-0.083333	-11.120E-9	-0.0043166	86.330E-9
100	22S-02	114.07346	111.54568	0.00000	1.20146	-0.083333	-11.480E-9	-0.0043960	87.918E-9
100	22S-02	113.90988	111.07624	0.00000	1.20612	-0.083333	-11.851E-9	-0.0044768	89.534E-9
100	22S-02	113.74630	110.60680	0.00000	1.21052	-0.083333	-12.235E-9	-0.0045590	91.179E-9
101	22S-03	113.74630	110.60680	0.00000	1.21052	-0.083333	-12.235E-9	-0.0045590	91.179E-9
101	22S-03	113.29409	110.76428	0.00000	1.20726	-0.083333	-11.833E-9	-0.0044750	89.499E-9
101	22S-03	112.84187	110.92176	0.00000	1.20386	-0.083333	-11.448E-9	-0.0043933	87.865E-9
101	22S-03	112.38966	111.07924	0.00000	1.20034	-0.083333	-11.078E-9	-0.0043137	86.274E-9
101	22S-03	111.93744	111.23671	0.00000	1.19670	-0.083333	-10.723E-9	-0.0042363	84.725E-9
101	22S-03	111.48523	111.39419	0.00000	1.19294	-0.083333	-10.383E-9	-0.0041610	83.219E-9
101	22S-03	111.03301	111.55167	0.00000	1.18906	-0.083333	-10.057E-9	-0.0040877	81.753E-9
101	22S-03	110.58080	111.70915	0.00000	1.18507	-0.083333	-9.7444E-9	-0.0040164	80.328E-9
101	22S-03	110.12859	111.86663	0.00000	1.18097	-0.083333	-9.4449E-9	-0.0039471	78.941E-9
101	22S-03	109.67637	112.02411	0.00000	1.17676	-0.083333	-9.1578E-9	-0.0038797	77.593E-9
101	22S-03	109.22416	112.18159	0.00000	1.17245	-0.083333	-8.8829E-9	-0.0038142	76.282E-9
101	22S-03	108.77194	112.33906	0.00000	1.16804	-0.083333	-8.6195E-9	-0.0037505	75.008E-9
101	22S-03	108.31973	112.49654	0.00000	1.16353	-0.083333	-8.3674E-9	-0.0036886	73.770E-9
101	22S-03	107.86751	112.65402	0.00000	1.15893	-0.083333	-8.1261E-9	-0.0036284	72.567E-9
101	22S-03	107.41530	112.81150	0.00000	1.15424	-0.083333	-7.8952E-9	-0.0035700	71.398E-9
102	22S-04	107.41530	112.81150	0.00000	1.15424	-0.083333	-7.8952E-9	-0.0035700	71.398E-9
102	22S-04	107.57968	113.28057	0.00000	1.14861	-0.083333	-7.6862E-9	-0.0035151	70.300E-9
102	22S-04	107.74405	113.74964	0.00000	1.14284	-0.083333	-7.4824E-9	-0.0034609	69.217E-9
102	22S-04	107.90842	114.21871	0.00000	1.13694	-0.083333	-7.2838E-9	-0.0034075	68.148E-9
102	22S-04	108.07280	114.68778	0.00000	1.13090	-0.083333	-7.0902E-9	-0.0033547	67.094E-9
102	22S-04	108.23718	115.15685	0.00000	1.12474	-0.083333	-6.9016E-9	-0.0033027	66.054E-9
102	22S-04	108.40155	115.62592	0.00000	1.11846	-0.083333	-6.7178E-9	-0.0032514	65.028E-9
102	22S-04	108.56592	116.09500	0.00000	1.11207	-0.083333	-6.5388E-9	-0.0032009	64.016E-9
102	22S-04	108.73030	116.56407	0.00000	1.10558	-0.083333	-6.3645E-9	-0.0031510	63.019E-9
102	22S-04	108.89468	117.03314	0.00000	1.09899	-0.083333	-6.1948E-9	-0.0031019	62.036E-9
102	22S-04	109.05905	117.50221	0.00000	1.09230	-0.083333	-6.0295E-9	-0.0030534	61.068E-9
102	22S-04	109.22342	117.97128	0.00000	1.08553	-0.083333	-5.8685E-9	-0.0030057	60.113E-9
102	22S-04	109.38780	118.44035	0.00000	1.07867	-0.083333	-5.7119E-9	-0.0029587	59.173E-9
102	22S-04	109.55218	118.90942	0.00000	1.07174	-0.083333	-5.5593E-9	-0.0029123	58.246E-9
102	22S-04	109.71655	119.37849	0.00000	1.06473	-0.083333	-5.4109E-9	-0.0028667	57.334E-9
102	22S-04	109.88092	119.84756	0.00000	1.05766	-0.083333	-5.2665E-9	-0.0028218	56.435E-9
102	22S-04	110.04530	120.31663	0.00000	1.05053	-0.083333	-5.1259E-9	-0.0027775	55.550E-9
102	22S-04	110.20968	120.78570	0.00000	1.04334	-0.083333	-4.9891E-9	-0.0027339	54.678E-9
102	22S-04	110.37405	121.25477	0.00000	1.03611	-0.083333	-4.8560E-9	-0.0026910	53.820E-9
102	22S-04	110.53842	121.72385	0.00000	1.02882	-0.083333	-4.7266E-9	-0.0026488	52.975E-9
102	22S-04	110.70280	122.19292	0.00000	1.02149	-0.083333	-4.6006E-9	-0.0026072	52.144E-9
102	22S-04	110.86718	122.66199	0.00000	1.01412	-0.083333	-4.4781E-9	-0.0025663	51.325E-9
102	22S-04	111.03155	123.13106	0.00000	1.00672	-0.083333	-4.3589E-9	-0.0025260	50.520E-9
102	22S-04	111.19593	123.60013	0.00000	0.99929	-0.083333	-4.2430E-9	-0.0024864	49.727E-9
102	22S-04	111.36030	124.06920	0.00000	0.99183	-0.083333	-4.1303E-9	-0.0024474	48.947E-9
103	23K-01	126.87040	106.75440	0.00000	1.24113	-0.083333	-32.126E-9	-0.0078346	156.69E-9
103	23K-01	126.41078	106.91251	0.00000	1.24215	-0.083333	-30.956E-9	-0.0076721	153.44E-9
103	23K-01	125.95115	107.07062	0.00000	1.24299	-0.083333	-29.829E-9	-0.0075132	150.26E-9
103	23K-01	125.49153	107.22872	0.00000	1.24365	-0.083333	-28.745E-9	-0.0073578	147.15E-9
103	23K-01	125.03190	107.38683	0.00000	1.24412	-0.083333	-27.702E-9	-0.0072058	144.11E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
103	23K-01	124.57228	107.54494	0.00000	1.24440	-0.083333	-26.698E-9	-0.0070573	141.14E-9
103	23K-01	124.11265	107.70305	0.00000	1.24451	-0.083333	-25.731E-9	-0.0069121	138.24E-9
103	23K-01	123.65302	107.86116	0.00000	1.24444	-0.083333	-24.802E-9	-0.0067702	135.40E-9
103	23K-01	123.19340	108.01927	0.00000	1.24419	-0.083333	-23.908E-9	-0.0066315	132.63E-9
103	23K-01	122.73378	108.17738	0.00000	1.24376	-0.083333	-23.048E-9	-0.0064961	129.92E-9
103	23K-01	122.27415	108.33548	0.00000	1.24317	-0.083333	-22.221E-9	-0.0063638	127.27E-9
103	23K-01	121.81453	108.49359	0.00000	1.24240	-0.083333	-21.426E-9	-0.0062346	124.69E-9
103	23K-01	121.35490	108.65170	0.00000	1.24146	-0.083333	-20.661E-9	-0.0061085	122.17E-9
104	23K-02	121.35490	108.65170	0.00000	1.24146	-0.083333	-20.661E-9	-0.0061085	122.17E-9
104	23K-02	121.51257	109.10856	0.00000	1.23971	-0.083333	-19.880E-9	-0.0059760	119.52E-9
104	23K-02	121.67024	109.56541	0.00000	1.23754	-0.083333	-19.132E-9	-0.0058466	116.93E-9
104	23K-02	121.82791	110.02227	0.00000	1.23496	-0.083333	-18.413E-9	-0.0057203	114.40E-9
104	23K-02	121.98558	110.47912	0.00000	1.23199	-0.083333	-17.725E-9	-0.0055971	111.94E-9
104	23K-02	122.14325	110.93597	0.00000	1.22866	-0.083333	-17.064E-9	-0.0054769	109.54E-9
104	23K-02	122.30092	111.39283	0.00000	1.22498	-0.083333	-16.431E-9	-0.0053596	107.19E-9
104	23K-02	122.45859	111.84969	0.00000	1.22096	-0.083333	-15.823E-9	-0.0052451	104.90E-9
104	23K-02	122.61626	112.30654	0.00000	1.21664	-0.083333	-15.240E-9	-0.0051334	102.67E-9
104	23K-02	122.77393	112.76340	0.00000	1.21202	-0.083333	-14.681E-9	-0.0050244	100.49E-9
104	23K-02	122.93160	113.22025	0.00000	1.20712	-0.083333	-14.144E-9	-0.0049180	98.359E-9
104	23K-02	123.08927	113.67710	0.00000	1.20195	-0.083333	-13.629E-9	-0.0048142	96.283E-9
104	23K-02	123.24694	114.13396	0.00000	1.19654	-0.083333	-13.134E-9	-0.0047129	94.257E-9
104	23K-02	123.40461	114.59081	0.00000	1.19089	-0.083333	-12.660E-9	-0.0046141	92.280E-9
104	23K-02	123.56228	115.04767	0.00000	1.18502	-0.083333	-12.204E-9	-0.0045176	90.350E-9
104	23K-02	123.71995	115.50453	0.00000	1.17894	-0.083333	-11.766E-9	-0.0044234	88.467E-9
104	23K-02	123.87762	115.96138	0.00000	1.17267	-0.083333	-11.346E-9	-0.0043316	86.630E-9
104	23K-02	124.03529	116.41823	0.00000	1.16621	-0.083333	-10.942E-9	-0.0042419	84.836E-9
104	23K-02	124.19296	116.87509	0.00000	1.15958	-0.083333	-10.555E-9	-0.0041544	83.086E-9
104	23K-02	124.35063	117.33194	0.00000	1.15279	-0.083333	-10.182E-9	-0.0040689	81.377E-9
104	23K-02	124.50830	117.78880	0.00000	1.14586	-0.083333	-9.8246E-9	-0.0039855	79.710E-9
105	23K-03	124.50830	117.78880	0.00000	1.14586	-0.083333	-9.8246E-9	-0.0039855	79.710E-9
105	23K-03	124.97028	117.63206	0.00000	1.14932	-0.083333	-10.097E-9	-0.0040470	80.938E-9
105	23K-03	125.43227	117.47532	0.00000	1.15271	-0.083333	-10.377E-9	-0.0041093	82.186E-9
105	23K-03	125.89425	117.31857	0.00000	1.15603	-0.083333	-10.664E-9	-0.0041727	83.453E-9
105	23K-03	126.35623	117.16183	0.00000	1.15927	-0.083333	-10.960E-9	-0.0042371	84.740E-9
105	23K-03	126.81822	117.00509	0.00000	1.16243	-0.083333	-11.263E-9	-0.0043024	86.046E-9
105	23K-03	127.28020	116.84835	0.00000	1.16552	-0.083333	-11.575E-9	-0.0043687	87.372E-9
105	23K-03	127.74218	116.69161	0.00000	1.16853	-0.083333	-11.895E-9	-0.0044359	88.717E-9
105	23K-03	128.20417	116.53487	0.00000	1.17146	-0.083333	-12.223E-9	-0.0045041	90.081E-9
105	23K-03	128.66615	116.37812	0.00000	1.17430	-0.083333	-12.560E-9	-0.0045733	91.464E-9
105	23K-03	129.12813	116.22138	0.00000	1.17707	-0.083333	-12.906E-9	-0.0046434	92.867E-9
105	23K-03	129.59012	116.06464	0.00000	1.17974	-0.083333	-13.260E-9	-0.0047145	94.287E-9
105	23K-03	130.05210	115.90790	0.00000	1.18233	-0.083333	-13.624E-9	-0.0047864	95.727E-9
106	23K-04	130.24640	116.47000	0.00000	1.17439	-0.083333	-12.965E-9	-0.0046510	93.019E-9
106	23K-04	130.65443	116.32850	0.00000	1.17672	-0.083333	-13.275E-9	-0.0047132	94.261E-9
106	23K-04	131.06247	116.18700	0.00000	1.17899	-0.083333	-13.593E-9	-0.0047759	95.517E-9
106	23K-04	131.47050	116.04550	0.00000	1.18119	-0.083333	-13.917E-9	-0.0048394	96.786E-9
106	23K-04	131.87853	115.90400	0.00000	1.18332	-0.083333	-14.247E-9	-0.0049035	98.068E-9
106	23K-04	132.28657	115.76250	0.00000	1.18538	-0.083333	-14.585E-9	-0.0049683	99.364E-9
106	23K-04	132.69460	115.62100	0.00000	1.18738	-0.083333	-14.929E-9	-0.0050337	100.67E-9
106	23K-04	133.10263	115.47950	0.00000	1.18929	-0.083333	-15.281E-9	-0.0050997	101.99E-9
106	23K-04	133.51067	115.33800	0.00000	1.19114	-0.083333	-15.639E-9	-0.0051663	103.32E-9
106	23K-04	133.91870	115.19650	0.00000	1.19291	-0.083333	-16.004E-9	-0.0052335	104.67E-9
106	23K-04	134.32673	115.05500	0.00000	1.19461	-0.083333	-16.377E-9	-0.0053013	106.02E-9
106	23K-04	134.73477	114.91350	0.00000	1.19623	-0.083333	-16.756E-9	-0.0053697	107.39E-9
106	23K-04	135.14280	114.77200	0.00000	1.19778	-0.083333	-17.142E-9	-0.0054386	108.77E-9
107	23K-05	135.32920	115.30920	0.00000	1.19086	-0.083333	-16.271E-9	-0.0052768	105.53E-9
107	23K-05	135.76587	115.15775	0.00000	1.19254	-0.083333	-16.663E-9	-0.0053474	106.95E-9
107	23K-05	136.20253	115.00630	0.00000	1.19412	-0.083333	-17.063E-9	-0.0054186	108.37E-9
107	23K-05	136.63920	114.85485	0.00000	1.19563	-0.083333	-17.469E-9	-0.0054903	109.80E-9
107	23K-05	137.07587	114.70340	0.00000	1.19704	-0.083333	-17.883E-9	-0.0055624	111.25E-9
107	23K-05	137.51253	114.55195	0.00000	1.19837	-0.083333	-18.303E-9	-0.0056350	112.70E-9
107	23K-05	137.94920	114.40050	0.00000	1.19961	-0.083333	-18.731E-9	-0.0057079	114.16E-9
107	23K-05	138.38587	114.24905	0.00000	1.20076	-0.083333	-19.165E-9	-0.0057812	115.62E-9
107	23K-05	138.82253	114.09760	0.00000	1.20183	-0.083333	-19.606E-9	-0.0058549	117.10E-9
107	23K-05	139.25920	113.94615	0.00000	1.20280	-0.083333	-20.054E-9	-0.0059289	118.57E-9
107	23K-05	139.69587	113.79470	0.00000	1.20368	-0.083333	-20.508E-9	-0.0060031	120.06E-9
107	23K-05	140.13253	113.64325	0.00000	1.20447	-0.083333	-20.969E-9	-0.0060775	121.55E-9
107	23K-05	140.56920	113.49180	0.00000	1.20517	-0.083333	-21.436E-9	-0.0061521	123.04E-9
108	23K-06	140.75790	114.06100	0.00000	1.19884	-0.083333	-20.174E-9	-0.0059395	118.79E-9
108	23K-06	141.17871	113.91508	0.00000	1.19955	-0.083333	-20.593E-9	-0.0060075	120.15E-9
108	23K-06	141.59952	113.76917	0.00000	1.20018	-0.083333	-21.017E-9	-0.0060755	121.51E-9
108	23K-06	142.02033	113.62325	0.00000	1.20073	-0.083333	-21.445E-9	-0.0061435	122.87E-9
108	23K-06	142.44113	113.47733	0.00000	1.20119	-0.083333	-21.878E-9	-0.0062115	124.23E-9
108	23K-06	142.86194	113.33142	0.00000	1.20157	-0.083333	-22.315E-9	-0.0062794	125.58E-9
108	23K-06	143.28275	113.18550	0.00000	1.20187	-0.083333	-22.756E-9	-0.0063472	126.94E-9
108	23K-06	143.70356	113.03958	0.00000	1.20208	-0.083333	-23.200E-9	-0.0064149	128.29E-9
108	23K-06	144.12437	112.89367	0.00000	1.20221	-0.083333	-23.648E-9	-0.0064823	129.64E-9
108	23K-06	144.54518	112.74775	0.00000	1.20226	-0.083333	-24.099E-9	-0.0065495	130.99E-9
108	23K-06	144.96598	112.60183	0.00000	1.20222	-0.083333	-24.552E-9	-0.0066165	132.33E-9
108	23K-06	145.38679	112.45592	0.00000	1.20210	-0.083333	-25.008E-9	-0.0066831	133.66E-9
108	23K-06	145.80760	112.31000	0.00000	1.20189	-0.083333	-25.467E-9	-0.0067493	134.98E-9
109	23K-07	145.92710	112.67510	0.00000	1.19859	-0.083333	-24.420E-9	-0.0065871	131.74E-9
109	23K-07	146.36303	112.52428	0.00000	1.19838	-0.083333	-24.869E-9	-0.0066523	133.04E-9
109	23K-07	146.79897	112.37345	0.00000	1.19809	-0.083333	-25.319E-9	-0.0067171	134.34E-9
109	23K-07	147.23490	112.22262	0.00000	1.19771	-0.083333	-25.770E-9	-0.0067812	135.62E-9
109	23K-07	147.67083	112.07180	0.00000	1.19725	-0.083333	-26.222E-9	-0.0068447	136.89E-9
109	23K-07	148.10677	111.92097	0.00000	1.19669	-0.083333	-26.674E-9	-0.0069075	138.15E-9
109	23K-07	148.54270	111.77015	0.00000	1.19606	-0.083333	-27.125E-9	-0.0069695	139.39E-9
109	23K-07	148.97863	111.61933	0.00000	1.19534	-0.083333	-27.576E-9	-0.0070308	140.61E-9
109	23K-07	149.41457	111.46850	0.00000	1.19453	-0.083333	-28.025E-9	-0.0070911	141.82E-9
109	23K-07	149.85050	111.31767	0.00000	1.19364	-0.083333	-28.473E-9	-0.0071505	143.01E-9
109	23K-07	150.28643	111.16685	0.00000	1.19267	-0.083333	-28.918E-9	-0.0072089	144.17E-9
109	23K-07	150.72237	111.01602	0.00000	1.19162	-0.083333	-29.360E-9	-0.0072662	145.32E-9
109	23K-07	151.15830	110.86520	0.00000	1.19049	-0.083333	-29.799E-9	-0.0073224	146.44E-9
110	23K-08	151.15830	110.86520	0.00000	1.19049	-0.083333	-29.799E-9	-0.0073224	146.44E-9
110	23K-08	150.99728	110.39977	0.00000	1.19309	-0.083333	-31.573E-9	-0.0075714	151.42E-9
110	23K-08	150.83625	109.93434	0.00000	1.19512	-0.083333	-33.474E-9	-0.0078318	156.63E-9
110	23K-08	150.67523	109.46891	0.00000	1.19655	-0.083333	-35.514E-9	-0.0081042	162.08E-9
110	23K-08	150.51420	109.00348	0.00000	1.19735	-0.083333	-37.704E-9	-0.0083893	167.78E-9
110	23K-08	150.35317	108.53805	0.00000	1.19746	-0.083333	-40.056E-9	-0.0086877	173.75E-9
110	23K-08	150.19215	108.07262	0.00000	1.19685	-0.083333	-42.587E-9	-0.0090004	180.00E-9
110	23K-08	150.03113	107.60719	0.00000	1.19546	-0.083333	-45.310E-9	-0.0093281	186.56E-9
110	23K-08	149.87010	107.14176	0.00000	1.19326	-0.083333	-48.244E-9	-0.0096718	193.43E-9
110	23K-08	149.70908	106.67633	0.00000	1.19018	-0.083333	-51.407E-9	-0.010032	200.64E-9
110	23K-08	149.54805	106.21090	0.00000	1.18618	-0.083333	-54.822E-9	-0.010411	208.21E-9
110	23K-08	149.38702	105.74547	0.00000	1.18119	-0.083333	-58.511E-9	-0.010809	216.17E-9
110	23K-08	149.22600	105.28004	0.00000	1.17516	-0.083333	-62.501E-9	-0.011227	224.52E-9
110	23K-08	149.06498	104.81461	0.00000	1.16801	-0.083333	-66.820E-9	-0.011666	233.32E-9
110	23K-08	148.90395	104.34918	0.00000	1.15969	-0.083333	-71.500E-9	-0.012129	242.57E-9
110	23K-08	148.74293	103.88375	0.00000	1.15011	-0.083333	-76.578E-9	-0.012616	252.31E-9
110	23K-08	148.58190	103.41832	0.00000	1.13921	-0.083333	-82.094E-9	-0.013129	262.57E-9
110	23K-08	148.42087	102.95289	0.00000	1.12689	-0.083333	-88.092E-9	-0.013670	273.39E-9
110	23K-08	148.25985	102.48746	0.00000	1.11309	-0.083333	-94.622E-9	-0.014241	284.81E-9
110	23K-08	148.09883	102.02203	0.00000	1.09769	-0.083333	-101.74E-9	-0.014844	296.87E-9
110	23K-08	147.93780	101.55660	0.00000	1.08062	-0.083333	-109.51E-9	-0.015481	309.61E-9
111	23K-09	147.93780	101.55660	0.00000	1.08062	-0.083333	-109.51E-9	-0.015481	309.61E-9
111	23K-09	147.50289	101.71037	0.00000	1.08761	-0.083333	-106.88E-9	-0.015280	305.59E-9
111	23K-09	147.06798	101.86415	0.00000	1.09448	-0.083333	-104.26E-9	-0.015078	301.55E-9
111	23K-09	146.63308	102.01793	0.00000	1.10121	-0.083333	-101.68E-9	-0.014874	297.48E-9
111	23K-09	146.19817	102.17170	0.00000	1.10782	-0.083333	-99.111E-9	-0.014670	293.39E-9
111	23K-09	145.76326	102.32547	0.00000	1.11428	-0.083333	-96.575E-9	-0.014465	289.28E-9
111	23K-09	145.32835	102.47925	0.00000	1.12060	-0.083333	-94.069E-9	-0.014259	285.16E-9
111	23K-09	144.89344	102.63303	0.00000	1.12678	-0.083333	-91.595E-9	-0.014053	281.04E-9
111	23K-09	144.45853	102.78680	0.00000	1.13282	-0.083333	-89.154E-9	-0.013846	276.91E-9
111	23K-09	144.02362	102.94057	0.00000	1.13870	-0.083333	-86.748E-9	-0.013640	272.78E-9
111	23K-09	143.58872	103.09435	0.00000	1.14444	-0.083333	-84.379E-9	-0.013434	268.66E-9
111	23K-09	143.15381	103.24813	0.00000	1.15002	-0.083333	-82.048E-9	-0.013228	264.55E-9
111	23K-09	142.71890	103.40190	0.00000	1.15544	-0.083333	-79.756E-9	-0.013022	260.44E-9
112	23K-10	137.49760	104.66790	0.00000	1.19833	-0.083333	-60.153E-9	-0.011141	222.81E-9
112	23K-10	137.91837	104.52185	0.00000	1.19450	-0.083333	-62.018E-9	-0.011333	226.65E-9
112	23K-10	138.33915	104.37580	0.00000	1.19052	-0.083333	-63.929E-9	-0.011527	230.53E-9
112	23K-10	138.75993	104.22975	0.00000	1.18638	-0.083333	-65.886E-9	-0.011722	234.44E-9
112	23K-10	139.18070	104.08370	0.00000	1.18209	-0.083333	-67.890E-9	-0.011920	238.39E-9
112	23K-10	139.60147	103.93765	0.00000	1.17764	-0.083333	-69.939E-9	-0.012119	242.38E-9
112	23K-10	140.02225	103.79160	0.00000	1.17304	-0.083333	-72.034E-9	-0.012320	246.40E-9
112	23K-10	140.44303	103.64555	0.00000	1.16828	-0.083333	-74.175E-9	-0.012523	250.45E-9
112	23K-10	140.86380	103.49950	0.00000	1.16337	-0.083333	-76.361E-9	-0.012726	254.52E-9
112	23K-10	141.28457	103.35345	0.00000	1.15831	-0.083333	-78.591E-9	-0.012932	258.62E-9
112	23K-10	141.70535	103.20740	0.00000	1.15310	-0.083333	-80.865E-9	-0.013138	262.74E-9
112	23K-10	142.12613	103.06135	0.00000	1.14773	-0.083333	-83.182E-9	-0.013345	266.89E-9
112	23K-10	142.54690	102.91530	0.00000	1.14222	-0.083333	-85.541E-9	-0.013553	271.05E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
113	23K-11	142.54690	102.91530	0.00000	1.14222	-0.083333	-85.541E-9	-0.013553	271.05E-9
113	23K-11	142.70055	103.35893	0.00000	1.15435	-0.083333	-80.244E-9	-0.013068	261.35E-9
113	23K-11	142.85419	103.80255	0.00000	1.16520	-0.083333	-75.334E-9	-0.012605	252.10E-9
113	23K-11	143.00784	104.24618	0.00000	1.17485	-0.083333	-70.778E-9	-0.012164	243.27E-9
113	23K-11	143.16148	104.68981	0.00000	1.18336	-0.083333	-66.546E-9	-0.011742	234.84E-9
113	23K-11	143.31513	105.13344	0.00000	1.19079	-0.083333	-62.612E-9	-0.011339	226.78E-9
113	23K-11	143.46877	105.57706	0.00000	1.19721	-0.083333	-58.952E-9	-0.010954	219.08E-9
113	23K-11	143.62242	106.02069	0.00000	1.20265	-0.083333	-55.543E-9	-0.010586	211.72E-9
113	23K-11	143.77606	106.46432	0.00000	1.20719	-0.083333	-52.366E-9	-0.010234	204.67E-9
113	23K-11	143.92971	106.90795	0.00000	1.21086	-0.083333	-49.403E-9	-0.0098969	197.93E-9
113	23K-11	144.08335	107.35157	0.00000	1.21371	-0.083333	-46.637E-9	-0.0095740	191.48E-9
113	23K-11	144.23700	107.79520	0.00000	1.21580	-0.083333	-44.053E-9	-0.0092648	185.29E-9
113	23K-11	144.39065	108.23883	0.00000	1.21715	-0.083333	-41.637E-9	-0.0089684	179.36E-9
113	23K-11	144.54429	108.68245	0.00000	1.21782	-0.083333	-39.377E-9	-0.0086843	173.68E-9
113	23K-11	144.69794	109.12608	0.00000	1.21783	-0.083333	-37.261E-9	-0.0084118	168.23E-9
113	23K-11	144.85158	109.56971	0.00000	1.21723	-0.083333	-35.278E-9	-0.0081503	163.00E-9
113	23K-11	145.00523	110.01334	0.00000	1.21606	-0.083333	-33.420E-9	-0.0078993	157.98E-9
113	23K-11	145.15887	110.45696	0.00000	1.21433	-0.083333	-31.676E-9	-0.0076583	153.16E-9
113	23K-11	145.31252	110.90059	0.00000	1.21210	-0.083333	-30.040E-9	-0.0074268	148.53E-9
113	23K-11	145.46616	111.34422	0.00000	1.20938	-0.083333	-28.502E-9	-0.0072043	144.08E-9
113	23K-11	145.61981	111.78785	0.00000	1.20620	-0.083333	-27.057E-9	-0.0069905	139.81E-9
113	23K-11	145.77345	112.23147	0.00000	1.20260	-0.083333	-25.698E-9	-0.0067849	135.69E-9
113	23K-11	145.92710	112.67510	0.00000	1.19859	-0.083333	-24.420E-9	-0.0065871	131.74E-9
114	23K-12	140.75790	114.06100	0.00000	1.19884	-0.083333	-20.174E-9	-0.0059395	118.79E-9
114	23K-12	140.60286	113.61431	0.00000	1.20386	-0.083333	-21.155E-9	-0.0061053	122.10E-9
114	23K-12	140.44782	113.16762	0.00000	1.20856	-0.083333	-22.192E-9	-0.0062771	125.54E-9
114	23K-12	140.29278	112.72093	0.00000	1.21290	-0.083333	-23.290E-9	-0.0064551	129.10E-9
114	23K-12	140.13774	112.27424	0.00000	1.21687	-0.083333	-24.452E-9	-0.0066397	132.79E-9
114	23K-12	139.98270	111.82755	0.00000	1.22044	-0.083333	-25.683E-9	-0.0068311	136.62E-9
114	23K-12	139.82765	111.38085	0.00000	1.22359	-0.083333	-26.988E-9	-0.0070296	140.59E-9
114	23K-12	139.67261	110.93416	0.00000	1.22629	-0.083333	-28.371E-9	-0.0072356	144.71E-9
114	23K-12	139.51757	110.48747	0.00000	1.22851	-0.083333	-29.838E-9	-0.0074493	148.98E-9
114	23K-12	139.36253	110.04078	0.00000	1.23022	-0.083333	-31.395E-9	-0.0076712	153.42E-9
114	23K-12	139.20749	109.59409	0.00000	1.23140	-0.083333	-33.048E-9	-0.0079017	158.03E-9
114	23K-12	139.05245	109.14740	0.00000	1.23200	-0.083333	-34.804E-9	-0.0081410	162.82E-9
114	23K-12	138.89741	108.70071	0.00000	1.23201	-0.083333	-36.672E-9	-0.0083897	167.79E-9
114	23K-12	138.74237	108.25402	0.00000	1.23138	-0.083333	-38.658E-9	-0.0086482	172.96E-9
114	23K-12	138.58733	107.80733	0.00000	1.23008	-0.083333	-40.771E-9	-0.0089170	178.33E-9
114	23K-12	138.43229	107.36064	0.00000	1.22806	-0.083333	-43.022E-9	-0.0091965	183.92E-9
114	23K-12	138.27725	106.91395	0.00000	1.22529	-0.083333	-45.421E-9	-0.0094872	189.74E-9
114	23K-12	138.12220	106.46725	0.00000	1.22172	-0.083333	-47.978E-9	-0.0097898	195.79E-9
114	23K-12	137.96716	106.02056	0.00000	1.21731	-0.083333	-50.706E-9	-0.010105	202.09E-9
114	23K-12	137.81212	105.57387	0.00000	1.21201	-0.083333	-53.618E-9	-0.010433	208.65E-9
114	23K-12	137.65708	105.12718	0.00000	1.20577	-0.083333	-56.730E-9	-0.010775	215.48E-9
114	23K-12	137.50204	104.68049	0.00000	1.19854	-0.083333	-60.056E-9	-0.011131	222.60E-9
114	23K-12	137.34700	104.23380	0.00000	1.19027	-0.083333	-63.613E-9	-0.011502	230.03E-9
115	23K-13	137.34700	104.23380	0.00000	1.19027	-0.083333	-63.613E-9	-0.011502	230.03E-9
115	23K-13	136.91272	104.38802	0.00000	1.19482	-0.083333	-61.560E-9	-0.011292	225.84E-9
115	23K-13	136.47843	104.54223	0.00000	1.19860	-0.083333	-59.564E-9	-0.011086	221.71E-9
115	23K-13	136.04415	104.69645	0.00000	1.20250	-0.083333	-57.623E-9	-0.010882	217.63E-9
115	23K-13	135.60987	104.85067	0.00000	1.20622	-0.083333	-55.738E-9	-0.010680	213.60E-9
115	23K-13	135.17558	105.00488	0.00000	1.20976	-0.083333	-53.907E-9	-0.010482	209.63E-9
115	23K-13	134.74130	105.15910	0.00000	1.21312	-0.083333	-52.130E-9	-0.010286	205.72E-9
115	23K-13	134.30702	105.31332	0.00000	1.21631	-0.083333	-50.406E-9	-0.010094	201.87E-9
115	23K-13	133.87273	105.46753	0.00000	1.21932	-0.083333	-48.734E-9	-0.0099041	198.08E-9
115	23K-13	133.43845	105.62175	0.00000	1.22216	-0.083333	-47.113E-9	-0.0097173	194.34E-9
115	23K-13	133.00417	105.77597	0.00000	1.22482	-0.083333	-45.542E-9	-0.0095335	190.66E-9
115	23K-13	132.56988	105.93018	0.00000	1.22730	-0.083333	-44.020E-9	-0.0093527	187.05E-9
115	23K-13	132.13560	106.08440	0.00000	1.22962	-0.083333	-42.546E-9	-0.0091749	183.49E-9
116	23K-14	127.09450	107.39930	0.00000	1.24381	-0.083333	-30.143E-9	-0.0075552	151.10E-9
116	23K-14	127.50351	107.25771	0.00000	1.24266	-0.083333	-31.135E-9	-0.0076946	153.89E-9
116	23K-14	127.91252	107.11612	0.00000	1.24186	-0.083333	-32.160E-9	-0.0078366	156.73E-9
116	23K-14	128.32153	106.97452	0.00000	1.24091	-0.083333	-33.218E-9	-0.0079813	159.62E-9
116	23K-14	128.73053	106.83293	0.00000	1.23983	-0.083333	-34.312E-9	-0.0081286	162.57E-9
116	23K-14	129.13954	106.69134	0.00000	1.23859	-0.083333	-35.442E-9	-0.0082786	165.57E-9
116	23K-14	129.54855	106.54975	0.00000	1.23721	-0.083333	-36.608E-9	-0.0084313	168.62E-9
116	23K-14	129.95756	106.40816	0.00000	1.23569	-0.083333	-37.812E-9	-0.0085867	171.73E-9
116	23K-14	130.36657	106.26657	0.00000	1.23401	-0.083333	-39.054E-9	-0.0087448	174.89E-9
116	23K-14	130.77558	106.12497	0.00000	1.23219	-0.083333	-40.336E-9	-0.0089056	178.11E-9
116	23K-14	131.18458	105.98338	0.00000	1.23021	-0.083333	-41.659E-9	-0.0090692	181.38E-9
116	23K-14	131.59359	105.84179	0.00000	1.22809	-0.083333	-43.023E-9	-0.0092355	184.70E-9
116	23K-14	132.00260	105.70020	0.00000	1.22581	-0.083333	-44.430E-9	-0.0094045	188.08E-9
117	23K-15	132.00260	105.70020	0.00000	1.22581	-0.083333	-44.430E-9	-0.0094045	188.08E-9
117	23K-15	132.15381	106.13697	0.00000	1.23009	-0.083333	-42.295E-9	-0.0091440	182.88E-9
117	23K-15	132.30502	106.57375	0.00000	1.23360	-0.083333	-40.278E-9	-0.0088924	177.84E-9
117	23K-15	132.45623	107.01052	0.00000	1.23637	-0.083333	-38.371E-9	-0.0086493	172.98E-9
117	23K-15	132.60744	107.44729	0.00000	1.23845	-0.083333	-36.568E-9	-0.0084143	168.28E-9
117	23K-15	132.75865	107.88406	0.00000	1.23987	-0.083333	-34.861E-9	-0.0081872	163.74E-9
117	23K-15	132.90985	108.32084	0.00000	1.24067	-0.083333	-33.246E-9	-0.0079676	159.35E-9
117	23K-15	133.06106	108.75761	0.00000	1.24087	-0.083333	-31.717E-9	-0.0077553	155.10E-9
117	23K-15	133.21227	109.19438	0.00000	1.24051	-0.083333	-30.268E-9	-0.0075499	150.99E-9
117	23K-15	133.36348	109.63115	0.00000	1.23962	-0.083333	-28.896E-9	-0.0073513	147.02E-9
117	23K-15	133.51469	110.06793	0.00000	1.23823	-0.083333	-27.595E-9	-0.0071591	143.18E-9
117	23K-15	133.66590	110.50470	0.00000	1.23635	-0.083333	-26.361E-9	-0.0069731	139.46E-9
117	23K-15	133.81711	110.94147	0.00000	1.23403	-0.083333	-25.190E-9	-0.0067930	135.86E-9
117	23K-15	133.96832	111.37825	0.00000	1.23128	-0.083333	-24.080E-9	-0.0066188	132.37E-9
117	23K-15	134.11953	111.81502	0.00000	1.22813	-0.083333	-23.025E-9	-0.0064501	129.00E-9
117	23K-15	134.27074	112.25179	0.00000	1.22459	-0.083333	-22.024E-9	-0.0062867	125.73E-9
117	23K-15	134.42195	112.68856	0.00000	1.22070	-0.083333	-21.073E-9	-0.0061284	122.57E-9
117	23K-15	134.57315	113.12534	0.00000	1.21647	-0.083333	-20.169E-9	-0.0059751	119.50E-9
117	23K-15	134.72436	113.56211	0.00000	1.21191	-0.083333	-19.310E-9	-0.0058266	116.53E-9
117	23K-15	134.87557	113.99888	0.00000	1.20706	-0.083333	-18.492E-9	-0.0056826	113.65E-9
117	23K-15	135.02678	114.43565	0.00000	1.20192	-0.083333	-17.715E-9	-0.0055431	110.86E-9
117	23K-15	135.17799	114.87243	0.00000	1.19652	-0.083333	-16.975E-9	-0.0054079	108.16E-9
117	23K-15	135.32920	115.30920	0.00000	1.19086	-0.083333	-16.271E-9	-0.0052768	105.53E-9
118	23K-16	130.24640	116.47000	0.00000	1.17439	-0.083333	-12.965E-9	-0.0046510	93.019E-9
118	23K-16	130.09295	116.02838	0.00000	1.18066	-0.083333	-13.479E-9	-0.0047570	95.137E-9
118	23K-16	129.93949	115.58676	0.00000	1.18673	-0.083333	-14.016E-9	-0.0048658	97.315E-9
118	23K-16	129.78604	115.14515	0.00000	1.19259	-0.083333	-14.579E-9	-0.0049777	99.553E-9
118	23K-16	129.63258	114.70353	0.00000	1.19823	-0.083333	-15.167E-9	-0.0050928	101.85E-9
118	23K-16	129.47913	114.26191	0.00000	1.20363	-0.083333	-15.782E-9	-0.0052111	104.22E-9
118	23K-16	129.32567	113.82029	0.00000	1.20877	-0.083333	-16.425E-9	-0.0053328	106.65E-9
118	23K-16	129.17222	113.37867	0.00000	1.21364	-0.083333	-17.099E-9	-0.0054579	109.16E-9
118	23K-16	129.01876	112.93705	0.00000	1.21823	-0.083333	-17.805E-9	-0.0055866	111.73E-9
118	23K-16	128.86531	112.49544	0.00000	1.22251	-0.083333	-18.543E-9	-0.0057189	114.38E-9
118	23K-16	128.71185	112.05382	0.00000	1.22647	-0.083333	-19.317E-9	-0.0058551	117.10E-9
118	23K-16	128.55840	111.61220	0.00000	1.23009	-0.083333	-20.128E-9	-0.0059952	119.90E-9
118	23K-16	128.40495	111.17058	0.00000	1.23335	-0.083333	-20.977E-9	-0.0061393	122.78E-9
118	23K-16	128.25149	110.72896	0.00000	1.23623	-0.083333	-21.867E-9	-0.0062876	125.75E-9
118	23K-16	128.09804	110.28735	0.00000	1.23871	-0.083333	-22.801E-9	-0.0064403	128.80E-9
118	23K-16	127.94458	109.84573	0.00000	1.24076	-0.083333	-23.779E-9	-0.0065974	131.94E-9
118	23K-16	127.79113	109.40411	0.00000	1.24236	-0.083333	-24.806E-9	-0.0067591	135.18E-9
118	23K-16	127.63767	108.96249	0.00000	1.24349	-0.083333	-25.883E-9	-0.0069255	138.51E-9
118	23K-16	127.48422	108.52087	0.00000	1.24413	-0.083333	-27.013E-9	-0.0070969	141.93E-9
118	23K-16	127.33076	108.07925	0.00000	1.24424	-0.083333	-28.199E-9	-0.0072733	145.46E-9
118	23K-16	127.17731	107.63764	0.00000	1.24379	-0.083333	-29.445E-9	-0.0074549	149.09E-9
118	23K-16	127.02385	107.19602	0.00000	1.24277	-0.083333	-30.752E-9	-0.0076419	152.84E-9
118	23K-16	126.87040	106.75440	0.00000	1.24113	-0.083333	-32.126E-9	-0.0078346	156.69E-9
119	23K-17	150.73130	109.63110	0.00000	1.19612	-0.083333	-34.787E-9	-0.0080079	160.15E-9
119	23K-17	151.15679	109.48174	0.00000	1.19456	-0.083333	-35.324E-9	-0.0080718	161.43E-9
119	23K-17	151.58228	109.33238	0.00000	1.19292	-0.083333	-35.856E-9	-0.0081344	162.68E-9
119	23K-17	152.00777	109.18302	0.00000	1.19120	-0.083333	-36.384E-9	-0.0081956	163.91E-9
119	23K-17	152.43326	109.03366	0.00000	1.18941	-0.083333	-36.907E-9	-0.0082554	165.10E-9
119	23K-17	152.85875	108.88430	0.00000	1.18755	-0.083333	-37.424E-9	-0.0083137	166.27E-9
119	23K-17	153.28424	108.73494	0.00000	1.18561	-0.083333	-37.934E-9	-0.0083704	167.40E-9
119	23K-17	153.70973	108.58558	0.00000	1.18361	-0.083333	-38.437E-9	-0.0084255	168.51E-9
119	23K-17	154.13522	108.43622	0.00000	1.18154	-0.083333	-38.931E-9	-0.0084789	169.57E-9
119	23K-17	154.56071	108.28686	0.00000	1.17940	-0.083333	-39.417E-9	-0.0085304	170.60E-9
119	23K-17	154.98620	108.13750	0.00000	1.17721	-0.083333	-39.893E-9	-0.0085801	171.60E-9
120	23K-18	154.98620	108.13750	0.00000	1.17721	-0.083333	-39.893E-9	-0.0085801	171.60E-9
120	23K-18	154.84277	107.71556	0.00000	1.17660	-0.083333	-42.233E-9	-0.0088663	177.32E-9
120	23K-18	154.69935	107.29362	0.00000	1.17535	-0.083333	-44.740E-9	-0.0091655	183.30E-9
120	23K-18	154.55593	106.87168	0.00000	1.17342	-0.083333	-47.427E-9	-0.0094783	189.56E-9
120	23K-18	154.41250	106.44973	0.00000	1.17077	-0.083333	-50.310E-9	-0.0098056	196.11E-9
120	23K-18	154.26907	106.02779	0.00000	1.16736	-0.083333	-53.407E-9	-0.010148	202.96E-9
120	23K-18	154.12565	105.60585	0.00000	1.16315	-0.083333	-56.734E-9	-0.010507	210.13E-9
120	23K-18	153.98222	105.18391	0.00000	1.15808	-0.083333	-60.314E-9	-0.010883	217.64E-9
120	23K-18	153.83880	104.76197	0.00000	1.15211	-0.083333	-64.168E-9	-0.011276	225.52E-9
120	23K-18	153.69537	104.34002	0.00000	1.14519	-0.083333	-68.321E-9	-0.011690	233.79E-9
120	23K-18	153.55195	103.91808	0.00000	1.13726	-0.083333	-72.800E-9	-0.012123	242.46E-9
120	23K-18	153.40852	103.49614	0.00000	1.12826	-0.083333	-77.637E-9	-0.012579	251.56E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
120	23K-18	153.26510	103.07420	0.00000	1.11814	-0.083333	-82.864E-9	-0.013057	261.13E-9
121	23K-19	153.26510	103.07420	0.00000	1.11814	-0.083333	-82.864E-9	-0.013057	261.13E-9
121	23K-19	152.83663	103.22379	0.00000	1.12303	-0.083333	-81.545E-9	-0.012954	259.07E-9
121	23K-19	152.40816	103.37338	0.00000	1.12786	-0.083333	-80.211E-9	-0.012848	256.94E-9
121	23K-19	151.97969	103.52297	0.00000	1.13262	-0.083333	-78.864E-9	-0.012739	254.76E-9
121	23K-19	151.55122	103.67256	0.00000	1.13731	-0.083333	-77.505E-9	-0.012627	252.52E-9
121	23K-19	151.12275	103.82215	0.00000	1.14193	-0.083333	-76.138E-9	-0.012512	250.23E-9
121	23K-19	150.69428	103.97174	0.00000	1.14648	-0.083333	-74.764E-9	-0.012395	247.89E-9
121	23K-19	150.26581	104.12133	0.00000	1.15093	-0.083333	-73.384E-9	-0.012276	245.51E-9
121	23K-19	149.83734	104.27092	0.00000	1.15531	-0.083333	-72.001E-9	-0.012155	243.08E-9
121	23K-19	149.40887	104.42051	0.00000	1.15960	-0.083333	-70.616E-9	-0.012031	240.62E-9
121	23K-19	148.98040	104.57010	0.00000	1.16379	-0.083333	-69.231E-9	-0.011906	238.12E-9
122	23AB-01	147.70060	95.28400	0.00000	0.62232	-0.083333	-337.30E-9	-0.029132	582.60E-9
122	23AB-01	148.10013	95.31152	0.00000	0.62577	-0.083333	-335.31E-9	-0.029021	580.38E-9
122	23AB-01	148.49966	95.33904	0.00000	0.62933	-0.083333	-333.14E-9	-0.028899	577.94E-9
122	23AB-01	148.89919	95.36656	0.00000	0.63299	-0.083333	-330.80E-9	-0.028767	575.30E-9
122	23AB-01	149.29872	95.39408	0.00000	0.63676	-0.083333	-328.30E-9	-0.028624	572.44E-9
122	23AB-01	149.69825	95.42160	0.00000	0.64063	-0.083333	-325.63E-9	-0.028471	569.38E-9
122	23AB-01	150.09778	95.44912	0.00000	0.64461	-0.083333	-322.81E-9	-0.028308	566.12E-9
122	23AB-01	150.49731	95.47664	0.00000	0.64869	-0.083333	-319.84E-9	-0.028135	562.66E-9
122	23AB-01	150.89684	95.50416	0.00000	0.65288	-0.083333	-316.72E-9	-0.027952	559.01E-9
122	23AB-01	151.29637	95.53168	0.00000	0.65716	-0.083333	-313.47E-9	-0.027761	555.18E-9
122	23AB-01	151.69590	95.55920	0.00000	0.66155	-0.083333	-310.08E-9	-0.027560	551.16E-9
123	23AB-02	151.69590	95.55920	0.00000	0.66155	-0.083333	-310.08E-9	-0.027560	551.16E-9
123	23AB-02	151.68720	95.56780	0.00000	0.67324	-0.083333	-303.49E-9	-0.027232	544.61E-9
123	23AB-02	151.67850	95.77640	0.00000	0.68473	-0.083333	-297.06E-9	-0.026910	538.16E-9
124	23AB-03	151.67850	95.77640	0.00000	0.68473	-0.083333	-297.06E-9	-0.026910	538.16E-9
124	23AB-03	152.15639	95.81014	0.00000	0.68994	-0.083333	-293.01E-9	-0.026664	533.24E-9
124	23AB-03	152.63428	95.84388	0.00000	0.69529	-0.083333	-288.80E-9	-0.026406	528.09E-9
124	23AB-03	153.11217	95.87762	0.00000	0.70077	-0.083333	-284.43E-9	-0.026137	522.72E-9
124	23AB-03	153.59006	95.91136	0.00000	0.70638	-0.083333	-279.92E-9	-0.025858	517.12E-9
124	23AB-03	154.06795	95.94510	0.00000	0.71213	-0.083333	-275.26E-9	-0.025567	511.32E-9
124	23AB-03	154.54584	95.97884	0.00000	0.71801	-0.083333	-270.47E-9	-0.025267	505.31E-9
124	23AB-03	155.02373	96.01258	0.00000	0.72401	-0.083333	-265.55E-9	-0.024957	499.12E-9
124	23AB-03	155.50162	96.04632	0.00000	0.73014	-0.083333	-260.53E-9	-0.024639	492.74E-9
124	23AB-03	155.97951	96.08006	0.00000	0.73638	-0.083333	-255.39E-9	-0.024311	486.19E-9
124	23AB-03	156.45740	96.11380	0.00000	0.74275	-0.083333	-250.15E-9	-0.023976	479.48E-9
125	23AB-04	156.45740	96.11380	0.00000	0.74275	-0.083333	-250.15E-9	-0.023976	479.48E-9
125	23AB-04	156.48983	95.65445	0.00000	0.69912	-0.083333	-273.12E-9	-0.025166	503.29E-9
125	23AB-04	156.52226	95.19510	0.00000	0.65218	-0.083333	-298.72E-9	-0.026439	528.74E-9
125	23AB-04	156.55469	94.73575	0.00000	0.60170	-0.083333	-327.33E-9	-0.027802	556.00E-9
125	23AB-04	156.58711	94.27640	0.00000	0.54744	-0.083333	-359.37E-9	-0.029263	585.22E-9
125	23AB-04	156.61954	93.81705	0.00000	0.48915	-0.083333	-395.35E-9	-0.030832	616.60E-9
125	23AB-04	156.65197	93.35770	0.00000	0.42654	-0.083333	-435.86E-9	-0.032520	650.34E-9
125	23AB-04	156.68440	92.89835	0.00000	0.35931	-0.083333	-481.61E-9	-0.034338	686.69E-9
125	23AB-04	156.71683	92.43900	0.00000	0.28714	-0.083333	-533.40E-9	-0.036299	725.91E-9
125	23AB-04	156.74926	91.97965	0.00000	0.20964	-0.083333	-592.24E-9	-0.038418	768.29E-9
125	23AB-04	156.78169	91.52030	0.00000	0.12643	-0.083333	-659.30E-9	-0.040713	814.19E-9
125	23AB-04	156.81411	91.06095	0.00000	0.03708	-0.083333	-735.99E-9	-0.043203	863.98E-9
125	23AB-04	156.84654	90.60160	0.00000	-0.05890	-0.083333	-824.03E-9	-0.045910	918.10E-9
125	23AB-04	156.87897	90.14225	0.00000	-0.16202	-0.083333	-925.49E-9	-0.048859	977.08E-9
125	23AB-04	156.91140	89.68290	0.00000	-0.27288	-0.083333	-1.0429E-6	-0.052080	1.0415E-6
126	23AB-05	156.91140	89.68290	0.00000	-0.27288	-0.083333	-1.0429E-6	-0.052080	1.0415E-6
126	23AB-05	157.16432	89.70025	0.00000	-0.26117	-0.083333	-1.0277E-6	-0.051557	1.0310E-6
126	23AB-05	157.41725	89.71760	0.00000	-0.24933	-0.083333	-1.0125E-6	-0.051028	1.0204E-6
126	23AB-05	157.67018	89.73495	0.00000	-0.23735	-0.083333	-997.10E-9	-0.050494	1.0098E-6
126	23AB-05	157.92310	89.75230	0.00000	-0.22523	-0.083333	-981.66E-9	-0.049954	998.97E-9
127	23AB-06	157.92310	89.75230	0.00000	-0.22523	-0.083333	-981.66E-9	-0.049954	998.97E-9
127	23AB-06	157.95989	89.29643	0.00000	-0.33951	-0.083333	-1.1075E-6	-0.053252	1.0649E-6
127	23AB-06	157.99667	88.84056	0.00000	-0.46244	-0.083333	-1.2542E-6	-0.056865	1.1371E-6
127	23AB-06	158.03346	88.38469	0.00000	-0.59475	-0.083333	-1.4259E-6	-0.060834	1.2165E-6
127	23AB-06	158.07024	87.92881	0.00000	-0.73730	-0.083333	-1.6281E-6	-0.065208	1.3040E-6
127	23AB-06	158.10703	87.47294	0.00000	-0.89102	-0.083333	-1.8675E-6	-0.070043	1.4006E-6
127	23AB-06	158.14381	87.01707	0.00000	-1.05699	-0.083333	-2.1527E-6	-0.075406	1.5079E-6
127	23AB-06	158.18060	86.56120	0.00000	-1.23641	-0.083333	-2.4948E-6	-0.081376	1.6272E-6
127	23AB-06	158.21739	86.10533	0.00000	-1.43065	-0.083333	-2.9083E-6	-0.088049	1.7606E-6
127	23AB-06	158.25417	85.64946	0.00000	-1.64127	-0.083333	-3.4120E-6	-0.095541	1.9104E-6
127	23AB-06	158.29096	85.19359	0.00000	-1.87009	-0.083333	-4.0311E-6	-0.10399	2.0793E-6
127	23AB-06	158.32774	84.73771	0.00000	-2.11919	-0.083333	-4.7993E-6	-0.11357	2.2708E-6
127	23AB-06	158.36453	84.28184	0.00000	-2.39101	-0.083333	-5.7627E-6	-0.12449	2.4892E-6
127	23AB-06	158.40131	83.82597	0.00000	-2.68842	-0.083333	-6.9854E-6	-0.13703	2.7397E-6
127	23AB-06	158.43810	83.37010	0.00000	-3.01479	-0.083333	-8.5579E-6	-0.15151	3.0293E-6
128	23AB-07	158.43810	83.37010	0.00000	-3.01479	-0.083333	-8.5579E-6	-0.15151	3.0293E-6
128	23AB-07	158.01966	83.33634	0.00000	-3.07800	-0.083333	-8.8814E-6	-0.15544	3.1076E-6
128	23AB-07	157.60122	83.30258	0.00000	-3.13999	-0.083333	-9.2072E-6	-0.15931	3.1851E-6
128	23AB-07	157.18277	83.26882	0.00000	-3.20078	-0.083333	-9.5359E-6	-0.16314	3.2617E-6
128	23AB-07	156.76433	83.23507	0.00000	-3.26042	-0.083333	-9.8683E-6	-0.16693	3.3375E-6
128	23AB-07	156.34589	83.20131	0.00000	-3.31894	-0.083333	-10.205E-6	-0.17068	3.4124E-6
128	23AB-07	155.92745	83.16755	0.00000	-3.37636	-0.083333	-10.547E-6	-0.17439	3.4866E-6
128	23AB-07	155.50901	83.13379	0.00000	-3.43273	-0.083333	-10.895E-6	-0.17807	3.5600E-6
128	23AB-07	155.09057	83.10003	0.00000	-3.48808	-0.083333	-11.249E-6	-0.18171	3.6328E-6
128	23AB-07	154.67212	83.06628	0.00000	-3.54246	-0.083333	-11.611E-6	-0.18531	3.7049E-6
128	23AB-07	154.25368	83.03252	0.00000	-3.59588	-0.083333	-11.982E-6	-0.18889	3.7764E-6
128	23AB-07	153.83524	82.99876	0.00000	-3.64840	-0.083333	-12.361E-6	-0.19244	3.8473E-6
128	23AB-07	153.41680	82.96500	0.00000	-3.70004	-0.083333	-12.749E-6	-0.19596	3.9178E-6
129	23AB-08	153.41680	82.96500	0.00000	-3.70004	-0.083333	-12.749E-6	-0.19596	3.9178E-6
129	23AB-08	153.40550	83.10530	0.00000	-3.57904	-0.083333	-11.905E-6	-0.18948	3.7882E-6
129	23AB-08	153.39420	83.24560	0.00000	-3.46158	-0.083333	-11.131E-6	-0.18331	3.6649E-6
130	23AB-09	153.39420	83.24560	0.00000	-3.46158	-0.083333	-11.131E-6	-0.18331	3.6649E-6
130	23AB-09	152.92588	83.21647	0.00000	-3.50822	-0.083333	-11.461E-6	-0.18651	3.7288E-6
130	23AB-09	152.45755	83.18733	0.00000	-3.55371	-0.083333	-11.797E-6	-0.18965	3.7917E-6
130	23AB-09	151.98923	83.15820	0.00000	-3.59810	-0.083333	-12.141E-6	-0.19275	3.8535E-6
130	23AB-09	151.52090	83.12907	0.00000	-3.64142	-0.083333	-12.494E-6	-0.19579	3.9143E-6
130	23AB-09	151.05258	83.09993	0.00000	-3.68369	-0.083333	-12.854E-6	-0.19878	3.9741E-6
130	23AB-09	150.58425	83.07080	0.00000	-3.72496	-0.083333	-13.224E-6	-0.20172	4.0329E-6
130	23AB-09	150.11593	83.04167	0.00000	-3.76525	-0.083333	-13.602E-6	-0.20461	4.0905E-6
130	23AB-09	149.64760	83.01253	0.00000	-3.80457	-0.083333	-13.990E-6	-0.20743	4.1469E-6
130	23AB-09	149.17928	82.98340	0.00000	-3.84294	-0.083333	-14.387E-6	-0.21019	4.2021E-6
130	23AB-09	148.71095	82.95427	0.00000	-3.88038	-0.083333	-14.794E-6	-0.21289	4.2559E-6
130	23AB-09	148.24263	82.92513	0.00000	-3.91689	-0.083333	-15.211E-6	-0.21550	4.3083E-6
130	23AB-09	147.77430	82.89600	0.00000	-3.95248	-0.083333	-15.636E-6	-0.21804	4.3589E-6
131	23AB-10	147.77430	82.89600	0.00000	-3.95248	-0.083333	-15.636E-6	-0.21804	4.3589E-6
131	23AB-10	147.74430	83.27646	0.00000	-3.61611	-0.083333	-12.873E-6	-0.19835	3.9654E-6
131	23AB-10	147.71430	83.65693	0.00000	-3.30537	-0.083333	-10.703E-6	-0.18115	3.6217E-6
131	23AB-10	147.68430	84.03739	0.00000	-3.01758	-0.083333	-8.9789E-6	-0.16603	3.3196E-6
131	23AB-10	147.65430	84.41785	0.00000	-2.75046	-0.083333	-7.5923E-6	-0.15267	3.0525E-6
131	23AB-10	147.62430	84.79831	0.00000	-2.50203	-0.083333	-6.4659E-6	-0.14080	2.8152E-6
131	23AB-10	147.59430	85.17878	0.00000	-2.27057	-0.083333	-5.5425E-6	-0.13020	2.6034E-6
131	23AB-10	147.56430	85.55924	0.00000	-2.05458	-0.083333	-4.7791E-6	-0.12071	2.4136E-6
131	23AB-10	147.53430	85.93970	0.00000	-1.85274	-0.083333	-4.1432E-6	-0.11217	2.2428E-6
132	23AB-11	147.53430	85.93970	0.00000	-1.85274	-0.083333	-4.1432E-6	-0.11217	2.2428E-6
132	23AB-11	147.99485	85.97128	0.00000	-1.83175	-0.083333	-4.0731E-6	-0.11131	2.2258E-6
132	23AB-11	148.45540	86.00285	0.00000	-1.81014	-0.083333	-4.0017E-6	-0.11039	2.2074E-6
132	23AB-11	148.91595	86.03442	0.00000	-1.78789	-0.083333	-3.9294E-6	-0.10941	2.1877E-6
132	23AB-11	149.37650	86.06600	0.00000	-1.76500	-0.083333	-3.8563E-6	-0.10837	2.1669E-6
133	23AB-12	149.37650	86.06600	0.00000	-1.76500	-0.083333	-3.8563E-6	-0.10837	2.1669E-6
133	23AB-12	149.34380	86.54298	0.00000	-1.53712	-0.083333	-3.2617E-6	-0.099318	1.9860E-6
133	23AB-12	149.31110	87.01997	0.00000	-1.32703	-0.083333	-2.7773E-6	-0.091292	1.8255E-6
133	23AB-12	149.27840	87.49695	0.00000	-1.13303	-0.083333	-2.3794E-6	-0.084144	1.6826E-6
133	23AB-12	149.24570	87.97393	0.00000	-0.95367	-0.083333	-2.0499E-6	-0.077752	1.5548E-6
133	23AB-12	149.21300	88.45092	0.00000	-0.78764	-0.083333	-1.7752E-6	-0.072015	1.4401E-6
133	23AB-12	149.18030	88.92790	0.00000	-0.63380	-0.083333	-1.5446E-6	-0.066848	1.3368E-6
134	23AB-13	149.18030	88.92790	0.00000	-0.63380	-0.083333	-1.5446E-6	-0.066848	1.3368E-6
134	23AB-13	148.92310	88.90537	0.00000	-0.64323	-0.083333	-1.5586E-6	-0.067182	1.3435E-6
134	23AB-13	148.66590	88.88285	0.00000	-0.65253	-0.083333	-1.5724E-6	-0.067505	1.3499E-6
134	23AB-13	148.40870	88.86033	0.00000	-0.66172	-0.083333	-1.5860E-6	-0.067816	1.3561E-6
134	23AB-13	148.15150	88.83780	0.00000	-0.67078	-0.083333	-1.5994E-6	-0.068115	1.3621E-6
135	23AB-14	148.15150	88.83780	0.00000	-0.67078	-0.083333	-1.5994E-6	-0.068115	1.3621E-6
135	23AB-14	148.11929	89.29824	0.00000	-0.53012	-0.083333	-1.4020E-6	-0.063476	1.2693E-6
135	23AB-14	148.08709	89.75869	0.00000	-0.39926	-0.083333	-1.2338E-6	-0.059262	1.1851E-6
135	23AB-14	148.05488	90.21913	0.00000	-0.27743	-0.083333	-1.0899E-6	-0.055425	1.1084E-6
135	23AB-14	148.02267	90.67957	0.00000	-0.16397	-0.083333	-966.10E-9	-0.051922	1.0383E-6
135	23AB-14	147.99046	91.14001	0.00000	-0.05825	-0.083333	-859.17E-9	-0.048718	974.25E-9
135	23AB-14	147.95826	91.60046	0.00000	0.04028	-0.083333	-766.43E-9	-0.045779	915.48E-9
135	23AB-14	147.92605	92.06090	0.00000	0.13212	-0.083333	-685.69E-9	-0.043078	861.48E-9
135	23AB-14	147.89384	92.52134	0.00000	0.21775	-0.083333	-615.14E-9	-0.040591	811.75E-9
135	23AB-14	147.86164	92.98179	0.00000	0.29758	-0.083333	-553.30E-9	-0.038297	765.87E-9
135	23AB-14	147.82943	93.44223	0.00000	0.37200	-0.083333	-498.91E-9	-0.036177	723.48E-9
135	23AB-14	147.79722	93.90267	0.00000	0.44137	-0.083333	-450.92E-9	-0.034214	684.23E-9
135	23AB-14	147.76501	94.36311	0.00000	0.50602	-0.083333	-408.47E-9	-0.032394	647.84E-9
135	23AB-14	147.73281	94.82356	0.00000	0.56624	-0.083333	-370.80E-9	-0.030704	614.04E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
135	23AB-14	147.70060	95.28400	0.00000	0.62232	-0.083333	-337.30E-9	-0.029132	582.60E-9
136	23AB-15	149.18030	88.92790	0.00000	-0.63380	-0.083333	-1.5446E-6	-0.066848	1.3368E-6
136	23AB-15	149.66150	88.97496	0.00000	-0.61433	-0.083333	-1.5157E-6	-0.066144	1.3227E-6
136	23AB-15	150.14270	89.02201	0.00000	-0.59446	-0.083333	-1.4863E-6	-0.065403	1.3079E-6
136	23AB-15	150.62390	89.06907	0.00000	-0.57419	-0.083333	-1.4564E-6	-0.064629	1.2924E-6
136	23AB-15	151.10510	89.11612	0.00000	-0.55353	-0.083333	-1.4262E-6	-0.063823	1.2763E-6
136	23AB-15	151.58630	89.16318	0.00000	-0.53247	-0.083333	-1.3956E-6	-0.062986	1.2596E-6
136	23AB-15	152.06750	89.21024	0.00000	-0.51101	-0.083333	-1.3647E-6	-0.062120	1.2422E-6
136	23AB-15	152.54870	89.25729	0.00000	-0.48916	-0.083333	-1.3335E-6	-0.061227	1.2244E-6
136	23AB-15	153.02990	89.30435	0.00000	-0.46690	-0.083333	-1.3021E-6	-0.060307	1.2060E-6
136	23AB-15	153.51110	89.35141	0.00000	-0.44423	-0.083333	-1.2705E-6	-0.059361	1.1871E-6
136	23AB-15	153.99230	89.39846	0.00000	-0.42116	-0.083333	-1.2387E-6	-0.058392	1.1677E-6
136	23AB-15	154.47350	89.44552	0.00000	-0.39769	-0.083333	-1.2068E-6	-0.057401	1.1479E-6
136	23AB-15	154.95470	89.49258	0.00000	-0.37382	-0.083333	-1.1746E-6	-0.056387	1.1276E-6
136	23AB-15	155.43590	89.53963	0.00000	-0.34954	-0.083333	-1.1424E-6	-0.055354	1.1069E-6
136	23AB-15	155.91710	89.58669	0.00000	-0.32486	-0.083333	-1.1099E-6	-0.054302	1.0859E-6
136	23AB-15	156.39830	89.63374	0.00000	-0.29979	-0.083333	-1.0774E-6	-0.053232	1.0645E-6
136	23AB-15	156.87950	89.68080	0.00000	-0.27433	-0.083333	-1.0448E-6	-0.052145	1.0428E-6
137	28K-01	157.04370	132.95660	0.00000	0.83062	-0.083333	-3.4184E-9	-0.0020853	41.705E-9
137	28K-01	157.45751	132.74754	0.00000	0.83229	-0.083333	-3.4568E-9	-0.0020976	41.952E-9
137	28K-01	157.87132	132.53848	0.00000	0.83392	-0.083333	-3.4949E-9	-0.0021099	42.198E-9
137	28K-01	158.28512	132.32941	0.00000	0.83550	-0.083333	-3.5330E-9	-0.0021220	42.440E-9
137	28K-01	158.69893	132.12035	0.00000	0.83705	-0.083333	-3.5708E-9	-0.0021340	42.679E-9
137	28K-01	159.11274	131.91129	0.00000	0.83855	-0.083333	-3.6085E-9	-0.0021458	42.916E-9
137	28K-01	159.52655	131.70222	0.00000	0.84002	-0.083333	-3.6459E-9	-0.0021575	43.149E-9
137	28K-01	159.94036	131.49316	0.00000	0.84143	-0.083333	-3.6831E-9	-0.0021689	43.378E-9
137	28K-01	160.35417	131.28410	0.00000	0.84281	-0.083333	-3.7200E-9	-0.0021803	43.605E-9
137	28K-01	160.76798	131.07504	0.00000	0.84414	-0.083333	-3.7566E-9	-0.0021914	43.828E-9
137	28K-01	161.18178	130.86597	0.00000	0.84543	-0.083333	-3.7929E-9	-0.0022023	44.046E-9
137	28K-01	161.59559	130.65691	0.00000	0.84667	-0.083333	-3.8287E-9	-0.0022131	44.262E-9
137	28K-01	162.00940	130.44785	0.00000	0.84787	-0.083333	-3.8643E-9	-0.0022237	44.473E-9
137	28K-01	162.42321	130.23879	0.00000	0.84902	-0.083333	-3.8994E-9	-0.0022340	44.680E-9
137	28K-01	162.83702	130.02973	0.00000	0.85012	-0.083333	-3.9340E-9	-0.0022441	44.882E-9
137	28K-01	163.25082	129.82066	0.00000	0.85118	-0.083333	-3.9682E-9	-0.0022540	45.080E-9
137	28K-01	163.66463	129.61160	0.00000	0.85220	-0.083333	-4.0019E-9	-0.0022637	45.274E-9
137	28K-01	164.07844	129.40254	0.00000	0.85316	-0.083333	-4.0350E-9	-0.0022732	45.463E-9
137	28K-01	164.49225	129.19348	0.00000	0.85408	-0.083333	-4.0676E-9	-0.0022824	45.647E-9
137	28K-01	164.90606	128.98441	0.00000	0.85496	-0.083333	-4.0996E-9	-0.0022913	45.826E-9
137	28K-01	165.31987	128.77535	0.00000	0.85578	-0.083333	-4.1310E-9	-0.0023000	46.000E-9
137	28K-01	165.73368	128.56629	0.00000	0.85656	-0.083333	-4.1617E-9	-0.0023084	46.168E-9
137	28K-01	166.14748	128.35722	0.00000	0.85729	-0.083333	-4.1918E-9	-0.0023166	46.332E-9
137	28K-01	166.56129	128.14816	0.00000	0.85797	-0.083333	-4.2212E-9	-0.0023245	46.490E-9
137	28K-01	166.97510	127.93910	0.00000	0.85860	-0.083333	-4.2498E-9	-0.0023321	46.642E-9
138	28K-02	166.97510	127.93910	0.00000	0.85860	-0.083333	-4.2498E-9	-0.0023321	46.642E-9
138	28K-02	166.97510	127.46931	0.00000	0.86618	-0.083333	-4.4098E-9	-0.0023820	47.639E-9
138	28K-02	166.97510	126.99953	0.00000	0.87378	-0.083333	-4.5770E-9	-0.0024333	48.666E-9
138	28K-02	166.97510	126.52974	0.00000	0.88139	-0.083333	-4.7520E-9	-0.0024862	49.723E-9
138	28K-02	166.97510	126.05995	0.00000	0.88900	-0.083333	-4.9351E-9	-0.0025405	50.810E-9
138	28K-02	166.97510	125.59016	0.00000	0.89662	-0.083333	-5.1268E-9	-0.0025965	51.930E-9
138	28K-02	166.97510	125.12037	0.00000	0.90424	-0.083333	-5.3275E-9	-0.0026542	53.083E-9
138	28K-02	166.97510	124.65059	0.00000	0.91185	-0.083333	-5.5378E-9	-0.0027136	54.271E-9
138	28K-02	166.97510	124.18080	0.00000	0.91944	-0.083333	-5.7582E-9	-0.0027748	55.495E-9
139	28K-03	166.97510	124.18080	0.00000	0.91944	-0.083333	-5.7582E-9	-0.0027748	55.495E-9
139	28K-03	166.75082	123.73688	0.00000	0.92824	-0.083333	-6.0114E-9	-0.0028449	56.897E-9
139	28K-03	166.52654	123.29296	0.00000	0.93703	-0.083333	-6.2782E-9	-0.0029174	58.348E-9
139	28K-03	166.30227	122.84903	0.00000	0.94581	-0.083333	-6.5594E-9	-0.0029925	59.849E-9
139	28K-03	166.07799	122.40511	0.00000	0.95459	-0.083333	-6.8557E-9	-0.0030701	61.402E-9
139	28K-03	165.85371	121.96119	0.00000	0.96334	-0.083333	-7.1684E-9	-0.0031505	63.009E-9
139	28K-03	165.62943	121.51727	0.00000	0.97206	-0.083333	-7.4983E-9	-0.0032337	64.674E-9
139	28K-03	165.40516	121.07334	0.00000	0.98074	-0.083333	-7.8465E-9	-0.0033199	66.398E-9
139	28K-03	165.18088	120.62942	0.00000	0.98939	-0.083333	-8.2144E-9	-0.0034092	68.184E-9
139	28K-03	164.95660	120.18550	0.00000	0.99798	-0.083333	-8.6032E-9	-0.0035018	70.035E-9
139	28K-03	164.73232	119.74158	0.00000	1.00651	-0.083333	-9.0142E-9	-0.0035978	71.954E-9
139	28K-03	164.50804	119.29766	0.00000	1.01496	-0.083333	-9.4491E-9	-0.0036973	73.944E-9
139	28K-03	164.28377	118.85373	0.00000	1.02334	-0.083333	-9.9093E-9	-0.0038005	76.009E-9
139	28K-03	164.05949	118.40981	0.00000	1.03162	-0.083333	-10.397E-9	-0.0039076	78.152E-9
139	28K-03	163.83521	117.96589	0.00000	1.03979	-0.083333	-10.913E-9	-0.0040189	80.376E-9
139	28K-03	163.61093	117.52197	0.00000	1.04785	-0.083333	-11.461E-9	-0.0041343	82.686E-9
139	28K-03	163.38666	117.07804	0.00000	1.05578	-0.083333	-12.041E-9	-0.0042543	85.085E-9
139	28K-03	163.16238	116.63412	0.00000	1.06357	-0.083333	-12.657E-9	-0.0043790	87.578E-9
139	28K-03	162.93810	116.19020	0.00000	1.07120	-0.083333	-13.312E-9	-0.0045086	90.170E-9
140	28K-04	162.93810	116.19020	0.00000	1.07120	-0.083333	-13.312E-9	-0.0045086	90.170E-9
140	28K-04	162.50474	116.40034	0.00000	1.07139	-0.083333	-13.184E-9	-0.0044880	89.759E-9
140	28K-04	162.07139	116.61048	0.00000	1.07151	-0.083333	-13.053E-9	-0.0044666	89.330E-9
140	28K-04	161.63803	116.82061	0.00000	1.07156	-0.083333	-12.919E-9	-0.0044443	88.885E-9
140	28K-04	161.20468	117.03075	0.00000	1.07153	-0.083333	-12.782E-9	-0.0044213	88.424E-9
140	28K-04	160.77132	117.24089	0.00000	1.07143	-0.083333	-12.642E-9	-0.0043974	87.947E-9
140	28K-04	160.33796	117.45103	0.00000	1.07126	-0.083333	-12.500E-9	-0.0043728	87.455E-9
140	28K-04	159.90461	117.66116	0.00000	1.07101	-0.083333	-12.356E-9	-0.0043475	86.949E-9
140	28K-04	159.47125	117.87130	0.00000	1.07068	-0.083333	-12.209E-9	-0.0043215	86.428E-9
140	28K-04	159.03789	118.08144	0.00000	1.07028	-0.083333	-12.060E-9	-0.0042948	85.895E-9
140	28K-04	158.60454	118.29158	0.00000	1.06981	-0.083333	-11.910E-9	-0.0042675	85.348E-9
140	28K-04	158.17118	118.50171	0.00000	1.06925	-0.083333	-11.758E-9	-0.0042396	84.790E-9
140	28K-04	157.73782	118.71185	0.00000	1.06863	-0.083333	-11.605E-9	-0.0042111	84.220E-9
140	28K-04	157.30447	118.92199	0.00000	1.06792	-0.083333	-11.450E-9	-0.0041820	83.639E-9
140	28K-04	156.87111	119.13213	0.00000	1.06714	-0.083333	-11.294E-9	-0.0041524	83.047E-9
140	28K-04	156.43776	119.34226	0.00000	1.06629	-0.083333	-11.138E-9	-0.0041223	82.445E-9
140	28K-04	156.00440	119.55240	0.00000	1.06535	-0.083333	-10.980E-9	-0.0040918	81.834E-9
141	28K-05	156.00440	119.55240	0.00000	1.06535	-0.083333	-10.980E-9	-0.0040918	81.834E-9
141	28K-05	156.20647	119.96402	0.00000	1.05766	-0.083333	-10.519E-9	-0.0039908	79.815E-9
141	28K-05	156.40854	120.37564	0.00000	1.04988	-0.083333	-10.081E-9	-0.0038930	77.860E-9
141	28K-05	156.61061	120.78726	0.00000	1.04203	-0.083333	-9.6643E-9	-0.0037984	75.967E-9
141	28K-05	156.81268	121.19888	0.00000	1.03411	-0.083333	-9.2678E-9	-0.0037068	74.135E-9
141	28K-05	157.01474	121.61049	0.00000	1.02614	-0.083333	-8.8905E-9	-0.0036181	72.360E-9
141	28K-05	157.21681	122.02211	0.00000	1.01811	-0.083333	-8.5312E-9	-0.0035321	70.641E-9
141	28K-05	157.41888	122.43373	0.00000	1.01004	-0.083333	-8.1890E-9	-0.0034488	68.975E-9
141	28K-05	157.62095	122.84535	0.00000	1.00193	-0.083333	-7.8630E-9	-0.0033681	67.361E-9
141	28K-05	157.82302	123.25697	0.00000	0.99379	-0.083333	-7.5522E-9	-0.0032898	65.796E-9
141	28K-05	158.02509	123.66859	0.00000	0.98562	-0.083333	-7.2560E-9	-0.0032140	64.278E-9
141	28K-05	158.22716	124.08021	0.00000	0.97743	-0.083333	-6.9734E-9	-0.0031404	62.807E-9
141	28K-05	158.42923	124.49183	0.00000	0.96923	-0.083333	-6.7038E-9	-0.0030690	61.379E-9
141	28K-05	158.63129	124.90344	0.00000	0.96102	-0.083333	-6.4465E-9	-0.0029997	59.994E-9
141	28K-05	158.83336	125.31506	0.00000	0.95280	-0.083333	-6.2008E-9	-0.0029325	58.650E-9
141	28K-05	159.03543	125.72668	0.00000	0.94458	-0.083333	-5.9662E-9	-0.0028673	57.346E-9
141	28K-05	159.23750	126.13830	0.00000	0.93637	-0.083333	-5.7421E-9	-0.0028040	56.079E-9
142	28K-06	159.23750	126.13830	0.00000	0.93637	-0.083333	-5.7421E-9	-0.0028040	56.079E-9
142	28K-06	158.79330	126.35637	0.00000	0.93506	-0.083333	-5.6762E-9	-0.0027872	55.744E-9
142	28K-06	158.34910	126.57444	0.00000	0.93370	-0.083333	-5.6098E-9	-0.0027702	55.403E-9
142	28K-06	157.90490	126.79251	0.00000	0.93227	-0.083333	-5.5428E-9	-0.0027529	55.056E-9
142	28K-06	157.46070	127.01058	0.00000	0.93078	-0.083333	-5.4754E-9	-0.0027352	54.704E-9
142	28K-06	157.01650	127.22865	0.00000	0.92924	-0.083333	-5.4076E-9	-0.0027174	54.347E-9
142	28K-06	156.57230	127.44672	0.00000	0.92763	-0.083333	-5.3395E-9	-0.0026993	53.985E-9
142	28K-06	156.12810	127.66479	0.00000	0.92597	-0.083333	-5.2711E-9	-0.0026809	53.617E-9
142	28K-06	155.68390	127.88286	0.00000	0.92425	-0.083333	-5.2024E-9	-0.0026623	53.246E-9
142	28K-06	155.23970	128.10093	0.00000	0.92247	-0.083333	-5.1336E-9	-0.0026436	52.870E-9
142	28K-06	154.79550	128.31900	0.00000	0.92064	-0.083333	-5.0647E-9	-0.0026246	52.491E-9
143	28K-07	154.79550	128.31900	0.00000	0.92064	-0.083333	-5.0647E-9	-0.0026246	52.491E-9
143	28K-07	154.98285	128.70547	0.00000	0.91299	-0.083333	-4.8961E-9	-0.0025731	51.462E-9
143	28K-07	155.17020	129.09193	0.00000	0.90537	-0.083333	-4.7341E-9	-0.0025229	50.458E-9
143	28K-07	155.35755	129.47840	0.00000	0.89776	-0.083333	-4.5784E-9	-0.0024741	49.481E-9
143	28K-07	155.54490	129.86487	0.00000	0.89018	-0.083333	-4.4287E-9	-0.0024264	48.528E-9
143	28K-07	155.73225	130.25133	0.00000	0.88263	-0.083333	-4.2847E-9	-0.0023799	47.598E-9
143	28K-07	155.91960	130.63780	0.00000	0.87510	-0.083333	-4.1463E-9	-0.0023346	46.692E-9
143	28K-07	156.10695	131.02427	0.00000	0.86760	-0.083333	-4.0131E-9	-0.0022905	45.809E-9
143	28K-07	156.29430	131.41073	0.00000	0.86013	-0.083333	-3.8849E-9	-0.0022474	44.947E-9
143	28K-07	156.48165	131.79720	0.00000	0.85270	-0.083333	-3.7616E-9	-0.0022053	44.106E-9
143	28K-07	156.66900	132.18367	0.00000	0.84530	-0.083333	-3.6429E-9	-0.0021643	43.286E-9
143	28K-07	156.85635	132.57013	0.00000	0.83794	-0.083333	-3.5285E-9	-0.0021243	42.486E-9
143	28K-07	157.04370	132.95660	0.00000	0.83062	-0.083333	-3.4184E-9	-0.0020853	41.705E-9

Results : Consolidation : Displacement Data : Lines

None

Results : Total : Displacement Data : Lines

None

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]

Results : Immediate : Displacement Data : Grids

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
1	A	0.00000	0.00000	0.00000	0.37370	-0.12500	-381.42E-12	-378.92E-6	7.5784E-9
1	A	5.09524	0.00000	0.00000	0.40486	-0.12500	-436.65E-12	-412.16E-6	8.2431E-9
1	A	10.19048	0.00000	0.00000	0.43858	-0.12500	-498.56E-12	-448.16E-6	8.9631E-9
1	A	15.28571	0.00000	0.00000	0.47495	-0.12500	-567.51E-12	-487.06E-6	9.7411E-9
1	A	20.38095	0.00000	0.00000	0.51405	-0.12500	-643.91E-12	-529.01E-6	10.580E-9
1	A	25.47619	0.00000	0.00000	0.55590	-0.12500	-728.24E-12	-574.19E-6	11.484E-9
1	A	30.57143	0.00000	0.00000	0.60050	-0.12500	-821.26E-12	-622.86E-6	12.457E-9
1	A	35.66667	0.00000	0.00000	0.64780	-0.12500	-924.26E-12	-675.35E-6	13.507E-9
1	A	40.76190	0.00000	0.00000	0.69773	-0.12500	-1.0393E-9	-732.15E-6	14.643E-9
1	A	45.85714	0.00000	0.00000	0.75017	-0.12500	-1.1695E-9	-793.90E-6	15.878E-9
1	A	50.95238	0.00000	0.00000	0.80503	-0.12500	-1.3196E-9	-861.47E-6	17.229E-9
1	A	56.04762	0.00000	0.00000	0.86219	-0.12500	-1.4959E-9	-935.90E-6	18.718E-9
1	A	61.14286	0.00000	0.00000	0.92155	-0.12500	-1.7068E-9	-0.0010185	20.369E-9
1	A	66.23810	0.00000	0.00000	0.98296	-0.12500	-1.9626E-9	-0.0011105	22.210E-9
1	A	71.33333	0.00000	0.00000	1.04628	-0.12500	-2.2756E-9	-0.0012136	24.271E-9
1	A	76.42857	0.00000	0.00000	1.11125	-0.12500	-2.6591E-9	-0.0013288	26.577E-9
1	A	81.52381	0.00000	0.00000	1.17753	-0.12500	-3.1270E-9	-0.0014574	29.147E-9
1	A	86.61905	0.00000	0.00000	1.24458	-0.12500	-3.6914E-9	-0.0015995	31.990E-9
1	A	91.71429	0.00000	0.00000	1.31169	-0.12500	-4.3600E-9	-0.0017547	35.093E-9
1	A	96.80952	0.00000	0.00000	1.37792	-0.12500	-5.1324E-9	-0.0019209	38.417E-9
1	A	101.90476	0.00000	0.00000	1.44214	-0.12500	-5.9949E-9	-0.0020944	41.888E-9
1	A	107.00000	0.00000	0.00000	0.84653	-0.083333	-2.0493E-9	-0.0015131	30.261E-9
1	A	0.00000	5.00000	0.00000	0.39508	-0.12500	-447.97E-12	-409.27E-6	8.1853E-9
1	A	5.09524	5.00000	0.00000	0.42927	-0.12500	-516.87E-12	-446.95E-6	8.9389E-9
1	A	10.19048	5.00000	0.00000	0.46640	-0.12500	-594.52E-12	-487.90E-6	9.7579E-9
1	A	15.28571	5.00000	0.00000	0.50660	-0.12500	-681.26E-12	-532.25E-6	10.645E-9
1	A	20.38095	5.00000	0.00000	0.54994	-0.12500	-777.38E-12	-580.15E-6	11.603E-9
1	A	25.47619	5.00000	0.00000	0.59648	-0.12500	-883.23E-12	-631.77E-6	12.635E-9
1	A	30.57143	5.00000	0.00000	0.64620	-0.12500	-999.33E-12	-687.36E-6	13.747E-9
1	A	35.66667	5.00000	0.00000	0.69904	-0.12500	-1.1269E-9	-747.30E-6	14.946E-9
1	A	40.76190	5.00000	0.00000	0.75491	-0.12500	-1.2682E-9	-812.14E-6	16.243E-9
1	A	45.85714	5.00000	0.00000	0.81369	-0.12500	-1.4272E-9	-882.72E-6	17.654E-9
1	A	50.95238	5.00000	0.00000	0.87528	-0.12500	-1.6101E-9	-960.18E-6	19.203E-9
1	A	56.04762	5.00000	0.00000	0.93960	-0.12500	-1.8262E-9	-0.0010460	20.920E-9
1	A	61.14286	5.00000	0.00000	1.00660	-0.12500	-2.0880E-9	-0.0011421	22.841E-9
1	A	66.23810	5.00000	0.00000	1.07623	-0.12500	-2.4118E-9	-0.0012505	25.011E-9
1	A	71.33333	5.00000	0.00000	1.14839	-0.12500	-2.8176E-9	-0.0013738	27.475E-9
1	A	76.42857	5.00000	0.00000	1.22287	-0.12500	-3.3292E-9	-0.0015142	30.283E-9
1	A	81.52381	5.00000	0.00000	1.29930	-0.12500	-3.9724E-9	-0.0016738	33.476E-9
1	A	86.61905	5.00000	0.00000	1.37705	-0.12500	-4.7733E-9	-0.0018542	37.082E-9
1	A	91.71429	5.00000	0.00000	1.45525	-0.12500	-5.7535E-9	-0.0020554	41.107E-9
1	A	96.80952	5.00000	0.00000	1.53277	-0.12500	-6.9234E-9	-0.0022758	45.516E-9
1	A	101.90476	5.00000	0.00000	1.60820	-0.12500	-8.2723E-9	-0.0025110	50.219E-9
1	A	107.00000	5.00000	0.00000	0.92999	-0.083333	-2.8910E-9	-0.0018355	36.710E-9
1	A	0.00000	10.00000	0.00000	0.41712	-0.12500	-530.39E-12	-443.06E-6	8.8612E-9
1	A	5.09524	10.00000	0.00000	0.45453	-0.12500	-617.67E-12	-486.05E-6	9.7209E-9
1	A	10.19048	10.00000	0.00000	0.49532	-0.12500	-716.74E-12	-532.94E-6	10.659E-9
1	A	15.28571	10.00000	0.00000	0.53964	-0.12500	-827.98E-12	-583.87E-6	11.677E-9
1	A	20.38095	10.00000	0.00000	0.58757	-0.12500	-951.43E-12	-638.95E-6	12.779E-9
1	A	25.47619	10.00000	0.00000	0.63916	-0.12500	-1.0870E-9	-698.31E-6	13.966E-9
1	A	30.57143	10.00000	0.00000	0.69437	-0.12500	-1.2347E-9	-762.16E-6	15.243E-9
1	A	35.66667	10.00000	0.00000	0.75313	-0.12500	-1.3951E-9	-830.85E-6	16.617E-9
1	A	40.76190	10.00000	0.00000	0.81529	-0.12500	-1.5704E-9	-905.00E-6	18.100E-9
1	A	45.85714	10.00000	0.00000	0.88072	-0.12500	-1.7652E-9	-985.60E-6	19.712E-9
1	A	50.95238	10.00000	0.00000	0.94933	-0.12500	-1.9875E-9	-0.0010741	21.483E-9
1	A	56.04762	10.00000	0.00000	1.02109	-0.12500	-2.2503E-9	-0.0011727	23.454E-9
1	A	61.14286	10.00000	0.00000	1.09610	-0.12500	-2.5723E-9	-0.0012839	25.678E-9
1	A	66.23810	10.00000	0.00000	1.17449	-0.12500	-2.9788E-9	-0.0014111	28.222E-9
1	A	71.33333	10.00000	0.00000	1.25630	-0.12500	-3.5027E-9	-0.0015581	31.161E-9
1	A	76.42857	10.00000	0.00000	1.34140	-0.12500	-4.1843E-9	-0.0017288	34.576E-9
1	A	81.52381	10.00000	0.00000	1.42933	-0.12500	-5.0715E-9	-0.0019274	38.548E-9
1	A	86.61905	10.00000	0.00000	1.51928	-0.12500	-6.2171E-9	-0.0021573	43.145E-9
1	A	91.71429	10.00000	0.00000	1.61011	-0.12500	-7.6734E-9	-0.0024205	48.408E-9
1	A	96.80952	10.00000	0.00000	1.70033	-0.12500	-9.4806E-9	-0.0027164	54.326E-9
1	A	101.90476	10.00000	0.00000	1.78818	-0.12500	-11.647E-9	-0.0030405	60.808E-9
1	A	107.00000	10.00000	0.00000	1.01421	-0.083333	-4.1846E-9	-0.0022551	45.102E-9
1	A	0.00000	15.00000	0.00000	0.43964	-0.12500	-633.42E-12	-480.90E-6	9.6180E-9
1	A	5.09524	15.00000	0.00000	0.48047	-0.12500	-745.83E-12	-530.29E-6	10.606E-9
1	A	10.19048	15.00000	0.00000	0.52515	-0.12500	-874.79E-12	-584.44E-6	11.689E-9
1	A	15.28571	15.00000	0.00000	0.57384	-0.12500	-1.0207E-9	-643.45E-6	12.869E-9
1	A	20.38095	15.00000	0.00000	0.62664	-0.12500	-1.1832E-9	-707.39E-6	14.148E-9
1	A	25.47619	15.00000	0.00000	0.68358	-0.12500	-1.3615E-9	-776.28E-6	15.526E-9
1	A	30.57143	15.00000	0.00000	0.74457	-0.12500	-1.5543E-9	-850.20E-6	17.004E-9
1	A	35.66667	15.00000	0.00000	0.80945	-0.12500	-1.7606E-9	-929.39E-6	18.588E-9
1	A	40.76190	15.00000	0.00000	0.87799	-0.12500	-1.9816E-9	-0.0010144	20.289E-9
1	A	45.85714	15.00000	0.00000	0.94999	-0.12500	-2.2217E-9	-0.0011065	22.129E-9
1	A	50.95238	15.00000	0.00000	1.02535	-0.12500	-2.4909E-9	-0.0012073	24.146E-9
1	A	56.04762	15.00000	0.00000	1.10423	-0.12500	-2.8070E-9	-0.0013197	26.394E-9
1	A	61.14286	15.00000	0.00000	1.18700	-0.12500	-3.1974E-9	-0.0014476	28.951E-9
1	A	66.23810	15.00000	0.00000	1.27423	-0.12500	-3.7012E-9	-0.0015957	31.913E-9
1	A	71.33333	15.00000	0.00000	1.36631	-0.12500	-4.3709E-9	-0.0017699	35.397E-9
1	A	76.42857	15.00000	0.00000	1.46323	-0.12500	-5.2746E-9	-0.0019769	39.538E-9
1	A	81.52381	15.00000	0.00000	1.56432	-0.12500	-6.4985E-9	-0.0022239	44.477E-9
1	A	86.61905	15.00000	0.00000	1.66832	-0.12500	-8.1463E-9	-0.0025178	50.354E-9
1	A	91.71429	15.00000	0.00000	1.77345	-0.12500	-10.335E-9	-0.0028643	57.286E-9
1	A	96.80952	15.00000	0.00000	1.87764	-0.12500	-13.181E-9	-0.0032663	65.325E-9
1	A	101.90476	15.00000	0.00000	1.97857	-0.12500	-16.760E-9	-0.0037208	74.415E-9
1	A	107.00000	15.00000	0.00000	1.09371	-0.083333	-6.2371E-9	-0.0028105	56.210E-9
1	A	0.00000	20.00000	0.00000	0.46243	-0.12500	-763.27E-12	-523.47E-6	10.469E-9
1	A	5.09524	20.00000	0.00000	0.50685	-0.12500	-910.71E-12	-580.72E-6	11.614E-9
1	A	10.19048	20.00000	0.00000	0.55560	-0.12500	-1.0822E-9	-643.87E-6	12.877E-9
1	A	15.28571	20.00000	0.00000	0.60887	-0.12500	-1.2786E-9	-713.04E-6	14.261E-9
1	A	20.38095	20.00000	0.00000	0.66675	-0.12500	-1.4991E-9	-788.19E-6	15.764E-9
1	A	25.47619	20.00000	0.00000	0.72921	-0.12500	-1.7413E-9	-869.15E-6	17.383E-9
1	A	30.57143	20.00000	0.00000	0.79606	-0.12500	-2.0016E-9	-955.74E-6	19.115E-9
1	A	35.66667	20.00000	0.00000	0.86695	-0.12500	-2.2757E-9	-0.0010479	20.958E-9
1	A	40.76190	20.00000	0.00000	0.94144	-0.12500	-2.5614E-9	-0.0011460	22.920E-9
1	A	45.85714	20.00000	0.00000	1.01912	-0.12500	-2.8611E-9	-0.0012511	25.022E-9
1	A	50.95238	20.00000	0.00000	1.09987	-0.12500	-3.1861E-9	-0.0013655	27.309E-9
1	A	56.04762	20.00000	0.00000	1.18410	-0.12500	-3.5600E-9	-0.0014927	29.853E-9
1	A	61.14286	20.00000	0.00000	1.27293	-0.12500	-4.0226E-9	-0.0016380	32.760E-9
1	A	66.23810	20.00000	0.00000	1.36793	-0.12500	-4.6332E-9	-0.0018086	36.171E-9
1	A	71.33333	20.00000	0.00000	1.47044	-0.12500	-5.4751E-9	-0.0020132	40.263E-9
1	A	76.42857	20.00000	0.00000	1.58072	-0.12500	-6.6611E-9	-0.0022625	45.248E-9
1	A	81.52381	20.00000	0.00000	1.69751	-0.12500	-8.3421E-9	-0.0025685	51.369E-9
1	A	86.61905	20.00000	0.00000	1.81829	-0.12500	-10.716E-9	-0.0029445	58.888E-9
1	A	91.71429	20.00000	0.00000	1.93989	-0.12500	-14.035E-9	-0.0034033	68.064E-9
1	A	96.80952	20.00000	0.00000	2.05901	-0.12500	-18.592E-9	-0.0039553	79.104E-9
1	A	101.90476	20.00000	0.00000	2.17244	-0.12500	-24.673E-9	-0.0046040	92.077E-9
1	A	107.00000	20.00000	0.00000	1.15937	-0.083333	-9.6079E-9	-0.0035592	71.182E-9
1	A	0.00000	25.00000	0.00000	0.48525	-0.12500	-928.11E-12	-571.57E-6	11.431E-9
1	A	5.09524	25.00000	0.00000	0.53335	-0.12500	-1.1250E-9	-638.57E-6	12.771E-9
1	A	10.19048	25.00000	0.00000	0.58629	-0.12500	-1.3585E-9	-713.13E-6	14.262E-9
1	A	15.28571	25.00000	0.00000	0.64427	-0.12500	-1.6303E-9	-795.36E-6	15.907E-9
1	A	20.38095	25.00000	0.00000	0.70732	-0.12500	-1.9396E-9	-885.09E-6	17.702E-9
1	A	25.47619	25.00000	0.00000	0.77529	-0.12500	-2.2819E-9	-981.87E-6	19.637E-9
1	A	30.57143	25.00000	0.00000	0.84777	-0.12500	-2.6488E-9	-0.0010850	21.700E-9
1	A	35.66667	25.00000	0.00000	0.92402	-0.12500	-3.0293E-9	-0.0011939	23.877E-9
1	A	40.76190	25.00000	0.00000	1.00310	-0.12500	-3.4131E-9	-0.0013081	26.163E-9
1	A	45.85714	25.00000	0.00000	1.08404	-0.12500	-3.7963E-9	-0.0014287	28.573E-9
1	A	50.95238	25.00000	0.00000	1.16640	-0.12500	-4.1883E-9	-0.0015577	31.154E-9
1	A	56.04762	25.00000	0.00000	1.25102	-0.12500	-4.6193E-9	-0.0017000	33.999E-9
1	A	61.14286	25.00000	0.00000	1.34060	-0.12500	-5.1464E-9	-0.0018626	37.252E-9
1	A	66.23810	25.00000	0.00000	1.43941	-0.12500	-5.8596E-9	-0.0020557	41.114E-9
1	A	71.33333	25.00000	0.00000	1.55142	-0.12500	-6.8888E-9	-0.0022925	45.849E-9
1	A	76.42857	25.00000	0.00000	1.67776	-0.12500	-8.4169E-9	-0.0025893	51.785E-9
1	A	81.52381	25.00000	0.00000	1.81542	-0.12500	-10.702E-9	-0.0029658	59.314E-9
1	A	86.61905	25.00000	0.00000	1.95841	-0.12500	-14.109E-9	-0.0034452	68.903E-9
1	A	91.71429	25.00000	0.00000	2.10010	-0.12500	-19.156E-9	-0.0040537	81.072E-9
1	A	96.80952	25.00000	0.00000	2.23472	-0.12500	-26.547E-9	-0.0048181	96.358E-9
1	A	101.90476	25.00000	0.00000	2.35748	-0.12500	-37.150E-9	-0.0057594	115.18E-9
1	A	107.00000	25.00000	0.00000	1.19647	-0.083333	-15.346E-9	-0.0045870	91.738E-9
1	A	0.00000	30.00000	0.00000	0.50777	-0.12500	-1.1383E-9	-626.10E-6	12.522E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	5.09524	30.00000	0.00000	0.55960	-0.12500	-1.4059E-9	-705.36E-6	14.107E-9
1	A	10.19048	30.00000	0.00000	0.61677	-0.12500	-1.7310E-9	-794.58E-6	15.891E-9
1	A	15.28571	30.00000	0.00000	0.67945	-0.12500	-2.1185E-9	-893.98E-6	17.879E-9
1	A	20.38095	30.00000	0.00000	0.74759	-0.12500	-2.5685E-9	-0.0010033	20.065E-9
1	A	25.47619	30.00000	0.00000	0.82081	-0.12500	-3.0742E-9	-0.0011216	22.431E-9
1	A	30.57143	30.00000	0.00000	0.89824	-0.12500	-3.6192E-9	-0.0012474	24.947E-9
1	A	35.66667	30.00000	0.00000	0.97841	-0.12500	-4.1788E-9	-0.0013788	27.575E-9
1	A	40.76190	30.00000	0.00000	1.05918	-0.12500	-4.7245E-9	-0.0015143	30.285E-9
1	A	45.85714	30.00000	0.00000	1.13807	-0.12500	-5.2351E-9	-0.0016535	33.070E-9
1	A	50.95238	30.00000	0.00000	1.21328	-0.12500	-5.7104E-9	-0.0017986	35.972E-9
1	A	56.04762	30.00000	0.00000	1.28570	-0.12500	-6.1860E-9	-0.0019551	39.102E-9
1	A	61.14286	30.00000	0.00000	1.36141	-0.12500	-6.7443E-9	-0.0021328	42.655E-9
1	A	66.23810	30.00000	0.00000	1.45195	-0.12500	-7.5222E-9	-0.0023459	46.917E-9
1	A	71.33333	30.00000	0.00000	1.56957	-0.12500	-8.7212E-9	-0.0026137	52.274E-9
1	A	76.42857	30.00000	0.00000	1.71863	-0.12500	-10.631E-9	-0.0029608	59.214E-9
1	A	81.52381	30.00000	0.00000	1.89063	-0.12500	-13.676E-9	-0.0034180	68.358E-9
1	A	86.61905	30.00000	0.00000	2.06920	-0.12500	-18.508E-9	-0.0040244	80.485E-9
1	A	91.71429	30.00000	0.00000	2.23905	-0.12500	-26.147E-9	-0.0048288	96.573E-9
1	A	96.80952	30.00000	0.00000	2.38956	-0.12500	-38.194E-9	-0.0058906	117.81E-9
1	A	101.90476	30.00000	0.00000	2.51337	-0.12500	-57.044E-9	-0.0072745	145.48E-9
1	A	107.00000	30.00000	0.00000	1.18143	-0.083333	-25.445E-9	-0.0060214	120.42E-9
1	A	0.00000	35.00000	0.00000	0.52963	-0.12500	-1.4069E-9	-687.98E-6	13.759E-9
1	A	5.09524	35.00000	0.00000	0.58514	-0.12500	-1.7763E-9	-782.79E-6	15.656E-9
1	A	10.19048	35.00000	0.00000	0.64646	-0.12500	-2.2388E-9	-891.15E-6	17.823E-9
1	A	15.28571	35.00000	0.00000	0.71370	-0.12500	-2.8073E-9	-0.0010136	20.272E-9
1	A	20.38095	35.00000	0.00000	0.78665	-0.12500	-3.4875E-9	-0.0011500	22.999E-9
1	A	25.47619	35.00000	0.00000	0.86451	-0.12500	-4.2713E-9	-0.0012987	25.974E-9
1	A	30.57143	35.00000	0.00000	0.94567	-0.12500	-5.1305E-9	-0.0014571	29.141E-9
1	A	35.66667	35.00000	0.00000	1.02720	-0.12500	-6.0134E-9	-0.0016210	32.419E-9
1	A	40.76190	35.00000	0.00000	1.10444	-0.12500	-6.8517E-9	-0.0017862	35.723E-9
1	A	45.85714	35.00000	0.00000	1.17093	-0.12500	-7.5799E-9	-0.0019498	38.996E-9
1	A	50.95238	35.00000	0.00000	1.21986	-0.12500	-8.1672E-9	-0.0021126	42.251E-9
1	A	56.04762	35.00000	0.00000	1.24905	-0.12500	-8.6491E-9	-0.0022807	45.613E-9
1	A	61.14286	35.00000	0.00000	1.27015	-0.12500	-9.1473E-9	-0.0024673	49.346E-9
1	A	66.23810	35.00000	0.00000	1.31495	-0.12500	-9.8762E-9	-0.0026929	53.857E-9
1	A	71.33333	35.00000	0.00000	1.42438	-0.12500	-11.150E-9	-0.0029851	59.702E-9
1	A	76.42857	35.00000	0.00000	1.61662	-0.12500	-13.415E-9	-0.0033800	67.597E-9
1	A	81.52381	35.00000	0.00000	1.86415	-0.12500	-17.348E-9	-0.0039239	78.476E-9
1	A	86.61905	35.00000	0.00000	2.11577	-0.12500	-24.048E-9	-0.0046792	93.581E-9
1	A	91.71429	35.00000	0.00000	2.33416	-0.12500	-35.426E-9	-0.0057315	114.63E-9
1	A	96.80952	35.00000	0.00000	2.50176	-0.12500	-54.904E-9	-0.0071999	143.99E-9
1	A	101.90476	35.00000	0.00000	2.60815	-0.12500	-88.642E-9	-0.0092452	184.89E-9
1	A	107.00000	35.00000	0.00000	1.07644	-0.083333	-43.643E-9	-0.0080412	160.82E-9
1	A	0.00000	40.00000	0.00000	0.55041	-0.12500	-1.7492E-9	-758.09E-6	15.162E-9
1	A	5.09524	40.00000	0.00000	0.60944	-0.12500	-2.2655E-9	-872.72E-6	17.454E-9
1	A	10.19048	40.00000	0.00000	0.67470	-0.12500	-2.9360E-9	-0.0010063	20.126E-9
1	A	15.28571	40.00000	0.00000	0.74618	-0.12500	-3.7928E-9	-0.0011604	23.207E-9
1	A	20.38095	40.00000	0.00000	0.82337	-0.12500	-4.8591E-9	-0.0013351	26.702E-9
1	A	25.47619	40.00000	0.00000	0.90491	-0.12500	-6.1354E-9	-0.0015287	30.573E-9
1	A	30.57143	40.00000	0.00000	0.98794	-0.12500	-7.5793E-9	-0.0017363	34.725E-9
1	A	35.66667	40.00000	0.00000	1.06705	-0.12500	-9.0894E-9	-0.0019502	39.003E-9
1	A	40.76190	40.00000	0.00000	1.13256	-0.12500	-10.508E-9	-0.0021608	43.214E-9
1	A	45.85714	40.00000	0.00000	1.16837	-0.12500	-11.658E-9	-0.0023592	47.183E-9
1	A	50.95238	40.00000	0.00000	1.15145	-0.12500	-12.419E-9	-0.0025423	50.844E-9
1	A	56.04762	40.00000	0.00000	1.06064	-0.12500	-12.808E-9	-0.0027161	54.321E-9
1	A	61.14286	40.00000	0.00000	0.90770	-0.12500	-13.018E-9	-0.0028987	57.973E-9
1	A	66.23810	40.00000	0.00000	0.77989	-0.12500	-13.411E-9	-0.0031199	62.396E-9
1	A	71.33333	40.00000	0.00000	0.82605	-0.12500	-14.490E-9	-0.0034199	68.397E-9
1	A	76.42857	40.00000	0.00000	1.13444	-0.12500	-16.935E-9	-0.0038501	77.000E-9
1	A	81.52381	40.00000	0.00000	1.60100	-0.12500	-21.764E-9	-0.0044775	89.547E-9
1	A	86.61905	40.00000	0.00000	2.03718	-0.12500	-30.726E-9	-0.0053957	107.91E-9
1	A	91.71429	40.00000	0.00000	2.35548	-0.12500	-47.151E-9	-0.0067443	134.88E-9
1	A	96.80952	40.00000	0.00000	2.54420	-0.12500	-77.826E-9	-0.0087424	174.84E-9
1	A	101.90476	40.00000	0.00000	2.59422	-0.12500	-137.29E-9	-0.011740	234.79E-9
1	A	107.00000	40.00000	0.00000	0.81931	-0.083333	-76.372E-9	-0.010861	217.21E-9
1	A	0.00000	45.00000	0.00000	0.56966	-0.12500	-2.1822E-9	-837.07E-6	16.741E-9
1	A	5.09524	45.00000	0.00000	0.63195	-0.12500	-2.9095E-9	-976.90E-6	19.538E-9
1	A	10.19048	45.00000	0.00000	0.70076	-0.12500	-3.8954E-9	-0.0011440	22.879E-9
1	A	15.28571	45.00000	0.00000	0.77592	-0.12500	-5.2159E-9	-0.0013418	26.835E-9
1	A	20.38095	45.00000	0.00000	0.85650	-0.12500	-6.9450E-9	-0.0015723	31.445E-9
1	A	25.47619	45.00000	0.00000	0.94032	-0.12500	-9.1248E-9	-0.0018340	36.680E-9
1	A	30.57143	45.00000	0.00000	1.02279	-0.12500	-11.715E-9	-0.0021201	42.401E-9
1	A	35.66667	45.00000	0.00000	1.09470	-0.12500	-14.531E-9	-0.0024166	48.330E-9
1	A	40.76190	45.00000	0.00000	1.13760	-0.12500	-17.214E-9	-0.0027030	54.058E-9
1	A	45.85714	45.00000	0.00000	1.11488	-0.12500	-19.296E-9	-0.0029576	59.149E-9
1	A	50.95238	45.00000	0.00000	0.95755	-0.12500	-20.390E-9	-0.0031665	63.327E-9
1	A	56.04762	45.00000	0.00000	0.56041	-0.12500	-20.428E-9	-0.0033336	66.670E-9
1	A	61.14286	45.00000	0.00000	-0.13483	-0.12500	-19.772E-9	-0.0034852	69.703E-9
1	A	66.23810	45.00000	0.00000	-0.90450	-0.12500	-19.119E-9	-0.0036675	73.348E-9
1	A	71.33333	45.00000	0.00000	-1.17425	-0.12500	-19.343E-9	-0.0039405	78.809E-9
1	A	76.42857	45.00000	0.00000	-0.45489	-0.12500	-21.469E-9	-0.0043767	87.531E-9
1	A	81.52381	45.00000	0.00000	0.79383	-0.12500	-26.936E-9	-0.0050677	101.35E-9
1	A	86.61905	45.00000	0.00000	1.74252	-0.12500	-38.300E-9	-0.0061448	122.89E-9
1	A	91.71429	45.00000	0.00000	2.27399	-0.12500	-60.871E-9	-0.0078178	156.35E-9
1	A	96.80952	45.00000	0.00000	2.49188	-0.12500	-106.81E-9	-0.010451	209.00E-9
1	A	101.90476	45.00000	0.00000	2.40731	-0.12500	-206.65E-9	-0.014718	294.33E-9
1	A	107.00000	45.00000	0.00000	0.30355	-0.083333	-132.12E-9	-0.014625	292.49E-9
1	A	0.00000	50.00000	0.00000	0.58690	-0.12500	-2.7217E-9	-925.02E-6	18.500E-9
1	A	5.09524	50.00000	0.00000	0.65202	-0.12500	-3.7482E-9	-0.0010966	21.932E-9
1	A	10.19048	50.00000	0.00000	0.72382	-0.12500	-5.2091E-9	-0.0013079	26.157E-9
1	A	15.28571	50.00000	0.00000	0.80182	-0.12500	-7.2781E-9	-0.0015666	31.331E-9
1	A	20.38095	50.00000	0.00000	0.88455	-0.12500	-10.161E-9	-0.0018793	37.585E-9
1	A	25.47619	50.00000	0.00000	0.96877	-0.12500	-14.050E-9	-0.0022480	44.957E-9
1	A	30.57143	50.00000	0.00000	1.04774	-0.12500	-19.003E-9	-0.0026650	53.297E-9
1	A	35.66667	50.00000	0.00000	1.10735	-0.12500	-24.746E-9	-0.0031072	62.141E-9
1	A	40.76190	50.00000	0.00000	1.11663	-0.12500	-30.475E-9	-0.0035332	70.661E-9
1	A	45.85714	50.00000	0.00000	1.00363	-0.12500	-34.903E-9	-0.0038911	77.817E-9
1	A	50.95238	50.00000	0.00000	0.59480	-0.12500	-36.791E-9	-0.0041393	82.782E-9
1	A	56.04762	50.00000	0.00000	-0.50551	-0.12500	-35.757E-9	-0.0042732	85.459E-9
1	A	61.14286	50.00000	0.00000	-2.86312	-0.12500	-32.654E-9	-0.0043362	86.720E-9
1	A	66.23810	50.00000	0.00000	-6.00164	-0.12500	-29.129E-9	-0.0044087	88.171E-9
1	A	71.33333	50.00000	0.00000	-7.73687	-0.12500	-26.906E-9	-0.0045864	91.726E-9
1	A	76.42857	50.00000	0.00000	-5.39971	-0.12500	-27.538E-9	-0.0049708	99.413E-9
1	A	81.52381	50.00000	0.00000	-1.04112	-0.12500	-32.869E-9	-0.0056799	113.59E-9
1	A	86.61905	50.00000	0.00000	1.17076	-0.12500	-46.233E-9	-0.0068824	137.64E-9
1	A	91.71429	50.00000	0.00000	2.08777	-0.12500	-75.183E-9	-0.0088637	177.26E-9
1	A	96.80952	50.00000	0.00000	2.34171	-0.12500	-138.85E-9	-0.012163	243.25E-9
1	A	101.90476	50.00000	0.00000	1.98603	-0.12500	-292.01E-9	-0.017902	358.00E-9
1	A	107.00000	50.00000	0.00000	-0.65603	-0.083333	-213.75E-9	-0.019118	382.33E-9
1	A	0.00000	55.00000	0.00000	0.60164	-0.12500	-3.3781E-9	-0.0010211	20.421E-9
1	A	5.09524	55.00000	0.00000	0.66905	-0.12500	-4.8185E-9	-0.0012320	24.640E-9
1	A	10.19048	55.00000	0.00000	0.74304	-0.12500	-6.9821E-9	-0.0015008	30.016E-9
1	A	15.28571	55.00000	0.00000	0.82271	-0.12500	-10.247E-9	-0.0018437	36.874E-9
1	A	20.38095	55.00000	0.00000	0.90583	-0.12500	-15.149E-9	-0.0022781	45.561E-9
1	A	25.47619	55.00000	0.00000	0.98781	-0.12500	-22.347E-9	-0.0028178	56.352E-9
1	A	30.57143	55.00000	0.00000	1.05949	-0.12500	-32.406E-9	-0.0034622	69.240E-9
1	A	35.66667	55.00000	0.00000	1.10175	-0.12500	-45.229E-9	-0.0041794	83.583E-9
1	A	40.76190	55.00000	0.00000	1.07050	-0.12500	-59.138E-9	-0.0048887	97.766E-9
1	A	45.85714	55.00000	0.00000	0.85123	-0.12500	-70.395E-9	-0.0054648	109.29E-9
1	A	50.95238	55.00000	0.00000	0.11171	-0.12500	-74.648E-9	-0.0057885	115.76E-9
1	A	56.04762	55.00000	0.00000	-2.17519	-0.12500	-70.211E-9	-0.0058262	116.52E-9
1	A	61.14286	55.00000	0.00000	-8.88210	-0.12500	-59.774E-9	-0.0056672	113.34E-9
1	A	66.23810	55.00000	0.00000	-22.58085	-0.12500	-48.241E-9	-0.0054773	109.54E-9
1	A	71.33333	55.00000	0.00000	-27.10712	-0.12500	-39.601E-9	-0.0054256	108.51E-9
1	A	76.42857	55.00000	0.00000	-16.61611	-0.12500	-36.132E-9	-0.0056537	113.07E-9
1	A	81.52381	55.00000	0.00000	-3.56868	-0.12500	-39.663E-9	-0.0062994	125.98E-9
1	A	86.61905	55.00000	0.00000	0.46174	-0.12500	-53.778E-9	-0.0075547	151.09E-9
1	A	91.71429	55.00000	0.00000	1.85343	-0.12500	-87.773E-9	-0.0097640	195.27E-9
1	A	96.80952	55.00000	0.00000	2.14219	-0.12500	-167.42E-9	-0.013627	272.52E-9
1	A	101.90476	55.00000	0.00000	1.38465	-0.12500	-373.41E-9	-0.020717	414.30E-9
1	A	107.00000	55.00000	0.00000	-2.24497	-0.083333	-301.60E-9	-0.023401	467.97E-9
1	A	0.00000	60.00000	0.00000	0.61343	-0.12500	-4.1486E-9	-0.0011230	22.459E-9
1	A	5.09524	60.00000	0.00000	0.68243	-0.12500	-6.1398E-9	-0.0013810	27.619E-9
1	A	10.19048	60.00000	0.00000	0.75760	-0.12500	-9.3076E-9	-0.0017227	34.452E-9
1	A	15.28571	60.00000	0.00000	0.83738	-0.12500	-14.437E-9	-0.0021795	43.588E-9
1	A	20.38095	60.00000	0.00000	0.91838	-0.12500	-22.828E-9	-0.0027922	55.842E-9
1	A	25.47619	60.00000	0.00000	0.99411	-0.12500	-36.490E-9	-0.0036069	72.134E-9
1	A	30.57143	60.00000	0.00000	1.05251	-0.12500	-58.036E-9	-0.0046584	93.162E-9
1	A	35.66667	60.00000	0.00000	1.07023	-0.12500	-89.415E-9	-0.0059278	118.54E-9
1	A	40.76190	60.00000	0.00000	0.99544	-0.12500	-128.25E-9	-0.0072724	145.43E-9
1	A	45.85714	60.00000	0.00000	0.68885	-0.12500	-163.15E-9	-0.0083827	167.63E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	50.95238	60.00000	0.00000	-0.29113	-0.12500	-176.29E-9	-0.0088923	177.82E-9
1	A	56.04762	60.00000	0.00000	-3.48512	-0.12500	-159.33E-9	-0.0086613	173.21E-9
1	A	61.14286	60.00000	0.00000	-14.16188	-0.12500	-123.69E-9	-0.0079303	158.59E-9
1	A	66.23810	60.00000	0.00000	-33.03469	-0.12500	-87.889E-9	-0.0071217	142.42E-9
1	A	71.33333	60.00000	0.00000	-35.49432	-0.12500	-62.328E-9	-0.0065696	131.38E-9
1	A	76.42857	60.00000	0.00000	-21.65836	-0.12500	-49.018E-9	-0.0064594	129.18E-9
1	A	81.52381	60.00000	0.00000	-5.27519	-0.12500	-47.627E-9	-0.0069147	138.29E-9
1	A	86.61905	60.00000	0.00000	-0.07685	-0.12500	-60.215E-9	-0.0081096	162.18E-9
1	A	91.71429	60.00000	0.00000	1.66718	-0.12500	-96.126E-9	-0.010400	208.00E-9
1	A	96.80952	60.00000	0.00000	1.99311	-0.12500	-184.50E-9	-0.014568	291.34E-9
1	A	101.90476	60.00000	0.00000	0.96085	-0.12500	-421.10E-9	-0.022453	449.01E-9
1	A	107.00000	60.00000	0.00000	-3.37569	-0.083333	-353.40E-9	-0.026014	520.24E-9
1	A	0.00000	65.00000	0.00000	0.62189	-0.12500	-5.0077E-9	-0.0012264	24.528E-9
1	A	5.09524	65.00000	0.00000	0.69166	-0.12500	-7.6902E-9	-0.0015381	30.760E-9
1	A	10.19048	65.00000	0.00000	0.76681	-0.12500	-12.216E-9	-0.0019677	39.353E-9
1	A	15.28571	65.00000	0.00000	0.84475	-0.12500	-20.110E-9	-0.0025723	51.443E-9
1	A	20.38095	65.00000	0.00000	0.92022	-0.12500	-34.314E-9	-0.0034378	68.753E-9
1	A	25.47619	65.00000	0.00000	0.98340	-0.12500	-60.427E-9	-0.0046883	93.758E-9
1	A	30.57143	65.00000	0.00000	1.01729	-0.12500	-108.41E-9	-0.0064775	129.54E-9
1	A	35.66667	65.00000	0.00000	0.99323	-0.12500	-192.38E-9	-0.0089169	178.32E-9
1	A	40.76190	65.00000	0.00000	0.85946	-0.12500	-319.54E-9	-0.011852	237.00E-9
1	A	45.85714	65.00000	0.00000	0.49368	-0.12500	-457.10E-9	-0.014513	290.21E-9
1	A	50.95238	65.00000	0.00000	-0.49461	-0.12500	-515.37E-9	-0.015616	312.26E-9
1	A	56.04762	65.00000	0.00000	-3.47210	-0.12500	-438.89E-9	-0.014532	290.59E-9
1	A	61.14286	65.00000	0.00000	-12.72494	-0.12500	-296.00E-9	-0.012147	242.89E-9
1	A	66.23810	65.00000	0.00000	-32.68818	-0.12500	-176.54E-9	-0.0098000	195.98E-9
1	A	71.33333	65.00000	0.00000	-36.72373	-0.12500	-104.57E-9	-0.0081836	163.66E-9
1	A	76.42857	65.00000	0.00000	-22.75309	-0.12500	-68.940E-9	-0.0074292	148.58E-9
1	A	81.52381	65.00000	0.00000	-5.83846	-0.12500	-57.285E-9	-0.0075167	150.33E-9
1	A	86.61905	65.00000	0.00000	-0.28949	-0.12500	-65.125E-9	-0.0085087	170.17E-9
1	A	91.71429	65.00000	0.00000	1.59708	-0.12500	-98.647E-9	-0.010693	213.85E-9
1	A	96.80952	65.00000	0.00000	1.97055	-0.12500	-184.98E-9	-0.014807	296.12E-9
1	A	101.90476	65.00000	0.00000	0.98695	-0.12500	-415.67E-9	-0.022640	452.75E-9
1	A	107.00000	65.00000	0.00000	-3.11009	-0.083333	-341.65E-9	-0.025982	519.60E-9
1	A	0.00000	70.00000	0.00000	0.62673	-0.12500	-5.8977E-9	-0.0013250	26.499E-9
1	A	5.09524	70.00000	0.00000	0.69642	-0.12500	-9.3779E-9	-0.0016934	33.867E-9
1	A	10.19048	70.00000	0.00000	0.77028	-0.12500	-15.588E-9	-0.0022216	44.431E-9
1	A	15.28571	70.00000	0.00000	0.84425	-0.12500	-27.254E-9	-0.0030044	60.084E-9
1	A	20.38095	70.00000	0.00000	0.90996	-0.12500	-50.434E-9	-0.0042053	84.101E-9
1	A	25.47619	70.00000	0.00000	0.95147	-0.12500	-99.228E-9	-0.0061110	122.21E-9
1	A	30.57143	70.00000	0.00000	0.94043	-0.12500	-207.16E-9	-0.0092083	184.14E-9
1	A	35.66667	70.00000	0.00000	0.83184	-0.12500	-449.58E-9	-0.014210	284.16E-9
1	A	40.76190	70.00000	0.00000	0.56726	-0.12500	-950.27E-9	-0.021620	432.29E-9
1	A	45.85714	70.00000	0.00000	0.08130	-0.12500	-1.7011E-6	-0.029905	597.90E-9
1	A	50.95238	70.00000	0.00000	-0.79596	-0.12500	-2.1211E-6	-0.033652	672.79E-9
1	A	56.04762	70.00000	0.00000	-2.83661	-0.12500	-1.6159E-6	-0.029038	580.56E-9
1	A	61.14286	70.00000	0.00000	-8.40985	-0.12500	-841.93E-9	-0.020802	415.94E-9
1	A	66.23810	70.00000	0.00000	-23.05847	-0.12500	-384.90E-9	-0.014302	285.99E-9
1	A	71.33333	70.00000	0.00000	-34.06071	-0.12500	-182.27E-9	-0.010455	209.08E-9
1	A	76.42857	70.00000	0.00000	-21.82778	-0.12500	-98.998E-9	-0.0085815	171.62E-9
1	A	81.52381	70.00000	0.00000	-5.53912	-0.12500	-69.025E-9	-0.0080873	161.74E-9
1	A	86.61905	70.00000	0.00000	-0.18137	-0.12500	-68.447E-9	-0.0087314	174.62E-9
1	A	91.71429	70.00000	0.00000	1.65589	-0.12500	-95.396E-9	-0.010627	212.52E-9
1	A	96.80952	70.00000	0.00000	2.07096	-0.12500	-169.70E-9	-0.014342	286.82E-9
1	A	101.90476	70.00000	0.00000	1.32835	-0.12500	-362.25E-9	-0.021326	426.47E-9
1	A	107.00000	70.00000	0.00000	-2.24919	-0.083333	-276.81E-9	-0.023507	470.10E-9
1	A	0.00000	75.00000	0.00000	0.62782	-0.12500	-6.7265E-9	-0.0014102	28.203E-9
1	A	5.09524	75.00000	0.00000	0.69663	-0.12500	-11.021E-9	-0.0018326	36.650E-9
1	A	10.19048	75.00000	0.00000	0.76810	-0.12500	-19.070E-9	-0.0024595	49.187E-9
1	A	15.28571	75.00000	0.00000	0.83620	-0.12500	-35.235E-9	-0.0034333	68.661E-9
1	A	20.38095	75.00000	0.00000	0.88814	-0.12500	-70.522E-9	-0.0050295	100.58E-9
1	A	25.47619	75.00000	0.00000	0.89747	-0.12500	-155.72E-9	-0.0078162	156.31E-9
1	A	30.57143	75.00000	0.00000	0.81135	-0.12500	-387.66E-9	-0.013039	260.72E-9
1	A	35.66667	75.00000	0.00000	0.53248	-0.12500	-1.1072E-6	-0.023519	470.24E-9
1	A	40.76190	75.00000	0.00000	-0.07494	-0.12500	-3.5308E-6	-0.044968	898.94E-9
1	A	45.85714	75.00000	0.00000	-1.04717	-0.12500	-10.248E-6	-0.081114	1.6210E-6
1	A	50.95238	75.00000	0.00000	-2.07803	-0.12500	-17.373E-6	-0.10539	2.1056E-6
1	A	56.04762	75.00000	0.00000	-3.08312	-0.12500	-9.9772E-6	-0.076628	1.5314E-6
1	A	61.14286	75.00000	0.00000	-5.70924	-0.12500	-2.8768E-6	-0.040058	800.81E-9
1	A	66.23810	75.00000	0.00000	-13.49905	-0.12500	-861.66E-9	-0.021631	432.51E-9
1	A	71.33333	75.00000	0.00000	-28.65914	-0.12500	-312.28E-9	-0.013428	268.51E-9
1	A	76.42857	75.00000	0.00000	-18.95182	-0.12500	-139.76E-9	-0.0098459	196.90E-9
1	A	81.52381	75.00000	0.00000	-4.38164	-0.12500	-82.209E-9	-0.0085785	171.56E-9
1	A	86.61905	75.00000	0.00000	0.22427	-0.12500	-70.209E-9	-0.0087689	175.37E-9
1	A	91.71429	75.00000	0.00000	1.81982	-0.12500	-87.854E-9	-0.010246	204.91E-9
1	A	96.80952	75.00000	0.00000	2.24171	-0.12500	-144.55E-9	-0.013332	266.62E-9
1	A	101.90476	75.00000	0.00000	1.79412	-0.12500	-284.86E-9	-0.019001	379.99E-9
1	A	107.00000	75.00000	0.00000	-1.19970	-0.083333	-194.32E-9	-0.019709	394.15E-9
1	A	0.00000	80.00000	0.00000	0.62516	-0.12500	-7.3791E-9	-0.0014730	29.458E-9
1	A	5.09524	80.00000	0.00000	0.69247	-0.12500	-12.363E-9	-0.0019384	38.766E-9
1	A	10.19048	80.00000	0.00000	0.76083	-0.12500	-22.054E-9	-0.0026476	52.949E-9
1	A	15.28571	80.00000	0.00000	0.82219	-0.12500	-42.546E-9	-0.0037904	75.804E-9
1	A	20.38095	80.00000	0.00000	0.85850	-0.12500	-90.782E-9	-0.0057664	115.32E-9
1	A	25.47619	80.00000	0.00000	0.82924	-0.12500	-221.64E-9	-0.0095085	190.14E-9
1	A	30.57143	80.00000	0.00000	0.64103	-0.12500	-654.28E-9	-0.017516	350.24E-9
1	A	35.66667	80.00000	0.00000	0.07752	-0.12500	-2.5761E-6	-0.037859	756.87E-9
1	A	40.76190	80.00000	0.00000	-1.31220	-0.12500	-16.439E-6	-0.10427	2.0835E-6
1	A	45.85714	80.00000	0.00000	-4.00739	-0.12500	-189.61E-6	-0.37785	7.5342E-6
1	A	50.95238	80.00000	0.00000	-6.71867	-0.12500	-0.0017885	-1.0536	20.858E-6
1	A	56.04762	80.00000	0.00000	-6.03816	-0.12500	-190.28E-6	-0.33949	6.7669E-6
1	A	61.14286	80.00000	0.00000	-5.18435	-0.12500	-10.145E-6	-0.080153	1.6018E-6
1	A	66.23810	80.00000	0.00000	-8.19070	-0.12500	-1.7293E-6	-0.031573	631.26E-9
1	A	71.33333	80.00000	0.00000	-18.25982	-0.12500	-482.72E-9	-0.016620	332.34E-9
1	A	76.42857	80.00000	0.00000	-11.50745	-0.12500	-183.73E-9	-0.010983	219.63E-9
1	A	81.52381	80.00000	0.00000	-2.22694	-0.12500	-94.170E-9	-0.0088967	177.92E-9
1	A	86.61905	80.00000	0.00000	0.85964	-0.12500	-70.131E-9	-0.0086141	172.27E-9
1	A	91.71429	80.00000	0.00000	2.03698	-0.12500	-77.973E-9	-0.0096298	192.59E-9
1	A	96.80952	80.00000	0.00000	2.41787	-0.12500	-116.65E-9	-0.012008	240.15E-9
1	A	101.90476	80.00000	0.00000	2.23281	-0.12500	-208.67E-9	-0.016287	325.71E-9
1	A	107.00000	80.00000	0.00000	-0.22048	-0.083333	-125.01E-9	-0.015789	315.77E-9
1	A	0.00000	85.00000	0.00000	0.61889	-0.12500	-7.7451E-9	-0.0015051	30.101E-9
1	A	5.09524	85.00000	0.00000	0.68430	-0.12500	-13.136E-9	-0.0019947	39.892E-9
1	A	10.19048	85.00000	0.00000	0.74947	-0.12500	-23.829E-9	-0.0027517	55.031E-9
1	A	15.28571	85.00000	0.00000	0.80475	-0.12500	-47.096E-9	-0.0039971	79.936E-9
1	A	20.38095	85.00000	0.00000	0.82786	-0.12500	-104.25E-9	-0.0062171	124.33E-9
1	A	25.47619	85.00000	0.00000	0.76565	-0.12500	-270.23E-9	-0.010629	212.54E-9
1	A	30.57143	85.00000	0.00000	0.48302	-0.12500	-889.00E-9	-0.020886	417.61E-9
1	A	35.66667	85.00000	0.00000	-0.39083	-0.12500	-4.4136E-6	-0.051600	1.0315E-6
1	A	40.76190	85.00000	0.00000	-2.93093	-0.12500	-56.301E-6	-0.20520	4.0973E-6
1	A	45.85714	85.00000	0.00000	-12.27376	-0.12500	-21.459	-52.878	-0.0015175
1	A	50.95238	85.00000	0.00000	-26.19170	-0.12500	-29.646	-85.494	-0.0018477
1	A	56.04762	85.00000	0.00000	-14.20806	-0.12500	-0.0021729	-1.2473	24.686E-6
1	A	61.14286	85.00000	0.00000	-7.17242	-0.12500	-20.802E-6	-0.12457	2.4890E-6
1	A	66.23810	85.00000	0.00000	-4.61658	-0.12500	-2.5533E-6	-0.039622	792.12E-9
1	A	71.33333	85.00000	0.00000	-4.23709	-0.12500	-614.49E-9	-0.018779	375.50E-9
1	A	76.42857	85.00000	0.00000	-2.49333	-0.12500	-213.31E-9	-0.011600	231.98E-9
1	A	81.52381	85.00000	0.00000	-0.02758	-0.12500	-100.50E-9	-0.0089216	178.42E-9
1	A	86.61905	85.00000	0.00000	1.48859	-0.12500	-67.588E-9	-0.0082612	165.22E-9
1	A	91.71429	85.00000	0.00000	2.22991	-0.12500	-67.306E-9	-0.0088580	177.15E-9
1	A	96.80952	85.00000	0.00000	2.54239	-0.12500	-91.037E-9	-0.010579	211.57E-9
1	A	101.90476	85.00000	0.00000	2.53492	-0.12500	-147.21E-9	-0.013647	272.92E-9
1	A	107.00000	85.00000	0.00000	0.49000	-0.083333	-77.953E-9	-0.012412	248.24E-9
1	A	0.00000	90.00000	0.00000	0.60924	-0.12500	-7.7545E-9	-0.0015018	30.035E-9
1	A	5.09524	90.00000	0.00000	0.67257	-0.12500	-13.160E-9	-0.0019915	39.829E-9
1	A	10.19048	90.00000	0.00000	0.73499	-0.12500	-23.892E-9	-0.0027494	54.985E-9
1	A	15.28571	90.00000	0.00000	0.78635	-0.12500	-47.263E-9	-0.0039976	79.946E-9
1	A	20.38095	90.00000	0.00000	0.80306	-0.12500	-104.72E-9	-0.0062256	124.50E-9
1	A	25.47619	90.00000	0.00000	0.72804	-0.12500	-271.67E-9	-0.010660	213.16E-9
1	A	30.57143	90.00000	0.00000	0.41275	-0.12500	-892.72E-9	-0.020979	419.48E-9
1	A	35.66667	90.00000	0.00000	-0.56611	-0.12500	-4.3788E-6	-0.051701	1.0353E-6
1	A	40.76190	90.00000	0.00000	-3.51352	-0.12500	-51.316E-6	-0.20074	4.0086E-6
1	A	45.85714	90.00000	0.00000	-12.99217	-0.12500	-0.055884	-5.0753	94.800E-6
1	A	50.95238	90.00000	0.00000	-33.13003	-0.12500	-29.999	-87.385	-0.0018522
1	A	56.04762	90.00000	0.00000	-26.52930	-0.12500	-852.44E-6	-0.88802	17.658E-6
1	A	61.14286	90.00000	0.00000	-15.00251	-0.12500	-18.803E-6	-0.12108	2.4193E-6
1	A	66.23810	90.00000	0.00000	-3.97651	-0.12500	-2.5072E-6	-0.039434	788.38E-9
1	A	71.33333	90.00000	0.00000	-1.23901	-0.12500	-612.09E-9	-0.018643	372.79E-9
1	A	76.42857	90.00000	0.00000	0.10470	-0.12500	-211.85E-9	-0.011377	227.52E-9
1	A	81.52381	90.00000	0.00000	1.14585	-0.12500	-97.638E-9	-0.0085715	171.42E-9
1	A	86.61905	90.00000	0.00000	1.88225	-0.12500	-62.116E-9	-0.0077172	154.34E-9
1	A	91.71429	90.00000	0.00000	2.33504	-0.12500	-56.741E-9	-0.0079984	159.96E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	96.80952	90.00000	0.00000	2.58399	-0.12500	-69.833E-9	-0.0091833	183.66E-9
1	A	101.90476	90.00000	0.00000	2.66824	-0.12500	-102.60E-9	-0.011312	226.23E-9
1	A	107.00000	90.00000	0.00000	0.91550	-0.083333	-48.825E-9	-0.0097326	194.65E-9
1	A	0.00000	95.00000	0.00000	0.59646	-0.12500	-7.4047E-9	-0.0014630	29.259E-9
1	A	5.09524	95.00000	0.00000	0.65766	-0.12500	-12.430E-9	-0.0019285	38.568E-9
1	A	10.19048	95.00000	0.00000	0.71802	-0.12500	-22.224E-9	-0.0026398	52.794E-9
1	A	15.28571	95.00000	0.00000	0.76817	-0.12500	-42.991E-9	-0.0037899	75.794E-9
1	A	20.38095	95.00000	0.00000	0.78679	-0.12500	-92.023E-9	-0.0057864	115.72E-9
1	A	25.47619	95.00000	0.00000	0.72390	-0.12500	-225.45E-9	-0.0095855	191.68E-9
1	A	30.57143	95.00000	0.00000	0.45544	-0.12500	-667.14E-9	-0.017762	355.16E-9
1	A	35.66667	95.00000	0.00000	-0.34589	-0.12500	-2.6159E-6	-0.038660	772.88E-9
1	A	40.76190	95.00000	0.00000	-2.56523	-0.12500	-16.337E-6	-0.10759	2.1499E-6
1	A	45.85714	95.00000	0.00000	-8.33382	-0.12500	-317.23E-6	-0.48010	9.5639E-6
1	A	50.95238	95.00000	0.00000	-23.34455	-0.12500	-0.019456	-2.8198	54.062E-6
1	A	56.04762	95.00000	0.00000	-27.53220	-0.12500	-181.96E-6	-0.34330	6.8442E-6
1	A	61.14286	95.00000	0.00000	-13.19770	-0.12500	-9.4614E-6	-0.079435	1.5876E-6
1	A	66.23810	95.00000	0.00000	-3.58211	-0.12500	-1.6996E-6	-0.031399	627.77E-9
1	A	71.33333	95.00000	0.00000	-0.33892	-0.12500	-480.40E-9	-0.016240	324.74E-9
1	A	76.42857	95.00000	0.00000	0.91709	-0.12500	-179.73E-9	-0.010326	206.50E-9
1	A	81.52381	95.00000	0.00000	1.59207	-0.12500	-85.777E-9	-0.0078677	157.34E-9
1	A	86.61905	95.00000	0.00000	2.03633	-0.12500	-54.045E-9	-0.0070174	140.34E-9
1	A	91.71429	95.00000	0.00000	2.33994	-0.12500	-46.736E-9	-0.0071048	142.09E-9
1	A	96.80952	95.00000	0.00000	2.54230	-0.12500	-53.163E-9	-0.0078944	157.88E-9
1	A	101.90476	95.00000	0.00000	2.66159	-0.12500	-71.748E-9	-0.0093435	186.86E-9
1	A	107.00000	95.00000	0.00000	1.13498	-0.083333	-31.217E-9	-0.0076725	153.45E-9
1	A	0.00000	100.00000	0.00000	0.58083	-0.12500	-6.7609E-9	-0.0013932	27.863E-9
1	A	5.09524	100.00000	0.00000	0.63984	-0.12500	-11.113E-9	-0.0018152	36.302E-9
1	A	10.19048	100.00000	0.00000	0.69867	-0.12500	-19.300E-9	-0.0024443	48.883E-9
1	A	15.28571	100.00000	0.00000	0.74966	-0.12500	-35.820E-9	-0.0034267	68.529E-9
1	A	20.38095	100.00000	0.00000	0.77619	-0.12500	-72.096E-9	-0.0050475	100.94E-9
1	A	25.47619	100.00000	0.00000	0.74168	-0.12500	-160.39E-9	-0.0079012	158.01E-9
1	A	30.57143	100.00000	0.00000	0.56355	-0.12500	-403.77E-9	-0.013315	266.25E-9
1	A	35.66667	100.00000	0.00000	0.05064	-0.12500	-1.1799E-6	-0.024419	488.23E-9
1	A	40.76190	100.00000	0.00000	-1.23603	-0.12500	-4.0510E-6	-0.048452	968.56E-9
1	A	45.85714	100.00000	0.00000	-4.21948	-0.12500	-14.820E-6	-0.095792	1.9141E-6
1	A	50.95238	100.00000	0.00000	-10.44341	-0.12500	-27.932E-6	-0.13053	2.6072E-6
1	A	56.04762	100.00000	0.00000	-19.77693	-0.12500	-12.236E-6	-0.084780	1.6941E-6
1	A	61.14286	100.00000	0.00000	-8.89902	-0.12500	-3.0216E-6	-0.041214	823.92E-9
1	A	66.23810	100.00000	0.00000	-2.23171	-0.12500	-876.42E-9	-0.021512	430.13E-9
1	A	71.33333	100.00000	0.00000	0.23479	-0.12500	-312.48E-9	-0.012813	256.21E-9
1	A	76.42857	100.00000	0.00000	1.22789	-0.12500	-133.55E-9	-0.0087868	175.72E-9
1	A	81.52381	100.00000	0.00000	1.72823	-0.12500	-68.826E-9	-0.0069330	138.65E-9
1	A	86.61905	100.00000	0.00000	2.04314	-0.12500	-44.546E-9	-0.0062242	124.48E-9
1	A	91.71429	100.00000	0.00000	2.26793	-0.12500	-37.601E-9	-0.0062218	124.43E-9
1	A	96.80952	100.00000	0.00000	2.43612	-0.12500	-40.335E-9	-0.0067417	134.83E-9
1	A	101.90476	100.00000	0.00000	2.56065	-0.12500	-50.697E-9	-0.0077203	154.40E-9
1	A	107.00000	100.00000	0.00000	1.22240	-0.083333	-20.475E-9	-0.0061003	122.00E-9
1	A	0.00000	105.00000	0.00000	0.56266	-0.12500	-5.9316E-9	-0.0013006	26.011E-9
1	A	5.09524	105.00000	0.00000	0.61930	-0.12500	-9.4717E-9	-0.0016675	33.350E-9
1	A	10.19048	105.00000	0.00000	0.67671	-0.12500	-15.822E-9	-0.0021966	43.931E-9
1	A	15.28571	105.00000	0.00000	0.72927	-0.12500	-27.829E-9	-0.0029860	59.716E-9
1	A	20.38095	105.00000	0.00000	0.76553	-0.12500	-51.892E-9	-0.0042073	84.140E-9
1	A	25.47619	105.00000	0.00000	0.76234	-0.12500	-103.18E-9	-0.0061666	123.32E-9
1	A	30.57143	105.00000	0.00000	0.67338	-0.12500	-218.93E-9	-0.0094012	188.00E-9
1	A	35.66667	105.00000	0.00000	0.40699	-0.12500	-489.11E-9	-0.014758	295.11E-9
1	A	40.76190	105.00000	0.00000	-0.21036	-0.12500	-1.0919E-6	-0.023049	460.86E-9
1	A	45.85714	105.00000	0.00000	-1.46570	-0.12500	-2.1066E-6	-0.032900	657.76E-9
1	A	50.95238	105.00000	0.00000	-3.54950	-0.12500	-2.6761E-6	-0.037272	745.12E-9
1	A	56.04762	105.00000	0.00000	-4.86704	-0.12500	-1.8969E-6	-0.031072	621.22E-9
1	A	61.14286	105.00000	0.00000	-2.86507	-0.12500	-914.90E-9	-0.021271	425.32E-9
1	A	66.23810	105.00000	0.00000	-0.54154	-0.12500	-399.61E-9	-0.013960	279.16E-9
1	A	71.33333	105.00000	0.00000	0.74716	-0.12500	-181.58E-9	-0.0095881	191.74E-9
1	A	76.42857	105.00000	0.00000	1.38589	-0.12500	-90.546E-9	-0.0071688	143.36E-9
1	A	81.52381	105.00000	0.00000	1.74077	-0.12500	-51.519E-9	-0.0059255	118.50E-9
1	A	86.61905	105.00000	0.00000	1.97382	-0.12500	-35.068E-9	-0.0054100	108.20E-9
1	A	91.71429	105.00000	0.00000	2.14824	-0.12500	-29.597E-9	-0.0053852	107.70E-9
1	A	96.80952	105.00000	0.00000	2.28869	-0.12500	-30.539E-9	-0.0057318	114.63E-9
1	A	101.90476	105.00000	0.00000	2.40470	-0.12500	-36.271E-9	-0.0063936	127.87E-9
1	A	107.00000	105.00000	0.00000	1.22886	-0.083333	-13.777E-9	-0.0048964	97.926E-9
1	A	0.00000	110.00000	0.00000	0.54226	-0.12500	-5.0327E-9	-0.0011944	23.888E-9
1	A	5.09524	110.00000	0.00000	0.59827	-0.12500	-7.7675E-9	-0.0015030	30.059E-9
1	A	10.19048	110.00000	0.00000	0.65194	-0.12500	-12.411E-9	-0.0019311	38.620E-9
1	A	15.28571	110.00000	0.00000	0.70554	-0.12500	-20.575E-9	-0.0025380	50.758E-9
1	A	20.38095	110.00000	0.00000	0.74990	-0.12500	-35.413E-9	-0.0034149	68.294E-9
1	A	25.47619	110.00000	0.00000	0.77195	-0.12500	-63.084E-9	-0.0046963	93.918E-9
1	A	30.57143	110.00000	0.00000	0.74880	-0.12500	-115.01E-9	-0.0065571	131.13E-9
1	A	35.66667	110.00000	0.00000	0.64293	-0.12500	-208.93E-9	-0.0091454	182.88E-9
1	A	40.76190	110.00000	0.00000	0.40066	-0.12500	-357.99E-9	-0.012337	246.69E-9
1	A	45.85714	110.00000	0.00000	-0.02527	-0.12500	-527.05E-9	-0.015279	305.52E-9
1	A	50.95238	110.00000	0.00000	-0.55286	-0.12500	-596.49E-9	-0.016399	327.90E-9
1	A	56.04762	110.00000	0.00000	-0.73625	-0.12500	-493.68E-9	-0.014930	298.54E-9
1	A	61.14286	110.00000	0.00000	-0.22706	-0.12500	-319.27E-9	-0.012015	240.27E-9
1	A	66.23810	110.00000	0.00000	0.52108	-0.12500	-182.21E-9	-0.0091823	183.62E-9
1	A	71.33333	110.00000	0.00000	1.09185	-0.12500	-101.27E-9	-0.0070829	141.65E-9
1	A	76.42857	110.00000	0.00000	1.45620	-0.12500	-58.464E-9	-0.0057339	114.67E-9
1	A	81.52381	110.00000	0.00000	1.69435	-0.12500	-36.889E-9	-0.0049703	99.401E-9
1	A	86.61905	110.00000	0.00000	1.86624	-0.12500	-26.692E-9	-0.0046354	92.704E-9
1	A	91.71429	110.00000	0.00000	2.00317	-0.12500	-22.882E-9	-0.0046209	92.415E-9
1	A	96.80952	110.00000	0.00000	2.11967	-0.12500	-23.086E-9	-0.0048598	97.193E-9
1	A	101.90476	110.00000	0.00000	2.22178	-0.12500	-26.266E-9	-0.0053120	106.24E-9
1	A	107.00000	110.00000	0.00000	1.18763	-0.083333	-9.4914E-9	-0.0039671	79.340E-9
1	A	0.00000	115.00000	0.00000	0.52004	-0.12500	-4.1589E-9	-0.0010833	21.666E-9
1	A	5.09524	115.00000	0.00000	0.57108	-0.12500	-6.1891E-9	-0.0013364	26.727E-9
1	A	10.19048	115.00000	0.00000	0.62446	-0.12500	-9.4419E-9	-0.0016737	33.472E-9
1	A	15.28571	115.00000	0.00000	0.67785	-0.12500	-14.754E-9	-0.0021278	42.555E-9
1	A	20.38095	115.00000	0.00000	0.72708	-0.12500	-23.537E-9	-0.0027421	54.839E-9
1	A	25.47619	115.00000	0.00000	0.76534	-0.12500	-38.033E-9	-0.0035668	71.331E-9
1	A	30.57143	115.00000	0.00000	0.78231	-0.12500	-61.316E-9	-0.0046428	92.850E-9
1	A	35.66667	115.00000	0.00000	0.76450	-0.12500	-96.036E-9	-0.0059565	119.12E-9
1	A	40.76190	115.00000	0.00000	0.69954	-0.12500	-140.17E-9	-0.0073569	147.12E-9
1	A	45.85714	115.00000	0.00000	0.59113	-0.12500	-180.50E-9	-0.0084929	169.84E-9
1	A	50.95238	115.00000	0.00000	0.49084	-0.12500	-194.85E-9	-0.0089296	178.57E-9
1	A	56.04762	115.00000	0.00000	0.50777	-0.12500	-173.01E-9	-0.0084956	169.89E-9
1	A	61.14286	115.00000	0.00000	0.70006	-0.12500	-130.07E-9	-0.0074658	149.30E-9
1	A	66.23810	115.00000	0.00000	0.98282	-0.12500	-87.901E-9	-0.0062935	125.86E-9
1	A	71.33333	115.00000	0.00000	1.24681	-0.12500	-56.877E-9	-0.0052909	105.81E-9
1	A	76.42857	115.00000	0.00000	1.45402	-0.12500	-37.215E-9	-0.0045713	91.421E-9
1	A	81.52381	115.00000	0.00000	1.61258	-0.12500	-25.847E-9	-0.0041334	82.665E-9
1	A	86.61905	115.00000	0.00000	1.73946	-0.12500	-19.902E-9	-0.0039380	78.757E-9
1	A	91.71429	115.00000	0.00000	1.84729	-0.12500	-17.468E-9	-0.0039432	78.863E-9
1	A	96.80952	115.00000	0.00000	1.94316	-0.12500	-17.442E-9	-0.0041158	82.313E-9
1	A	101.90476	115.00000	0.00000	2.03021	-0.12500	-19.233E-9	-0.0044300	88.597E-9
1	A	107.00000	115.00000	0.00000	1.12004	-0.083333	-6.6785E-9	-0.0032429	64.858E-9
1	A	0.00000	120.00000	0.00000	0.49644	-0.12500	-3.3708E-9	-974.09E-6	19.481E-9
1	A	5.09524	120.00000	0.00000	0.54420	-0.12500	-4.8357E-9	-0.0011782	23.564E-9
1	A	10.19048	120.00000	0.00000	0.59467	-0.12500	-7.0519E-9	-0.0014397	28.794E-9
1	A	15.28571	120.00000	0.00000	0.64646	-0.12500	-10.425E-9	-0.0017752	35.503E-9
1	A	20.38095	120.00000	0.00000	0.69727	-0.12500	-15.539E-9	-0.0022028	44.054E-9
1	A	25.47619	120.00000	0.00000	0.74366	-0.12500	-23.136E-9	-0.0027370	54.738E-9
1	A	30.57143	120.00000	0.00000	0.78123	-0.12500	-33.904E-9	-0.0033779	67.553E-9
1	A	35.66667	120.00000	0.00000	0.80551	-0.12500	-47.838E-9	-0.0040908	81.810E-9
1	A	40.76190	120.00000	0.00000	0.81488	-0.12500	-63.135E-9	-0.0047858	95.708E-9
1	A	45.85714	120.00000	0.00000	0.81599	-0.12500	-75.466E-9	-0.0053186	106.36E-9
1	A	50.95238	120.00000	0.00000	0.82936	-0.12500	-79.599E-9	-0.0055462	110.91E-9
1	A	56.04762	120.00000	0.00000	0.88356	-0.12500	-73.497E-9	-0.0054194	108.38E-9
1	A	61.14286	120.00000	0.00000	0.99038	-0.12500	-60.341E-9	-0.0050237	100.47E-9
1	A	66.23810	120.00000	0.00000	1.13009	-0.12500	-45.566E-9	-0.0045170	90.334E-9
1	A	71.33333	120.00000	0.00000	1.27228	-0.12500	-32.989E-9	-0.0040386	80.767E-9
1	A	76.42857	120.00000	0.00000	1.39954	-0.12500	-23.890E-9	-0.0036680	73.357E-9
1	A	81.52381	120.00000	0.00000	1.50902	-0.12500	-18.029E-9	-0.0034332	68.661E-9
1	A	86.61905	120.00000	0.00000	1.60435	-0.12500	-14.699E-9	-0.0033333	66.664E-9
1	A	91.71429	120.00000	0.00000	1.68984	-0.12500	-13.243E-9	-0.0033562	67.121E-9
1	A	96.80952	120.00000	0.00000	1.76840	-0.12500	-13.187E-9	-0.0034866	69.731E-9
1	A	101.90476	120.00000	0.00000	1.84130	-0.12500	-14.225E-9	-0.0037096	74.191E-9
1	A	107.00000	120.00000	0.00000	1.03962	-0.083333	-4.7875E-9	-0.0026732	53.463E-9
1	A	0.00000	125.00000	0.00000	0.47194	-0.12500	-2.6969E-9	-871.24E-6	17.424E-9
1	A	5.09524	125.00000	0.00000	0.51620	-0.12500	-3.7346E-9	-0.0010343	20.686E-9
1	A	10.19048	125.00000	0.00000	0.56326	-0.12500	-5.2216E-9	-0.0012358	24.715E-9
1	A	15.28571	125.00000	0.00000	0.61232	-0.12500	-7.3433E-9	-0.0014832	29.663E-9
1	A	20.38095	125.00000	0.00000	0.66209	-0.12500	-10.325E-9	-0.0017828	35.655E-9
1	A	25.47619	125.00000	0.00000	0.71086	-0.12500	-14.381E-9	-0.0021360	42.719E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	30.57143	125.00000	0.00000	0.75669	-0.12500	-19.593E-9	-0.0025336	50.670E-9
1	A	35.66667	125.00000	0.00000	0.79810	-0.12500	-25.674E-9	-0.0029488	58.973E-9
1	A	40.76190	125.00000	0.00000	0.83531	-0.12500	-31.725E-9	-0.0033334	66.665E-9
1	A	45.85714	125.00000	0.00000	0.87187	-0.12500	-36.253E-9	-0.0036249	72.494E-9
1	A	50.95238	125.00000	0.00000	0.91516	-0.12500	-37.775E-9	-0.0037694	75.384E-9
1	A	56.04762	125.00000	0.00000	0.97334	-0.12500	-35.770E-9	-0.0037505	75.005E-9
1	A	61.14286	125.00000	0.00000	1.04916	-0.12500	-31.092E-9	-0.0036000	71.996E-9
1	A	66.23810	125.00000	0.00000	1.13709	-0.12500	-25.350E-9	-0.0033808	67.614E-9
1	A	71.33333	125.00000	0.00000	1.22782	-0.12500	-19.955E-9	-0.0031573	63.145E-9
1	A	76.42857	125.00000	0.00000	1.31446	-0.12500	-15.661E-9	-0.0029758	59.514E-9
1	A	81.52381	125.00000	0.00000	1.39447	-0.12500	-12.660E-9	-0.0028610	57.218E-9
1	A	86.61905	125.00000	0.00000	1.46815	-0.12500	-10.846E-9	-0.0028214	56.426E-9
1	A	91.71429	125.00000	0.00000	1.53672	-0.12500	-10.020E-9	-0.0028558	57.114E-9
1	A	96.80952	125.00000	0.00000	1.60113	-0.12500	-9.9951E-9	-0.0029583	59.164E-9
1	A	101.90476	125.00000	0.00000	1.66163	-0.12500	-10.619E-9	-0.0031203	62.404E-9
1	A	107.00000	125.00000	0.00000	0.95484	-0.083333	-3.4888E-9	-0.0022208	44.416E-9
1	A	0.00000	130.00000	0.00000	0.44702	-0.12500	-2.1417E-9	-777.28E-6	15.545E-9
1	A	5.09524	130.00000	0.00000	0.48767	-0.12500	-2.8696E-9	-907.18E-6	18.143E-9
1	A	10.19048	130.00000	0.00000	0.53101	-0.12500	-3.8620E-9	-0.0010624	21.248E-9
1	A	15.28571	130.00000	0.00000	0.57657	-0.12500	-5.1990E-9	-0.0012460	24.920E-9
1	A	20.38095	130.00000	0.00000	0.62361	-0.12500	-6.9593E-9	-0.0014592	29.183E-9
1	A	25.47619	130.00000	0.00000	0.67122	-0.12500	-9.1886E-9	-0.0016993	33.985E-9
1	A	30.57143	130.00000	0.00000	0.71844	-0.12500	-11.842E-9	-0.0019574	39.147E-9
1	A	35.66667	130.00000	0.00000	0.76464	-0.12500	-14.713E-9	-0.0022162	44.321E-9
1	A	40.76190	130.00000	0.00000	0.80999	-0.12500	-17.388E-9	-0.0024500	48.998E-9
1	A	45.85714	130.00000	0.00000	0.85591	-0.12500	-19.311E-9	-0.0026302	52.602E-9
1	A	50.95238	130.00000	0.00000	0.90490	-0.12500	-19.994E-9	-0.0027342	54.682E-9
1	A	56.04762	130.00000	0.00000	0.95935	-0.12500	-19.280E-9	-0.0027559	55.116E-9
1	A	61.14286	130.00000	0.00000	1.01991	-0.12500	-17.445E-9	-0.0027091	54.180E-9
1	A	66.23810	130.00000	0.00000	1.08477	-0.12500	-15.036E-9	-0.0026216	52.430E-9
1	A	71.33333	130.00000	0.00000	1.15082	-0.12500	-12.609E-9	-0.0025247	50.493E-9
1	A	76.42857	130.00000	0.00000	1.21541	-0.12500	-10.541E-9	-0.0024445	48.888E-9
1	A	81.52381	130.00000	0.00000	1.27717	-0.12500	-9.0078E-9	-0.0023979	47.958E-9
1	A	86.61905	130.00000	0.00000	1.33584	-0.12500	-8.0408E-9	-0.0023936	47.872E-9
1	A	91.71429	130.00000	0.00000	1.39161	-0.12500	-7.5965E-9	-0.0024338	48.676E-9
1	A	96.80952	130.00000	0.00000	1.44462	-0.12500	-7.6064E-9	-0.0025165	50.329E-9
1	A	101.90476	130.00000	0.00000	1.49468	-0.12500	-7.9993E-9	-0.0026368	52.736E-9
1	A	107.00000	130.00000	0.00000	0.87081	-0.083333	-2.5798E-9	-0.0018586	37.171E-9
1	A	0.00000	135.00000	0.00000	0.42210	-0.12500	-1.6958E-9	-693.18E-6	13.863E-9
1	A	5.09524	135.00000	0.00000	0.45915	-0.12500	-2.2050E-9	-796.80E-6	15.936E-9
1	A	10.19048	135.00000	0.00000	0.49867	-0.12500	-2.8687E-9	-917.12E-6	18.342E-9
1	A	15.28571	135.00000	0.00000	0.54035	-0.12500	-3.7194E-9	-0.0010550	21.100E-9
1	A	20.38095	135.00000	0.00000	0.58374	-0.12500	-4.7797E-9	-0.0012097	24.194E-9
1	A	25.47619	135.00000	0.00000	0.62829	-0.12500	-6.0468E-9	-0.0013781	27.561E-9
1	A	30.57143	135.00000	0.00000	0.67343	-0.12500	-7.4693E-9	-0.0015534	31.066E-9
1	A	35.66667	135.00000	0.00000	0.71876	-0.12500	-8.9265E-9	-0.0017249	34.496E-9
1	A	40.76190	135.00000	0.00000	0.76420	-0.12500	-10.227E-9	-0.0018789	37.576E-9
1	A	45.85714	135.00000	0.00000	0.81014	-0.12500	-11.148E-9	-0.0020013	40.025E-9
1	A	50.95238	135.00000	0.00000	0.85730	-0.12500	-11.509E-9	-0.0020820	41.639E-9
1	A	56.04762	135.00000	0.00000	0.90631	-0.12500	-11.258E-9	-0.0021185	42.369E-9
1	A	61.14286	135.00000	0.00000	0.95724	-0.12500	-10.496E-9	-0.0021175	42.349E-9
1	A	66.23810	135.00000	0.00000	1.00940	-0.12500	-9.4331E-9	-0.0020924	41.846E-9
1	A	71.33333	135.00000	0.00000	1.06166	-0.12500	-8.3035E-9	-0.0020592	41.183E-9
1	A	76.42857	135.00000	0.00000	1.11299	-0.12500	-7.2928E-9	-0.0020327	40.653E-9
1	A	81.52381	135.00000	0.00000	1.16275	-0.12500	-6.5130E-9	-0.0020236	40.472E-9
1	A	86.61905	135.00000	0.00000	1.21066	-0.12500	-6.0100E-9	-0.0020386	40.771E-9
1	A	91.71429	135.00000	0.00000	1.25665	-0.12500	-5.7863E-9	-0.0020801	41.602E-9
1	A	96.80952	135.00000	0.00000	1.30054	-0.12500	-5.8201E-9	-0.0021479	42.958E-9
1	A	101.90476	135.00000	0.00000	1.34197	-0.12500	-6.0787E-9	-0.0022392	44.783E-9
1	A	107.00000	135.00000	0.00000	0.79052	-0.083333	-1.9329E-9	-0.0015662	31.324E-9
1	A	0.00000	140.00000	0.00000	0.39757	-0.12500	-1.3435E-9	-618.92E-6	12.378E-9
1	A	5.09524	140.00000	0.00000	0.43114	-0.12500	-1.7005E-9	-701.98E-6	14.039E-9
1	A	10.19048	140.00000	0.00000	0.46688	-0.12500	-2.1480E-9	-796.10E-6	15.922E-9
1	A	15.28571	140.00000	0.00000	0.50460	-0.12500	-2.6973E-9	-901.18E-6	18.023E-9
1	A	20.38095	140.00000	0.00000	0.54398	-0.12500	-3.3517E-9	-0.0010160	20.320E-9
1	A	25.47619	140.00000	0.00000	0.58464	-0.12500	-4.0982E-9	-0.0011379	22.757E-9
1	A	30.57143	140.00000	0.00000	0.62618	-0.12500	-4.8997E-9	-0.0012620	25.240E-9
1	A	35.66667	140.00000	0.00000	0.66827	-0.12500	-5.6897E-9	-0.0013820	27.640E-9
1	A	40.76190	140.00000	0.00000	0.71068	-0.12500	-6.3774E-9	-0.0014903	29.805E-9
1	A	45.85714	140.00000	0.00000	0.75337	-0.12500	-6.8662E-9	-0.0015796	31.591E-9
1	A	50.95238	140.00000	0.00000	0.79642	-0.12500	-7.0841E-9	-0.0016450	32.900E-9
1	A	56.04762	140.00000	0.00000	0.83990	-0.12500	-7.0115E-9	-0.0016856	33.710E-9
1	A	61.14286	140.00000	0.00000	0.88370	-0.12500	-6.6907E-9	-0.0017047	34.093E-9
1	A	66.23810	140.00000	0.00000	0.92750	-0.12500	-6.2107E-9	-0.0017093	34.185E-9
1	A	71.33333	140.00000	0.00000	0.97084	-0.12500	-5.6766E-9	-0.0017081	34.161E-9
1	A	76.42857	140.00000	0.00000	1.01331	-0.12500	-5.1811E-9	-0.0017094	34.187E-9
1	A	81.52381	140.00000	0.00000	1.05459	-0.12500	-4.7895E-9	-0.0017200	34.399E-9
1	A	86.61905	140.00000	0.00000	1.09449	-0.12500	-4.5374E-9	-0.0017442	34.884E-9
1	A	91.71429	140.00000	0.00000	1.13284	-0.12500	-4.4365E-9	-0.0017844	35.688E-9
1	A	96.80952	140.00000	0.00000	1.16941	-0.12500	-4.4822E-9	-0.0018405	36.810E-9
1	A	101.90476	140.00000	0.00000	1.20381	-0.12500	-4.6594E-9	-0.0019110	38.220E-9
1	A	107.00000	140.00000	0.00000	0.71557	-0.083333	-1.4657E-9	-0.0013285	26.571E-9
1	A	0.00000	145.00000	0.00000	0.37371	-0.12500	-1.0678E-9	-553.86E-6	11.077E-9
1	A	5.09524	145.00000	0.00000	0.40399	-0.12500	-1.3199E-9	-620.93E-6	12.418E-9
1	A	10.19048	145.00000	0.00000	0.43614	-0.12500	-1.6250E-9	-695.39E-6	13.908E-9
1	A	15.28571	145.00000	0.00000	0.47001	-0.12500	-1.9862E-9	-776.81E-6	15.536E-9
1	A	20.38095	145.00000	0.00000	0.50538	-0.12500	-2.4009E-9	-864.00E-6	17.280E-9
1	A	25.47619	145.00000	0.00000	0.54195	-0.12500	-2.8570E-9	-954.85E-6	19.097E-9
1	A	30.57143	145.00000	0.00000	0.57941	-0.12500	-3.3306E-9	-0.0010462	20.924E-9
1	A	35.66667	145.00000	0.00000	0.61744	-0.12500	-3.7855E-9	-0.0011342	22.683E-9
1	A	40.76190	145.00000	0.00000	0.65580	-0.12500	-4.1770E-9	-0.0012144	24.287E-9
1	A	45.85714	145.00000	0.00000	0.69428	-0.12500	-4.4607E-9	-0.0012829	25.658E-9
1	A	50.95238	145.00000	0.00000	0.73275	-0.12500	-4.6057E-9	-0.0013374	26.747E-9
1	A	56.04762	145.00000	0.00000	0.77109	-0.12500	-4.6043E-9	-0.0013772	27.544E-9
1	A	61.14286	145.00000	0.00000	0.80914	-0.12500	-4.4759E-9	-0.0014044	28.088E-9
1	A	66.23810	145.00000	0.00000	0.84671	-0.12500	-4.2612E-9	-0.0014228	28.455E-9
1	A	71.33333	145.00000	0.00000	0.88358	-0.12500	-4.0105E-9	-0.0014370	28.740E-9
1	A	76.42857	145.00000	0.00000	0.91955	-0.12500	-3.7714E-9	-0.0014521	29.042E-9
1	A	81.52381	145.00000	0.00000	0.95445	-0.12500	-3.5810E-9	-0.0014721	29.442E-9
1	A	86.61905	145.00000	0.00000	0.98813	-0.12500	-3.4629E-9	-0.0015000	29.999E-9
1	A	91.71429	145.00000	0.00000	1.02042	-0.12500	-3.4279E-9	-0.0015372	30.743E-9
1	A	96.80952	145.00000	0.00000	1.05108	-0.12500	-3.4766E-9	-0.0015839	31.678E-9
1	A	101.90476	145.00000	0.00000	1.07975	-0.12500	-3.6023E-9	-0.0016392	32.783E-9
1	A	107.00000	145.00000	0.00000	0.64666	-0.083333	-1.1238E-9	-0.0011340	22.679E-9
1	A	0.00000	150.00000	0.00000	0.35077	-0.12500	-853.11E-12	-497.10E-6	9.9419E-9
1	A	5.09524	150.00000	0.00000	0.37798	-0.12500	-1.0327E-9	-551.72E-6	11.034E-9
1	A	10.19048	150.00000	0.00000	0.40678	-0.12500	-1.2438E-9	-611.37E-6	12.227E-9
1	A	15.28571	150.00000	0.00000	0.43706	-0.12500	-1.4862E-9	-675.51E-6	13.510E-9
1	A	20.38095	150.00000	0.00000	0.46861	-0.12500	-1.7563E-9	-743.17E-6	14.863E-9
1	A	25.47619	150.00000	0.00000	0.50122	-0.12500	-2.0450E-9	-812.80E-6	16.256E-9
1	A	30.57143	150.00000	0.00000	0.53462	-0.12500	-2.3377E-9	-882.33E-6	17.646E-9
1	A	35.66667	150.00000	0.00000	0.56854	-0.12500	-2.6144E-9	-949.30E-6	18.986E-9
1	A	40.76190	150.00000	0.00000	0.60272	-0.12500	-2.8523E-9	-0.0010112	20.223E-9
1	A	45.85714	150.00000	0.00000	0.63693	-0.12500	-3.0300E-9	-0.0010658	21.315E-9
1	A	50.95238	150.00000	0.00000	0.67098	-0.12500	-3.1333E-9	-0.0011118	22.235E-9
1	A	56.04762	150.00000	0.00000	0.70468	-0.12500	-3.1593E-9	-0.0011490	22.979E-9
1	A	61.14286	150.00000	0.00000	0.73790	-0.12500	-3.1174E-9	-0.0011785	23.569E-9
1	A	66.23810	150.00000	0.00000	0.77047	-0.12500	-3.0277E-9	-0.0012024	24.048E-9
1	A	71.33333	150.00000	0.00000	0.80225	-0.12500	-2.9154E-9	-0.0012235	24.470E-9
1	A	76.42857	150.00000	0.00000	0.83313	-0.12500	-2.8056E-9	-0.0012447	24.893E-9
1	A	81.52381	150.00000	0.00000	0.86299	-0.12500	-2.7196E-9	-0.0012684	25.368E-9
1	A	86.61905	150.00000	0.00000	0.89170	-0.12500	-2.6719E-9	-0.0012965	25.930E-9
1	A	91.71429	150.00000	0.00000	0.91909	-0.12500	-2.6705E-9	-0.0013301	26.601E-9
1	A	96.80952	150.00000	0.00000	0.94494	-0.12500	-2.7171E-9	-0.0013691	27.383E-9
1	A	101.90476	150.00000	0.00000	0.96894	-0.12500	-2.8087E-9	-0.0014131	28.261E-9
1	A	107.00000	150.00000	0.00000	0.58398	-0.083333	-870.62E-12	-973.64E-6	19.473E-9
2	B	107.00000	0.00000	0.00000	0.84653	-0.083333	-2.0493E-9	-0.0015131	30.261E-9
2	B	112.15000	0.00000	0.00000	0.87365	-0.083333	-2.3277E-9	-0.0016271	32.541E-9
2	B	117.30000	0.00000	0.00000	0.89688	-0.083333	-2.5877E-9	-0.0017308	34.616E-9
2	B	122.45000	0.00000	0.00000	0.91556	-0.083333	-2.8059E-9	-0.0018178	36.356E-9
2	B	127.60000	0.00000	0.00000	0.92911	-0.083333	-2.9613E-9	-0.0018822	37.644E-9
2	B	132.75000	0.00000	0.00000	0.93703	-0.083333	-3.0394E-9	-0.0019198	38.396E-9
2	B	137.90000	0.00000	0.00000	0.93899	-0.083333	-3.0360E-9	-0.0019285	38.570E-9
2	B	143.05000	0.00000	0.00000	0.93483	-0.083333	-2.9567E-9	-0.0019087	38.173E-9
2	B	148.20000	0.00000	0.00000	0.92454	-0.083333	-2.8142E-9	-0.0018626	37.252E-9
2	B	153.35000	0.00000	0.00000	0.90832	-0.083333	-2.6248E-9	-0.0017941	35.881E-9
2	B	158.50000	0.00000	0.00000	0.88650	-0.083333	-2.4046E-9	-0.0017074	34.148E-9
2	B	163.65000	0.00000	0.00000	0.85956	-0.083333	-2.1679E-9	-0.0016074	32.148E-9
2	B	168.80000	0.00000	0.00000	0.82809	-0.083333	-1.9266E-9	-0.0014985	29.971E-9
2	B	173.95000	0.00000	0.00000	0.79277	-0.083333	-1.6901E-9	-0.0013850	27.701E-9
2	B	179.10000	0.00000	0.00000	0.75433	-0.083333	-1.4654E-9	-0.0012705	25.410E-9

Highgate Schools
Dyne House and Island Building GMA
A2 Demo + Loading + Excav (LT)

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	184.25000	0.00000	0.00000	0.71358	-0.083333	-1.2575E-9	-0.0011580	23.160E-9
2	B	189.40000	0.00000	0.00000	0.67134	-0.083333	-1.0698E-9	-0.0010499	20.998E-9
2	B	194.55000	0.00000	0.00000	0.62842	-0.083333	-903.43E-12	-947.87E-6	18.957E-9
2	B	199.70000	0.00000	0.00000	0.58558	-0.083333	-758.64E-12	-853.05E-6	17.061E-9
2	B	204.85000	0.00000	0.00000	0.54350	-0.083333	-634.40E-12	-766.01E-6	15.320E-9
2	B	210.00000	0.00000	0.00000	0.50276	-0.083333	-529.04E-12	-686.90E-6	13.738E-9
2	B	107.00000	5.00000	0.00000	0.92999	-0.083333	-2.8910E-9	-0.0018355	36.710E-9
2	B	112.15000	5.00000	0.00000	0.96021	-0.083333	-3.3511E-9	-0.0019960	39.919E-9
2	B	117.30000	5.00000	0.00000	0.98588	-0.083333	-3.7885E-9	-0.0021438	42.876E-9
2	B	122.45000	5.00000	0.00000	1.00630	-0.083333	-4.1579E-9	-0.0022686	45.372E-9
2	B	127.60000	5.00000	0.00000	1.02086	-0.083333	-4.4167E-9	-0.0023607	47.213E-9
2	B	132.75000	5.00000	0.00000	1.02909	-0.083333	-4.5368E-9	-0.0024131	48.260E-9
2	B	137.90000	5.00000	0.00000	1.03068	-0.083333	-4.5122E-9	-0.0024228	48.456E-9
2	B	143.05000	5.00000	0.00000	1.02551	-0.083333	-4.3582E-9	-0.0023912	47.824E-9
2	B	148.20000	5.00000	0.00000	1.01365	-0.083333	-4.1033E-9	-0.0023227	46.454E-9
2	B	153.35000	5.00000	0.00000	0.99536	-0.083333	-3.7799E-9	-0.0022237	44.473E-9
2	B	158.50000	5.00000	0.00000	0.97103	-0.083333	-3.4173E-9	-0.0021012	42.023E-9
2	B	163.65000	5.00000	0.00000	0.94116	-0.083333	-3.0389E-9	-0.0019623	39.245E-9
2	B	168.80000	5.00000	0.00000	0.90634	-0.083333	-2.6624E-9	-0.0018135	36.271E-9
2	B	173.95000	5.00000	0.00000	0.86722	-0.083333	-2.3011E-9	-0.0016607	33.214E-9
2	B	179.10000	5.00000	0.00000	0.82455	-0.083333	-1.9647E-9	-0.0015087	30.175E-9
2	B	184.25000	5.00000	0.00000	0.77914	-0.083333	-1.6595E-9	-0.0013616	27.232E-9
2	B	189.40000	5.00000	0.00000	0.73188	-0.083333	-1.3890E-9	-0.0012222	24.444E-9
2	B	194.55000	5.00000	0.00000	0.68371	-0.083333	-1.1542E-9	-0.0010926	21.852E-9
2	B	199.70000	5.00000	0.00000	0.63555	-0.083333	-953.78E-12	-973.88E-6	19.477E-9
2	B	204.85000	5.00000	0.00000	0.58822	-0.083333	-785.25E-12	-866.44E-6	17.329E-9
2	B	210.00000	5.00000	0.00000	0.54245	-0.083333	-645.11E-12	-770.16E-6	15.403E-9
2	B	107.00000	10.00000	0.00000	1.01421	-0.083333	-4.1846E-9	-0.0022551	45.102E-9
2	B	112.15000	10.00000	0.00000	1.04652	-0.083333	-4.9778E-9	-0.0024867	49.734E-9
2	B	117.30000	10.00000	0.00000	1.07341	-0.083333	-5.7507E-9	-0.0027037	54.074E-9
2	B	122.45000	10.00000	0.00000	1.09425	-0.083333	-6.4094E-9	-0.0028882	57.763E-9
2	B	127.60000	10.00000	0.00000	1.10852	-0.083333	-6.8614E-9	-0.0030232	60.464E-9
2	B	132.75000	10.00000	0.00000	1.11586	-0.083333	-7.0473E-9	-0.0030971	61.942E-9
2	B	137.90000	10.00000	0.00000	1.11611	-0.083333	-6.9604E-9	-0.0031058	62.115E-9
2	B	143.05000	10.00000	0.00000	1.10930	-0.083333	-6.6432E-9	-0.0030527	61.053E-9
2	B	148.20000	10.00000	0.00000	1.09565	-0.083333	-6.1635E-9	-0.0029469	58.937E-9
2	B	153.35000	10.00000	0.00000	1.07554	-0.083333	-5.5890E-9	-0.0027996	55.992E-9
2	B	158.50000	10.00000	0.00000	1.04940	-0.083333	-4.9729E-9	-0.0026225	52.450E-9
2	B	163.65000	10.00000	0.00000	1.01770	-0.083333	-4.3520E-9	-0.0024260	48.520E-9
2	B	168.80000	10.00000	0.00000	0.98089	-0.083333	-3.7512E-9	-0.0022194	44.388E-9
2	B	173.95000	10.00000	0.00000	0.93942	-0.083333	-3.1880E-9	-0.0020107	40.213E-9
2	B	179.10000	10.00000	0.00000	0.89383	-0.083333	-2.6745E-9	-0.0018064	36.128E-9
2	B	184.25000	10.00000	0.00000	0.84482	-0.083333	-2.2184E-9	-0.0016118	32.236E-9
2	B	189.40000	10.00000	0.00000	0.79328	-0.083333	-1.8227E-9	-0.0014304	28.608E-9
2	B	194.55000	10.00000	0.00000	0.74028	-0.083333	-1.4868E-9	-0.0012645	25.289E-9
2	B	199.70000	10.00000	0.00000	0.68694	-0.083333	-1.2065E-9	-0.0011150	22.299E-9
2	B	204.85000	10.00000	0.00000	0.63432	-0.083333	-976.10E-12	-981.80E-6	19.636E-9
2	B	210.00000	10.00000	0.00000	0.58339	-0.083333	-788.67E-12	-864.28E-6	17.286E-9
2	B	107.00000	15.00000	0.00000	1.09371	-0.083333	-6.2371E-9	-0.0028105	56.210E-9
2	B	112.15000	15.00000	0.00000	1.12568	-0.083333	-7.6740E-9	-0.0031550	63.099E-9
2	B	117.30000	15.00000	0.00000	1.15102	-0.083333	-9.1244E-9	-0.0034848	69.695E-9
2	B	122.45000	15.00000	0.00000	1.16938	-0.083333	-10.380E-9	-0.0037678	75.355E-9
2	B	127.60000	15.00000	0.00000	1.18057	-0.083333	-11.221E-9	-0.0039728	79.454E-9
2	B	132.75000	15.00000	0.00000	1.18454	-0.083333	-11.506E-9	-0.0040781	81.562E-9
2	B	137.90000	15.00000	0.00000	1.18150	-0.083333	-11.236E-9	-0.0040786	81.571E-9
2	B	143.05000	15.00000	0.00000	1.17186	-0.083333	-10.536E-9	-0.0039841	79.681E-9
2	B	148.20000	15.00000	0.00000	1.15615	-0.083333	-9.5798E-9	-0.0038136	76.270E-9
2	B	153.35000	15.00000	0.00000	1.13495	-0.083333	-8.5134E-9	-0.0035878	71.755E-9
2	B	158.50000	15.00000	0.00000	1.10877	-0.083333	-7.4312E-9	-0.0033254	66.508E-9
2	B	163.65000	15.00000	0.00000	1.07768	-0.083333	-6.3848E-9	-0.0030419	60.837E-9
2	B	168.80000	15.00000	0.00000	1.04233	-0.083333	-5.4029E-9	-0.0027500	55.000E-9
2	B	173.95000	15.00000	0.00000	1.00195	-0.083333	-4.5045E-9	-0.0024605	49.210E-9
2	B	179.10000	15.00000	0.00000	0.95665	-0.083333	-3.7035E-9	-0.0021822	43.643E-9
2	B	184.25000	15.00000	0.00000	0.90668	-0.083333	-3.0080E-9	-0.0019216	38.432E-9
2	B	189.40000	15.00000	0.00000	0.85281	-0.083333	-2.4191E-9	-0.0016832	33.664E-9
2	B	194.55000	15.00000	0.00000	0.79624	-0.083333	-1.9316E-9	-0.0014691	29.381E-9
2	B	199.70000	15.00000	0.00000	0.73843	-0.083333	-1.5354E-9	-0.0012797	25.593E-9
2	B	204.85000	15.00000	0.00000	0.68085	-0.083333	-1.2179E-9	-0.0011140	22.280E-9
2	B	210.00000	15.00000	0.00000	0.62475	-0.083333	-966.00E-12	-970.27E-6	19.405E-9
2	B	107.00000	20.00000	0.00000	1.15937	-0.083333	-9.6079E-9	-0.0035592	71.182E-9
2	B	112.15000	20.00000	0.00000	1.18592	-0.083333	-12.367E-9	-0.0040899	81.796E-9
2	B	117.30000	20.00000	0.00000	1.20402	-0.083333	-15.300E-9	-0.0046135	92.268E-9
2	B	122.45000	20.00000	0.00000	1.21408	-0.083333	-17.912E-9	-0.0050694	101.39E-9
2	B	127.60000	20.00000	0.00000	1.21663	-0.083333	-19.617E-9	-0.0053943	107.88E-9
2	B	132.75000	20.00000	0.00000	1.21237	-0.083333	-20.029E-9	-0.0055454	110.91E-9
2	B	137.90000	20.00000	0.00000	1.20225	-0.083333	-19.196E-9	-0.0055172	110.34E-9
2	B	143.05000	20.00000	0.00000	1.18749	-0.083333	-17.523E-9	-0.0053376	106.75E-9
2	B	148.20000	20.00000	0.00000	1.16929	-0.083333	-15.486E-9	-0.0050491	100.98E-9
2	B	153.35000	20.00000	0.00000	1.14864	-0.083333	-13.410E-9	-0.0046910	93.818E-9
2	B	158.50000	20.00000	0.00000	1.12612	-0.083333	-11.443E-9	-0.0042927	85.852E-9
2	B	163.65000	20.00000	0.00000	1.10163	-0.083333	-9.6310E-9	-0.0038753	77.505E-9
2	B	168.80000	20.00000	0.00000	1.07422	-0.083333	-7.9834E-9	-0.0034554	69.107E-9
2	B	173.95000	20.00000	0.00000	1.04223	-0.083333	-6.5119E-9	-0.0030470	60.940E-9
2	B	179.10000	20.00000	0.00000	1.00398	-0.083333	-5.2297E-9	-0.0026618	53.236E-9
2	B	184.25000	20.00000	0.00000	0.95860	-0.083333	-4.1440E-9	-0.0023083	46.166E-9
2	B	189.40000	20.00000	0.00000	0.90643	-0.083333	-3.2499E-9	-0.0019915	39.830E-9
2	B	194.55000	20.00000	0.00000	0.84895	-0.083333	-2.5314E-9	-0.0017130	34.259E-9
2	B	199.70000	20.00000	0.00000	0.78827	-0.083333	-1.9648E-9	-0.0014717	29.434E-9
2	B	204.85000	20.00000	0.00000	0.72657	-0.083333	-1.5241E-9	-0.0012649	25.298E-9
2	B	210.00000	20.00000	0.00000	0.66576	-0.083333	-1.1842E-9	-0.0010889	21.778E-9
2	B	107.00000	25.00000	0.00000	1.19647	-0.083333	-15.346E-9	-0.0045870	91.738E-9
2	B	112.15000	25.00000	0.00000	1.20749	-0.083333	-21.011E-9	-0.0054389	108.78E-9
2	B	117.30000	25.00000	0.00000	1.20721	-0.083333	-27.522E-9	-0.0063175	126.35E-9
2	B	122.45000	25.00000	0.00000	1.19775	-0.083333	-33.634E-9	-0.0071017	142.03E-9
2	B	127.60000	25.00000	0.00000	1.18105	-0.083333	-37.551E-9	-0.0076495	152.99E-9
2	B	132.75000	25.00000	0.00000	1.15911	-0.083333	-38.008E-9	-0.0078639	157.27E-9
2	B	137.90000	25.00000	0.00000	1.13453	-0.083333	-35.288E-9	-0.0077458	154.91E-9
2	B	143.05000	25.00000	0.00000	1.11019	-0.083333	-30.870E-9	-0.0073782	147.56E-9
2	B	148.20000	25.00000	0.00000	1.08864	-0.083333	-26.184E-9	-0.0068629	137.25E-9
2	B	153.35000	25.00000	0.00000	1.07165	-0.083333	-21.935E-9	-0.0062745	125.49E-9
2	B	158.50000	25.00000	0.00000	1.06005	-0.083333	-18.243E-9	-0.0056550	113.10E-9
2	B	163.65000	25.00000	0.00000	1.05311	-0.083333	-15.014E-9	-0.0050280	100.56E-9
2	B	168.80000	25.00000	0.00000	1.04783	-0.083333	-12.165E-9	-0.0044120	88.239E-9
2	B	173.95000	25.00000	0.00000	1.03913	-0.083333	-9.6756E-9	-0.0038248	76.495E-9
2	B	179.10000	25.00000	0.00000	1.02153	-0.083333	-7.5564E-9	-0.0032821	65.642E-9
2	B	184.25000	25.00000	0.00000	0.99149	-0.083333	-5.8124E-9	-0.0027952	55.903E-9
2	B	189.40000	25.00000	0.00000	0.94857	-0.083333	-4.4233E-9	-0.0023691	47.382E-9
2	B	194.55000	25.00000	0.00000	0.89499	-0.083333	-3.3459E-9	-0.0020037	40.074E-9
2	B	199.70000	25.00000	0.00000	0.83426	-0.083333	-2.5264E-9	-0.0016948	33.895E-9
2	B	204.85000	25.00000	0.00000	0.77001	-0.083333	-1.9107E-9	-0.0014361	28.721E-9
2	B	210.00000	25.00000	0.00000	0.70530	-0.083333	-1.4510E-9	-0.0012206	24.411E-9
2	B	107.00000	30.00000	0.00000	1.18143	-0.083333	-25.445E-9	-0.0060214	120.42E-9
2	B	112.15000	30.00000	0.00000	1.15713	-0.083333	-37.973E-9	-0.0074540	149.08E-9
2	B	117.30000	30.00000	0.00000	1.11688	-0.083333	-54.192E-9	-0.0090355	180.70E-9
2	B	122.45000	30.00000	0.00000	1.06655	-0.083333	-70.965E-9	-0.010515	210.28E-9
2	B	127.60000	30.00000	0.00000	1.01038	-0.083333	-81.842E-9	-0.011529	230.57E-9
2	B	132.75000	30.00000	0.00000	0.95234	-0.083333	-81.513E-9	-0.011815	236.28E-9
2	B	137.90000	30.00000	0.00000	0.89837	-0.083333	-71.543E-9	-0.011411	228.21E-9
2	B	143.05000	30.00000	0.00000	0.85536	-0.083333	-58.327E-9	-0.010590	211.79E-9
2	B	148.20000	30.00000	0.00000	0.82846	-0.083333	-46.581E-9	-0.0096125	192.24E-9
2	B	153.35000	30.00000	0.00000	0.82067	-0.083333	-37.448E-9	-0.0086123	172.24E-9
2	B	158.50000	30.00000	0.00000	0.83356	-0.083333	-30.310E-9	-0.0076274	152.54E-9
2	B	163.65000	30.00000	0.00000	0.86602	-0.083333	-24.389E-9	-0.0066663	133.32E-9
2	B	168.80000	30.00000	0.00000	0.91138	-0.083333	-19.274E-9	-0.0057422	114.84E-9
2	B	173.95000	30.00000	0.00000	0.95661	-0.083333	-14.875E-9	-0.0048777	97.553E-9
2	B	179.10000	30.00000	0.00000	0.98691	-0.083333	-11.222E-9	-0.0040963	81.925E-9
2	B	184.25000	30.00000	0.00000	0.99256	-0.083333	-8.3198E-9	-0.0034134	68.266E-9
2	B	189.40000	30.00000	0.00000	0.97218	-0.083333	-6.1025E-9	-0.0028328	56.656E-9
2	B	194.55000	30.00000	0.00000	0.93037	-0.083333	-4.4574E-9	-0.0023494	46.987E-9
2	B	199.70000	30.00000	0.00000	0.87399	-0.083333	-3.2594E-9	-0.0019522	39.044E-9
2	B	204.85000	30.00000	0.00000	0.80956	-0.083333	-2.3952E-9	-0.0016283	32.565E-9
2	B	210.00000	30.00000	0.00000	0.74223	-0.083333	-1.7735E-9	-0.0013649	27.298E-9
2	B	107.00000	35.00000	0.00000	1.07644	-0.083333	-43.643E-9	-0.0080412	160.82E-9
2	B	112.15000	35.00000	0.00000	0.97703	-0.083333	-73.509E-9	-0.010571	211.41E-9
2	B	117.30000	35.00000	0.00000	0.85394	-0.083333	-119.92E-9	-0.013679	273.57E-9
2	B	122.45000	35.00000	0.00000	0.72172	-0.083333	-177.15E-9	-0.016864	337.26E-9
2	B	127.60000	35.00000	0.00000	0.58708	-0.083333	-217.70E-9	-0.019059	381.16E-9
2	B	132.75000	35.00000	0.00000	0.45470	-0.083333	-210.70E-9	-0.019335	386.67E-9
2	B	137.90000	35.00000	0.00000	0.33855	-0.083333	-166.30E-9	-0.017934	358.67E-9
2	B	143.05000	35.00000	0.00000	0.25722	-0.083333	-119.89E-9	-0.015896	317.91E-9
2	B	148.20000	35.00000	0.00000	0.22031	-0.083333	-87.588E-9	-0.013925	278.48E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	153.35000	35.00000	0.00000	0.23093	-0.083333	-67.173E-9	-0.012177	243.54E-9
2	B	158.50000	35.00000	0.00000	0.29284	-0.083333	-53.097E-9	-0.010586	211.71E-9
2	B	163.65000	35.00000	0.00000	0.40779	-0.083333	-41.862E-9	-0.0090810	181.62E-9
2	B	168.80000	35.00000	0.00000	0.56427	-0.083333	-32.163E-9	-0.0076541	153.08E-9
2	B	173.95000	35.00000	0.00000	0.73027	-0.083333	-23.892E-9	-0.0063410	126.82E-9
2	B	179.10000	35.00000	0.00000	0.86537	-0.083333	-17.230E-9	-0.0051838	103.67E-9
2	B	184.25000	35.00000	0.00000	0.94517	-0.083333	-12.181E-9	-0.0042049	84.096E-9
2	B	189.40000	35.00000	0.00000	0.96948	-0.083333	-8.5332E-9	-0.0034024	68.047E-9
2	B	194.55000	35.00000	0.00000	0.95122	-0.083333	-5.9753E-9	-0.0027579	55.157E-9
2	B	199.70000	35.00000	0.00000	0.90525	-0.083333	-4.2091E-9	-0.0022460	44.919E-9
2	B	204.85000	35.00000	0.00000	0.84375	-0.083333	-2.9945E-9	-0.0018410	36.819E-9
2	B	210.00000	35.00000	0.00000	0.77541	-0.083333	-2.1566E-9	-0.0015204	30.407E-9
2	B	107.00000	40.00000	0.00000	0.81931	-0.083333	-76.372E-9	-0.010861	217.21E-9
2	B	112.15000	40.00000	0.00000	0.55915	-0.083333	-152.12E-9	-0.015521	310.40E-9
2	B	117.30000	40.00000	0.00000	0.26172	-0.083333	-307.46E-9	-0.022289	445.75E-9
2	B	122.45000	40.00000	0.00000	-0.03457	-0.083333	-570.82E-9	-0.030599	611.91E-9
2	B	127.60000	40.00000	0.00000	-0.32578	-0.083333	-812.38E-9	-0.036879	737.48E-9
2	B	132.75000	40.00000	0.00000	-0.62358	-0.083333	-747.78E-9	-0.036452	728.95E-9
2	B	137.90000	40.00000	0.00000	-0.88930	-0.083333	-471.78E-9	-0.030857	617.09E-9
2	B	143.05000	40.00000	0.00000	-1.05500	-0.083333	-270.94E-9	-0.025113	502.24E-9
2	B	148.20000	40.00000	0.00000	-1.11134	-0.083333	-174.36E-9	-0.020921	418.41E-9
2	B	153.35000	40.00000	0.00000	-1.06787	-0.083333	-128.21E-9	-0.017841	356.80E-9
2	B	158.50000	40.00000	0.00000	-0.91499	-0.083333	-100.29E-9	-0.015251	305.00E-9
2	B	163.65000	40.00000	0.00000	-0.63088	-0.083333	-77.825E-9	-0.012830	256.59E-9
2	B	168.80000	40.00000	0.00000	-0.22173	-0.083333	-57.719E-9	-0.010530	210.60E-9
2	B	173.95000	40.00000	0.00000	0.23164	-0.083333	-40.652E-9	-0.0084437	168.87E-9
2	B	179.10000	40.00000	0.00000	0.60369	-0.083333	-27.533E-9	-0.0066644	133.28E-9
2	B	184.25000	40.00000	0.00000	0.83101	-0.083333	-18.270E-9	-0.0052245	104.49E-9
2	B	189.40000	40.00000	0.00000	0.93432	-0.083333	-12.072E-9	-0.0040988	81.974E-9
2	B	194.55000	40.00000	0.00000	0.95508	-0.083333	-8.0333E-9	-0.0032345	64.690E-9
2	B	199.70000	40.00000	0.00000	0.92663	-0.083333	-5.4197E-9	-0.0025751	51.502E-9
2	B	204.85000	40.00000	0.00000	0.87149	-0.083333	-3.7196E-9	-0.0020712	41.424E-9
2	B	210.00000	40.00000	0.00000	0.80392	-0.083333	-2.6001E-9	-0.0016838	33.676E-9
2	B	107.00000	45.00000	0.00000	0.30355	-0.083333	-132.12E-9	-0.014625	292.49E-9
2	B	112.15000	45.00000	0.00000	-0.32806	-0.083333	-327.62E-9	-0.023332	466.60E-9
2	B	117.30000	45.00000	0.00000	-1.02863	-0.083333	-932.82E-9	-0.039595	791.78E-9
2	B	122.45000	45.00000	0.00000	-1.67443	-0.083333	-2.7819E-6	-0.068037	1.3604E-6
2	B	127.60000	45.00000	0.00000	-2.29029	-0.083333	-6.0230E-6	-0.098563	1.9705E-6
2	B	132.75000	45.00000	0.00000	-3.04142	-0.083333	-5.0902E-6	-0.091260	1.8246E-6
2	B	137.90000	45.00000	0.00000	-3.81584	-0.083333	-1.7894E-6	-0.060284	1.2055E-6
2	B	143.05000	45.00000	0.00000	-4.17745	-0.083333	-663.62E-9	-0.041690	833.73E-9
2	B	148.20000	45.00000	0.00000	-4.26287	-0.083333	-367.65E-9	-0.032681	653.58E-9
2	B	153.35000	45.00000	0.00000	-4.16583	-0.083333	-268.60E-9	-0.027409	548.14E-9
2	B	158.50000	45.00000	0.00000	-3.85992	-0.083333	-213.61E-9	-0.023205	464.08E-9
2	B	163.65000	45.00000	0.00000	-3.22993	-0.083333	-163.76E-9	-0.019128	382.54E-9
2	B	168.80000	45.00000	0.00000	-2.16657	-0.083333	-115.15E-9	-0.015148	302.94E-9
2	B	173.95000	45.00000	0.00000	-0.86693	-0.083333	-74.631E-9	-0.011596	231.92E-9
2	B	179.10000	45.00000	0.00000	0.12950	-0.083333	-46.074E-9	-0.0087192	174.38E-9
2	B	184.25000	45.00000	0.00000	0.64028	-0.083333	-28.029E-9	-0.0065378	130.75E-9
2	B	189.40000	45.00000	0.00000	0.86698	-0.083333	-17.194E-9	-0.0049383	98.765E-9
2	B	194.55000	45.00000	0.00000	0.94274	-0.083333	-10.767E-9	-0.0037779	75.557E-9
2	B	199.70000	45.00000	0.00000	0.93825	-0.083333	-6.9180E-9	-0.0029334	58.668E-9
2	B	204.85000	45.00000	0.00000	0.89239	-0.083333	-4.5667E-9	-0.0023126	46.251E-9
2	B	210.00000	45.00000	0.00000	0.82714	-0.083333	-3.0945E-9	-0.0018499	36.998E-9
2	B	107.00000	50.00000	0.00000	-0.65603	-0.083333	-213.75E-9	-0.019118	382.33E-9
2	B	112.15000	50.00000	0.00000	-2.32612	-0.083333	-677.42E-9	-0.034594	691.80E-9
2	B	117.30000	50.00000	0.00000	-4.22711	-0.083333	-3.2226E-6	-0.075068	1.5010E-6
2	B	122.45000	50.00000	0.00000	-5.83348	-0.083333	-28.583E-6	-0.21527	4.3020E-6
2	B	127.60000	50.00000	0.00000	-7.46538	-0.083333	-492.92E-6	-0.75948	15.130E-6
2	B	132.75000	50.00000	0.00000	-9.78351	-0.083333	-429.33E-6	-0.60850	12.119E-6
2	B	137.90000	50.00000	0.00000	-18.31289	-0.083333	-8.7790E-6	-0.13349	2.6687E-6
2	B	143.05000	50.00000	0.00000	-18.96438	-0.083333	-1.6244E-6	-0.071090	1.4216E-6
2	B	148.20000	50.00000	0.00000	-19.05402	-0.083333	-845.86E-9	-0.053626	1.0724E-6
2	B	153.35000	50.00000	0.00000	-18.87961	-0.083333	-667.81E-9	-0.045451	908.95E-9
2	B	158.50000	50.00000	0.00000	-18.36308	-0.083333	-559.87E-9	-0.038661	773.15E-9
2	B	163.65000	50.00000	0.00000	-17.10475	-0.083333	-422.25E-9	-0.031116	622.26E-9
2	B	168.80000	50.00000	0.00000	-12.93332	-0.083333	-269.27E-9	-0.023284	465.65E-9
2	B	173.95000	50.00000	0.00000	-4.02371	-0.083333	-151.10E-9	-0.016566	331.29E-9
2	B	179.10000	50.00000	0.00000	-0.56590	-0.083333	-80.831E-9	-0.011606	232.10E-9
2	B	184.25000	50.00000	0.00000	0.39648	-0.083333	-43.636E-9	-0.0082049	164.09E-9
2	B	189.40000	50.00000	0.00000	0.77090	-0.083333	-24.400E-9	-0.0059197	118.39E-9
2	B	194.55000	50.00000	0.00000	0.91964	-0.083333	-14.246E-9	-0.0043730	87.458E-9
2	B	199.70000	50.00000	0.00000	0.94211	-0.083333	-8.6819E-9	-0.0033063	66.125E-9
2	B	204.85000	50.00000	0.00000	0.90689	-0.083333	-5.5050E-9	-0.0025538	51.076E-9
2	B	210.00000	50.00000	0.00000	0.84484	-0.083333	-3.6166E-9	-0.0020108	40.216E-9
2	B	107.00000	55.00000	0.00000	-2.24497	-0.083333	-301.60E-9	-0.023401	467.97E-9
2	B	112.15000	55.00000	0.00000	-9.12797	-0.083333	-1.1518E-6	-0.047007	940.00E-9
2	B	117.30000	55.00000	0.00000	-19.82577	-0.083333	-8.9806E-6	-0.13036	2.6061E-6
2	B	122.45000	55.00000	0.00000	-24.06575	-0.083333	-0.0042430	-1.7346	34.182E-6
2	B	127.60000	55.00000	0.00000	-32.34848	-0.083333	-30.000	-88.317	-0.0018336
2	B	132.75000	55.00000	0.00000	-30.76736	-0.083333	-29.064	-74.072	-0.0020063
2	B	137.90000	55.00000	0.00000	-27.40375	-0.083333	-24.515E-6	-0.25551	5.1072E-6
2	B	143.05000	55.00000	0.00000	-27.71149	-0.083333	-3.7882E-6	-0.12222	2.4440E-6
2	B	148.20000	55.00000	0.00000	-27.73588	-0.083333	-2.5030E-6	-0.097271	1.9451E-6
2	B	153.35000	55.00000	0.00000	-27.47355	-0.083333	-2.3383E-6	-0.087237	1.7445E-6
2	B	158.50000	55.00000	0.00000	-26.75111	-0.083333	-2.1444E-6	-0.076251	1.5248E-6
2	B	163.65000	55.00000	0.00000	-24.90996	-0.083333	-1.5678E-6	-0.059257	1.1850E-6
2	B	168.80000	55.00000	0.00000	-18.83046	-0.083333	-806.78E-9	-0.039705	794.01E-9
2	B	173.95000	55.00000	0.00000	-6.48079	-0.083333	-343.18E-9	-0.024786	495.68E-9
2	B	179.10000	55.00000	0.00000	-1.20513	-0.083333	-146.58E-9	-0.015612	312.23E-9
2	B	184.25000	55.00000	0.00000	0.16982	-0.083333	-67.545E-9	-0.010229	204.56E-9
2	B	189.40000	55.00000	0.00000	0.69732	-0.083333	-33.881E-9	-0.0069990	139.98E-9
2	B	194.55000	55.00000	0.00000	0.89504	-0.083333	-18.344E-9	-0.0049818	99.635E-9
2	B	199.70000	55.00000	0.00000	0.94167	-0.083333	-10.598E-9	-0.0036679	73.356E-9
2	B	204.85000	55.00000	0.00000	0.91506	-0.083333	-6.4644E-9	-0.0027786	55.570E-9
2	B	210.00000	55.00000	0.00000	0.85711	-0.083333	-4.1261E-9	-0.0021561	43.122E-9
2	B	107.00000	60.00000	0.00000	-3.37569	-0.083333	-353.40E-9	-0.026014	520.24E-9
2	B	112.15000	60.00000	0.00000	-20.30802	-0.083333	-1.4280E-6	-0.054579	1.0914E-6
2	B	117.30000	60.00000	0.00000	-28.13210	-0.083333	-11.624E-6	-0.16159	3.2304E-6
2	B	122.45000	60.00000	0.00000	-29.94703	-0.083333	-0.0020990	-1.6572	32.891E-6
2	B	127.60000	60.00000	0.00000	-38.50003	-0.083333	-30.000	-88.863	-0.0018227
2	B	132.75000	60.00000	0.00000	-36.65722	-0.083333	-29.958	-84.334	-0.0019083
2	B	137.90000	60.00000	0.00000	-30.50484	-0.083333	-40.701E-6	-0.39669	7.9289E-6
2	B	143.05000	60.00000	0.00000	-30.43009	-0.083333	-14.572E-6	-0.24568	4.9119E-6
2	B	148.20000	60.00000	0.00000	-30.37851	-0.083333	-15.687E-6	-0.23279	4.6540E-6
2	B	153.35000	60.00000	0.00000	-30.06207	-0.083333	-17.167E-6	-0.23058	4.6096E-6
2	B	158.50000	60.00000	0.00000	-29.20601	-0.083333	-19.079E-6	-0.21861	4.3699E-6
2	B	163.65000	60.00000	0.00000	-27.00637	-0.083333	-13.338E-6	-0.16071	3.2125E-6
2	B	168.80000	60.00000	0.00000	-20.30576	-0.083333	-3.6299E-6	-0.080030	1.6002E-6
2	B	173.95000	60.00000	0.00000	-7.29515	-0.083333	-852.02E-9	-0.038456	769.02E-9
2	B	179.10000	60.00000	0.00000	-1.55744	-0.083333	-261.46E-9	-0.020769	415.34E-9
2	B	184.25000	60.00000	0.00000	0.02890	-0.083333	-99.959E-9	-0.012440	248.79E-9
2	B	189.40000	60.00000	0.00000	0.64410	-0.083333	-44.799E-9	-0.0080582	161.16E-9
2	B	194.55000	60.00000	0.00000	0.87857	-0.083333	-22.573E-9	-0.0055370	110.74E-9
2	B	199.70000	60.00000	0.00000	0.94061	-0.083333	-12.429E-9	-0.0039809	79.617E-9
2	B	204.85000	60.00000	0.00000	0.92113	-0.083333	-7.3313E-9	-0.0029659	59.317E-9
2	B	210.00000	60.00000	0.00000	0.86419	-0.083333	-4.5679E-9	-0.0022738	45.476E-9
2	B	107.00000	65.00000	0.00000	-3.11009	-0.083333	-341.65E-9	-0.025982	519.60E-9
2	B	112.15000	65.00000	0.00000	-12.79946	-0.083333	-1.3265E-6	-0.053496	1.0698E-6
2	B	117.30000	65.00000	0.00000	-28.67879	-0.083333	-9.8944E-6	-0.15125	3.0237E-6
2	B	122.45000	65.00000	0.00000	-30.66653	-0.083333	-0.0010712	-1.2620	25.112E-6
2	B	127.60000	65.00000	0.00000	-39.48085	-0.083333	-30.000	-88.823	-0.0018235
2	B	132.75000	65.00000	0.00000	-38.48706	-0.083333	-29.991	-86.657	-0.0018658
2	B	137.90000	65.00000	0.00000	-32.19917	-0.083333	-457.83E-6	-1.1065	22.074E-6
2	B	143.05000	65.00000	0.00000	-32.52513	-0.083333	-0.0016493	-1.5169	30.139E-6
2	B	148.20000	65.00000	0.00000	-32.63365	-0.083333	-0.0015642	-1.6523	32.859E-6
2	B	153.35000	65.00000	0.00000	-32.53081	-0.083333	-0.0026517	-1.9880	39.441E-6
2	B	158.50000	65.00000	0.00000	-32.95567	-0.083333	-0.36032	-10.062	158.01E-6
2	B	163.65000	65.00000	0.00000	-29.50407	-0.083333	-0.025654	-3.6579	70.079E-6
2	B	168.80000	65.00000	0.00000	-20.73978	-0.083333	-24.512E-6	-0.19329	3.8629E-6
2	B	173.95000	65.00000	0.00000	-7.45456	-0.083333	-1.9294E-6	-0.057499	1.1498E-6
2	B	179.10000	65.00000	0.00000	-1.62320	-0.083333	-413.76E-9	-0.026073	521.41E-9
2	B	184.25000	65.00000	0.00000	0.00318	-0.083333	-133.58E-9	-0.014367	287.33E-9
2	B	189.40000	65.00000	0.00000	0.63519	-0.083333	-54.582E-9	-0.0088933	177.86E-9
2	B	194.55000	65.00000	0.00000	0.87661	-0.083333	-26.023E-9	-0.0059470	118.94E-9
2	B	199.70000	65.00000	0.00000	0.94146	-0.083333	-13.830E-9	-0.0042019	84.037E-9
2	B	204.85000	65.00000	0.00000	0.92299	-0.083333	-7.9653E-9	-0.0030938	61.876E-9
2	B	210.00000	65.00000	0.00000	0.86628	-0.083333	-4.8802E-9	-0.0023522	47.044E-9
2	B	107.00000	70.00000	0.00000	-2.24919	-0.083333	-276.81E-9	-0.023507	470.10E-9
2	B	112.15000	70.00000	0.00000	-8.24067	-0.083333	-950.12E-9	-0.045080	901.48E-9
2	B	117.30000	70.00000	0.00000	-26.41907	-0.083333	-5.6172E-6	-0.11037	2.2066E-6

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	122.45000	70.00000	0.00000	-28.54659	-0.083333	-264.83E-6	-0.57188	11.406E-6
2	B	127.60000	70.00000	0.00000	-35.61880	-0.083333	-29.786	-81.188	-0.0019506
2	B	132.75000	70.00000	0.00000	-37.91628	-0.083333	-29.999	-88.143	-0.0018370
2	B	137.90000	70.00000	0.00000	-38.58230	-0.083333	-30.000	-88.483	-0.0018303
2	B	143.05000	70.00000	0.00000	-39.22991	-0.083333	-30.000	-88.891	-0.0018221
2	B	148.20000	70.00000	0.00000	-39.24698	-0.083333	-29.998	-88.895	-0.0018219
2	B	153.35000	70.00000	0.00000	-38.92626	-0.083333	-29.896	-88.388	-0.0018198
2	B	158.50000	70.00000	0.00000	-37.98077	-0.083333	-29.938	-88.472	-0.0018232
2	B	163.65000	70.00000	0.00000	-34.46170	-0.083333	-29.997	-87.628	-0.0018471
2	B	168.80000	70.00000	0.00000	-20.15878	-0.083333	-57.687E-6	-0.31754	6.3439E-6
2	B	173.95000	70.00000	0.00000	-6.99924	-0.083333	-2.8819E-6	-0.070764	1.4149E-6
2	B	179.10000	70.00000	0.00000	-1.40086	-0.083333	-513.42E-9	-0.029024	580.41E-9
2	B	184.25000	70.00000	0.00000	0.09826	-0.083333	-152.18E-9	-0.015314	306.27E-9
2	B	189.40000	70.00000	0.00000	0.67355	-0.083333	-59.484E-9	-0.0092725	185.44E-9
2	B	194.55000	70.00000	0.00000	0.89041	-0.083333	-27.644E-9	-0.0061231	122.46E-9
2	B	199.70000	70.00000	0.00000	0.94466	-0.083333	-14.459E-9	-0.0042927	85.853E-9
2	B	204.85000	70.00000	0.00000	0.92176	-0.083333	-8.2402E-9	-0.0031445	62.889E-9
2	B	210.00000	70.00000	0.00000	0.86339	-0.083333	-5.0118E-9	-0.0023823	47.645E-9
2	B	107.00000	75.00000	0.00000	-1.19970	-0.083333	-194.32E-9	-0.019709	394.15E-9
2	B	112.15000	75.00000	0.00000	-4.67852	-0.083333	-545.53E-9	-0.034049	680.92E-9
2	B	117.30000	75.00000	0.00000	-20.73915	-0.083333	-2.0185E-6	-0.066868	1.3371E-6
2	B	122.45000	75.00000	0.00000	-23.07015	-0.083333	-10.770E-6	-0.15379	3.0746E-6
2	B	127.60000	75.00000	0.00000	-24.29805	-0.083333	-83.272E-6	-0.39009	7.7918E-6
2	B	132.75000	75.00000	0.00000	-25.12362	-0.083333	-131.29E-6	-0.61435	12.271E-6
2	B	137.90000	75.00000	0.00000	-32.18113	-0.083333	-29.995	-86.779	-0.0018638
2	B	143.05000	75.00000	0.00000	-33.78069	-0.083333	-30.000	-88.515	-0.0018297
2	B	148.20000	75.00000	0.00000	-33.63514	-0.083333	-29.999	-88.393	-0.0018321
2	B	153.35000	75.00000	0.00000	-33.10685	-0.083333	-29.999	-88.136	-0.0018372
2	B	158.50000	75.00000	0.00000	-32.01085	-0.083333	-29.998	-87.696	-0.0018458
2	B	163.65000	75.00000	0.00000	-29.08824	-0.083333	-29.995	-86.359	-0.0018722
2	B	168.80000	75.00000	0.00000	-16.90198	-0.083333	-49.858E-6	-0.26775	5.3490E-6
2	B	173.95000	75.00000	0.00000	-5.40732	-0.083333	-2.4532E-6	-0.064402	1.2877E-6
2	B	179.10000	75.00000	0.00000	-0.86081	-0.083333	-466.49E-9	-0.027564	551.23E-9
2	B	184.25000	75.00000	0.00000	0.29950	-0.083333	-143.33E-9	-0.014826	296.50E-9
2	B	189.40000	75.00000	0.00000	0.74980	-0.083333	-57.120E-9	-0.0090649	181.29E-9
2	B	194.55000	75.00000	0.00000	0.91569	-0.083333	-26.844E-9	-0.0060196	120.39E-9
2	B	199.70000	75.00000	0.00000	0.94846	-0.083333	-14.138E-9	-0.0042350	84.699E-9
2	B	204.85000	75.00000	0.00000	0.91679	-0.083333	-8.0937E-9	-0.0031097	62.193E-9
2	B	210.00000	75.00000	0.00000	0.85533	-0.083333	-4.9381E-9	-0.0023600	47.199E-9
2	B	107.00000	80.00000	0.00000	-0.22048	-0.083333	-125.01E-9	-0.015789	315.77E-9
2	B	112.15000	80.00000	0.00000	-1.75311	-0.083333	-284.29E-9	-0.024565	491.26E-9
2	B	117.30000	80.00000	0.00000	-4.29337	-0.083333	-715.66E-9	-0.040398	807.87E-9
2	B	122.45000	80.00000	0.00000	-5.81680	-0.083333	-1.8878E-6	-0.068371	1.3672E-6
2	B	127.60000	80.00000	0.00000	-6.51433	-0.083333	-4.5209E-6	-0.11233	2.2460E-6
2	B	132.75000	80.00000	0.00000	-6.98417	-0.083333	-13.069E-6	-0.18951	3.7886E-6
2	B	137.90000	80.00000	0.00000	-7.61377	-0.083333	-144.85E-6	-0.47616	9.5059E-6
2	B	143.05000	80.00000	0.00000	-7.91370	-0.083333	-156.26E-6	-0.59235	11.828E-6
2	B	148.20000	80.00000	0.00000	-7.82137	-0.083333	-116.45E-6	-0.54618	10.910E-6
2	B	153.35000	80.00000	0.00000	-7.52617	-0.083333	-87.547E-6	-0.47994	9.5883E-6
2	B	158.50000	80.00000	0.00000	-6.94537	-0.083333	-65.769E-6	-0.39923	7.9767E-6
2	B	163.65000	80.00000	0.00000	-5.80853	-0.083333	-39.688E-6	-0.26847	5.3646E-6
2	B	168.80000	80.00000	0.00000	-3.89084	-0.083333	-7.2600E-6	-0.10911	2.1812E-6
2	B	173.95000	80.00000	0.00000	-1.67367	-0.083333	-1.2014E-6	-0.045052	900.90E-9
2	B	179.10000	80.00000	0.00000	-0.12959	-0.083333	-317.84E-9	-0.022697	453.91E-9
2	B	184.25000	80.00000	0.00000	0.55166	-0.083333	-113.00E-9	-0.013123	262.45E-9
2	B	189.40000	80.00000	0.00000	0.84201	-0.083333	-48.635E-9	-0.0083345	166.68E-9
2	B	194.55000	80.00000	0.00000	0.94367	-0.083333	-23.906E-9	-0.0056592	113.18E-9
2	B	199.70000	80.00000	0.00000	0.94942	-0.083333	-12.952E-9	-0.0040383	80.764E-9
2	B	204.85000	80.00000	0.00000	0.90685	-0.083333	-7.5560E-9	-0.0029938	59.875E-9
2	B	210.00000	80.00000	0.00000	0.84178	-0.083333	-4.6712E-9	-0.0022876	45.751E-9
2	B	107.00000	85.00000	0.00000	0.49000	-0.083333	-77.953E-9	-0.012412	248.24E-9
2	B	112.15000	85.00000	0.00000	-0.12277	-0.083333	-149.26E-9	-0.017702	354.01E-9
2	B	117.30000	85.00000	0.00000	-0.87550	-0.083333	-295.05E-9	-0.025873	517.43E-9
2	B	122.45000	85.00000	0.00000	-1.48204	-0.083333	-577.37E-9	-0.037912	758.17E-9
2	B	127.60000	85.00000	0.00000	-1.86456	-0.083333	-1.0946E-6	-0.054644	1.0927E-6
2	B	132.75000	85.00000	0.00000	-2.11436	-0.083333	-2.2349E-6	-0.078455	1.5688E-6
2	B	137.90000	85.00000	0.00000	-2.29488	-0.083333	-4.6060E-6	-0.11031	2.2057E-6
2	B	143.05000	85.00000	0.00000	-2.38748	-0.083333	-6.0481E-6	-0.13191	2.6375E-6
2	B	148.20000	85.00000	0.00000	-2.36973	-0.083333	-5.8991E-6	-0.13463	2.6919E-6
2	B	153.35000	85.00000	0.00000	-2.23782	-0.083333	-5.2411E-6	-0.12544	2.5082E-6
2	B	158.50000	85.00000	0.00000	-1.95953	-0.083333	-4.2936E-6	-0.10704	2.1404E-6
2	B	163.65000	85.00000	0.00000	-1.48375	-0.083333	-2.8518E-6	-0.079375	1.5872E-6
2	B	168.80000	85.00000	0.00000	-0.81880	-0.083333	-1.2946E-6	-0.049540	990.65E-9
2	B	173.95000	85.00000	0.00000	-0.10742	-0.083333	-475.39E-9	-0.028749	574.93E-9
2	B	179.10000	85.00000	0.00000	0.44984	-0.083333	-182.36E-9	-0.017188	343.73E-9
2	B	184.25000	85.00000	0.00000	0.77454	-0.083333	-78.440E-9	-0.010890	217.79E-9
2	B	189.40000	85.00000	0.00000	0.92333	-0.083333	-37.641E-9	-0.0072946	145.89E-9
2	B	194.55000	85.00000	0.00000	0.96420	-0.083333	-19.789E-9	-0.0051209	102.42E-9
2	B	199.70000	85.00000	0.00000	0.94370	-0.083333	-11.203E-9	-0.0037357	74.713E-9
2	B	204.85000	85.00000	0.00000	0.89068	-0.083333	-6.7364E-9	-0.0028123	56.246E-9
2	B	210.00000	85.00000	0.00000	0.82252	-0.083333	-4.2553E-9	-0.0021729	43.458E-9
2	B	107.00000	90.00000	0.00000	0.91550	-0.083333	-48.825E-9	-0.0097326	194.65E-9
2	B	112.15000	90.00000	0.00000	0.66717	-0.083333	-82.140E-9	-0.012964	259.27E-9
2	B	117.30000	90.00000	0.00000	0.37536	-0.083333	-139.55E-9	-0.017484	349.67E-9
2	B	122.45000	90.00000	0.00000	0.11522	-0.083333	-233.45E-9	-0.023496	469.89E-9
2	B	127.60000	90.00000	0.00000	-0.07634	-0.083333	-381.40E-9	-0.031064	621.23E-9
2	B	132.75000	90.00000	0.00000	-0.20762	-0.083333	-611.28E-9	-0.040051	800.96E-9
2	B	137.90000	90.00000	0.00000	-0.29389	-0.083333	-904.78E-9	-0.049243	984.75E-9
2	B	143.05000	90.00000	0.00000	-0.33759	-0.083333	-1.1141E-6	-0.055625	1.1124E-6
2	B	148.20000	90.00000	0.00000	-0.33359	-0.083333	-1.1549E-6	-0.057187	1.1436E-6
2	B	153.35000	90.00000	0.00000	-0.27431	-0.083333	-1.0710E-6	-0.054168	1.0832E-6
2	B	158.50000	90.00000	0.00000	-0.14808	-0.083333	-896.09E-9	-0.047317	946.22E-9
2	B	163.65000	90.00000	0.00000	0.05290	-0.083333	-645.79E-9	-0.037646	752.85E-9
2	B	168.80000	90.00000	0.00000	0.31235	-0.083333	-385.35E-9	-0.027299	545.94E-9
2	B	173.95000	90.00000	0.00000	0.57968	-0.083333	-200.04E-9	-0.018695	373.87E-9
2	B	179.10000	90.00000	0.00000	0.79410	-0.083333	-99.714E-9	-0.012659	253.18E-9
2	B	184.25000	90.00000	0.00000	0.92406	-0.083333	-50.951E-9	-0.0087196	174.39E-9
2	B	189.40000	90.00000	0.00000	0.97541	-0.083333	-27.363E-9	-0.0061741	123.48E-9
2	B	194.55000	90.00000	0.00000	0.96981	-0.083333	-15.514E-9	-0.0045010	90.017E-9
2	B	199.70000	90.00000	0.00000	0.92849	-0.083333	-9.2555E-9	-0.0033715	67.429E-9
2	B	204.85000	90.00000	0.00000	0.86746	-0.083333	-5.7771E-9	-0.0025871	51.742E-9
2	B	210.00000	90.00000	0.00000	0.79759	-0.083333	-3.7510E-9	-0.0020275	40.550E-9
2	B	107.00000	95.00000	0.00000	1.13498	-0.083333	-31.217E-9	-0.0076725	153.45E-9
2	B	112.15000	95.00000	0.00000	1.04297	-0.083333	-47.614E-9	-0.0096851	193.70E-9
2	B	117.30000	95.00000	0.00000	0.92924	-0.083333	-72.874E-9	-0.012315	246.29E-9
2	B	122.45000	95.00000	0.00000	0.81991	-0.083333	-109.74E-9	-0.015566	311.31E-9
2	B	127.60000	95.00000	0.00000	0.73120	-0.083333	-160.61E-9	-0.019339	386.75E-9
2	B	132.75000	95.00000	0.00000	0.66577	-0.083333	-225.31E-9	-0.023351	467.00E-9
2	B	137.90000	95.00000	0.00000	0.62067	-0.083333	-293.50E-9	-0.027007	540.10E-9
2	B	143.05000	95.00000	0.00000	0.59445	-0.083333	-342.77E-9	-0.029453	589.02E-9
2	B	148.20000	95.00000	0.00000	0.58860	-0.083333	-357.32E-9	-0.030061	601.17E-9
2	B	153.35000	95.00000	0.00000	0.60651	-0.083333	-337.38E-9	-0.028716	574.28E-9
2	B	158.50000	95.00000	0.00000	0.65185	-0.083333	-289.28E-9	-0.025672	513.40E-9
2	B	163.65000	95.00000	0.00000	0.72453	-0.083333	-222.14E-9	-0.021454	429.06E-9
2	B	168.80000	95.00000	0.00000	0.81518	-0.083333	-151.63E-9	-0.016857	337.13E-9
2	B	173.95000	95.00000	0.00000	0.90431	-0.083333	-94.090E-9	-0.012679	253.56E-9
2	B	179.10000	95.00000	0.00000	0.97025	-0.083333	-55.505E-9	-0.0093460	186.91E-9
2	B	184.25000	95.00000	0.00000	1.00011	-0.083333	-32.428E-9	-0.0068843	137.68E-9
2	B	189.40000	95.00000	0.00000	0.99343	-0.083333	-19.245E-9	-0.0051260	102.52E-9
2	B	194.55000	95.00000	0.00000	0.95777	-0.083333	-11.742E-9	-0.0038785	77.569E-9
2	B	199.70000	95.00000	0.00000	0.90282	-0.083333	-7.3942E-9	-0.0029868	59.736E-9
2	B	204.85000	95.00000	0.00000	0.83721	-0.083333	-4.8060E-9	-0.0023404	46.807E-9
2	B	210.00000	95.00000	0.00000	0.76742	-0.083333	-3.2180E-9	-0.0018638	37.275E-9
2	B	107.00000	100.00000	0.00000	1.22240	-0.083333	-20.475E-9	-0.0061003	122.00E-9
2	B	112.15000	100.00000	0.00000	1.20106	-0.083333	-28.911E-9	-0.0073770	147.54E-9
2	B	117.30000	100.00000	0.00000	1.16586	-0.083333	-40.919E-9	-0.0089635	179.27E-9
2	B	122.45000	100.00000	0.00000	1.12706	-0.083333	-56.988E-9	-0.010819	216.37E-9
2	B	127.60000	100.00000	0.00000	1.09171	-0.083333	-77.044E-9	-0.012842	256.83E-9
2	B	132.75000	100.00000	0.00000	1.06234	-0.083333	-99.697E-9	-0.014847	296.93E-9
2	B	137.90000	100.00000	0.00000	1.03878	-0.083333	-121.28E-9	-0.016553	331.05E-9
2	B	143.05000	100.00000	0.00000	1.02065	-0.083333	-136.48E-9	-0.017639	352.77E-9
2	B	148.20000	100.00000	0.00000	1.00847	-0.083333	-141.20E-9	-0.017867	357.31E-9
2	B	153.35000	100.00000	0.00000	1.00354	-0.083333	-134.55E-9	-0.017167	343.32E-9
2	B	158.50000	100.00000	0.00000	1.00697	-0.083333	-118.09E-9	-0.015644	312.86E-9
2	B	163.65000	100.00000	0.00000	1.01793	-0.083333	-95.185E-9	-0.013542	270.84E-9
2	B	168.80000	100.00000	0.00000	1.03209	-0.083333	-70.548E-9	-0.011200	223.98E-9
2	B	173.95000	100.00000	0.00000	1.04188	-0.083333	-48.738E-9	-0.0089453	178.90E-9
2	B	179.10000	100.00000	0.00000	1.03926	-0.083333	-32.143E-9	-0.0069968	139.93E-9
2	B	184.25000	100.00000	0.00000	1.01927	-0.083333	-20.753E-9	-0.0054291	108.58E-9
2	B	189.40000	100.00000	0.00000	0.98156	-0.083333	-13.376E-9	-0.0042188	84.375E-9
2	B	194.55000	100.00000	0.00000	0.92939	-0.083333	-8.7146E-9	-0.0033026	66.050E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	199.70000	100.00000	0.00000	0.86753	-0.083333	-5.7781E-9	-0.0026123	52.246E-9
2	B	204.85000	100.00000	0.00000	0.80072	-0.083333	-3.9104E-9	-0.0020906	41.811E-9
2	B	210.00000	100.00000	0.00000	0.73281	-0.083333	-2.7030E-9	-0.0016930	33.860E-9
2	B	107.00000	105.00000	0.00000	1.22886	-0.083333	-13.777E-9	-0.0048964	97.926E-9
2	B	112.15000	105.00000	0.00000	1.23921	-0.083333	-18.275E-9	-0.0057197	114.39E-9
2	B	117.30000	105.00000	0.00000	1.23960	-0.083333	-24.320E-9	-0.0067046	134.09E-9
2	B	122.45000	105.00000	0.00000	1.23406	-0.083333	-31.892E-9	-0.0078079	156.15E-9
2	B	127.60000	105.00000	0.00000	1.22549	-0.083333	-40.672E-9	-0.0089557	179.11E-9
2	B	132.75000	105.00000	0.00000	1.21513	-0.083333	-49.855E-9	-0.010038	200.75E-9
2	B	137.90000	105.00000	0.00000	1.20310	-0.083333	-58.057E-9	-0.010915	218.30E-9
2	B	143.05000	105.00000	0.00000	1.18929	-0.083333	-63.610E-9	-0.011446	228.90E-9
2	B	148.20000	105.00000	0.00000	1.17390	-0.083333	-65.231E-9	-0.011526	230.50E-9
2	B	153.35000	105.00000	0.00000	1.15745	-0.083333	-62.512E-9	-0.011124	222.48E-9
2	B	158.50000	105.00000	0.00000	1.14038	-0.083333	-55.959E-9	-0.010291	205.82E-9
2	B	163.65000	105.00000	0.00000	1.12236	-0.083333	-46.805E-9	-0.0091427	182.85E-9
2	B	168.80000	105.00000	0.00000	1.10177	-0.083333	-36.707E-9	-0.0078356	156.71E-9
2	B	173.95000	105.00000	0.00000	1.07599	-0.083333	-27.246E-9	-0.0065258	130.51E-9
2	B	179.10000	105.00000	0.00000	1.04233	-0.083333	-19.422E-9	-0.0053291	106.58E-9
2	B	184.25000	105.00000	0.00000	0.99932	-0.083333	-13.513E-9	-0.0043051	86.100E-9
2	B	189.40000	105.00000	0.00000	0.94730	-0.083333	-9.3079E-9	-0.0034658	69.316E-9
2	B	194.55000	105.00000	0.00000	0.88817	-0.083333	-6.4163E-9	-0.0027953	55.906E-9
2	B	199.70000	105.00000	0.00000	0.82461	-0.083333	-4.4577E-9	-0.0022664	45.328E-9
2	B	204.85000	105.00000	0.00000	0.75938	-0.083333	-3.1345E-9	-0.0018510	37.019E-9
2	B	210.00000	105.00000	0.00000	0.69483	-0.083333	-2.2355E-9	-0.0015241	30.482E-9
2	B	107.00000	110.00000	0.00000	1.18763	-0.083333	-9.4914E-9	-0.0039671	79.340E-9
2	B	112.15000	110.00000	0.00000	1.21092	-0.083333	-11.962E-9	-0.0045065	90.128E-9
2	B	117.30000	110.00000	0.00000	1.22656	-0.083333	-15.145E-9	-0.0051325	102.65E-9
2	B	122.45000	110.00000	0.00000	1.23594	-0.083333	-18.938E-9	-0.0058106	116.21E-9
2	B	127.60000	110.00000	0.00000	1.23999	-0.083333	-23.105E-9	-0.0064911	129.82E-9
2	B	132.75000	110.00000	0.00000	1.23903	-0.083333	-27.234E-9	-0.0071090	142.18E-9
2	B	137.90000	110.00000	0.00000	1.23299	-0.083333	-30.750E-9	-0.0075909	151.81E-9
2	B	143.05000	110.00000	0.00000	1.22173	-0.083333	-33.035E-9	-0.0078669	157.33E-9
2	B	148.20000	110.00000	0.00000	1.20529	-0.083333	-33.624E-9	-0.0078887	157.77E-9
2	B	153.35000	110.00000	0.00000	1.18396	-0.083333	-32.359E-9	-0.0076425	152.85E-9
2	B	158.50000	110.00000	0.00000	1.15806	-0.083333	-29.433E-9	-0.0071533	143.06E-9
2	B	163.65000	110.00000	0.00000	1.12772	-0.083333	-25.331E-9	-0.0064799	129.60E-9
2	B	168.80000	110.00000	0.00000	1.09268	-0.083333	-20.703E-9	-0.0057007	114.01E-9
2	B	173.95000	110.00000	0.00000	1.05239	-0.083333	-16.178E-9	-0.0048957	97.913E-9
2	B	179.10000	110.00000	0.00000	1.00640	-0.083333	-12.207E-9	-0.0041298	82.594E-9
2	B	184.25000	110.00000	0.00000	0.95475	-0.083333	-8.9907E-9	-0.0034434	68.867E-9
2	B	189.40000	110.00000	0.00000	0.89821	-0.083333	-6.5322E-9	-0.0028539	57.077E-9
2	B	194.55000	110.00000	0.00000	0.83820	-0.083333	-4.7223E-9	-0.0023617	47.234E-9
2	B	199.70000	110.00000	0.00000	0.77648	-0.083333	-3.4189E-9	-0.0019578	39.156E-9
2	B	204.85000	110.00000	0.00000	0.71480	-0.083333	-2.4898E-9	-0.0016294	32.588E-9
2	B	210.00000	110.00000	0.00000	0.65466	-0.083333	-1.8291E-9	-0.0013632	27.264E-9
2	B	107.00000	115.00000	0.00000	1.12004	-0.083333	-6.6785E-9	-0.0032429	64.858E-9
2	B	112.15000	115.00000	0.00000	1.14713	-0.083333	-8.0706E-9	-0.0036018	72.036E-9
2	B	117.30000	115.00000	0.00000	1.16820	-0.083333	-9.8097E-9	-0.0040082	80.163E-9
2	B	122.45000	115.00000	0.00000	1.18318	-0.083333	-11.805E-9	-0.0044365	88.730E-9
2	B	127.60000	115.00000	0.00000	1.19240	-0.083333	-13.911E-9	-0.0048542	97.082E-9
2	B	132.75000	115.00000	0.00000	1.19558	-0.083333	-15.916E-9	-0.0052223	104.44E-9
2	B	137.90000	115.00000	0.00000	1.19246	-0.083333	-17.559E-9	-0.0054997	109.99E-9
2	B	143.05000	115.00000	0.00000	1.18283	-0.083333	-18.585E-9	-0.0056499	113.00E-9
2	B	148.20000	115.00000	0.00000	1.16667	-0.083333	-18.807E-9	-0.0056484	112.97E-9
2	B	153.35000	115.00000	0.00000	1.14416	-0.083333	-18.161E-9	-0.0054888	109.77E-9
2	B	158.50000	115.00000	0.00000	1.11566	-0.083333	-16.732E-9	-0.0051848	103.69E-9
2	B	163.65000	115.00000	0.00000	1.08153	-0.083333	-14.725E-9	-0.0047673	95.345E-9
2	B	168.80000	115.00000	0.00000	1.04213	-0.083333	-12.417E-9	-0.0042781	85.560E-9
2	B	173.95000	115.00000	0.00000	0.99778	-0.083333	-10.086E-9	-0.0037607	75.213E-9
2	B	179.10000	115.00000	0.00000	0.94893	-0.083333	-7.9448E-9	-0.0032529	65.058E-9
2	B	184.25000	115.00000	0.00000	0.89622	-0.083333	-6.1175E-9	-0.0027814	55.628E-9
2	B	189.40000	115.00000	0.00000	0.84060	-0.083333	-4.6402E-9	-0.0023612	47.224E-9
2	B	194.55000	115.00000	0.00000	0.78327	-0.083333	-3.4910E-9	-0.0019974	39.947E-9
2	B	199.70000	115.00000	0.00000	0.72551	-0.083333	-2.6196E-9	-0.0016886	33.771E-9
2	B	204.85000	115.00000	0.00000	0.66855	-0.083333	-1.9689E-9	-0.0014297	28.593E-9
2	B	210.00000	115.00000	0.00000	0.61346	-0.083333	-1.4866E-9	-0.0012141	24.282E-9
2	B	107.00000	120.00000	0.00000	1.03962	-0.083333	-4.7875E-9	-0.0026732	53.463E-9
2	B	112.15000	120.00000	0.00000	1.06617	-0.083333	-5.5906E-9	-0.0029158	58.316E-9
2	B	117.30000	120.00000	0.00000	1.08770	-0.083333	-6.5708E-9	-0.0031846	63.692E-9
2	B	122.45000	120.00000	0.00000	1.10395	-0.083333	-7.6640E-9	-0.0034616	69.232E-9
2	B	127.60000	120.00000	0.00000	1.11464	-0.083333	-8.7824E-9	-0.0037253	74.505E-9
2	B	132.75000	120.00000	0.00000	1.11910	-0.083333	-9.8142E-9	-0.0039518	79.035E-9
2	B	137.90000	120.00000	0.00000	1.11726	-0.083333	-10.634E-9	-0.0041172	82.343E-9
2	B	143.05000	120.00000	0.00000	1.10876	-0.083333	-11.126E-9	-0.0042012	84.023E-9
2	B	148.20000	120.00000	0.00000	1.09357	-0.083333	-11.208E-9	-0.0041907	83.813E-9
2	B	153.35000	120.00000	0.00000	1.07184	-0.083333	-10.855E-9	-0.0040825	81.649E-9
2	B	158.50000	120.00000	0.00000	1.04390	-0.083333	-10.104E-9	-0.0038844	77.686E-9
2	B	163.65000	120.00000	0.00000	1.01025	-0.083333	-9.0509E-9	-0.0036134	72.268E-9
2	B	168.80000	120.00000	0.00000	0.97145	-0.083333	-7.8210E-9	-0.0032929	65.858E-9
2	B	173.95000	120.00000	0.00000	0.92815	-0.083333	-6.5453E-9	-0.0029479	58.957E-9
2	B	179.10000	120.00000	0.00000	0.88109	-0.083333	-5.3323E-9	-0.0026010	52.018E-9
2	B	184.25000	120.00000	0.00000	0.83113	-0.083333	-4.2534E-9	-0.0022696	45.392E-9
2	B	189.40000	120.00000	0.00000	0.77923	-0.083333	-3.3416E-9	-0.0019654	39.307E-9
2	B	194.55000	120.00000	0.00000	0.72641	-0.083333	-2.5996E-9	-0.0016940	33.879E-9
2	B	199.70000	120.00000	0.00000	0.67371	-0.083333	-2.0121E-9	-0.0014569	29.137E-9
2	B	204.85000	120.00000	0.00000	0.62205	-0.083333	-1.5552E-9	-0.0012527	25.054E-9
2	B	210.00000	120.00000	0.00000	0.57222	-0.083333	-1.2039E-9	-0.0010786	21.571E-9
2	B	107.00000	125.00000	0.00000	0.95484	-0.083333	-3.4888E-9	-0.0022208	44.416E-9
2	B	112.15000	125.00000	0.00000	0.97897	-0.083333	-3.9626E-9	-0.0023876	47.751E-9
2	B	117.30000	125.00000	0.00000	0.99890	-0.083333	-4.5303E-9	-0.0025686	51.371E-9
2	B	122.45000	125.00000	0.00000	1.01419	-0.083333	-5.1494E-9	-0.0027514	55.028E-9
2	B	127.60000	125.00000	0.00000	1.02436	-0.083333	-5.7677E-9	-0.0029218	58.436E-9
2	B	132.75000	125.00000	0.00000	1.02893	-0.083333	-6.3240E-9	-0.0030648	61.296E-9
2	B	137.90000	125.00000	0.00000	1.02753	-0.083333	-6.7544E-9	-0.0031660	63.320E-9
2	B	143.05000	125.00000	0.00000	1.01991	-0.083333	-7.0023E-9	-0.0032136	64.271E-9
2	B	148.20000	125.00000	0.00000	1.00600	-0.083333	-7.0292E-9	-0.0032001	64.000E-9
2	B	153.35000	125.00000	0.00000	0.98596	-0.083333	-6.8240E-9	-0.0031238	62.476E-9
2	B	158.50000	125.00000	0.00000	0.96009	-0.083333	-6.4057E-9	-0.0029894	59.787E-9
2	B	163.65000	125.00000	0.00000	0.92888	-0.083333	-5.8195E-9	-0.0028066	56.132E-9
2	B	168.80000	125.00000	0.00000	0.89296	-0.083333	-5.1271E-9	-0.0025891	51.781E-9
2	B	173.95000	125.00000	0.00000	0.85303	-0.083333	-4.3939E-9	-0.0023516	47.031E-9
2	B	179.10000	125.00000	0.00000	0.80989	-0.083333	-3.6770E-9	-0.0021082	42.164E-9
2	B	184.25000	125.00000	0.00000	0.76439	-0.083333	-3.0180E-9	-0.0018705	37.410E-9
2	B	189.40000	125.00000	0.00000	0.71743	-0.083333	-2.4406E-9	-0.0016468	32.937E-9
2	B	194.55000	125.00000	0.00000	0.66989	-0.083333	-1.9530E-9	-0.0014423	28.845E-9
2	B	199.70000	125.00000	0.00000	0.62263	-0.083333	-1.5525E-9	-0.0012591	25.183E-9
2	B	204.85000	125.00000	0.00000	0.57638	-0.083333	-1.2301E-9	-0.0010977	21.955E-9
2	B	210.00000	125.00000	0.00000	0.53177	-0.083333	-973.92E-12	-957.06E-6	19.141E-9
2	B	107.00000	130.00000	0.00000	0.87081	-0.083333	-2.5798E-9	-0.0018586	37.171E-9
2	B	112.15000	130.00000	0.00000	0.89189	-0.083333	-2.8656E-9	-0.0019751	39.502E-9
2	B	117.30000	130.00000	0.00000	0.90942	-0.083333	-3.2025E-9	-0.0020991	41.982E-9
2	B	122.45000	130.00000	0.00000	0.92292	-0.083333	-3.5633E-9	-0.0022220	44.440E-9
2	B	127.60000	130.00000	0.00000	0.93188	-0.083333	-3.9166E-9	-0.0023344	46.687E-9
2	B	132.75000	130.00000	0.00000	0.93588	-0.083333	-4.2277E-9	-0.0024266	48.531E-9
2	B	137.90000	130.00000	0.00000	0.93453	-0.083333	-4.4627E-9	-0.0024896	49.792E-9
2	B	143.05000	130.00000	0.00000	0.92764	-0.083333	-4.5921E-9	-0.0025164	50.327E-9
2	B	148.20000	130.00000	0.00000	0.91512	-0.083333	-4.5968E-9	-0.0025025	50.049E-9
2	B	153.35000	130.00000	0.00000	0.89711	-0.083333	-4.4717E-9	-0.0024470	48.939E-9
2	B	158.50000	130.00000	0.00000	0.87389	-0.083333	-4.2263E-9	-0.0023525	47.050E-9
2	B	163.65000	130.00000	0.00000	0.84590	-0.083333	-3.8838E-9	-0.0022251	44.502E-9
2	B	168.80000	130.00000	0.00000	0.81373	-0.083333	-3.4757E-9	-0.0020729	41.457E-9
2	B	173.95000	130.00000	0.00000	0.77803	-0.083333	-3.0362E-9	-0.0019049	38.097E-9
2	B	179.10000	130.00000	0.00000	0.73956	-0.083333	-2.5968E-9	-0.0017301	34.602E-9
2	B	184.25000	130.00000	0.00000	0.69909	-0.083333	-2.1819E-9	-0.0015563	31.126E-9
2	B	189.40000	130.00000	0.00000	0.65740	-0.083333	-1.8075E-9	-0.0013894	27.788E-9
2	B	194.55000	130.00000	0.00000	0.61527	-0.083333	-1.4814E-9	-0.0012336	24.672E-9
2	B	199.70000	130.00000	0.00000	0.57339	-0.083333	-1.2051E-9	-0.0010911	21.822E-9
2	B	204.85000	130.00000	0.00000	0.53238	-0.083333	-975.86E-12	-963.01E-6	19.260E-9
2	B	210.00000	130.00000	0.00000	0.49275	-0.083333	-788.42E-12	-849.18E-6	16.983E-9
2	B	107.00000	135.00000	0.00000	0.79052	-0.083333	-1.9329E-9	-0.0015662	31.324E-9
2	B	112.15000	135.00000	0.00000	0.80854	-0.083333	-2.1092E-9	-0.0016491	32.981E-9
2	B	117.30000	135.00000	0.00000	0.82352	-0.083333	-2.3136E-9	-0.0017355	34.709E-9
2	B	122.45000	135.00000	0.00000	0.83501	-0.083333	-2.5292E-9	-0.0018195	36.389E-9
2	B	127.60000	135.00000	0.00000	0.84256	-0.083333	-2.7367E-9	-0.0018949	37.897E-9
2	B	132.75000	135.00000	0.00000	0.84579	-0.083333	-2.9160E-9	-0.0019553	39.105E-9
2	B	137.90000	135.00000	0.00000	0.84436	-0.083333	-3.0482E-9	-0.0019950	39.900E-9
2	B	143.05000	135.00000	0.00000	0.83810	-0.083333	-3.1174E-9	-0.0020096	40.193E-9
2	B	148.20000	135.00000	0.00000	0.82695	-0.083333	-3.1135E-9	-0.0019964	39.929E-9
2	B	153.35000	135.00000	0.00000	0.81101	-0.083333	-3.0337E-9	-0.0019549	39.097E-9
2	B	158.50000	135.00000	0.00000	0.79054	-0.083333	-2.8834E-9	-0.0018865	37.730E-9
2	B	163.65000	135.00000	0.00000	0.76591	-0.083333	-2.6747E-9	-0.0017951	35.902E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	168.80000	135.00000	0.00000	0.73764	-0.083333	-2.4244E-9	-0.0016857	33.713E-9
2	B	173.95000	135.00000	0.00000	0.70630	-0.083333	-2.1514E-9	-0.0015640	31.280E-9
2	B	179.10000	135.00000	0.00000	0.67254	-0.083333	-1.8733E-9	-0.0014359	28.717E-9
2	B	184.25000	135.00000	0.00000	0.63705	-0.083333	-1.6050E-9	-0.0013065	26.130E-9
2	B	189.40000	135.00000	0.00000	0.60049	-0.083333	-1.3568E-9	-0.0011803	23.605E-9
2	B	194.55000	135.00000	0.00000	0.56352	-0.083333	-1.1349E-9	-0.0010603	21.205E-9
2	B	199.70000	135.00000	0.00000	0.52671	-0.083333	-941.89E-12	-948.60E-6	18.972E-9
2	B	204.85000	135.00000	0.00000	0.49059	-0.083333	-777.44E-12	-846.38E-6	16.928E-9
2	B	210.00000	135.00000	0.00000	0.45559	-0.083333	-639.59E-12	-754.00E-6	15.080E-9
2	B	107.00000	140.00000	0.00000	0.71557	-0.083333	-1.4657E-9	-0.0013285	26.571E-9
2	B	112.15000	140.00000	0.00000	0.73078	-0.083333	-1.5769E-9	-0.0013884	27.769E-9
2	B	117.30000	140.00000	0.00000	0.74338	-0.083333	-1.7037E-9	-0.0014496	28.992E-9
2	B	122.45000	140.00000	0.00000	0.75296	-0.083333	-1.8353E-9	-0.0015080	30.159E-9
2	B	127.60000	140.00000	0.00000	0.75915	-0.083333	-1.9600E-9	-0.0015593	31.186E-9
2	B	132.75000	140.00000	0.00000	0.76160	-0.083333	-2.0660E-9	-0.0015995	31.989E-9
2	B	137.90000	140.00000	0.00000	0.76007	-0.083333	-2.1422E-9	-0.0016247	32.493E-9
2	B	143.05000	140.00000	0.00000	0.75439	-0.083333	-2.1795E-9	-0.0016321	32.642E-9
2	B	148.20000	140.00000	0.00000	0.74452	-0.083333	-2.1726E-9	-0.0016200	32.401E-9
2	B	153.35000	140.00000	0.00000	0.73055	-0.083333	-2.1199E-9	-0.0015881	31.762E-9
2	B	158.50000	140.00000	0.00000	0.71268	-0.083333	-2.0242E-9	-0.0015374	30.748E-9
2	B	163.65000	140.00000	0.00000	0.69125	-0.083333	-1.8922E-9	-0.0014702	29.403E-9
2	B	168.80000	140.00000	0.00000	0.66667	-0.083333	-1.7334E-9	-0.0013896	27.792E-9
2	B	173.95000	140.00000	0.00000	0.63945	-0.083333	-1.5583E-9	-0.0012996	25.991E-9
2	B	179.10000	140.00000	0.00000	0.61012	-0.083333	-1.3773E-9	-0.0012038	24.077E-9
2	B	184.25000	140.00000	0.00000	0.57926	-0.083333	-1.1994E-9	-0.0011061	22.121E-9
2	B	189.40000	140.00000	0.00000	0.54744	-0.083333	-1.0315E-9	-0.0010093	20.185E-9
2	B	194.55000	140.00000	0.00000	0.51520	-0.083333	-878.04E-12	-915.90E-6	18.318E-9
2	B	199.70000	140.00000	0.00000	0.48303	-0.083333	-741.48E-12	-827.66E-6	16.553E-9
2	B	204.85000	140.00000	0.00000	0.45136	-0.083333	-622.44E-12	-745.64E-6	14.913E-9
2	B	210.00000	140.00000	0.00000	0.42057	-0.083333	-520.40E-12	-670.38E-6	13.408E-9
2	B	107.00000	145.00000	0.00000	0.64666	-0.083333	-1.1238E-9	-0.0011340	22.679E-9
2	B	112.15000	145.00000	0.00000	0.65943	-0.083333	-1.1955E-9	-0.0011780	23.560E-9
2	B	117.30000	145.00000	0.00000	0.66993	-0.083333	-1.2757E-9	-0.0012220	24.440E-9
2	B	122.45000	145.00000	0.00000	0.67783	-0.083333	-1.3578E-9	-0.0012632	25.263E-9
2	B	127.60000	145.00000	0.00000	0.68280	-0.083333	-1.4343E-9	-0.0012986	25.973E-9
2	B	132.75000	145.00000	0.00000	0.68459	-0.083333	-1.4982E-9	-0.0013256	26.512E-9
2	B	137.90000	145.00000	0.00000	0.68297	-0.083333	-1.5428E-9	-0.0013416	26.832E-9
2	B	143.05000	145.00000	0.00000	0.67783	-0.083333	-1.5630E-9	-0.0013448	26.895E-9
2	B	148.20000	145.00000	0.00000	0.66913	-0.083333	-1.5555E-9	-0.0013339	26.679E-9
2	B	153.35000	145.00000	0.00000	0.65694	-0.083333	-1.5194E-9	-0.0013089	26.178E-9
2	B	158.50000	145.00000	0.00000	0.64144	-0.083333	-1.4564E-9	-0.0012704	25.408E-9
2	B	163.65000	145.00000	0.00000	0.62291	-0.083333	-1.3702E-9	-0.0012199	24.397E-9
2	B	168.80000	145.00000	0.00000	0.60168	-0.083333	-1.2663E-9	-0.0011594	23.187E-9
2	B	173.95000	145.00000	0.00000	0.57817	-0.083333	-1.1509E-9	-0.0010915	21.829E-9
2	B	179.10000	145.00000	0.00000	0.55283	-0.083333	-1.0301E-9	-0.0010187	20.374E-9
2	B	184.25000	145.00000	0.00000	0.52614	-0.083333	-909.50E-12	-943.69E-6	18.874E-9
2	B	189.40000	145.00000	0.00000	0.49856	-0.083333	-793.71E-12	-868.56E-6	17.371E-9
2	B	194.55000	145.00000	0.00000	0.47056	-0.083333	-685.90E-12	-795.16E-6	15.903E-9
2	B	199.70000	145.00000	0.00000	0.44253	-0.083333	-588.04E-12	-724.88E-6	14.497E-9
2	B	204.85000	145.00000	0.00000	0.41486	-0.083333	-501.06E-12	-658.66E-6	13.173E-9
2	B	210.00000	145.00000	0.00000	0.38784	-0.083333	-425.02E-12	-597.10E-6	11.942E-9
2	B	107.00000	150.00000	0.00000	0.58398	-0.083333	-870.62E-12	-973.64E-6	19.473E-9
2	B	112.15000	150.00000	0.00000	0.59468	-0.083333	-917.80E-12	-0.0010065	20.130E-9
2	B	117.30000	150.00000	0.00000	0.60339	-0.083333	-969.62E-12	-0.0010387	20.773E-9
2	B	122.45000	150.00000	0.00000	0.60985	-0.083333	-1.0217E-9	-0.0010681	21.363E-9
2	B	127.60000	150.00000	0.00000	0.61381	-0.083333	-1.0696E-9	-0.0010930	21.859E-9
2	B	132.75000	150.00000	0.00000	0.61505	-0.083333	-1.1088E-9	-0.0011112	22.225E-9
2	B	137.90000	150.00000	0.00000	0.61339	-0.083333	-1.1352E-9	-0.0011213	22.426E-9
2	B	143.05000	150.00000	0.00000	0.60875	-0.083333	-1.1459E-9	-0.0011219	22.439E-9
2	B	148.20000	150.00000	0.00000	0.60116	-0.083333	-1.1387E-9	-0.0011124	22.247E-9
2	B	153.35000	150.00000	0.00000	0.59050	-0.083333	-1.1134E-9	-0.0010924	21.848E-9
2	B	158.50000	150.00000	0.00000	0.57710	-0.083333	-1.0706E-9	-0.0010626	21.252E-9
2	B	163.65000	150.00000	0.00000	0.56111	-0.083333	-1.0127E-9	-0.0010238	20.477E-9
2	B	168.80000	150.00000	0.00000	0.54283	-0.083333	-942.89E-12	-977.57E-6	19.551E-9
2	B	173.95000	150.00000	0.00000	0.52259	-0.083333	-864.81E-12	-925.48E-6	18.510E-9
2	B	179.10000	150.00000	0.00000	0.50077	-0.083333	-782.27E-12	-869.37E-6	17.387E-9
2	B	184.25000	150.00000	0.00000	0.47774	-0.083333	-698.94E-12	-811.01E-6	16.220E-9
2	B	189.40000	150.00000	0.00000	0.45390	-0.083333	-617.69E-12	-752.02E-6	15.040E-9
2	B	194.55000	150.00000	0.00000	0.42962	-0.083333	-540.82E-12	-693.75E-6	13.875E-9
2	B	199.70000	150.00000	0.00000	0.40526	-0.083333	-469.86E-12	-637.32E-6	12.746E-9
2	B	204.85000	150.00000	0.00000	0.38111	-0.083333	-405.68E-12	-583.53E-6	11.671E-9
2	B	210.00000	150.00000	0.00000	0.35744	-0.083333	-348.58E-12	-532.92E-6	10.658E-9

Results : Consolidation : Displacement Data : Grids

None

Results : Total : Displacement Data : Grids

None

Titles

Job No.: 1157
Job Title: Highgate Schools
Sub-title: Dyne House and Island Building GMA
Calculation Heading: A2 Demo + Loading + Excav (LT)
Initials: SB
Checker:
Date Saved:
Date Checked:
Notes:
File Name: A1 Demo + Excav (ST).pdd
File Path: C:\Users\A-squared\Dropbox (A-squared)\A2-projects-1001-2000\1157 - Highgate School 2019\03 - Calculations\02 GMA - Dyne House and Island\02 Pdisp

History

Date	Time	By	Notes
02-Dec-2019	16:44	A-squared	New
02-Dec-2019	19:20	A-squared	
03-Dec-2019	12:28	A-squared	
03-Dec-2019	15:37	A-squared	
04-Dec-2019	11:44	A-squared	
04-Dec-2019	16:45	A-squared	
05-Dec-2019	11:04	A-squared	
05-Dec-2019	11:07	A-squared	
13-Nov-2023	14:26	A-squared	Open

Analysis Options

General
Global Poisson's ratio: 0.50
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: -58.00 [m OD]
Displacements at load centroids: Yes
GSA piled raft data : No

Elastic
Elastic : Yes

Consolidation
Consolidation : No

Soil ProfilesZone A ST

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Bagshot Beds	-1.5000	23	44000.	44000.	0.20000	None
3	CLaygate + LC	-13.000	45	9200.0	153200.	0.50000	None

Soil ProfilesZone A LT

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Bagshot Beds	-1.5000	23	44000.	44000.	0.20000	None
3	CLaygate + LC	-13.000	45	7400.0	124400.	0.20000	None

Soil ProfilesZone B ST

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Claygate + LC	-1.0000	57	9200.0	191600.	0.50000	None

Soil ProfilesZone B LT

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Claygate + LC	-1.0000	57	7400.0	155600.	0.20000	None

Soil Zones

Zone	Name	X min [m]	X max [m]	Y min [m]	Y max [m]	Profile
1	A	0.0	107.00	0.0	150.00	Zone A ST
2	B	107.00	210.00	0.0	150.00	Zone B ST

Polygonal Load Data

Load ref.	Name	Position : Level [m]	Position : Polygon : Coords. [m]	Position : Polygon : Rect. tolerance [%]	No. of Rectangles	Value : Normal (local z) [kN/m²]
1	Demolition - Island	0.00000	(51.5,94.6) (53.4,93.6) (53.3,92.1) (54.4,85.1) (54.2,85.1) (54.4,84.4) (54.5,84.3) (54.5,84.1) (54.3,83.5) (54.2,83.5) (54,82.8) (53.4,81.5) (52.4,81.9) (52.2,81.6) (52.1,81.6) (52,81.4) (49.3,82.4) (49.4,82.9) (48.7,83.2) (48.5,82.7) (45.8,83.7) (46,84.2) (45.6,84.4) (46.4,86.5) (45.1,87.3) (48.9,94.5) (50.9,93.4)	1.0000	48	-30.000
2	Demolition - Gym	0.00000	(126,51.9) (126,54) (123,54.2) (124,69.7) (127,69.4) (127,72.1) (134,71.8) (134,71.3) (137,71.1) (137,77.5) (165,75.8) (165,65.4) (161,65.7) (161,65.1) (158,65.2) (158,65.9) (151,66.2) (151,64.9) (150,65) (150,66.3) (143,66.7) (143,66.1) (140,66.3) (140,66.9) (137,67.1) (137,67.3) (134,67.5) (133,51.5)	1.0000	10	-30.000
3	Excavation - Island	-4.50000	(54.5,103) (60.2,99.7) (60.9,96.6) (59.2,93.3)	1.0000	22	-90.000

Load ref.	Name	Position : Level	Position : Polygon : Coords.	Position : Polygon : Rect. tolerance	No. of Rectangles	Value : Normal (local z)
		[m]	(62.1,89.9) (60.7,88.7) (57.6,90.4) (53.4,82.7) (45.9,86.8)	[m]		[kN/m²]
4	Excavation - DH Extension	-5.00000	(76.4,80.3) (76.4,51.6) (69.5,53.6) (62.2,55.7) (62.2,63.7) (68.6,73.7) (68.6,77.9) (67.9,78.7) (71,81.3) (71.8,80.4)	1.0000	49	-100.00
5	Excavation - Rear Block 1	-11.00000	(118,77.3) (118,54.7) (116,54.7) (110,56.3) (116,77.3)	1.0000	49	-220.00
6	Excavation - Rear Block 2	-7.00000	(167,77.3) (167,49.5) (134,49.5) (134,53.3) (118,53.3) (118,77.3)	1.0000	2	-140.00
7	Excavation - Rear Block 3	-4.00000	(167,77.3) (173,77.3) (173,49.5) (167,49.5)	1.0000	1	-80.000

Polygonal Loads' Rectangles

No.	Centre : x	Centre : y	Angle of local x from global X	Width x	Depth y
	[m]	[m]	[Degrees]	[m]	[m]
Load 1 : Demolition - Island					
(Edge 25 optimal)					
1	46.28927	88.95269	-20.523	1.1142	4.1287
2	47.66575	90.50634	-20.523	0.37467	8.2645
3	47.61909	89.24936	-20.523	0.40789	10.543
4	48.33815	88.63548	-20.523	1.3691	10.945
5	49.16161	88.62655	-20.523	0.17959	11.503
6	49.98822	88.61508	-20.523	1.3768	12.058
7	51.05526	88.40906	-20.523	0.76633	11.396
8	51.39469	87.57912	-20.523	0.37803	11.099
9	52.25819	85.69696	-20.523	2.5591	8.1741
10	53.13903	84.17428	-20.523	0.15847	5.5423
11	53.42806	83.88074	-20.523	0.58555	4.5515
12	53.72003	83.14914	-20.523	0.47429	3.3856
13	53.91612	82.91230	-20.523	0.059075	3.0794
14	54.38565	83.83848	-20.523	0.073150	0.69400
15	54.30533	85.19185	-20.523	0.13830	0.18441
Load 2 : Demolition - Gym					
(Edge 26 optimal)					
1	150.62768	66.38489	-93.438	0.17704	28.245
2	141.70839	66.52539	-93.438	0.60980	3.0102
3	150.53494	65.62304	-93.438	1.3476	1.5621
4	159.46607	65.45430	-93.438	0.61691	3.0199
5	151.05334	73.48160	-93.438	6.3854	28.239
6	130.69961	71.72807	-93.438	0.45596	6.4721
7	146.13911	69.43961	-93.438	2.2598	37.569
8	144.48767	67.62467	-93.438	1.5616	40.651
9	128.47248	60.83464	-93.438	13.900	9.5187
10	129.50627	52.77112	-93.438	2.0633	6.4191
Load 3 : Excavation - Island					
(Edge 2 optimal)					
1	53.05055	93.23464	-28.435	6.4322	18.121
2	56.53458	90.67276	-28.435	2.1350	16.933
3	59.80208	90.72402	-28.435	3.5504	2.6541
4	61.66756	89.74903	-28.435	0.65900	0.98897
Load 4 : Excavation - DH Extension					
(Edge 1 optimal)					
1	72.94553	75.96672	-139.25	4.0072	10.678
2	72.51362	71.28559	-139.25	2.7428	12.004
3	71.32518	64.04982	-139.25	8.5040	15.649
4	68.46187	58.62698	-139.25	2.9138	16.659
5	66.30963	58.05193	-139.25	1.0979	12.561
6	64.02105	56.72587	-139.25	4.1008	5.5490
7	75.27832	79.02167	-139.25	3.4613	3.5275
Load 5 : Excavation - Rear Block 1					
(Edge 4 optimal)					
1	115.58913	55.49416	90.021	1.6628	5.1157
2	115.69264	66.80120	90.021	20.951	4.9003
Load 6 : Excavation - Rear Block 2					
(Edge 2 optimal)					
1	142.55700	65.28095	-90.000	23.993	48.836
2	150.44528	51.37845	-90.000	3.7945	33.060
Load 7 : Excavation - Rear Block 3					
(Edge 2 optimal)					
1	170.07070	63.37838	0.0	6.1912	27.803

Displacement Lines

Name	X1	Y1	Z1	X2	Y2	Z2	Intervals	Calculate	Detailed Results
	[m]	[m]	[m]	[m]	[m]	[m]	[No.]		
16S-01	86.49970	85.17730	0.00000	83.20530	80.14150	0.00000	14	Yes	Yes
16S-02	83.20530	80.14150	0.00000	76.63030	80.56000	0.00000	14	Yes	Yes
16S-03	76.63030	80.56000	0.00000	74.09120	81.74640	0.00000	6	Yes	Yes
16S-04	74.09120	81.74640	0.00000	78.40230	88.09530	0.00000	16	Yes	Yes
16S-05	78.40230	88.09530	0.00000	81.32480	88.63460	0.00000	6	Yes	Yes
16S-06	81.32480	88.63460	0.00000	86.49970	85.17730	0.00000	14	Yes	Yes
BS-01	41.07740	85.19800	0.00000	53.23290	80.64880	0.00000	26	Yes	Yes
BS-02	53.23290	80.64880	0.00000	42.51740	52.13290	0.00000	62	Yes	Yes
BS-03	42.51740	52.13290	0.00000	42.17240	52.11540	0.00000	2	Yes	Yes
BS-04	42.17240	52.11540	0.00000	39.63950	46.85170	0.00000	12	Yes	Yes
BS-05	39.63950	46.85170	0.00000	37.99000	47.16020	0.00000	4	Yes	Yes
BS-06	37.99000	47.16020	0.00000	36.51990	47.82810	0.00000	4	Yes	Yes
BS-07	36.51990	47.82810	0.00000	34.49770	50.18930	0.00000	8	Yes	Yes
BS-08	34.49770	50.18930	0.00000	32.12670	51.31390	0.00000	6	Yes	Yes
BS-09	32.12670	51.31390	0.00000	32.87920	53.12180	0.00000	4	Yes	Yes
BS-10	32.87920	53.12180	0.00000	31.33990	53.64740	0.00000	4	Yes	Yes
BS-11	31.33990	53.64740	0.00000	31.19190	53.16840	0.00000	2	Yes	Yes
BS-12	31.19190	53.16840	0.00000	28.24390	54.40430	0.00000	8	Yes	Yes
BS-13	28.24390	54.40430	0.00000	29.54720	57.70510	0.00000	8	Yes	Yes
BS-14	29.54720	57.70510	0.00000	31.85950	56.75830	0.00000	6	Yes	Yes
BS-15	31.85950	56.75830	0.00000	37.79640	72.67750	0.00000	34	Yes	Yes
BS-16	37.79640	72.67750	0.00000	39.20230	77.43090	0.00000	10	Yes	Yes
BS-17	39.20230	77.43090	0.00000	38.43440	77.71030	0.00000	2	Yes	Yes
BS-18	38.43440	77.71030	0.00000	41.07740	85.19800	0.00000	16	Yes	Yes
SB-01	80.55960	128.61410	0.00000	81.13390	129.59790	0.00000	4	Yes	Yes
SB-02	81.13390	129.59790	0.00000	89.14240	124.70300	0.00000	20	Yes	Yes
SB-03	89.14240	124.70300	0.00000	73.53980	100.34490	0.00000	58	Yes	Yes
SB-04	73.53980	100.34490	0.00000	65.93010	105.17790	0.00000	20	Yes	Yes
SB-05	65.93010	105.17790	0.00000	74.10680	118.07820	0.00000	32	Yes	Yes
SB-06	74.10680	118.07820	0.00000	70.98220	119.61800	0.00000	8	Yes	Yes
SB-07	70.98220	119.61800	0.00000	70.38470	118.22480	0.00000	4	Yes	Yes
SB-08	70.38470	118.22480	0.00000	44.31930	131.98290	0.00000	60	Yes	Yes
SB-09	44.31930	131.98290	0.00000	51.65870	146.07890	0.00000	32	Yes	Yes
SB-10	51.65870	146.07890	0.00000	59.61210	141.39690	0.00000	20	Yes	Yes
SB-11	59.61210	141.39690	0.00000	75.98430	132.89110	0.00000	38	Yes	Yes
SB-12	75.98430	132.89110	0.00000	76.90880	132.21500	0.00000	4	Yes	Yes
SB-13	76.90880	132.21500	0.00000	76.33510	131.08120	0.00000	4	Yes	Yes
SB-14	76.33510	131.08120	0.00000	80.55960	128.61410	0.00000	10	Yes	Yes
HL-01	50.98220	128.46600	0.00000	43.94760	114.73030	0.00000	32	Yes	Yes
HL-02	43.94760	114.73030	0.00000	37.36020	118.28250	0.00000	16	Yes	Yes
HL-03	37.36020	118.28250	0.00000	44.31930	131.98290	0.00000	32	Yes	Yes
CH-01	43.98880	114.70780	0.00000	56.08310	108.24940	0.00000	28	Yes	Yes
CH-02	56.08310	108.24940	0.00000	44.38770	86.97580	0.00000	50	Yes	Yes
CH-03	44.38770	86.97580	0.00000	25.93000	97.76960	0.00000	44	Yes	Yes
CH-04	25.93000	97.76960	0.00000	37.36040	118.28280	0.00000	48	Yes	Yes
CH-05	44.38770	86.97580	0.00000	41.03370	86.11560	0.00000	8	Yes	Yes
CH-06	41.03370	86.11560	0.00000	29.42230	92.90730	0.00000	28	Yes	Yes
CH-07	29.42230	92.90730	0.00000	24.55210	85.67300	0.00000	18	Yes	Yes
CH-08	24.55210	85.67300	0.00000	24.16950	85.90510	0.00000	2	Yes	Yes
CH-09	24.16950	85.90510	0.00000	22.25690	83.20670	0.00000	8	Yes	Yes
CH-10	22.25690	83.20670	0.00000	18.11130	85.84720	0.00000	10	Yes	Yes
CH-11	18.11130	85.84720	0.00000	25.93050	97.77050	0.00000	30	Yes	Yes
10S-01	60.26430	42.08760	0.00000	57.77080	36.14360	0.00000	14	Yes	Yes
10S-02	57.77080	36.14360	0.00000	54.91210	37.26910	0.00000	8	Yes	Yes

Name	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals [No.]	Calculate	Detailed Results
10S-03	54.91210	37.26910	0.00000	54.06250	35.40070	0.00000	6	Yes	Yes
10S-04	54.06250	35.40070	0.00000	55.90000	34.60740	0.00000	6	Yes	Yes
10S-05	55.90000	34.60740	0.00000	53.30950	28.60710	0.00000	14	Yes	Yes
10S-06	53.30950	28.60710	0.00000	46.58180	31.16640	0.00000	16	Yes	Yes
10S-07	46.58180	31.16640	0.00000	52.66200	44.99820	0.00000	32	Yes	Yes
10S-08	52.66200	44.99820	0.00000	60.26430	42.08760	0.00000	18	Yes	Yes
10S-09	55.90000	34.60740	0.00000	59.97500	32.99120	0.00000	10	Yes	Yes
10S-10	59.97500	32.99120	0.00000	57.49980	26.93420	0.00000	14	Yes	Yes
10S-11	57.49980	26.93420	0.00000	53.30950	28.60710	0.00000	10	Yes	Yes
10S-12	53.30950	28.60710	0.00000	55.90000	34.60740	0.00000	14	Yes	Yes
12S-01	56.42810	52.89730	0.00000	70.66640	48.88690	0.00000	30	Yes	Yes
12S-02	70.66640	48.88690	0.00000	68.32350	43.73440	0.00000	12	Yes	Yes
12S-03	68.32350	43.73440	0.00000	67.26410	44.08820	0.00000	4	Yes	Yes
12S-04	67.26410	44.08820	0.00000	65.69450	40.00190	0.00000	10	Yes	Yes
12S-05	65.69450	40.00190	0.00000	52.89570	44.95010	0.00000	28	Yes	Yes
12S-06	52.89570	44.95010	0.00000	56.42810	52.89730	0.00000	18	Yes	Yes
14S-01	92.77120	50.75620	0.00000	98.63620	50.38480	0.00000	12	Yes	Yes
14S-02	98.63620	50.38480	0.00000	98.27100	35.62610	0.00000	30	Yes	Yes
14S-03	98.27100	35.62610	0.00000	92.16740	36.00230	0.00000	14	Yes	Yes
14S-04	92.16740	36.00230	0.00000	92.40030	33.74250	0.00000	6	Yes	Yes
14S-05	92.40030	33.74250	0.00000	87.39420	33.22650	0.00000	12	Yes	Yes
14S-06	87.39420	33.22650	0.00000	84.96610	32.69190	0.00000	6	Yes	Yes
14S-07	84.96610	32.69190	0.00000	84.24980	39.01460	0.00000	14	Yes	Yes
14S-08	84.24980	39.01460	0.00000	91.78250	39.68670	0.00000	16	Yes	Yes
14S-09	91.78250	39.68670	0.00000	91.28600	45.08870	0.00000	12	Yes	Yes
14S-10	91.28600	45.08870	0.00000	92.75790	45.17660	0.00000	4	Yes	Yes
14S-11	92.75790	45.17660	0.00000	92.77120	50.75620	0.00000	12	Yes	Yes
14S-12	91.78250	39.68670	0.00000	92.16740	36.00230	0.00000	8	Yes	Yes
18S-01	81.33400	88.63190	0.00000	86.41230	96.00810	0.00000	18	Yes	Yes
18S-02	86.41230	96.00810	0.00000	92.95060	91.70430	0.00000	16	Yes	Yes
18S-03	92.95060	91.70430	0.00000	91.78190	89.93000	0.00000	6	Yes	Yes
18S-04	91.78190	89.93000	0.00000	90.32680	90.89600	0.00000	4	Yes	Yes
18S-05	90.32680	90.89600	0.00000	86.49690	85.17440	0.00000	14	Yes	Yes
20S-01	86.41230	96.00810	0.00000	84.52910	97.22690	0.00000	6	Yes	Yes
20S-02	84.52910	97.22690	0.00000	87.92950	102.39110	0.00000	14	Yes	Yes
20S-03	87.92950	102.39110	0.00000	96.34550	96.84960	0.00000	22	Yes	Yes
20S-04	96.34550	96.84960	0.00000	92.95490	91.70020	0.00000	14	Yes	Yes
20S-05	87.93150	102.38980	0.00000	89.37460	104.56500	0.00000	6	Yes	Yes
20S-06	89.37460	104.56500	0.00000	98.06690	99.48250	0.00000	22	Yes	Yes
20S-07	98.06690	99.48250	0.00000	96.33700	96.85520	0.00000	8	Yes	Yes
HT-01	89.37270	104.57010	0.00000	88.40380	105.14270	0.00000	4	Yes	Yes
HT-02	88.40380	105.14270	0.00000	96.95640	119.99620	0.00000	36	Yes	Yes
HT-03	96.95640	119.99620	0.00000	106.14990	114.69620	0.00000	22	Yes	Yes
HT-04	106.14990	114.69620	0.00000	97.55640	99.83220	0.00000	36	Yes	Yes
22S-01	111.36030	124.06920	0.00000	117.67220	121.87340	0.00000	14	Yes	Yes
22S-02	117.67220	121.87340	0.00000	113.74630	110.60680	0.00000	24	Yes	Yes
22S-03	113.74630	110.60680	0.00000	107.41530	112.81150	0.00000	14	Yes	Yes
22S-04	107.41530	112.81150	0.00000	111.36030	124.06920	0.00000	24	Yes	Yes
23K-01	126.87040	106.75440	0.00000	121.35490	108.65170	0.00000	12	Yes	Yes
23K-02	121.35490	108.65170	0.00000	124.50830	117.78880	0.00000	20	Yes	Yes
23K-03	124.50830	117.78880	0.00000	130.05210	115.90790	0.00000	12	Yes	Yes
23K-04	130.24640	116.47000	0.00000	135.14280	114.77200	0.00000	12	Yes	Yes
23K-05	135.32920	115.30920	0.00000	140.56920	113.49180	0.00000	12	Yes	Yes
23K-06	140.75790	114.06100	0.00000	145.80760	112.31000	0.00000	12	Yes	Yes
23K-07	145.92710	112.67510	0.00000	151.15830	110.86520	0.00000	12	Yes	Yes
23K-08	151.15830	110.86520	0.00000	147.93780	101.55660	0.00000	20	Yes	Yes
23K-09	147.93780	101.55660	0.00000	142.71890	103.40190	0.00000	12	Yes	Yes
23K-10	137.49760	104.66790	0.00000	142.54690	102.91530	0.00000	12	Yes	Yes
23K-11	142.54690	102.91530	0.00000	145.92710	112.67510	0.00000	22	Yes	Yes
23K-12	140.75790	114.06100	0.00000	137.34700	104.23380	0.00000	22	Yes	Yes
23K-13	137.34700	104.23380	0.00000	132.13560	106.08440	0.00000	12	Yes	Yes
23K-14	127.09450	107.39930	0.00000	132.00260	105.70020	0.00000	12	Yes	Yes
23K-15	132.00260	105.70020	0.00000	135.32920	115.30920	0.00000	22	Yes	Yes
23K-16	130.24640	116.47000	0.00000	126.87040	106.75440	0.00000	22	Yes	Yes
23K-17	150.73130	109.63110	0.00000	154.98620	108.13750	0.00000	10	Yes	Yes
23K-18	154.98620	108.13750	0.00000	153.26510	103.07420	0.00000	12	Yes	Yes
23K-19	153.26510	103.07420	0.00000	148.98040	104.57010	0.00000	10	Yes	Yes
23AB-01	147.70060	95.28400	0.00000	151.69590	95.55920	0.00000	10	Yes	Yes
23AB-02	151.69590	95.55920	0.00000	151.67850	95.77640	0.00000	2	Yes	Yes
23AB-03	151.67850	95.77640	0.00000	156.45740	96.11380	0.00000	10	Yes	Yes
23AB-04	156.45740	96.11380	0.00000	156.91140	89.68290	0.00000	14	Yes	Yes
23AB-05	156.91140	89.68290	0.00000	157.92310	89.75230	0.00000	4	Yes	Yes
23AB-06	157.92310	89.75230	0.00000	158.43810	83.37010	0.00000	14	Yes	Yes
23AB-07	158.43810	83.37010	0.00000	153.41680	82.96500	0.00000	12	Yes	Yes
23AB-08	153.41680	82.96500	0.00000	153.39420	83.24560	0.00000	2	Yes	Yes
23AB-09	153.39420	83.24560	0.00000	147.77430	82.89600	0.00000	12	Yes	Yes
23AB-10	147.77430	82.89600	0.00000	147.53430	85.93970	0.00000	8	Yes	Yes
23AB-11	147.53430	85.93970	0.00000	149.37650	86.06600	0.00000	4	Yes	Yes
23AB-12	149.37650	86.06600	0.00000	149.18030	88.92790	0.00000	6	Yes	Yes
23AB-13	149.18030	88.92790	0.00000	148.15150	88.83780	0.00000	4	Yes	Yes
23AB-14	148.15150	88.83780	0.00000	147.70060	95.28400	0.00000	14	Yes	Yes
23AB-15	149.18030	88.92790	0.00000	156.87950	89.68080	0.00000	16	Yes	Yes
28K-01	157.04370	132.95660	0.00000	166.97510	127.93910	0.00000	24	Yes	Yes
28K-02	166.97510	127.93910	0.00000	166.97510	124.18080	0.00000	8	Yes	Yes
28K-03	166.97510	124.18080	0.00000	162.93810	116.19020	0.00000	18	Yes	Yes
28K-04	162.93810	116.19020	0.00000	156.00440	119.55240	0.00000	16	Yes	Yes
28K-05	156.00440	119.55240	0.00000	159.23750	126.13830	0.00000	16	Yes	Yes
28K-06	159.23750	126.13830	0.00000	154.79550	128.31900	0.00000	10	Yes	Yes
28K-07	154.79550	128.31900	0.00000	157.04370	132.95660	0.00000	12	Yes	Yes

Displacement Grids

Name	Extrusion: Direction	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals Along Line [No.]	Extrusion: Distance [m]	Extrusion: Intervals Along [No.]	Calculate	Detailed Results
A	Global X	0.00000	0.00000	0.00000	-	150.00000	0.00000	30	107.00000	21	Yes	Yes
B	Global X	107.00000	0.00000	0.00000	-	150.00000	0.00000	30	103.00000	20	Yes	Yes

Results : Immediate : Load Centres : Polygonal

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	Demolition - Island	50.24481	87.69775	0.00000	-27.76687	-0.12500	-29.999	-70.174	-0.0021965
2	Demolition - Gym	142.50032	67.85597	0.00000	-64.67963	-0.083333	-29.999	-70.430	-0.0021913
3	Excavation - Island	54.23715	92.51654	-4.50000	-27.06969	-4.7361	-97.278	-218.81	-0.0016584
4	Excavation - DH Extension	70.61353	65.24345	-5.00000	-45.71969	-5.2353	-98.404	-223.79	-0.0016665
5	Excavation - Rear Block 1	115.39120	63.99754	-11.00000	-42.89139	-11.044	-242.98	-599.22	-0.0051242
6	Excavation - Rear Block 2	143.32062	63.93365	-7.00000	-53.31472	-7.1213	-148.12	-350.72	-0.0046153
7	Excavation - Rear Block 3	170.07170	63.37677	-4.00000	-33.40101	-4.2524	-80.533	-185.33	-0.0037592
8	Load - Island	51.29969	91.78668	-11.17000	-13.41120	-11.399	-31.397	-8.2112	-818.96E-6
9	Load - DH Front	72.27748	66.38188	-5.00000	-41.95979	-5.2353	-84.981	-196.40	-0.0014249
10	Load - DH Extension	75.04661	64.60660	-5.00000	-31.78406	-5.2353	-40.036	-96.600	-652.79E-6
11	Load - Rear Block	142.62473	62.99684	-14.00000	-26.67079	-14.021	-94.427	-119.62	-0.0021668
12	Load - Bridge Link A	103.58839	63.48576	-18.00000	-7.65271	-18.160	-3.1923	-18.567	-5.6421E-6
13	Load - Bridge Link B	110.05170	65.86005	-3.00000	-11.16254	-3.3181	7.9442	16.172	469.70E-6

Results : Consolidation : Load Centres : Polygonal

None

Results : Total : Load Centres : Polygonal

None

Results : Immediate : Displacement Data : Lines

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	16S-01	86.49970	85.17730	0.00000	-3.36227	-0.12500	-67.769E-9	-0.0065960	131.91E-9
1	16S-01	86.26439	84.81760	0.00000	-3.51277	-0.12500	-68.717E-9	-0.0066222	132.44E-9
1	16S-01	86.02907	84.45790	0.00000	-3.67314	-0.12500	-69.677E-9	-0.0066481	132.95E-9
1	16S-01	85.79376	84.09820	0.00000	-3.84411	-0.12500	-70.650E-9	-0.0066735	133.46E-9
1	16S-01	85.55844	83.73850	0.00000	-4.02649	-0.12500	-71.633E-9	-0.0066985	133.96E-9
1	16S-01	85.32313	83.37880	0.00000	-4.22112	-0.12500	-72.626E-9	-0.0067231	134.45E-9
1	16S-01	85.08781	83.01910	0.00000	-4.42889	-0.12500	-73.628E-9	-0.0067471	134.93E-9
1	16S-01	84.85250	82.65940	0.00000	-4.65071	-0.12500	-74.638E-9	-0.0067706	135.40E-9
1	16S-01	84.61719	82.29970	0.00000	-4.88758	-0.12500	-75.655E-9	-0.0067934	135.86E-9
1	16S-01	84.38187	81.94000	0.00000	-5.14047	-0.12500	-76.676E-9	-0.0068157	136.30E-9
1	16S-01	84.14656	81.58030	0.00000	-5.41043	-0.12500	-77.702E-9	-0.0068372	136.74E-9
1	16S-01	83.91124	81.22060	0.00000	-5.69847	-0.12500	-78.729E-9	-0.0068581	137.15E-9
1	16S-01	83.67593	80.86090	0.00000	-6.00564	-0.12500	-79.756E-9	-0.0068782	137.55E-9
1	16S-01	83.44061	80.50120	0.00000	-6.33295	-0.12500	-80.782E-9	-0.0068975	137.94E-9
1	16S-01	83.20530	80.14150	0.00000	-6.68136	-0.12500	-81.803E-9	-0.0069159	138.31E-9
2	16S-02	83.20530	80.14150	0.00000	-6.68136	-0.12500	-81.803E-9	-0.0069159	138.31E-9
2	16S-02	82.73566	80.17139	0.00000	-7.07803	-0.12500	-84.824E-9	-0.0069598	139.19E-9
2	16S-02	82.26601	80.20129	0.00000	-7.50781	-0.12500	-88.267E-9	-0.0070146	140.28E-9
2	16S-02	81.79637	80.23118	0.00000	-7.97289	-0.12500	-92.167E-9	-0.0070808	141.61E-9
2	16S-02	81.32673	80.26107	0.00000	-8.47546	-0.12500	-96.565E-9	-0.0071589	143.17E-9
2	16S-02	80.85709	80.29096	0.00000	-9.01773	-0.12500	-101.51E-9	-0.0072494	144.98E-9
2	16S-02	80.38744	80.32086	0.00000	-9.60198	-0.12500	-107.04E-9	-0.0073531	147.05E-9
2	16S-02	79.91780	80.35075	0.00000	-10.23053	-0.12500	-113.24E-9	-0.0074705	149.40E-9
2	16S-02	79.44816	80.38064	0.00000	-10.90596	-0.12500	-120.15E-9	-0.0076026	152.04E-9
2	16S-02	78.97851	80.41054	0.00000	-11.63138	-0.12500	-127.87E-9	-0.0077502	154.99E-9
2	16S-02	78.50887	80.44043	0.00000	-12.41092	-0.12500	-136.48E-9	-0.0079142	158.27E-9
2	16S-02	78.03923	80.47032	0.00000	-13.25086	-0.12500	-146.07E-9	-0.0080958	161.90E-9
2	16S-02	77.56959	80.50021	0.00000	-14.16168	-0.12500	-156.77E-9	-0.0082962	165.91E-9
2	16S-02	77.09994	80.53011	0.00000	-15.16238	-0.12500	-168.71E-9	-0.0085167	170.31E-9
2	16S-02	76.63030	80.56000	0.00000	-16.28195	-0.12500	-182.04E-9	-0.0087590	175.16E-9
3	16S-03	76.63030	80.56000	0.00000	-16.28195	-0.12500	-182.04E-9	-0.0087590	175.16E-9
3	16S-03	76.20712	80.75773	0.00000	-16.72784	-0.12500	-196.77E-9	-0.0090223	180.42E-9
3	16S-03	75.78393	80.95547	0.00000	-16.93522	-0.12500	-213.22E-9	-0.0093104	186.18E-9
3	16S-03	75.36075	81.15320	0.00000	-16.99284	-0.12500	-231.61E-9	-0.0096253	192.48E-9
3	16S-03	74.93757	81.35093	0.00000	-16.94715	-0.12500	-252.19E-9	-0.0099692	199.35E-9
3	16S-03	74.51438	81.54867	0.00000	-16.82068	-0.12500	-275.27E-9	-0.010345	206.86E-9
3	16S-03	74.09120	81.74640	0.00000	-16.62743	-0.12500	-301.19E-9	-0.010754	215.05E-9
4	16S-04	74.09120	81.74640	0.00000	-16.62743	-0.12500	-301.19E-9	-0.010754	215.05E-9
4	16S-04	74.36064	82.14321	0.00000	-15.24825	-0.12500	-290.55E-9	-0.010589	211.75E-9
4	16S-04	74.63009	82.54001	0.00000	-14.01298	-0.12500	-279.99E-9	-0.010422	208.40E-9
4	16S-04	74.89953	82.93682	0.00000	-12.90040	-0.12500	-269.54E-9	-0.010253	205.02E-9
4	16S-04	75.16898	83.33362	0.00000	-11.89496	-0.12500	-259.24E-9	-0.010083	201.62E-9
4	16S-04	75.43842	83.73043	0.00000	-10.98431	-0.12500	-249.12E-9	-0.0099118	198.21E-9
4	16S-04	75.70786	84.12724	0.00000	-10.15825	-0.12500	-239.21E-9	-0.0097409	194.79E-9
4	16S-04	75.97731	84.52404	0.00000	-9.40806	-0.12500	-229.53E-9	-0.0095704	191.38E-9
4	16S-04	76.24675	84.92085	0.00000	-8.72614	-0.12500	-220.10E-9	-0.0094006	187.99E-9
4	16S-04	76.51619	85.31766	0.00000	-8.10575	-0.12500	-210.93E-9	-0.0092321	184.62E-9
4	16S-04	76.78564	85.71446	0.00000	-7.54085	-0.12500	-202.03E-9	-0.0090650	181.28E-9
4	16S-04	77.05508	86.11127	0.00000	-7.02600	-0.12500	-193.42E-9	-0.0088999	177.97E-9
4	16S-04	77.32452	86.50807	0.00000	-6.55627	-0.12500	-185.11E-9	-0.0087368	174.71E-9
4	16S-04	77.59397	86.90488	0.00000	-6.12719	-0.12500	-177.09E-9	-0.0085762	171.50E-9
4	16S-04	77.86341	87.30169	0.00000	-5.73474	-0.12500	-169.36E-9	-0.0084181	168.34E-9
4	16S-04	78.13286	87.69849	0.00000	-5.37525	-0.12500	-161.94E-9	-0.0082628	165.24E-9
4	16S-04	78.40230	88.09530	0.00000	-5.04546	-0.12500	-154.82E-9	-0.0081105	162.19E-9
5	16S-05	78.40230	88.09530	0.00000	-5.04546	-0.12500	-154.82E-9	-0.0081105	162.19E-9
5	16S-05	78.88938	88.18518	0.00000	-4.81916	-0.12500	-143.41E-9	-0.0078829	157.64E-9
5	16S-05	79.37647	88.27507	0.00000	-4.60153	-0.12500	-133.19E-9	-0.0076751	153.49E-9
5	16S-05	79.86355	88.36495	0.00000	-4.39296	-0.12500	-124.04E-9	-0.0074858	149.70E-9
5	16S-05	80.35063	88.45483	0.00000	-4.19371	-0.12500	-115.83E-9	-0.0073135	146.26E-9
5	16S-05	80.83772	88.54472	0.00000	-4.00390	-0.12500	-108.47E-9	-0.0071571	143.13E-9
5	16S-05	81.32480	88.63460	0.00000	-3.82358	-0.12500	-101.86E-9	-0.0070155	140.30E-9
6	16S-06	81.32480	88.63460	0.00000	-3.82358	-0.12500	-101.86E-9	-0.0070155	140.30E-9
6	16S-06	81.69444	88.38765	0.00000	-3.80223	-0.12500	-97.622E-9	-0.0069392	138.77E-9
6	16S-06	82.06407	88.14070	0.00000	-3.77860	-0.12500	-93.717E-9	-0.0068706	137.40E-9
6	16S-06	82.43371	87.89375	0.00000	-3.75269	-0.12500	-90.132E-9	-0.0068095	136.18E-9
6	16S-06	82.80334	87.64680	0.00000	-3.72457	-0.12500	-86.849E-9	-0.0067556	135.10E-9
6	16S-06	83.17298	87.39985	0.00000	-3.69434	-0.12500	-83.853E-9	-0.0067090	134.17E-9
6	16S-06	83.54261	87.15290	0.00000	-3.66217	-0.12500	-81.128E-9	-0.0066694	133.38E-9
6	16S-06	83.91225	86.90595	0.00000	-3.62824	-0.12500	-78.663E-9	-0.0066368	132.73E-9
6	16S-06	84.28189	86.65900	0.00000	-3.59277	-0.12500	-76.443E-9	-0.0066110	132.21E-9
6	16S-06	84.65152	86.41205	0.00000	-3.55601	-0.12500	-74.460E-9	-0.0065920	131.83E-9
6	16S-06	85.02116	86.16510	0.00000	-3.51820	-0.12500	-72.702E-9	-0.0065797	131.58E-9
6	16S-06	85.39079	85.91815	0.00000	-3.47964	-0.12500	-71.161E-9	-0.0065739	131.47E-9
6	16S-06	85.76043	85.67120	0.00000	-3.44061	-0.12500	-69.830E-9	-0.0065748	131.49E-9
6	16S-06	86.13006	85.42425	0.00000	-3.40139	-0.12500	-68.701E-9	-0.0065821	131.63E-9
6	16S-06	86.49970	85.17730	0.00000	-3.36227	-0.12500	-67.769E-9	-0.0065960	131.91E-9
7	BS-01	41.07740	85.19800	0.00000	-5.12752	-0.12500	-72.311E-6	-0.18730	3.7374E-6
7	BS-01	41.54492	85.02303	0.00000	-5.30650	-0.12500	-100.92E-6	-0.22194	4.4267E-6
7	BS-01	42.01244	84.84806	0.00000	-5.45650	-0.12500	-145.01E-6	-0.26596	5.3019E-6
7	BS-01	42.47996	84.67309	0.00000	-5.56493	-0.12500	-216.41E-6	-0.32315	6.4371E-6
7	BS-01	42.94748	84.49812	0.00000	-5.61156	-0.12500	-340.49E-6	-0.39970	7.9532E-6
7	BS-01	43.41500	84.32315	0.00000	-5.56683	-0.12500	-578.89E-6	-0.50669	10.064E-6
7	BS-01	43.88252	84.14818	0.00000	-5.39069	-0.12500	-0.0011051	-0.66592	13.186E-6
7	BS-01	44.35003	83.97322	0.00000	-4.88283	-0.12500	-0.0024996	-0.92469	18.194E-6
7	BS-01	44.81755	83.79825	0.00000	-4.76270	-0.12500	-0.0071868	-1.3972	27.082E-6
7	BS-01	45.28507	83.62328	0.00000	-4.92595	-0.12500	-0.031834	-2.4253	44.685E-6
7	BS-01	45.75259	83.44831	0.00000	-5.34676	-0.12500	-0.22440	-5.0223	73.518E-6
7	BS-01	46.22011	83.27334	0.00000	-5.80337	-0.12500	-0.34000	-6.9096	97.392E-6
7	BS-01	46.68763	83.09837	0.00000	-6.18945	-0.12500	-0.35735	-7.5106	107.33E-6
7	BS-01	47.15515	82.92340	0.00000	-6.54595	-0.12500	-0.36650	-7.7511	111.04E-6
7	BS-01	47.62267	82.74843	0.00000	-6.87696	-0.12500	-0.37247	-7.7717	110.74E-6
7	BS-01	48.09019	82.57346	0.00000	-7.14513	-0.12500	-0.35237	-7.2374	102.46E-6
7	BS-01	48.55771	82.39849	0.00000	-7.31703	-0.12500	-0.12075	-5.0811	87.132E-6
7	BS-01	49.02523	82.22352	0.00000	-7.63137	-0.12500	-0.10836	-4.9616	86.228E-6
7	BS-01	49.49275	82.04855	0.00000	-8.09134	-0.12500	-0.30194	-6.8720	101.21E-6
7	BS-01	49.96027	81.87358	0.00000	-8.47637	-0.12500	-0.33435	-7.4820	109.52E-6
7	BS-01	50.42778	81.69862	0.00000	-8.82524	-0.12500	-0.34397	-7.6107	110.94E-6
7	BS-01	50.89530	81.52365	0.00000	-9.19842	-0.12500	-0.35098	-7.5660	109.20E-6
7	BS-01	51.36282	81.34868	0.00000	-9.62382	-0.12500	-0.35198	-7.2538	102.84E-6

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
7	BS-01	51.83034	81.17371	0.00000	-10.08019	-0.12500	-0.26059	-5.8035	84.800E-6
7	BS-01	52.29786	80.99874	0.00000	-10.75421	-0.12500	-0.050091	-3.3044	60.077E-6
7	BS-01	52.76538	80.82377	0.00000	-11.09782	-0.12500	-0.019884	-2.2296	42.205E-6
7	BS-01	53.23290	80.64880	0.00000	-11.26990	-0.12500	-0.010101	-1.5404	29.595E-6
8	BS-02	53.23290	80.64880	0.00000	-11.26990	-0.12500	-0.010101	-1.5404	29.595E-6
8	BS-02	53.06007	80.18887	0.00000	-10.54063	-0.12500	-0.0029213	-0.94487	18.547E-6
8	BS-02	52.88724	79.72893	0.00000	-9.95046	-0.12500	-0.0012165	-0.65073	12.869E-6
8	BS-02	52.71441	79.26900	0.00000	-9.45315	-0.12500	-605.09E-6	-0.47749	9.4772E-6
8	BS-02	52.54158	78.80906	0.00000	-9.01869	-0.12500	-336.70E-6	-0.36551	7.2698E-6
8	BS-02	52.36875	78.34913	0.00000	-8.62595	-0.12500	-202.99E-6	-0.28855	5.7467E-6
8	BS-02	52.19592	77.88920	0.00000	-8.26182	-0.12500	-130.01E-6	-0.23324	4.6491E-6
8	BS-02	52.02309	77.42926	0.00000	-7.91951	-0.12500	-87.298E-6	-0.19207	3.8310E-6
8	BS-02	51.85025	76.96933	0.00000	-7.59602	-0.12500	-60.876E-6	-0.16059	3.2045E-6
8	BS-02	51.67742	76.50940	0.00000	-7.29020	-0.12500	-43.777E-6	-0.13597	2.7142E-6
8	BS-02	51.50459	76.04946	0.00000	-7.00151	-0.12500	-32.295E-6	-0.11636	2.3233E-6
8	BS-02	51.33176	75.58953	0.00000	-6.72953	-0.12500	-24.341E-6	-0.10049	2.0070E-6
8	BS-02	51.15893	75.12959	0.00000	-6.47370	-0.12500	-18.685E-6	-0.087492	1.7476E-6
8	BS-02	50.98610	74.66966	0.00000	-6.23332	-0.12500	-14.571E-6	-0.076712	1.5325E-6
8	BS-02	50.81327	74.20973	0.00000	-6.00755	-0.12500	-11.521E-6	-0.067688	1.3524E-6
8	BS-02	50.64044	73.74979	0.00000	-5.79547	-0.12500	-9.2207E-6	-0.060067	1.2002E-6
8	BS-02	50.46761	73.28986	0.00000	-5.59610	-0.12500	-7.4599E-6	-0.053580	1.0707E-6
8	BS-02	50.29478	72.82992	0.00000	-5.40845	-0.12500	-6.0942E-6	-0.048020	959.68E-9
8	BS-02	50.12195	72.36999	0.00000	-5.23153	-0.12500	-5.0223E-6	-0.043225	863.90E-9
8	BS-02	49.94912	71.91006	0.00000	-5.06440	-0.12500	-4.1719E-6	-0.039065	780.81E-9
8	BS-02	49.77629	71.45012	0.00000	-4.90613	-0.12500	-3.4908E-6	-0.035438	708.34E-9
8	BS-02	49.60346	70.99019	0.00000	-4.75587	-0.12500	-2.9405E-6	-0.032259	644.83E-9
8	BS-02	49.43063	70.53025	0.00000	-4.61283	-0.12500	-2.4922E-6	-0.029461	588.93E-9
8	BS-02	49.25780	70.07032	0.00000	-4.47624	-0.12500	-2.1244E-6	-0.026988	539.50E-9
8	BS-02	49.08496	69.61039	0.00000	-4.34545	-0.12500	-1.8204E-6	-0.024793	495.65E-9
8	BS-02	48.91213	69.15045	0.00000	-4.21981	-0.12500	-1.5677E-6	-0.022839	456.58E-9
8	BS-02	48.73930	68.69052	0.00000	-4.09878	-0.12500	-1.3563E-6	-0.021092	421.67E-9
8	BS-02	48.56647	68.23059	0.00000	-3.98186	-0.12500	-1.1786E-6	-0.019526	390.37E-9
8	BS-02	48.39364	67.77065	0.00000	-3.86860	-0.12500	-1.0283E-6	-0.018117	362.22E-9
8	BS-02	48.22081	67.31072	0.00000	-3.75861	-0.12500	-900.59E-9	-0.016847	336.83E-9
8	BS-02	48.04798	66.85078	0.00000	-3.65154	-0.12500	-791.64E-9	-0.015698	313.87E-9
8	BS-02	47.87515	66.39085	0.00000	-3.54710	-0.12500	-698.25E-9	-0.014657	293.06E-9
8	BS-02	47.70232	65.93092	0.00000	-3.44505	-0.12500	-617.89E-9	-0.013710	274.13E-9
8	BS-02	47.52949	65.47098	0.00000	-3.34516	-0.12500	-548.47E-9	-0.012848	256.90E-9
8	BS-02	47.35666	65.01105	0.00000	-3.24726	-0.12500	-488.28E-9	-0.012061	241.16E-9
8	BS-02	47.18383	64.55111	0.00000	-3.15121	-0.12500	-435.91E-9	-0.011340	226.76E-9
8	BS-02	47.01100	64.09118	0.00000	-3.05690	-0.12500	-390.20E-9	-0.010680	213.55E-9
8	BS-02	46.83817	63.63125	0.00000	-2.96423	-0.12500	-350.17E-9	-0.010073	201.42E-9
8	BS-02	46.66534	63.17131	0.00000	-2.87315	-0.12500	-315.01E-9	-0.0095148	190.26E-9
8	BS-02	46.49250	62.71138	0.00000	-2.78361	-0.12500	-284.05E-9	-0.0089999	179.96E-9
8	BS-02	46.31967	62.25145	0.00000	-2.69558	-0.12500	-256.70E-9	-0.0085244	170.46E-9
8	BS-02	46.14684	61.79151	0.00000	-2.60905	-0.12500	-232.49E-9	-0.0080845	161.66E-9
8	BS-02	45.97401	61.33158	0.00000	-2.52403	-0.12500	-210.99E-9	-0.0076768	153.51E-9
8	BS-02	45.80118	60.87164	0.00000	-2.44050	-0.12500	-191.86E-9	-0.0072985	145.95E-9
8	BS-02	45.62835	60.41171	0.00000	-2.35850	-0.12500	-174.79E-9	-0.0069469	138.92E-9
8	BS-02	45.45552	59.95178	0.00000	-2.27805	-0.12500	-159.54E-9	-0.0066196	132.37E-9
8	BS-02	45.28269	59.49184	0.00000	-2.19916	-0.12500	-145.88E-9	-0.0063146	126.27E-9
8	BS-02	45.10986	59.03191	0.00000	-2.12186	-0.12500	-133.61E-9	-0.0060299	120.58E-9
8	BS-02	44.93703	58.57197	0.00000	-2.04618	-0.12500	-122.58E-9	-0.0057639	115.26E-9
8	BS-02	44.76420	58.11204	0.00000	-1.97215	-0.12500	-112.64E-9	-0.0055150	110.29E-9
8	BS-02	44.59137	57.65211	0.00000	-1.89979	-0.12500	-103.66E-9	-0.0052818	105.62E-9
8	BS-02	44.41854	57.19217	0.00000	-1.82912	-0.12500	-95.543E-9	-0.0050630	101.25E-9
8	BS-02	44.24571	56.73224	0.00000	-1.76016	-0.12500	-88.188E-9	-0.0048577	97.143E-9
8	BS-02	44.07288	56.27230	0.00000	-1.69293	-0.12500	-81.514E-9	-0.0046646	93.283E-9
8	BS-02	43.90005	55.81237	0.00000	-1.62743	-0.12500	-75.447E-9	-0.0044829	89.650E-9
8	BS-02	43.72721	55.35244	0.00000	-1.56369	-0.12500	-69.924E-9	-0.0043118	86.228E-9
8	BS-02	43.55438	54.89250	0.00000	-1.50169	-0.12500	-64.888E-9	-0.0041504	83.000E-9
8	BS-02	43.38155	54.43257	0.00000	-1.44145	-0.12500	-60.289E-9	-0.0039981	79.954E-9
8	BS-02	43.20872	53.97264	0.00000	-1.38295	-0.12500	-56.085E-9	-0.0038541	77.076E-9
8	BS-02	43.03589	53.51270	0.00000	-1.32619	-0.12500	-52.235E-9	-0.0037180	74.354E-9
8	BS-02	42.86306	53.05277	0.00000	-1.27116	-0.12500	-48.705E-9	-0.0035891	71.777E-9
8	BS-02	42.69023	52.59283	0.00000	-1.21783	-0.12500	-45.464E-9	-0.0034670	69.335E-9
8	BS-02	42.51740	52.13290	0.00000	-1.16620	-0.12500	-42.485E-9	-0.0033513	67.020E-9
9	BS-03	42.51740	52.13290	0.00000	-1.16620	-0.12500	-42.485E-9	-0.0033513	67.020E-9
9	BS-03	42.34490	52.12415	0.00000	-1.14455	-0.12500	-42.198E-9	-0.0033371	66.736E-9
9	BS-03	42.17240	52.11540	0.00000	-1.12333	-0.12500	-41.909E-9	-0.0033228	66.450E-9
10	BS-04	42.17240	52.11540	0.00000	-1.12333	-0.12500	-41.909E-9	-0.0033228	66.450E-9
10	BS-04	41.96133	51.67676	0.00000	-1.07227	-0.12500	-39.268E-9	-0.0032156	64.308E-9
10	BS-04	41.75025	51.23812	0.00000	-1.02312	-0.12500	-36.828E-9	-0.0031137	62.269E-9
10	BS-04	41.53918	50.79948	0.00000	-0.97583	-0.12500	-34.572E-9	-0.0030166	60.327E-9
10	BS-04	41.32810	50.36083	0.00000	-0.93035	-0.12500	-32.483E-9	-0.0029240	58.477E-9
10	BS-04	41.11702	49.92219	0.00000	-0.88662	-0.12500	-30.548E-9	-0.0028358	56.712E-9
10	BS-04	40.90595	49.48355	0.00000	-0.84459	-0.12500	-28.753E-9	-0.0027515	55.027E-9
10	BS-04	40.69488	49.04491	0.00000	-0.80421	-0.12500	-27.086E-9	-0.0026711	53.419E-9
10	BS-04	40.48380	48.60627	0.00000	-0.76542	-0.12500	-25.536E-9	-0.0025942	51.881E-9
10	BS-04	40.27273	48.16763	0.00000	-0.72816	-0.12500	-24.095E-9	-0.0025207	50.411E-9
10	BS-04	40.06165	47.72898	0.00000	-0.69240	-0.12500	-22.753E-9	-0.0024504	49.005E-9
10	BS-04	39.85057	47.29034	0.00000	-0.65806	-0.12500	-21.503E-9	-0.0023830	47.658E-9
10	BS-04	39.63950	46.85170	0.00000	-0.62511	-0.12500	-20.336E-9	-0.0023185	46.368E-9
11	BS-05	39.63950	46.85170	0.00000	-0.62511	-0.12500	-20.336E-9	-0.0023185	46.368E-9
11	BS-05	39.22713	46.92883	0.00000	-0.60206	-0.12500	-20.232E-9	-0.0023069	46.135E-9
11	BS-05	38.81475	47.00595	0.00000	-0.57975	-0.12500	-20.119E-9	-0.0022948	45.894E-9
11	BS-05	38.40237	47.08308	0.00000	-0.55816	-0.12500	-19.998E-9	-0.0022824	45.646E-9
11	BS-05	37.99000	47.16020	0.00000	-0.53726	-0.12500	-19.868E-9	-0.0022696	45.391E-9
12	BS-06	37.99000	47.16020	0.00000	-0.53726	-0.12500	-19.868E-9	-0.0022696	45.391E-9
12	BS-06	37.62248	47.32718	0.00000	-0.52262	-0.12500	-19.959E-9	-0.0022694	45.385E-9
12	BS-06	37.25495	47.49415	0.00000	-0.50826	-0.12500	-20.042E-9	-0.0022687	45.373E-9
12	BS-06	36.88743	47.66112	0.00000	-0.49420	-0.12500	-20.117E-9	-0.0022678	45.353E-9
12	BS-06	36.51990	47.82810	0.00000	-0.48041	-0.12500	-20.184E-9	-0.0022664	45.325E-9
13	BS-07	36.51990	47.82810	0.00000	-0.48041	-0.12500	-20.184E-9	-0.0022664	45.325E-9
13	BS-07	36.26713	48.12325	0.00000	-0.47665	-0.12500	-20.626E-9	-0.0022864	45.725E-9
13	BS-07	36.01435	48.41840	0.00000	-0.47280	-0.12500	-21.075E-9	-0.0023065	46.128E-9
13	BS-07	35.76158	48.71355	0.00000	-0.46886	-0.12500	-21.530E-9	-0.0023267	46.532E-9
13	BS-07	35.50880	49.00870	0.00000	-0.46484	-0.12500	-21.991E-9	-0.0023470	46.938E-9
13	BS-07	35.25603	49.30385	0.00000	-0.46075	-0.12500	-22.458E-9	-0.0023674	47.345E-9
13	BS-07	35.00325	49.59900	0.00000	-0.45659	-0.12500	-22.929E-9	-0.0023878	47.754E-9
13	BS-07	34.75048	49.89415	0.00000	-0.45237	-0.12500	-23.406E-9	-0.0024083	48.163E-9
13	BS-07	34.49770	50.18930	0.00000	-0.44810	-0.12500	-23.888E-9	-0.0024288	48.573E-9
14	BS-08	34.49770	50.18930	0.00000	-0.44810	-0.12500	-23.888E-9	-0.0024288	48.573E-9
14	BS-08	34.10253	50.37673	0.00000	-0.43412	-0.12500	-23.909E-9	-0.0024248	48.494E-9
14	BS-08	33.70737	50.56417	0.00000	-0.42048	-0.12500	-23.918E-9	-0.0024203	48.404E-9
14	BS-08	33.31220	50.75160	0.00000	-0.40718	-0.12500	-23.913E-9	-0.0024152	48.302E-9
14	BS-08	32.91703	50.93903	0.00000	-0.39421	-0.12500	-23.894E-9	-0.0024096	48.188E-9
14	BS-08	32.52187	51.12647	0.00000	-0.38156	-0.12500	-23.863E-9	-0.0024033	48.063E-9
14	BS-08	32.12670	51.31390	0.00000	-0.36922	-0.12500	-23.817E-9	-0.0023964	47.926E-9
15	BS-09	32.12670	51.31390	0.00000	-0.36922	-0.12500	-23.817E-9	-0.0023964	47.926E-9
15	BS-09	32.31482	51.76587	0.00000	-0.38732	-0.12500	-25.293E-9	-0.0024698	49.394E-9
15	BS-09	32.50295	52.21785	0.00000	-0.40602	-0.12500	-26.882E-9	-0.0025468	50.933E-9
15	BS-09	32.69107	52.66983	0.00000	-0.42532	-0.12500	-28.596E-9	-0.0026276	52.548E-9
15	BS-09	32.87920	53.12180	0.00000	-0.44525	-0.12500	-30.447E-9	-0.0027123	54.243E-9
16	BS-10	32.87920	53.12180	0.00000	-0.44525	-0.12500	-30.447E-9	-0.0027123	54.243E-9
16	BS-10	32.49437	53.25320	0.00000	-0.43009	-0.12500	-30.191E-9	-0.0026963	53.923E-9
16	BS-10	32.10955	53.38460	0.00000	-0.41538	-0.12500	-29.922E-9	-0.0026798	53.592E-9
16	BS-10	31.72472	53.51600	0.00000	-0.40108	-0.12500	-29.639E-9	-0.0026627	53.250E-9
16	BS-10	31.33990	53.64740	0.00000	-0.38719	-0.12500	-29.345E-9	-0.0026451	52.898E-9
17	BS-11	31.33990	53.64740	0.00000	-0.38719	-0.12500	-29.345E-9	-0.0026451	52.898E-9
17	BS-11	31.26590	53.40790	0.00000	-0.37888	-0.12500	-28.440E-9	-0.0026036	52.068E-9
17	BS-11	31.19190	53.16840	0.00000	-0.37068	-0.12500	-27.568E-9	-0.0025630	51.257E-9
18	BS-12	31.19190	53.16840	0.00000	-0.37068	-0.12500	-27.568E-9	-0.0025630	51.257E-9
18	BS-12	30.82340	53.32289	0.00000	-0.35882	-0.12500	-27.386E-9	-0.0025504	51.006E-9
18	BS-12	30.45490	53.47737	0.00000	-0.34726	-0.12500	-27.191E-9	-0.0025373	50.743E-9
18	BS-12	30.08640	53.63186	0.00000	-0.33599	-0.12500	-26.985E-9	-0.0025237	50.471E-9
18	BS-12	29.71790	53.78635	0.00000	-0.32500	-0.12500	-26.767E-9	-0.0025096	50.188E-9
18	BS-12	29.34940	53.94084	0.00000	-0.31429	-0.12500	-26.538E-9	-0.0024949	49.896E-9
18	BS-12	28.98090	54.09533	0.00000	-0.30384	-0.12500	-26.299E-9	-0.0024799	49.594E-9
18	BS-12	28.61240	54.24981	0.00000	-0.29366	-0.12500	-26.050E-9	-0.0024643	49.283E-9
18	BS-12	28.24390	54.40430	0.00000	-0.28373	-0.12500	-25.791E-9	-0.0024483	48.963E-9
19	BS-13	28.24390	54.40430	0.00000	-0.28373	-0.12500	-25.791E-9	-0.0024483	48.963E-9
19	BS-13	28.40681	54.81690	0.00000	-0.29628	-0.12500	-27.237E-9	-0.0025172	50.342E-9
19	BS-13	28.56972	55.22950	0.00000	-0.30918	-0.12500	-28.783E-9	-0.0025892	51.780E-9
19	BS-13	28.73264	55.64210	0.00000	-0.32244	-0.12500	-30.437E-9	-0.0026642	53.281E-9
19	BS-13	28.89555	56.05470	0.00000	-0.33608	-0.12500	-32.209E-9	-0.0027427	54.849E-9
19	BS-13	29.05846	56.46730	0.00000	-0.35010	-0.12500	-34.107E-9	-0.0028246	56.488E-9
19	BS-13	29.22138	56.87990	0.00000	-0.36451	-0.12500	-36.143E-9	-0.0029103	58.202E-9
19	BS-13	29.38429	57.29250	0.00000	-0.37934	-0.12500	-38.328E-9	-0.0030000	59.994E-9
19	BS-13	29.54720	57.70510	0.00000	-0.39458	-0.12500	-40.675E-9	-0.0030938	61.871E-9
20	BS-14	29.54720	57.70510	0.00000	-0.39458	-0.12500	-40.675E-9	-0.0030938	61.871E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
20	BS-14	29.93258	57.54730	0.00000	-0.40831	-0.12500	-41.208E-9	-0.0031187	62.370E-9
20	BS-14	30.31797	57.38950	0.00000	-0.42244	-0.12500	-41.723E-9	-0.0031429	62.853E-9
20	BS-14	30.70335	57.23170	0.00000	-0.43697	-0.12500	-42.218E-9	-0.0031663	63.322E-9
20	BS-14	31.08873	57.07390	0.00000	-0.45190	-0.12500	-42.693E-9	-0.0031890	63.774E-9
20	BS-14	31.47412	56.91610	0.00000	-0.46727	-0.12500	-43.147E-9	-0.0032108	64.210E-9
20	BS-14	31.85950	56.75830	0.00000	-0.48309	-0.12500	-43.578E-9	-0.0032317	64.629E-9
21	BS-15	31.85950	56.75830	0.00000	-0.48309	-0.12500	-43.578E-9	-0.0032317	64.629E-9
21	BS-15	32.03411	57.22651	0.00000	-0.50378	-0.12500	-46.718E-9	-0.0033502	66.999E-9
21	BS-15	32.20873	57.69472	0.00000	-0.52510	-0.12500	-50.137E-9	-0.0034754	69.503E-9
21	BS-15	32.38334	58.16294	0.00000	-0.54709	-0.12500	-53.866E-9	-0.0036078	72.149E-9
21	BS-15	32.55796	58.63115	0.00000	-0.56976	-0.12500	-57.936E-9	-0.0037478	74.948E-9
21	BS-15	32.73257	59.09936	0.00000	-0.59314	-0.12500	-62.386E-9	-0.0038960	77.913E-9
21	BS-15	32.90719	59.56757	0.00000	-0.61726	-0.12500	-67.256E-9	-0.0040531	81.054E-9
21	BS-15	33.08180	60.03578	0.00000	-0.64215	-0.12500	-72.596E-9	-0.0042198	84.387E-9
21	BS-15	33.25642	60.50399	0.00000	-0.66783	-0.12500	-78.456E-9	-0.0043967	87.925E-9
21	BS-15	33.43103	60.97221	0.00000	-0.69435	-0.12500	-84.899E-9	-0.0045848	91.685E-9
21	BS-15	33.60565	61.44042	0.00000	-0.72174	-0.12500	-91.992E-9	-0.0047849	95.686E-9
21	BS-15	33.78026	61.90863	0.00000	-0.75004	-0.12500	-99.813E-9	-0.0049979	99.947E-9
21	BS-15	33.95488	62.37684	0.00000	-0.77930	-0.12500	-108.45E-9	-0.0052251	104.49E-9
21	BS-15	34.12949	62.84505	0.00000	-0.80957	-0.12500	-118.01E-9	-0.0054675	109.34E-9
21	BS-15	34.30411	63.31326	0.00000	-0.84090	-0.12500	-128.60E-9	-0.0057265	114.51E-9
21	BS-15	34.47872	63.78148	0.00000	-0.87334	-0.12500	-140.35E-9	-0.0060036	120.05E-9
21	BS-15	34.65334	64.24969	0.00000	-0.90698	-0.12500	-153.42E-9	-0.0063003	125.99E-9
21	BS-15	34.82795	64.71790	0.00000	-0.94186	-0.12500	-167.99E-9	-0.0066184	132.35E-9
21	BS-15	35.00256	65.18611	0.00000	-0.97808	-0.12500	-184.25E-9	-0.0069598	139.17E-9
21	BS-15	35.17718	65.65432	0.00000	-1.01571	-0.12500	-202.44E-9	-0.0073269	146.51E-9
21	BS-15	35.35179	66.12254	0.00000	-1.05484	-0.12500	-222.83E-9	-0.0077220	154.41E-9
21	BS-15	35.52641	66.59075	0.00000	-1.09557	-0.12500	-245.73E-9	-0.0081478	162.93E-9
21	BS-15	35.70102	67.05896	0.00000	-1.13802	-0.12500	-271.51E-9	-0.0086074	172.12E-9
21	BS-15	35.87564	67.52717	0.00000	-1.18230	-0.12500	-300.61E-9	-0.0091041	182.05E-9
21	BS-15	36.05025	67.99538	0.00000	-1.22854	-0.12500	-333.53E-9	-0.0096418	192.80E-9
21	BS-15	36.22487	68.46359	0.00000	-1.27687	-0.12500	-370.85E-9	-0.010225	204.45E-9
21	BS-15	36.39948	68.93181	0.00000	-1.32745	-0.12500	-413.30E-9	-0.010858	217.11E-9
21	BS-15	36.57410	69.40002	0.00000	-1.38044	-0.12500	-461.68E-9	-0.011546	230.87E-9
21	BS-15	36.74871	69.86823	0.00000	-1.43602	-0.12500	-517.00E-9	-0.012297	245.87E-9
21	BS-15	36.92333	70.33644	0.00000	-1.49438	-0.12500	-580.43E-9	-0.013116	262.24E-9
21	BS-15	37.09794	70.80465	0.00000	-1.55572	-0.12500	-653.39E-9	-0.014011	280.14E-9
21	BS-15	37.27256	71.27286	0.00000	-1.62027	-0.12500	-737.58E-9	-0.014992	299.76E-9
21	BS-15	37.44717	71.74108	0.00000	-1.68825	-0.12500	-835.05E-9	-0.016069	321.29E-9
21	BS-15	37.62179	72.20929	0.00000	-1.75993	-0.12500	-948.29E-9	-0.017254	344.97E-9
21	BS-15	37.79640	72.67750	0.00000	-1.83556	-0.12500	-1.0803E-6	-0.018560	371.08E-9
22	BS-16	37.79640	72.67750	0.00000	-1.83556	-0.12500	-1.0803E-6	-0.018560	371.08E-9
22	BS-16	37.93699	73.15284	0.00000	-1.90983	-0.12500	-1.2287E-6	-0.019947	398.79E-9
22	BS-16	38.07758	73.62818	0.00000	-1.98812	-0.12500	-1.4017E-6	-0.021473	429.30E-9
22	BS-16	38.21817	74.10352	0.00000	-2.07066	-0.12500	-1.6041E-6	-0.023158	462.96E-9
22	BS-16	38.35876	74.57886	0.00000	-2.15770	-0.12500	-1.8417E-6	-0.025019	500.17E-9
22	BS-16	38.49935	75.05420	0.00000	-2.24948	-0.12500	-2.1219E-6	-0.027081	541.37E-9
22	BS-16	38.63994	75.52954	0.00000	-2.34624	-0.12500	-2.4534E-6	-0.029369	587.09E-9
22	BS-16	38.78053	76.00488	0.00000	-2.44819	-0.12500	-2.8473E-6	-0.031913	637.92E-9
22	BS-16	38.92112	76.48022	0.00000	-2.55555	-0.12500	-3.3172E-6	-0.034748	694.55E-9
22	BS-16	39.06171	76.95556	0.00000	-2.66847	-0.12500	-3.8803E-6	-0.037912	757.77E-9
22	BS-16	39.20230	77.43090	0.00000	-2.78710	-0.12500	-4.5580E-6	-0.041452	828.49E-9
23	BS-17	39.20230	77.43090	0.00000	-2.78710	-0.12500	-4.5580E-6	-0.041452	828.49E-9
23	BS-17	38.81835	77.57060	0.00000	-2.70017	-0.12500	-4.2121E-6	-0.039685	793.20E-9
23	BS-17	38.43440	77.71030	0.00000	-2.61432	-0.12500	-3.8857E-6	-0.037957	758.67E-9
24	BS-18	38.43440	77.71030	0.00000	-2.61432	-0.12500	-3.8857E-6	-0.037957	758.67E-9
24	BS-18	38.59959	78.17828	0.00000	-2.73522	-0.12500	-4.5591E-6	-0.041478	829.01E-9
24	BS-18	38.76478	78.64626	0.00000	-2.86204	-0.12500	-5.3710E-6	-0.045418	907.72E-9
24	BS-18	38.92996	79.11424	0.00000	-2.99482	-0.12500	-6.3538E-6	-0.049834	995.92E-9
24	BS-18	39.09515	79.58222	0.00000	-3.13364	-0.12500	-7.5481E-6	-0.054791	1.0949E-6
24	BS-18	39.26034	80.05021	0.00000	-3.27808	-0.12500	-9.0043E-6	-0.060361	1.2061E-6
24	BS-18	39.42552	80.51819	0.00000	-3.42825	-0.12500	-10.785E-6	-0.066625	1.3312E-6
24	BS-18	39.59071	80.98617	0.00000	-3.58377	-0.12500	-12.969E-6	-0.073673	1.4719E-6
24	BS-18	39.75590	81.45415	0.00000	-3.74427	-0.12500	-15.650E-6	-0.081601	1.6301E-6
24	BS-18	39.92109	81.92213	0.00000	-3.90933	-0.12500	-18.942E-6	-0.090510	1.8079E-6
24	BS-18	40.08628	82.39011	0.00000	-4.07849	-0.12500	-22.980E-6	-0.10050	2.0073E-6
24	BS-18	40.25146	82.85809	0.00000	-4.25122	-0.12500	-27.916E-6	-0.11168	2.2302E-6
24	BS-18	40.41665	83.32608	0.00000	-4.42687	-0.12500	-33.921E-6	-0.12412	2.4783E-6
24	BS-18	40.58184	83.79406	0.00000	-4.60447	-0.12500	-41.174E-6	-0.13788	2.7528E-6
24	BS-18	40.74702	84.26204	0.00000	-4.78238	-0.12500	-49.861E-6	-0.15302	3.0543E-6
24	BS-18	40.91221	84.73002	0.00000	-4.95798	-0.12500	-60.171E-6	-0.16951	3.3829E-6
24	BS-18	41.07740	85.19800	0.00000	-5.12752	-0.12500	-72.311E-6	-0.18730	3.7374E-6
25	SB-01	80.55960	128.61410	0.00000	-0.03992	-0.12500	-10.179E-9	-0.0020197	40.392E-9
25	SB-01	80.70318	128.86005	0.00000	-0.03491	-0.12500	-9.9632E-9	-0.0020011	40.020E-9
25	SB-01	80.84675	129.10600	0.00000	-0.03003	-0.12500	-9.7541E-9	-0.0019828	39.655E-9
25	SB-01	80.99032	129.35195	0.00000	-0.02528	-0.12500	-9.5514E-9	-0.0019649	39.296E-9
25	SB-01	81.13390	129.59790	0.00000	-0.02067	-0.12500	-9.3548E-9	-0.0019472	38.943E-9
26	SB-02	81.13390	129.59790	0.00000	-0.02067	-0.12500	-9.3548E-9	-0.0019472	38.943E-9
26	SB-02	81.53432	129.35316	0.00000	-0.02154	-0.12500	-9.4024E-9	-0.0019619	39.237E-9
26	SB-02	81.93475	129.10841	0.00000	-0.02242	-0.12500	-9.4499E-9	-0.0019767	39.533E-9
26	SB-02	82.33517	128.86366	0.00000	-0.02329	-0.12500	-9.4975E-9	-0.0019917	39.833E-9
26	SB-02	82.73560	128.61892	0.00000	-0.02417	-0.12500	-9.5455E-9	-0.0020069	40.137E-9
26	SB-02	83.13602	128.37418	0.00000	-0.02505	-0.12500	-9.5939E-9	-0.0020222	40.444E-9
26	SB-02	83.53645	128.12943	0.00000	-0.02594	-0.12500	-9.6429E-9	-0.0020378	40.755E-9
26	SB-02	83.93688	127.88469	0.00000	-0.02685	-0.12500	-9.6927E-9	-0.0020536	41.070E-9
26	SB-02	84.33730	127.63994	0.00000	-0.02777	-0.12500	-9.7435E-9	-0.0020696	41.390E-9
26	SB-02	84.73772	127.39520	0.00000	-0.02871	-0.12500	-9.7954E-9	-0.0020858	41.715E-9
26	SB-02	85.13815	127.15045	0.00000	-0.02967	-0.12500	-9.8487E-9	-0.0021023	42.045E-9
26	SB-02	85.53857	126.90571	0.00000	-0.03066	-0.12500	-9.9035E-9	-0.0021191	42.381E-9
26	SB-02	85.93900	126.66096	0.00000	-0.03167	-0.12500	-9.9601E-9	-0.0021362	42.722E-9
26	SB-02	86.33942	126.41622	0.00000	-0.03272	-0.12500	-10.019E-9	-0.0021536	43.070E-9
26	SB-02	86.73985	126.17147	0.00000	-0.03381	-0.12500	-10.079E-9	-0.0021713	43.424E-9
26	SB-02	87.14028	125.92673	0.00000	-0.03495	-0.12500	-10.143E-9	-0.0021893	43.786E-9
26	SB-02	87.54070	125.68198	0.00000	-0.03613	-0.12500	-10.209E-9	-0.0022078	44.154E-9
26	SB-02	87.94112	125.43724	0.00000	-0.03736	-0.12500	-10.278E-9	-0.0022266	44.530E-9
26	SB-02	88.34155	125.19249	0.00000	-0.03864	-0.12500	-10.350E-9	-0.0022458	44.915E-9
26	SB-02	88.74197	124.94774	0.00000	-0.03999	-0.12500	-10.425E-9	-0.0022654	45.307E-9
26	SB-02	89.14240	124.70300	0.00000	-0.04141	-0.12500	-10.504E-9	-0.0022855	45.709E-9
27	SB-03	89.14240	124.70300	0.00000	-0.04141	-0.12500	-10.504E-9	-0.0022855	45.709E-9
27	SB-03	88.87339	124.28303	0.00000	-0.04987	-0.12500	-10.810E-9	-0.0023156	46.311E-9
27	SB-03	88.60438	123.86307	0.00000	-0.05870	-0.12500	-11.130E-9	-0.0023464	46.927E-9
27	SB-03	88.33537	123.44310	0.00000	-0.06792	-0.12500	-11.465E-9	-0.0023780	47.559E-9
27	SB-03	88.06636	123.02313	0.00000	-0.07755	-0.12500	-11.816E-9	-0.0024103	48.206E-9
27	SB-03	87.79735	122.60316	0.00000	-0.08760	-0.12500	-12.184E-9	-0.0024435	48.869E-9
27	SB-03	87.52834	122.18320	0.00000	-0.09810	-0.12500	-12.571E-9	-0.0024775	49.549E-9
27	SB-03	87.25933	121.76323	0.00000	-0.10907	-0.12500	-12.977E-9	-0.0025124	50.247E-9
27	SB-03	86.99032	121.34326	0.00000	-0.12052	-0.12500	-13.404E-9	-0.0025483	50.964E-9
27	SB-03	86.72131	120.92329	0.00000	-0.13250	-0.12500	-13.854E-9	-0.0025851	51.701E-9
27	SB-03	86.45230	120.50333	0.00000	-0.14502	-0.12500	-14.327E-9	-0.0026230	52.459E-9
27	SB-03	86.18329	120.08336	0.00000	-0.15811	-0.12500	-14.826E-9	-0.0026620	53.238E-9
27	SB-03	85.91428	119.66339	0.00000	-0.17179	-0.12500	-15.353E-9	-0.0027021	54.041E-9
27	SB-03	85.64527	119.24343	0.00000	-0.18611	-0.12500	-15.909E-9	-0.0027435	54.867E-9
27	SB-03	85.37626	118.82346	0.00000	-0.20110	-0.12500	-16.496E-9	-0.0027861	55.720E-9
27	SB-03	85.10724	118.40349	0.00000	-0.21678	-0.12500	-17.117E-9	-0.0028300	56.599E-9
27	SB-03	84.83823	117.98352	0.00000	-0.23319	-0.12500	-17.775E-9	-0.0028754	57.506E-9
27	SB-03	84.56922	117.56356	0.00000	-0.25039	-0.12500	-18.472E-9	-0.0029223	58.443E-9
27	SB-03	84.30021	117.14359	0.00000	-0.26840	-0.12500	-19.211E-9	-0.0029707	59.411E-9
27	SB-03	84.03120	116.72362	0.00000	-0.28727	-0.12500	-19.995E-9	-0.0030208	60.413E-9
27	SB-03	83.76219	116.30366	0.00000	-0.30705	-0.12500	-20.828E-9	-0.0030726	61.450E-9
27	SB-03	83.49318	115.88369	0.00000	-0.32779	-0.12500	-21.713E-9	-0.0031263	62.523E-9
27	SB-03	83.22417	115.46372	0.00000	-0.34954	-0.12500	-22.655E-9	-0.0031819	63.636E-9
27	SB-03	82.95516	115.04375	0.00000	-0.37236	-0.12500	-23.659E-9	-0.0032397	64.790E-9
27	SB-03	82.68615	114.62379	0.00000	-0.39630	-0.12500	-24.728E-9	-0.0032996	65.988E-9
27	SB-03	82.41714	114.20382	0.00000	-0.42145	-0.12500	-25.869E-9	-0.0033618	67.232E-9
27	SB-03	82.14813	113.78385	0.00000	-0.44785	-0.12500	-27.088E-9	-0.0034264	68.526E-9
27	SB-03	81.87912	113.36388	0.00000	-0.47559	-0.12500	-28.390E-9	-0.0034937	69.871E-9
27	SB-03	81.61011	112.94392	0.00000	-0.50474	-0.12500	-29.782E-9	-0.0035637	71.271E-9
27	SB-03	81.34110	112.52395	0.00000	-0.53538	-0.12500	-31.273E-9	-0.0036366	72.729E-9
27	SB-03	81.07209	112.10398	0.00000	-0.56761	-0.12500	-32.871E-9	-0.0037126	74.249E-9
27	SB-03	80.80308	111.68402	0.00000	-0.60151	-0.12500	-34.584E-9	-0.0037919	75.835E-9
27	SB-03	80.53407	111.26405	0.00000	-0.63718	-0.12500	-36.423E-9	-0.0038747	77.490E-9
27	SB-03	80.26506	110.84408	0.00000	-0.67474	-0.12500	-38.398E-9	-0.0039612	79.219E-9
27	SB-03	79.99605	110.42411	0.00000	-0.71429	-0.12500	-40.522E-9	-0.0040516	81.027E-9
27	SB-03	79.72704	110.00415	0.00000	-0.75595	-0.12500	-42.809E-9	-0.0041462	82.918E-9
27	SB-03	79.45803	109.58418	0.00000	-0.79986	-0.12500	-45.271E-9	-0.0042452	84.898E-9
27	SB-03	79.18902	109.16421	0.00000	-0.84614	-0.12500	-47.927E-9	-0.0043489	86.972E-9
27	SB-03	78.92001	108.74424	0.00000	-0.89495	-0.12500	-50.792E-9	-0.0044576	89.147E-9
27	SB-03	78.65100	108.32428	0.00000	-0.94643	-0.12500	-53.887E-9	-0.0045717	91.428E-9
27	SB-03	78.38199	107.90431	0.00000	-1.00076	-0.12500	-57.233E-9	-0.0046915	93.824E-9
27	SB-03	78.11298	107.48434	0.00000	-1.05810	-0.12500	-60.854E-9	-0.0048174	96.341E-9
27	SB-03	77.84397	107.06438	0.00000	-1.11864	-0.12500	-64.775E-9	-0.0049497	98.987E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
27	SB-03	77.57496	106.64441	0.00000	-1.18257	-0.12500	-69.026E-9	-0.0050890	101.77E-9
27	SB-03	77.30594	106.22444	0.00000	-1.25011	-0.12500	-73.639E-9	-0.0052356	104.70E-9
27	SB-03	77.03693	105.80447	0.00000	-1.32147	-0.12500	-78.649E-9	-0.0053901	107.79E-9
27	SB-03	76.76792	105.38451	0.00000	-1.39688	-0.12500	-84.095E-9	-0.0055529	111.05E-9
27	SB-03	76.49891	104.96454	0.00000	-1.47659	-0.12500	-90.020E-9	-0.0057247	114.48E-9
27	SB-03	76.22990	104.54457	0.00000	-1.56086	-0.12500	-96.474E-9	-0.0059061	118.11E-9
27	SB-03	75.96089	104.12461	0.00000	-1.64994	-0.12500	-103.51E-9	-0.0060978	121.94E-9
27	SB-03	75.69188	103.70464	0.00000	-1.74414	-0.12500	-111.19E-9	-0.0063004	125.99E-9
27	SB-03	75.42287	103.28467	0.00000	-1.84373	-0.12500	-119.57E-9	-0.0065147	130.28E-9
27	SB-03	75.15386	102.86470	0.00000	-1.94902	-0.12500	-128.73E-9	-0.0067415	134.81E-9
27	SB-03	74.88485	102.44474	0.00000	-2.06033	-0.12500	-138.76E-9	-0.0069818	139.62E-9
27	SB-03	74.61584	102.02477	0.00000	-2.17799	-0.12500	-149.74E-9	-0.0072364	144.71E-9
27	SB-03	74.34683	101.60480	0.00000	-2.30233	-0.12500	-161.78E-9	-0.0075064	150.11E-9
27	SB-03	74.07782	101.18483	0.00000	-2.43368	-0.12500	-174.99E-9	-0.0077929	155.84E-9
27	SB-03	73.80881	100.76487	0.00000	-2.57239	-0.12500	-189.49E-9	-0.0080971	161.92E-9
27	SB-03	73.53980	100.34490	0.00000	-2.71881	-0.12500	-205.43E-9	-0.0084202	168.38E-9
28	SB-04	73.53980	100.34490	0.00000	-2.71881	-0.12500	-205.43E-9	-0.0084202	168.38E-9
28	SB-04	73.15931	100.58655	0.00000	-2.76868	-0.12500	-214.34E-9	-0.0085666	171.31E-9
28	SB-04	72.77883	100.82820	0.00000	-2.82087	-0.12500	-223.53E-9	-0.0087155	174.28E-9
28	SB-04	72.39835	101.06985	0.00000	-2.87532	-0.12500	-232.99E-9	-0.0088665	177.30E-9
28	SB-04	72.01786	101.31150	0.00000	-2.93191	-0.12500	-242.71E-9	-0.0090193	180.36E-9
28	SB-04	71.63737	101.55315	0.00000	-2.99048	-0.12500	-252.68E-9	-0.0091733	183.44E-9
28	SB-04	71.25689	101.79480	0.00000	-3.05085	-0.12500	-262.86E-9	-0.0093283	186.53E-9
28	SB-04	70.87641	102.03645	0.00000	-3.11279	-0.12500	-273.25E-9	-0.0094837	189.64E-9
28	SB-04	70.49592	102.27810	0.00000	-3.17603	-0.12500	-283.80E-9	-0.0096390	192.75E-9
28	SB-04	70.11543	102.51975	0.00000	-3.24025	-0.12500	-294.49E-9	-0.0097936	195.84E-9
28	SB-04	69.73495	102.76140	0.00000	-3.30507	-0.12500	-305.28E-9	-0.0099470	198.90E-9
28	SB-04	69.35447	103.00305	0.00000	-3.37007	-0.12500	-316.13E-9	-0.010099	201.93E-9
28	SB-04	68.97398	103.24470	0.00000	-3.43479	-0.12500	-327.00E-9	-0.010248	204.92E-9
28	SB-04	68.59349	103.48635	0.00000	-3.49869	-0.12500	-337.84E-9	-0.010394	207.84E-9
28	SB-04	68.21301	103.72800	0.00000	-3.56121	-0.12500	-348.59E-9	-0.010536	210.68E-9
28	SB-04	67.83253	103.96965	0.00000	-3.62174	-0.12500	-359.20E-9	-0.010674	213.43E-9
28	SB-04	67.45204	104.21130	0.00000	-3.67962	-0.12500	-369.61E-9	-0.010806	216.08E-9
28	SB-04	67.07155	104.45295	0.00000	-3.73418	-0.12500	-379.76E-9	-0.010933	218.61E-9
28	SB-04	66.69107	104.69460	0.00000	-3.78471	-0.12500	-389.58E-9	-0.011053	221.00E-9
28	SB-04	66.31058	104.93625	0.00000	-3.83051	-0.12500	-399.00E-9	-0.011165	223.25E-9
28	SB-04	65.93010	105.17790	0.00000	-3.87089	-0.12500	-407.96E-9	-0.011269	225.34E-9
29	SB-05	65.93010	105.17790	0.00000	-3.87089	-0.12500	-407.96E-9	-0.011269	225.34E-9
29	SB-05	66.18562	105.58103	0.00000	-3.59877	-0.12500	-367.14E-9	-0.010664	213.24E-9
29	SB-05	66.44114	105.98417	0.00000	-3.34836	-0.12500	-331.18E-9	-0.010107	202.09E-9
29	SB-05	66.69667	106.38730	0.00000	-3.11778	-0.12500	-299.42E-9	-0.0095921	191.81E-9
29	SB-05	66.95219	106.79044	0.00000	-2.90531	-0.12500	-271.29E-9	-0.0091164	182.30E-9
29	SB-05	67.20771	107.19357	0.00000	-2.70935	-0.12500	-246.32E-9	-0.0086761	173.49E-9
29	SB-05	67.46323	107.59671	0.00000	-2.52848	-0.12500	-224.10E-9	-0.0082678	165.33E-9
29	SB-05	67.71875	107.99984	0.00000	-2.36137	-0.12500	-204.28E-9	-0.0078888	157.75E-9
29	SB-05	67.97428	108.40297	0.00000	-2.20681	-0.12500	-186.57E-9	-0.0075363	150.70E-9
29	SB-05	68.22980	108.80611	0.00000	-2.06373	-0.12500	-170.70E-9	-0.0072081	144.14E-9
29	SB-05	68.48532	109.20924	0.00000	-1.93143	-0.12500	-156.46E-9	-0.0069022	138.03E-9
29	SB-05	68.74084	109.61238	0.00000	-1.80811	-0.12500	-143.66E-9	-0.0066166	132.32E-9
29	SB-05	68.99636	110.01551	0.00000	-1.69386	-0.12500	-132.12E-9	-0.0063497	126.98E-9
29	SB-05	69.25188	110.41865	0.00000	-1.58764	-0.12500	-121.71E-9	-0.0061000	121.99E-9
29	SB-05	69.50741	110.82178	0.00000	-1.48877	-0.12500	-112.29E-9	-0.0058660	117.31E-9
29	SB-05	69.76293	111.22492	0.00000	-1.39667	-0.12500	-103.76E-9	-0.0056466	112.92E-9
29	SB-05	70.01845	111.62805	0.00000	-1.31076	-0.12500	-96.028E-9	-0.0054406	108.80E-9
29	SB-05	70.27397	112.03118	0.00000	-1.23055	-0.12500	-88.997E-9	-0.0052470	104.93E-9
29	SB-05	70.52949	112.43432	0.00000	-1.15560	-0.12500	-82.599E-9	-0.0050648	101.29E-9
29	SB-05	70.78502	112.83745	0.00000	-1.08548	-0.12500	-76.767E-9	-0.0048932	97.855E-9
29	SB-05	71.04054	113.24059	0.00000	-1.01982	-0.12500	-71.443E-9	-0.0047314	94.620E-9
29	SB-05	71.29606	113.64372	0.00000	-0.95829	-0.12500	-66.577E-9	-0.0045787	91.567E-9
29	SB-05	71.55158	114.04686	0.00000	-0.90056	-0.12500	-62.122E-9	-0.0044345	88.683E-9
29	SB-05	71.80710	114.44999	0.00000	-0.84636	-0.12500	-58.039E-9	-0.0042982	85.956E-9
29	SB-05	72.06262	114.85312	0.00000	-0.79543	-0.12500	-54.292E-9	-0.0041691	83.376E-9
29	SB-05	72.31815	115.25626	0.00000	-0.74753	-0.12500	-50.848E-9	-0.0040469	80.932E-9
29	SB-05	72.57367	115.65939	0.00000	-0.70244	-0.12500	-47.680E-9	-0.0039310	78.614E-9
29	SB-05	72.82919	116.06253	0.00000	-0.65997	-0.12500	-44.761E-9	-0.0038210	76.415E-9
29	SB-05	73.08471	116.46566	0.00000	-0.61993	-0.12500	-42.068E-9	-0.0037166	74.327E-9
29	SB-05	73.34023	116.86880	0.00000	-0.58216	-0.12500	-39.583E-9	-0.0036173	72.342E-9
29	SB-05	73.59576	117.27193	0.00000	-0.54650	-0.12500	-37.285E-9	-0.0035229	70.454E-9
29	SB-05	73.85128	117.67507	0.00000	-0.51282	-0.12500	-35.158E-9	-0.0034330	68.656E-9
29	SB-05	74.10680	118.07820	0.00000	-0.48098	-0.12500	-33.188E-9	-0.0033474	66.943E-9
30	SB-06	74.10680	118.07820	0.00000	-0.48098	-0.12500	-33.188E-9	-0.0033474	66.943E-9
30	SB-06	73.71623	118.27067	0.00000	-0.48216	-0.12500	-33.478E-9	-0.0033454	66.904E-9
30	SB-06	73.32565	118.46315	0.00000	-0.48312	-0.12500	-33.757E-9	-0.0033431	66.858E-9
30	SB-06	72.93508	118.65563	0.00000	-0.48386	-0.12500	-34.025E-9	-0.0033405	66.805E-9
30	SB-06	72.54450	118.84810	0.00000	-0.48436	-0.12500	-34.279E-9	-0.0033374	66.745E-9
30	SB-06	72.15393	119.04057	0.00000	-0.48461	-0.12500	-34.520E-9	-0.0033340	66.676E-9
30	SB-06	71.76335	119.23305	0.00000	-0.48460	-0.12500	-34.746E-9	-0.0033301	66.598E-9
30	SB-06	71.37278	119.42552	0.00000	-0.48432	-0.12500	-34.956E-9	-0.0033257	66.510E-9
30	SB-06	70.98220	119.61800	0.00000	-0.48376	-0.12500	-35.150E-9	-0.0033208	66.412E-9
31	SB-07	70.98220	119.61800	0.00000	-0.48376	-0.12500	-35.150E-9	-0.0033208	66.412E-9
31	SB-07	70.83282	119.26970	0.00000	-0.50974	-0.12500	-36.856E-9	-0.0033940	67.876E-9
31	SB-07	70.68345	118.92140	0.00000	-0.53693	-0.12500	-38.670E-9	-0.0034700	69.396E-9
31	SB-07	70.53408	118.57310	0.00000	-0.56540	-0.12500	-40.598E-9	-0.0035490	70.976E-9
31	SB-07	70.38470	118.22480	0.00000	-0.59523	-0.12500	-42.650E-9	-0.0036312	72.618E-9
32	SB-08	70.38470	118.22480	0.00000	-0.59523	-0.12500	-42.650E-9	-0.0036312	72.618E-9
32	SB-08	69.95028	118.45410	0.00000	-0.59337	-0.12500	-42.868E-9	-0.0036244	72.483E-9
32	SB-08	69.51585	118.68340	0.00000	-0.59103	-0.12500	-43.053E-9	-0.0036166	72.327E-9
32	SB-08	69.08143	118.91271	0.00000	-0.58819	-0.12500	-43.204E-9	-0.0036078	72.151E-9
32	SB-08	68.64701	119.14201	0.00000	-0.58485	-0.12500	-43.321E-9	-0.0035979	71.953E-9
32	SB-08	68.21258	119.37131	0.00000	-0.58101	-0.12500	-43.401E-9	-0.0035870	71.734E-9
32	SB-08	67.77816	119.60061	0.00000	-0.57667	-0.12500	-43.444E-9	-0.0035749	71.492E-9
32	SB-08	67.34374	119.82991	0.00000	-0.57183	-0.12500	-43.450E-9	-0.0035616	71.227E-9
32	SB-08	66.90931	120.05921	0.00000	-0.56649	-0.12500	-43.419E-9	-0.0035472	70.940E-9
32	SB-08	66.47489	120.28852	0.00000	-0.56068	-0.12500	-43.349E-9	-0.0035317	70.628E-9
32	SB-08	66.04047	120.51782	0.00000	-0.55439	-0.12500	-43.242E-9	-0.0035149	70.294E-9
32	SB-08	65.60604	120.74712	0.00000	-0.54764	-0.12500	-43.097E-9	-0.0034970	69.935E-9
32	SB-08	65.17162	120.97642	0.00000	-0.54045	-0.12500	-42.913E-9	-0.0034779	69.553E-9
32	SB-08	64.73720	121.20572	0.00000	-0.53283	-0.12500	-42.693E-9	-0.0034576	69.147E-9
32	SB-08	64.30277	121.43502	0.00000	-0.52480	-0.12500	-42.436E-9	-0.0034362	68.719E-9
32	SB-08	63.86835	121.66433	0.00000	-0.51639	-0.12500	-42.143E-9	-0.0034136	68.267E-9
32	SB-08	63.43393	121.89363	0.00000	-0.50761	-0.12500	-41.815E-9	-0.0033899	67.792E-9
32	SB-08	62.99950	122.12293	0.00000	-0.49848	-0.12500	-41.452E-9	-0.0033650	67.296E-9
32	SB-08	62.56508	122.35223	0.00000	-0.48904	-0.12500	-41.057E-9	-0.0033391	66.778E-9
32	SB-08	62.13066	122.58153	0.00000	-0.47931	-0.12500	-40.630E-9	-0.0033122	66.239E-9
32	SB-08	61.69623	122.81083	0.00000	-0.46932	-0.12500	-40.173E-9	-0.0032842	65.679E-9
32	SB-08	61.26181	123.04014	0.00000	-0.45908	-0.12500	-39.687E-9	-0.0032552	65.100E-9
32	SB-08	60.82739	123.26944	0.00000	-0.44863	-0.12500	-39.174E-9	-0.0032253	64.502E-9
32	SB-08	60.39296	123.49874	0.00000	-0.43800	-0.12500	-38.636E-9	-0.0031945	63.886E-9
32	SB-08	59.95854	123.72804	0.00000	-0.42720	-0.12500	-38.073E-9	-0.0031629	63.253E-9
32	SB-08	59.52412	123.95734	0.00000	-0.41627	-0.12500	-37.489E-9	-0.0031304	62.603E-9
32	SB-08	59.08969	124.18664	0.00000	-0.40524	-0.12500	-36.884E-9	-0.0030972	61.939E-9
32	SB-08	58.65527	124.41595	0.00000	-0.39411	-0.12500	-36.261E-9	-0.0030632	61.260E-9
32	SB-08	58.22085	124.64525	0.00000	-0.38293	-0.12500	-35.621E-9	-0.0030286	60.568E-9
32	SB-08	57.78642	124.87455	0.00000	-0.37171	-0.12500	-34.966E-9	-0.0029934	59.863E-9
32	SB-08	57.35200	125.10385	0.00000	-0.36048	-0.12500	-34.299E-9	-0.0029576	59.147E-9
32	SB-08	56.91758	125.33315	0.00000	-0.34925	-0.12500	-33.620E-9	-0.0029213	58.422E-9
32	SB-08	56.48315	125.56245	0.00000	-0.33805	-0.12500	-32.932E-9	-0.0028845	57.686E-9
32	SB-08	56.04873	125.79175	0.00000	-0.32689	-0.12500	-32.236E-9	-0.0028474	56.943E-9
32	SB-08	55.61431	126.02106	0.00000	-0.31580	-0.12500	-31.534E-9	-0.0028098	56.193E-9
32	SB-08	55.17988	126.25036	0.00000	-0.30478	-0.12500	-30.828E-9	-0.0027720	55.436E-9
32	SB-08	54.74546	126.47966	0.00000	-0.29386	-0.12500	-30.119E-9	-0.0027339	54.675E-9
32	SB-08	54.31104	126.70896	0.00000	-0.28306	-0.12500	-29.409E-9	-0.0026956	53.909E-9
32	SB-08	53.87661	126.93826	0.00000	-0.27237	-0.12500	-28.699E-9	-0.0026572	53.140E-9
32	SB-08	53.44219	127.16756	0.00000	-0.26182	-0.12500	-27.990E-9	-0.0026186	52.369E-9
32	SB-08	53.00777	127.39687	0.00000	-0.25141	-0.12500	-27.284E-9	-0.0025800	51.596E-9
32	SB-08	52.57334	127.62617	0.00000	-0.24116	-0.12500	-26.583E-9	-0.0025413	50.823E-9
32	SB-08	52.13892	127.85547	0.00000	-0.23107	-0.12500	-25.886E-9	-0.0025026	50.050E-9
32	SB-08	51.70450	128.08477	0.00000	-0.22116	-0.12500	-25.195E-9	-0.0024641	49.278E-9
32	SB-08	51.27007	128.31407	0.00000	-0.21142	-0.12500	-24.512E-9	-0.0024256	48.508E-9
32	SB-08	50.83565	128.54337	0.00000	-0.20187	-0.12500	-23.837E-9	-0.0023872	47.741E-9
32	SB-08	50.40123	128.77268	0.00000	-0.19251	-0.12500	-23.170E-9	-0.0023490	46.977E-9
32	SB-08	49.96680	129.00198	0.00000	-0.18334	-0.12500	-22.513E-9	-0.0023110	46.217E-9
32	SB-08	49.53238	129.23128	0.00000	-0.17437	-0.12500	-21.866E-9	-0.0022732	45.461E-9
32	SB-08	49.09796	129.46058	0.00000	-0.16560	-0.12500	-21.230E-9	-0.0022357	44.711E-9
32	SB-08	48.66353	129.68988	0.00000	-0.15703	-0.12500	-20.606E-9	-0.0021984	43.966E-9
32	SB-08	48.22911	129.91918	0.00000	-0.14867	-0.12500	-19.993E-9	-0.0021615	43.227E-9
32	SB-08	47.79469	130.14849	0.00000	-0.14051	-0.12500	-19.392E-9	-0.0021249	42.495E-9
32	SB-08	47.36026	130.37779	0.00000	-0.13256	-0.12500	-18.804E-9	-0.0020886	41.770E-9
32	SB-08	46.92584	130.60709	0.00000	-0.12481	-0.12500	-18.228E-9	-0.0020528	41.053E-9
32	SB-08	46.49142	130.83639	0.00000	-0.11727	-0.12500	-17.666E-9	-0.0020173	40.343E-9
32	SB-08	46.05699	131.06569	0.00000	-0.10993	-0.12500	-17.116E-9	-0.0019822	39.642E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
32	SB-08	45.62257	131.29500	0.00000	-0.10280	-0.12500	-16.580E-9	-0.0019475	38.949E-9
32	SB-08	45.18815	131.52430	0.00000	-0.09586	-0.12500	-16.057E-9	-0.0019133	38.265E-9
32	SB-08	44.75372	131.75360	0.00000	-0.08913	-0.12500	-15.548E-9	-0.0018796	37.589E-9
32	SB-08	44.31930	131.98290	0.00000	-0.08259	-0.12500	-15.052E-9	-0.0018463	36.923E-9
33	SB-09	44.31930	131.98290	0.00000	-0.08259	-0.12500	-15.052E-9	-0.0018463	36.923E-9
33	SB-09	44.54866	132.42340	0.00000	-0.07537	-0.12500	-14.394E-9	-0.0018072	36.142E-9
33	SB-09	44.77801	132.86390	0.00000	-0.06836	-0.12500	-13.769E-9	-0.0017693	35.385E-9
33	SB-09	45.00737	133.30440	0.00000	-0.06158	-0.12500	-13.176E-9	-0.0017326	34.651E-9
33	SB-09	45.23672	133.74490	0.00000	-0.05501	-0.12500	-12.611E-9	-0.0016971	33.940E-9
33	SB-09	45.46608	134.18540	0.00000	-0.04866	-0.12500	-12.075E-9	-0.0016626	33.250E-9
33	SB-09	45.69544	134.62590	0.00000	-0.04250	-0.12500	-11.565E-9	-0.0016292	32.582E-9
33	SB-09	45.92479	135.06640	0.00000	-0.03655	-0.12500	-11.081E-9	-0.0015968	31.934E-9
33	SB-09	46.15415	135.50690	0.00000	-0.03080	-0.12500	-10.620E-9	-0.0015653	31.305E-9
33	SB-09	46.38351	135.94740	0.00000	-0.02524	-0.12500	-10.181E-9	-0.0015348	30.695E-9
33	SB-09	46.61286	136.38790	0.00000	-0.01986	-0.12500	-9.7640E-9	-0.0015052	30.104E-9
33	SB-09	46.84222	136.82840	0.00000	-0.01467	-0.12500	-9.3670E-9	-0.0014765	29.530E-9
33	SB-09	47.07158	137.26890	0.00000	-0.00966	-0.12500	-8.9891E-9	-0.0014487	28.973E-9
33	SB-09	47.30093	137.70940	0.00000	-0.00482	-0.12500	-8.6292E-9	-0.0014217	28.432E-9
33	SB-09	47.53029	138.14990	0.00000	-0.00015	-0.12500	-8.2866E-9	-0.0013954	27.908E-9
33	SB-09	47.75964	138.59040	0.00000	0.00435	-0.12500	-7.9602E-9	-0.0013700	27.398E-9
33	SB-09	47.98900	139.03090	0.00000	0.00870	-0.12500	-7.6492E-9	-0.0013452	26.904E-9
33	SB-09	48.21836	139.47140	0.00000	0.01289	-0.12500	-7.3529E-9	-0.0013212	26.423E-9
33	SB-09	48.44771	139.91190	0.00000	0.01693	-0.12500	-7.0704E-9	-0.0012979	25.956E-9
33	SB-09	48.67707	140.35240	0.00000	0.02082	-0.12500	-6.8010E-9	-0.0012752	25.503E-9
33	SB-09	48.90642	140.79290	0.00000	0.02457	-0.12500	-6.5442E-9	-0.0012532	25.062E-9
33	SB-09	49.13578	141.23340	0.00000	0.02818	-0.12500	-6.2991E-9	-0.0012317	24.634E-9
33	SB-09	49.36514	141.67390	0.00000	0.03165	-0.12500	-6.0652E-9	-0.0012109	24.218E-9
33	SB-09	49.59449	142.11440	0.00000	0.03500	-0.12500	-5.8420E-9	-0.0011907	23.813E-9
33	SB-09	49.82385	142.55490	0.00000	0.03822	-0.12500	-5.6289E-9	-0.0011710	23.419E-9
33	SB-09	50.05321	142.99540	0.00000	0.04131	-0.12500	-5.4254E-9	-0.0011518	23.036E-9
33	SB-09	50.28256	143.43590	0.00000	0.04429	-0.12500	-5.2310E-9	-0.0011332	22.663E-9
33	SB-09	50.51192	143.87640	0.00000	0.04715	-0.12500	-5.0452E-9	-0.0011151	22.301E-9
33	SB-09	50.74128	144.31690	0.00000	0.04990	-0.12500	-4.8677E-9	-0.0010974	21.948E-9
33	SB-09	50.97063	144.75740	0.00000	0.05254	-0.12500	-4.6979E-9	-0.0010802	21.604E-9
33	SB-09	51.19999	145.19790	0.00000	0.05507	-0.12500	-4.5356E-9	-0.0010635	21.269E-9
33	SB-09	51.42934	145.63840	0.00000	0.05751	-0.12500	-4.3803E-9	-0.0010472	20.943E-9
33	SB-09	51.65870	146.07890	0.00000	0.05984	-0.12500	-4.2317E-9	-0.0010313	20.626E-9
34	SB-10	51.65870	146.07890	0.00000	0.05984	-0.12500	-4.2317E-9	-0.0010313	20.626E-9
34	SB-10	52.05637	145.84480	0.00000	0.05881	-0.12500	-4.3147E-9	-0.0010433	20.865E-9
34	SB-10	52.45404	145.61070	0.00000	0.05776	-0.12500	-4.3988E-9	-0.0010553	21.106E-9
34	SB-10	52.85171	145.37660	0.00000	0.05668	-0.12500	-4.4838E-9	-0.0010675	21.349E-9
34	SB-10	53.24938	145.14250	0.00000	0.05558	-0.12500	-4.5698E-9	-0.0010797	21.593E-9
34	SB-10	53.64705	144.90840	0.00000	0.05445	-0.12500	-4.6568E-9	-0.0010920	21.840E-9
34	SB-10	54.04472	144.67430	0.00000	0.05329	-0.12500	-4.7446E-9	-0.0011044	22.088E-9
34	SB-10	54.44239	144.44020	0.00000	0.05212	-0.12500	-4.8333E-9	-0.0011169	22.337E-9
34	SB-10	54.84006	144.20610	0.00000	0.05091	-0.12500	-4.9229E-9	-0.0011294	22.588E-9
34	SB-10	55.23773	143.97200	0.00000	0.04969	-0.12500	-5.0132E-9	-0.0011421	22.841E-9
34	SB-10	55.63540	143.73790	0.00000	0.04844	-0.12500	-5.1043E-9	-0.0011548	23.095E-9
34	SB-10	56.03307	143.50380	0.00000	0.04717	-0.12500	-5.1961E-9	-0.0011676	23.350E-9
34	SB-10	56.43074	143.26970	0.00000	0.04587	-0.12500	-5.2886E-9	-0.0011804	23.607E-9
34	SB-10	56.82841	143.03560	0.00000	0.04456	-0.12500	-5.3817E-9	-0.0011933	23.865E-9
34	SB-10	57.22608	142.80150	0.00000	0.04322	-0.12500	-5.4753E-9	-0.0012063	24.124E-9
34	SB-10	57.62375	142.56740	0.00000	0.04187	-0.12500	-5.5695E-9	-0.0012193	24.385E-9
34	SB-10	58.02142	142.33330	0.00000	0.04049	-0.12500	-5.6642E-9	-0.0012324	24.646E-9
34	SB-10	58.41909	142.09920	0.00000	0.03910	-0.12500	-5.7592E-9	-0.0012455	24.909E-9
34	SB-10	58.81676	141.86510	0.00000	0.03768	-0.12500	-5.8546E-9	-0.0012587	25.172E-9
34	SB-10	59.21443	141.63100	0.00000	0.03626	-0.12500	-5.9503E-9	-0.0012719	25.437E-9
34	SB-10	59.61210	141.39690	0.00000	0.03481	-0.12500	-6.0462E-9	-0.0012851	25.702E-9
35	SB-11	59.61210	141.39690	0.00000	0.03481	-0.12500	-6.0462E-9	-0.0012851	25.702E-9
35	SB-11	60.04295	141.17306	0.00000	0.03349	-0.12500	-6.1350E-9	-0.0012980	25.959E-9
35	SB-11	60.47379	140.94923	0.00000	0.03217	-0.12500	-6.2234E-9	-0.0013109	26.216E-9
35	SB-11	60.90464	140.72539	0.00000	0.03084	-0.12500	-6.3113E-9	-0.0013237	26.474E-9
35	SB-11	61.33549	140.50155	0.00000	0.02951	-0.12500	-6.3986E-9	-0.0013366	26.731E-9
35	SB-11	61.76634	140.27772	0.00000	0.02818	-0.12500	-6.4853E-9	-0.0013494	26.988E-9
35	SB-11	62.19718	140.05388	0.00000	0.02685	-0.12500	-6.5713E-9	-0.0013623	27.244E-9
35	SB-11	62.62803	139.83004	0.00000	0.02553	-0.12500	-6.6565E-9	-0.0013751	27.501E-9
35	SB-11	63.05888	139.60621	0.00000	0.02421	-0.12500	-6.7408E-9	-0.0013879	27.757E-9
35	SB-11	63.48973	139.38237	0.00000	0.02290	-0.12500	-6.8243E-9	-0.0014007	28.013E-9
35	SB-11	63.92057	139.15853	0.00000	0.02159	-0.12500	-6.9066E-9	-0.0014135	28.268E-9
35	SB-11	64.35142	138.93469	0.00000	0.02030	-0.12500	-6.9879E-9	-0.0014262	28.523E-9
35	SB-11	64.78227	138.71086	0.00000	0.01901	-0.12500	-7.0681E-9	-0.0014389	28.778E-9
35	SB-11	65.21312	138.48702	0.00000	0.01774	-0.12500	-7.1470E-9	-0.0014516	29.031E-9
35	SB-11	65.64396	138.26318	0.00000	0.01648	-0.12500	-7.2246E-9	-0.0014643	29.284E-9
35	SB-11	66.07481	138.03935	0.00000	0.01524	-0.12500	-7.3009E-9	-0.0014769	29.537E-9
35	SB-11	66.50566	137.81551	0.00000	0.01401	-0.12500	-7.3757E-9	-0.0014895	29.788E-9
35	SB-11	66.93651	137.59167	0.00000	0.01280	-0.12500	-7.4491E-9	-0.0015020	30.039E-9
35	SB-11	67.36735	137.36784	0.00000	0.01162	-0.12500	-7.5209E-9	-0.0015145	30.290E-9
35	SB-11	67.79820	137.14400	0.00000	0.01045	-0.12500	-7.5912E-9	-0.0015270	30.539E-9
35	SB-11	68.22905	136.92016	0.00000	0.00931	-0.12500	-7.6598E-9	-0.0015394	30.787E-9
35	SB-11	68.65989	136.69633	0.00000	0.00819	-0.12500	-7.7268E-9	-0.0015518	31.035E-9
35	SB-11	69.09074	136.47249	0.00000	0.00709	-0.12500	-7.7920E-9	-0.0015642	31.282E-9
35	SB-11	69.52159	136.24865	0.00000	0.00602	-0.12500	-7.8556E-9	-0.0015765	31.528E-9
35	SB-11	69.95244	136.02482	0.00000	0.00498	-0.12500	-7.9173E-9	-0.0015887	31.774E-9
35	SB-11	70.38328	135.80098	0.00000	0.00397	-0.12500	-7.9773E-9	-0.0016010	32.018E-9
35	SB-11	70.81413	135.57714	0.00000	0.00298	-0.12500	-8.0355E-9	-0.0016131	32.262E-9
35	SB-11	71.24498	135.35331	0.00000	0.00203	-0.12500	-8.0919E-9	-0.0016253	32.505E-9
35	SB-11	71.67583	135.12947	0.00000	0.00110	-0.12500	-8.1465E-9	-0.0016374	32.748E-9
35	SB-11	72.10667	134.90563	0.00000	0.00021	-0.12500	-8.1993E-9	-0.0016495	32.990E-9
35	SB-11	72.53752	134.68179	0.00000	-0.00065	-0.12500	-8.2503E-9	-0.0016616	33.231E-9
35	SB-11	72.96837	134.45796	0.00000	-0.00148	-0.12500	-8.2995E-9	-0.0016736	33.472E-9
35	SB-11	73.39922	134.23412	0.00000	-0.00228	-0.12500	-8.3470E-9	-0.0016857	33.712E-9
35	SB-11	73.83006	134.01028	0.00000	-0.00305	-0.12500	-8.3928E-9	-0.0016977	33.953E-9
35	SB-11	74.26091	133.78645	0.00000	-0.00378	-0.12500	-8.4369E-9	-0.0017097	34.193E-9
35	SB-11	74.69176	133.56261	0.00000	-0.00449	-0.12500	-8.4793E-9	-0.0017217	34.433E-9
35	SB-11	75.12261	133.33877	0.00000	-0.00516	-0.12500	-8.5203E-9	-0.0017337	34.673E-9
35	SB-11	75.55345	133.11494	0.00000	-0.00580	-0.12500	-8.5596E-9	-0.0017457	34.913E-9
35	SB-11	75.98430	132.89110	0.00000	-0.00642	-0.12500	-8.5976E-9	-0.0017577	35.154E-9
36	SB-12	75.98430	132.89110	0.00000	-0.00642	-0.12500	-8.5976E-9	-0.0017577	35.154E-9
36	SB-12	76.21543	132.72207	0.00000	-0.00740	-0.12500	-8.6486E-9	-0.0017674	35.347E-9
36	SB-12	76.44655	132.55305	0.00000	-0.00837	-0.12500	-8.6992E-9	-0.0017771	35.540E-9
36	SB-12	76.67767	132.38403	0.00000	-0.00935	-0.12500	-8.7494E-9	-0.0017867	35.734E-9
36	SB-12	76.90880	132.21500	0.00000	-0.01032	-0.12500	-8.7994E-9	-0.0017965	35.928E-9
37	SB-13	76.90880	132.21500	0.00000	-0.01032	-0.12500	-8.7994E-9	-0.0017965	35.928E-9
37	SB-13	76.76538	131.93155	0.00000	-0.01518	-0.12500	-9.0221E-9	-0.0018162	36.323E-9
37	SB-13	76.62195	131.64810	0.00000	-0.02019	-0.12500	-9.2528E-9	-0.0018364	36.727E-9
37	SB-13	76.47853	131.36465	0.00000	-0.02536	-0.12500	-9.4919E-9	-0.0018570	37.138E-9
37	SB-13	76.33510	131.08120	0.00000	-0.03070	-0.12500	-9.7398E-9	-0.0018780	37.559E-9
38	SB-14	76.33510	131.08120	0.00000	-0.03070	-0.12500	-9.7398E-9	-0.0018780	37.559E-9
38	SB-14	76.75755	130.83449	0.00000	-0.03174	-0.12500	-9.7899E-9	-0.0018919	37.837E-9
38	SB-14	77.18000	130.58778	0.00000	-0.03275	-0.12500	-9.8383E-9	-0.0019058	38.116E-9
38	SB-14	77.60245	130.34107	0.00000	-0.03373	-0.12500	-9.8852E-9	-0.0019198	38.395E-9
38	SB-14	78.02490	130.09436	0.00000	-0.03468	-0.12500	-9.9306E-9	-0.0019338	38.676E-9
38	SB-14	78.44735	129.84765	0.00000	-0.03561	-0.12500	-9.9745E-9	-0.0019479	38.957E-9
38	SB-14	78.86980	129.60094	0.00000	-0.03651	-0.12500	-10.017E-9	-0.0019621	39.240E-9
38	SB-14	79.29225	129.35423	0.00000	-0.03739	-0.12500	-10.059E-9	-0.0019763	39.525E-9
38	SB-14	79.71470	129.10752	0.00000	-0.03825	-0.12500	-10.100E-9	-0.0019907	39.812E-9
38	SB-14	80.13715	128.86081	0.00000	-0.03909	-0.12500	-10.140E-9	-0.0020051	40.101E-9
38	SB-14	80.55960	128.61410	0.00000	-0.03992	-0.12500	-10.179E-9	-0.0020197	40.392E-9
39	HL-01	50.98220	128.46600	0.00000	-0.20507	-0.12500	-24.064E-9	-0.0024001	47.999E-9
39	HL-01	50.76237	128.03676	0.00000	-0.21905	-0.12500	-25.384E-9	-0.0024631	49.259E-9
39	HL-01	50.54254	127.60752	0.00000	-0.23358	-0.12500	-26.793E-9	-0.0025287	50.570E-9
39	HL-01	50.32271	127.17828	0.00000	-0.24871	-0.12500	-28.295E-9	-0.0025969	51.936E-9
39	HL-01	50.10287	126.74904	0.00000	-0.26443	-0.12500	-29.899E-9	-0.0026681	53.359E-9
39	HL-01	49.88304	126.31980	0.00000	-0.28079	-0.12500	-31.612E-9	-0.0027423	54.842E-9
39	HL-01	49.66321	125.89056	0.00000	-0.29779	-0.12500	-33.442E-9	-0.0028196	56.388E-9
39	HL-01	49.44338	125.46132	0.00000	-0.31546	-0.12500	-35.399E-9	-0.0029002	58.001E-9
39	HL-01	49.22355	125.03208	0.00000	-0.33382	-0.12500	-37.492E-9	-0.0029844	59.683E-9
39	HL-01	49.00372	124.60283	0.00000	-0.35289	-0.12500	-39.731E-9	-0.0030722	61.439E-9
39	HL-01	48.78389	124.17359	0.00000	-0.37269	-0.12500	-42.129E-9	-0.0031638	63.272E-9
39	HL-01	48.56406	123.74435	0.00000	-0.39324	-0.12500	-44.697E-9	-0.0032596	65.186E-9
39	HL-01	48.34423	123.31511	0.00000	-0.41457	-0.12500	-47.449E-9	-0.0033595	67.185E-9
39	HL-01	48.12439	122.88587	0.00000	-0.43669	-0.12500	-50.401E-9	-0.0034640	69.274E-9
39	HL-01	47.90456	122.45663	0.00000	-0.45962	-0.12500	-53.566E-9	-0.0035732	71.457E-9
39	HL-01	47.68473	122.02739	0.00000	-0.48338	-0.12500	-56.964E-9	-0.0036873	73.739E-9
39	HL-01	47.46490	121.59815	0.00000	-0.50799	-0.12500	-60.612E-9	-0.0038066	76.125E-9
39	HL-01	47.24507	121.16891	0.00000	-0.53347	-0.12500	-64.530E-9	-0.0039314	78.620E-9
39	HL-01	47.02524	120.73967	0.00000	-0.55982	-0.12500	-68.741E-9	-0.0040620	81.231E-9
39	HL-01	46.80541	120.31043	0.00000	-0.58707	-0.12500	-73.268E-9	-0.0041986	83.962E-9
39	HL-01	46.58557	119.88119	0.00000	-0.61521	-0.12500	-78.136E-9	-0.0043415	86.821E-9
39	HL-01	46.36574	119.45195	0.00000	-0.64427	-0.12500	-83.374E-9	-0.0044911	89.813E-9
39	HL-01	46.14591	119.02271	0.00000	-0.67424	-0.12500	-89.011E-9	-0.0046478	92.945E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
39	HL-01	45.92608	118.59347	0.00000	-0.70513	-0.12500	-95.079E-9	-0.0048118	96.224E-9
39	HL-01	45.70625	118.16423	0.00000	-0.73694	-0.12500	-101.61E-9	-0.0049835	99.657E-9
39	HL-01	45.48642	117.73498	0.00000	-0.76965	-0.12500	-108.65E-9	-0.0051633	103.25E-9
39	HL-01	45.26659	117.30574	0.00000	-0.80327	-0.12500	-116.24E-9	-0.0053515	107.02E-9
39	HL-01	45.04676	116.87650	0.00000	-0.83778	-0.12500	-124.41E-9	-0.0055487	110.96E-9
39	HL-01	44.82693	116.44726	0.00000	-0.87316	-0.12500	-133.22E-9	-0.0057552	115.09E-9
39	HL-01	44.60709	116.01802	0.00000	-0.90938	-0.12500	-142.71E-9	-0.0059713	119.41E-9
39	HL-01	44.38726	115.58878	0.00000	-0.94643	-0.12500	-152.94E-9	-0.0061977	123.93E-9
39	HL-01	44.16743	115.15954	0.00000	-0.98425	-0.12500	-163.96E-9	-0.0064345	128.67E-9
39	HL-01	43.94760	114.73030	0.00000	-1.02282	-0.12500	-175.84E-9	-0.0066825	133.63E-9
40	HL-02	43.94760	114.73030	0.00000	-1.02282	-0.12500	-175.84E-9	-0.0066825	133.63E-9
40	HL-02	43.53589	114.95231	0.00000	-0.97047	-0.12500	-165.42E-9	-0.0064608	129.20E-9
40	HL-02	43.12418	115.17432	0.00000	-0.92066	-0.12500	-155.62E-9	-0.0062466	124.91E-9
40	HL-02	42.71246	115.39634	0.00000	-0.87327	-0.12500	-146.41E-9	-0.0060398	120.78E-9
40	HL-02	42.30075	115.61835	0.00000	-0.82819	-0.12500	-137.76E-9	-0.0058401	116.79E-9
40	HL-02	41.88904	115.84036	0.00000	-0.78530	-0.12500	-129.63E-9	-0.0056475	112.93E-9
40	HL-02	41.47733	116.06238	0.00000	-0.74449	-0.12500	-121.99E-9	-0.0054617	109.22E-9
40	HL-02	41.06561	116.28439	0.00000	-0.70567	-0.12500	-114.83E-9	-0.0052827	105.64E-9
40	HL-02	40.65390	116.50640	0.00000	-0.66872	-0.12500	-108.11E-9	-0.0051101	102.19E-9
40	HL-02	40.24219	116.72841	0.00000	-0.63355	-0.12500	-101.80E-9	-0.0049438	98.865E-9
40	HL-02	39.83047	116.95042	0.00000	-0.60008	-0.12500	-95.889E-9	-0.0047837	95.663E-9
40	HL-02	39.41876	117.17244	0.00000	-0.56822	-0.12500	-90.341E-9	-0.0046295	92.579E-9
40	HL-02	39.00705	117.39445	0.00000	-0.53788	-0.12500	-85.138E-9	-0.0044810	89.610E-9
40	HL-02	38.59534	117.61646	0.00000	-0.50900	-0.12500	-80.257E-9	-0.0043381	86.752E-9
40	HL-02	38.18362	117.83848	0.00000	-0.48149	-0.12500	-75.679E-9	-0.0042005	84.001E-9
40	HL-02	37.77191	118.06049	0.00000	-0.45530	-0.12500	-71.385E-9	-0.0040681	81.352E-9
40	HL-02	37.36020	118.28250	0.00000	-0.43034	-0.12500	-67.356E-9	-0.0039406	78.804E-9
41	HL-03	37.36020	118.28250	0.00000	-0.43034	-0.12500	-67.356E-9	-0.0039406	78.804E-9
41	HL-03	37.57767	118.71064	0.00000	-0.41641	-0.12500	-64.220E-9	-0.0038423	76.839E-9
41	HL-03	37.79514	119.13877	0.00000	-0.40258	-0.12500	-61.221E-9	-0.0037464	74.922E-9
41	HL-03	38.01262	119.56691	0.00000	-0.38886	-0.12500	-58.354E-9	-0.0036530	73.053E-9
41	HL-03	38.23009	119.99505	0.00000	-0.37529	-0.12500	-55.617E-9	-0.0035619	71.232E-9
41	HL-03	38.44756	120.42319	0.00000	-0.36186	-0.12500	-53.004E-9	-0.0034733	69.459E-9
41	HL-03	38.66503	120.85133	0.00000	-0.34860	-0.12500	-50.511E-9	-0.0033870	67.734E-9
41	HL-03	38.88250	121.27946	0.00000	-0.33551	-0.12500	-48.135E-9	-0.0033031	66.055E-9
41	HL-03	39.09998	121.70760	0.00000	-0.32261	-0.12500	-45.871E-9	-0.0032214	64.423E-9
41	HL-03	39.31745	122.13574	0.00000	-0.30991	-0.12500	-43.714E-9	-0.0031421	62.837E-9
41	HL-03	39.53492	122.56387	0.00000	-0.29742	-0.12500	-41.660E-9	-0.0030650	61.296E-9
41	HL-03	39.75239	122.99201	0.00000	-0.28514	-0.12500	-39.705E-9	-0.0029902	59.799E-9
41	HL-03	39.96986	123.42015	0.00000	-0.27309	-0.12500	-37.845E-9	-0.0029175	58.345E-9
41	HL-03	40.18733	123.84829	0.00000	-0.26126	-0.12500	-36.076E-9	-0.0028469	56.934E-9
41	HL-03	40.40481	124.27643	0.00000	-0.24967	-0.12500	-34.394E-9	-0.0027784	55.565E-9
41	HL-03	40.62228	124.70456	0.00000	-0.23831	-0.12500	-32.794E-9	-0.0027120	54.236E-9
41	HL-03	40.83975	125.13270	0.00000	-0.22720	-0.12500	-31.273E-9	-0.0026475	52.947E-9
41	HL-03	41.05722	125.56084	0.00000	-0.21633	-0.12500	-29.827E-9	-0.0025850	51.697E-9
41	HL-03	41.27469	125.98897	0.00000	-0.20570	-0.12500	-28.453E-9	-0.0025244	50.484E-9
41	HL-03	41.49217	126.41711	0.00000	-0.19533	-0.12500	-27.147E-9	-0.0024656	49.309E-9
41	HL-03	41.70964	126.84525	0.00000	-0.18520	-0.12500	-25.907E-9	-0.0024086	48.168E-9
41	HL-03	41.92711	127.27339	0.00000	-0.17532	-0.12500	-24.728E-9	-0.0023533	47.063E-9
41	HL-03	42.14458	127.70153	0.00000	-0.16568	-0.12500	-23.607E-9	-0.0022997	45.992E-9
41	HL-03	42.36205	128.12966	0.00000	-0.15630	-0.12500	-22.543E-9	-0.0022478	44.953E-9
41	HL-03	42.57952	128.55780	0.00000	-0.14716	-0.12500	-21.531E-9	-0.0021974	43.946E-9
41	HL-03	42.79700	128.98594	0.00000	-0.13826	-0.12500	-20.570E-9	-0.0021486	42.970E-9
41	HL-03	43.01447	129.41407	0.00000	-0.12961	-0.12500	-19.657E-9	-0.0021013	42.024E-9
41	HL-03	43.23194	129.84221	0.00000	-0.12119	-0.12500	-18.789E-9	-0.0020554	41.106E-9
41	HL-03	43.44941	130.27035	0.00000	-0.11301	-0.12500	-17.964E-9	-0.0020110	40.217E-9
41	HL-03	43.66688	130.69849	0.00000	-0.10507	-0.12500	-17.180E-9	-0.0019679	39.355E-9
41	HL-03	43.88436	131.12662	0.00000	-0.09735	-0.12500	-16.434E-9	-0.0019261	38.519E-9
41	HL-03	44.10183	131.55476	0.00000	-0.08986	-0.12500	-15.726E-9	-0.0018855	37.709E-9
41	HL-03	44.31930	131.98290	0.00000	-0.08259	-0.12500	-15.052E-9	-0.0018463	36.923E-9
42	CH-01	43.98880	114.70780	0.00000	-1.02824	-0.12500	-176.93E-9	-0.0067053	134.08E-9
42	CH-01	44.42074	114.47714	0.00000	-1.08604	-0.12500	-188.55E-9	-0.0069451	138.88E-9
42	CH-01	44.85268	114.24649	0.00000	-1.14691	-0.12500	-200.91E-9	-0.0071931	143.84E-9
42	CH-01	45.28462	114.01583	0.00000	-1.21101	-0.12500	-214.05E-9	-0.0074494	148.96E-9
42	CH-01	45.71656	113.78517	0.00000	-1.27849	-0.12500	-227.99E-9	-0.0077140	154.25E-9
42	CH-01	46.14850	113.55451	0.00000	-1.34952	-0.12500	-242.78E-9	-0.0079867	159.71E-9
42	CH-01	46.58044	113.32386	0.00000	-1.42424	-0.12500	-258.42E-9	-0.0082676	165.32E-9
42	CH-01	47.01237	113.09320	0.00000	-1.50283	-0.12500	-274.96E-9	-0.0085563	171.09E-9
42	CH-01	47.44431	112.86254	0.00000	-1.58542	-0.12500	-292.40E-9	-0.0088526	177.02E-9
42	CH-01	47.87625	112.63189	0.00000	-1.67218	-0.12500	-310.77E-9	-0.0091562	183.09E-9
42	CH-01	48.30819	112.40123	0.00000	-1.76324	-0.12500	-330.05E-9	-0.0094667	189.29E-9
42	CH-01	48.74013	112.17057	0.00000	-1.85873	-0.12500	-350.25E-9	-0.0097836	195.63E-9
42	CH-01	49.17207	111.93991	0.00000	-1.95874	-0.12500	-371.36E-9	-0.010106	202.08E-9
42	CH-01	49.60401	111.70926	0.00000	-2.06339	-0.12500	-393.34E-9	-0.010434	208.62E-9
42	CH-01	50.03595	111.47860	0.00000	-2.17271	-0.12500	-416.16E-9	-0.010765	215.25E-9
42	CH-01	50.46789	111.24794	0.00000	-2.28676	-0.12500	-439.75E-9	-0.011100	221.95E-9
42	CH-01	50.89983	111.01729	0.00000	-2.40553	-0.12500	-464.04E-9	-0.011437	228.68E-9
42	CH-01	51.33177	110.78663	0.00000	-2.52899	-0.12500	-488.94E-9	-0.011774	235.42E-9
42	CH-01	51.76371	110.55597	0.00000	-2.65709	-0.12500	-514.33E-9	-0.012111	242.16E-9
42	CH-01	52.19565	110.32531	0.00000	-2.78973	-0.12500	-540.09E-9	-0.012446	248.85E-9
42	CH-01	52.62759	110.09466	0.00000	-2.92682	-0.12500	-566.05E-9	-0.012777	255.46E-9
42	CH-01	53.05953	109.86400	0.00000	-3.06823	-0.12500	-592.05E-9	-0.013102	261.97E-9
42	CH-01	53.49146	109.63334	0.00000	-3.21383	-0.12500	-617.88E-9	-0.013420	268.33E-9
42	CH-01	53.92340	109.40269	0.00000	-3.36347	-0.12500	-643.34E-9	-0.013729	274.50E-9
42	CH-01	54.35534	109.17203	0.00000	-3.51694	-0.12500	-668.19E-9	-0.014027	280.45E-9
42	CH-01	54.78728	108.94137	0.00000	-3.67396	-0.12500	-692.19E-9	-0.014311	286.14E-9
42	CH-01	55.21922	108.71071	0.00000	-3.83409	-0.12500	-715.08E-9	-0.014580	291.51E-9
42	CH-01	55.65116	108.48006	0.00000	-3.99665	-0.12500	-736.62E-9	-0.014832	296.55E-9
42	CH-01	56.08310	108.24940	0.00000	-4.16070	-0.12500	-756.54E-9	-0.015064	301.20E-9
43	CH-02	56.08310	108.24940	0.00000	-4.16070	-0.12500	-756.54E-9	-0.015064	301.20E-9
43	CH-02	55.84919	107.82393	0.00000	-4.42376	-0.12500	-861.03E-9	-0.016155	323.00E-9
43	CH-02	55.61528	107.39846	0.00000	-4.68891	-0.12500	-983.70E-9	-0.017362	347.12E-9
43	CH-02	55.38138	106.97298	0.00000	-4.94867	-0.12500	-1.1284E-6	-0.018701	373.89E-9
43	CH-02	55.14747	106.54751	0.00000	-5.19171	-0.12500	-1.3000E-6	-0.020192	403.68E-9
43	CH-02	54.91356	106.12204	0.00000	-5.40135	-0.12500	-1.5046E-6	-0.021856	436.95E-9
43	CH-02	54.67965	105.69657	0.00000	-5.55416	-0.12500	-1.7499E-6	-0.023721	474.21E-9
43	CH-02	54.44574	105.27110	0.00000	-5.62018	-0.12500	-2.0460E-6	-0.025818	516.11E-9
43	CH-02	54.21184	104.84562	0.00000	-5.56550	-0.12500	-2.4057E-6	-0.028184	563.40E-9
43	CH-02	53.97793	104.42015	0.00000	-5.30839	-0.12500	-2.8459E-6	-0.030867	616.99E-9
43	CH-02	53.74402	103.99468	0.00000	-4.91419	-0.12500	-3.3887E-6	-0.033920	677.99E-9
43	CH-02	53.51011	103.56921	0.00000	-4.91400	-0.12500	-4.0638E-6	-0.037411	747.74E-9
43	CH-02	53.27620	103.14374	0.00000	-5.09783	-0.12500	-4.9110E-6	-0.041425	827.91E-9
43	CH-02	53.04230	102.71826	0.00000	-5.40811	-0.12500	-5.9844E-6	-0.046064	920.55E-9
43	CH-02	52.80839	102.29279	0.00000	-5.79490	-0.12500	-7.3592E-6	-0.051456	1.0282E-6
43	CH-02	52.57448	101.86732	0.00000	-6.22199	-0.12500	-9.1400E-6	-0.057766	1.1542E-6
43	CH-02	52.34057	101.44185	0.00000	-6.66559	-0.12500	-11.476E-6	-0.065199	1.3026E-6
43	CH-02	52.10666	101.01638	0.00000	-7.11036	-0.12500	-14.582E-6	-0.074021	1.4787E-6
43	CH-02	51.87276	100.59090	0.00000	-7.54640	-0.12500	-18.773E-6	-0.084576	1.6893E-6
43	CH-02	51.63885	100.16543	0.00000	-7.96732	-0.12500	-24.522E-6	-0.097317	1.9434E-6
43	CH-02	51.40494	99.73996	0.00000	-8.36907	-0.12500	-32.547E-6	-0.11284	2.2529E-6
43	CH-02	51.17103	99.31449	0.00000	-8.74925	-0.12500	-43.969E-6	-0.13196	2.6339E-6
43	CH-02	50.93712	98.88902	0.00000	-9.10659	-0.12500	-60.579E-6	-0.15576	3.1080E-6
43	CH-02	50.70322	98.46354	0.00000	-9.44070	-0.12500	-85.316E-6	-0.18577	3.7053E-6
43	CH-02	50.46931	98.03807	0.00000	-9.75180	-0.12500	-123.18E-6	-0.22413	4.4678E-6
43	CH-02	50.23540	97.61260	0.00000	-10.04060	-0.12500	-183.12E-6	-0.27394	5.4568E-6
43	CH-02	50.00149	97.18713	0.00000	-10.30831	-0.12500	-282.35E-6	-0.33991	6.7643E-6
43	CH-02	49.76758	96.76166	0.00000	-10.55673	-0.12500	-458.17E-6	-0.42974	8.5397E-6
43	CH-02	49.53368	96.33618	0.00000	-10.78891	-0.12500	-807.06E-6	-0.55756	11.054E-6
43	CH-02	49.29977	95.91071	0.00000	-11.01101	-0.12500	-0.0016438	-0.75372	14.877E-6
43	CH-02	49.06586	95.48524	0.00000	-11.23711	-0.12500	-0.0043603	-1.0964	21.405E-6
43	CH-02	48.83195	95.05977	0.00000	-11.49856	-0.12500	-0.018364	-1.8315	34.427E-6
43	CH-02	48.59804	94.63430	0.00000	-11.82637	-0.12500	-0.10266	-3.5516	58.713E-6
43	CH-02	48.36414	94.20882	0.00000	-12.10261	-0.12500	-0.17251	-5.1102	81.503E-6
43	CH-02	48.13023	93.78335	0.00000	-12.23211	-0.12500	-0.17769	-5.6931	92.539E-6
43	CH-02	47.89632	93.35788	0.00000	-12.25475	-0.12500	-0.17595	-5.9334	97.553E-6
43	CH-02	47.66241	92.93241	0.00000	-12.20024	-0.12500	-0.17233	-6.0371	100.06E-6
43	CH-02	47.42850	92.50694	0.00000	-12.08195	-0.12500	-0.16806	-6.0755	101.34E-6
43	CH-02	47.19460	92.08146	0.00000	-11.90576	-0.12500	-0.16427	-6.0804	101.89E-6
43	CH-02	46.96069	91.65599	0.00000	-11.67441	-0.12500	-0.16085	-6.0643	101.98E-6
43	CH-02	46.72678	91.23052	0.00000	-11.38927	-0.12500	-0.15706	-6.0311	101.78E-6
43	CH-02	46.49287	90.80505	0.00000	-11.05128	-0.12500	-0.15312	-5.9841	101.31E-6
43	CH-02	46.25896	90.37958	0.00000	-10.66137	-0.12500	-0.14966	-5.9253	100.55E-6
43	CH-02	46.02506	89.95410	0.00000	-10.22059	-0.12500	-0.14646	-5.8514	99.453E-6
43	CH-02	45.79115	89.52863	0.00000	-9.73031	-0.12500	-0.14294	-5.7535	97.917E-6
43	CH-02	45.55724	89.10316	0.00000	-9.19203	-0.12500	-0.13903	-5.6151	95.619E-6
43	CH-02	45.32333	88.67769	0.00000	-8.60685	-0.12500	-0.13349	-5.3972	91.924E-6
43	CH-02	45.08942	88.25222	0.00000	-7.97422	-0.12500	-0.12848	-5.0411	85.406E-6
43	CH-02	44.85552	87.82674	0.00000	-7.28519	-0.12500	-0.11030	-4.2690	72.144E-6
43	CH-02	44.62161	87.40127	0.00000	-6.56829	-0.12500	-0.043686	-2.7677	50.111E-6
43	CH-02	44.38770	86.97580	0.00000	-5.98919	-0.12500	-0.0097932	-1.6743	32.311E-6
44	CH-03	44.38770	86.97580	0.00000	-5.98919	-0.12500	-0.0097932	-1.6743	32.311E-6

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
44	CH-03	43.96821	87.22111	0.00000	-5.66607	-0.12500	-0.0033466	-1.0919	21.437E-6
44	CH-03	43.54871	87.46643	0.00000	-5.59308	-0.12500	-0.0013993	-0.76331	15.098E-6
44	CH-03	43.12922	87.71174	0.00000	-5.95452	-0.12500	-693.51E-6	-0.56375	11.192E-6
44	CH-03	42.70973	87.95705	0.00000	-6.16009	-0.12500	-387.17E-6	-0.43319	8.6174E-6
44	CH-03	42.29023	88.20237	0.00000	-6.18675	-0.12500	-235.13E-6	-0.34275	6.8268E-6
44	CH-03	41.87074	88.44768	0.00000	-6.10224	-0.12500	-151.90E-6	-0.27733	5.5284E-6
44	CH-03	41.45125	88.69300	0.00000	-5.93743	-0.12500	-102.85E-6	-0.22841	4.5558E-6
44	CH-03	41.03175	88.93831	0.00000	-5.71971	-0.12500	-72.257E-6	-0.19085	3.8082E-6
44	CH-03	40.61226	89.18362	0.00000	-5.47050	-0.12500	-52.293E-6	-0.16139	3.2215E-6
44	CH-03	40.19277	89.42894	0.00000	-5.20513	-0.12500	-38.781E-6	-0.13788	2.7530E-6
44	CH-03	39.77327	89.67425	0.00000	-4.93404	-0.12500	-29.354E-6	-0.11884	2.3733E-6
44	CH-03	39.35378	89.91956	0.00000	-4.66420	-0.12500	-22.610E-6	-0.10323	2.0619E-6
44	CH-03	38.93429	90.16488	0.00000	-4.40018	-0.12500	-17.679E-6	-0.090284	1.8035E-6
44	CH-03	38.51480	90.41019	0.00000	-4.14489	-0.12500	-14.007E-6	-0.079448	1.5873E-6
44	CH-03	38.09530	90.65550	0.00000	-3.90012	-0.12500	-11.227E-6	-0.070303	1.4047E-6
44	CH-03	37.67581	90.90082	0.00000	-3.66688	-0.12500	-9.0921E-6	-0.062525	1.2494E-6
44	CH-03	37.25632	91.14613	0.00000	-3.44564	-0.12500	-7.4322E-6	-0.055866	1.1164E-6
44	CH-03	36.83682	91.39145	0.00000	-3.23650	-0.12500	-6.1267E-6	-0.050129	1.0018E-6
44	CH-03	36.41733	91.63676	0.00000	-3.03931	-0.12500	-5.0894E-6	-0.045158	902.55E-9
44	CH-03	35.99784	91.88207	0.00000	-2.85374	-0.12500	-4.2576E-6	-0.040830	816.08E-9
44	CH-03	35.57834	92.12739	0.00000	-2.67937	-0.12500	-3.5848E-6	-0.037042	740.41E-9
44	CH-03	35.15885	92.37270	0.00000	-2.51569	-0.12500	-3.0364E-6	-0.033713	673.90E-9
44	CH-03	34.73936	92.61801	0.00000	-2.36218	-0.12500	-2.5862E-6	-0.030775	615.20E-9
44	CH-03	34.31986	92.86333	0.00000	-2.21828	-0.12500	-2.2141E-6	-0.028173	563.19E-9
44	CH-03	33.90037	93.10864	0.00000	-2.08342	-0.12500	-1.9048E-6	-0.025858	516.94E-9
44	CH-03	33.48088	93.35395	0.00000	-1.95708	-0.12500	-1.6461E-6	-0.023794	475.68E-9
44	CH-03	33.06138	93.59927	0.00000	-1.83871	-0.12500	-1.4286E-6	-0.021946	438.74E-9
44	CH-03	32.64189	93.84458	0.00000	-1.72781	-0.12500	-1.2448E-6	-0.020287	405.58E-9
44	CH-03	32.22240	94.08990	0.00000	-1.62389	-0.12500	-1.0887E-6	-0.018793	375.73E-9
44	CH-03	31.80290	94.33521	0.00000	-1.52650	-0.12500	-955.60E-9	-0.017445	348.78E-9
44	CH-03	31.38341	94.58052	0.00000	-1.43520	-0.12500	-841.61E-9	-0.016224	324.39E-9
44	CH-03	30.96392	94.82584	0.00000	-1.34958	-0.12500	-743.60E-9	-0.015117	302.25E-9
44	CH-03	30.54442	95.07115	0.00000	-1.26926	-0.12500	-659.00E-9	-0.014110	282.12E-9
44	CH-03	30.12493	95.31646	0.00000	-1.19389	-0.12500	-585.72E-9	-0.013192	263.77E-9
44	CH-03	29.70544	95.56178	0.00000	-1.12313	-0.12500	-522.02E-9	-0.012354	247.02E-9
44	CH-03	29.28595	95.80709	0.00000	-1.05668	-0.12500	-466.48E-9	-0.011587	231.68E-9
44	CH-03	28.86645	96.05240	0.00000	-0.99424	-0.12500	-417.90E-9	-0.010883	217.61E-9
44	CH-03	28.44696	96.29772	0.00000	-0.93555	-0.12500	-375.27E-9	-0.010236	204.68E-9
44	CH-03	28.02747	96.54303	0.00000	-0.88036	-0.12500	-337.77E-9	-0.0096415	192.79E-9
44	CH-03	27.60797	96.78835	0.00000	-0.82843	-0.12500	-304.69E-9	-0.0090929	181.82E-9
44	CH-03	27.18848	97.03366	0.00000	-0.77955	-0.12500	-275.43E-9	-0.0085862	171.69E-9
44	CH-03	26.76899	97.27897	0.00000	-0.73352	-0.12500	-249.49E-9	-0.0081176	162.32E-9
44	CH-03	26.34949	97.52429	0.00000	-0.69016	-0.12500	-226.43E-9	-0.0076835	153.64E-9
44	CH-03	25.93000	97.76960	0.00000	-0.64930	-0.12500	-205.88E-9	-0.0072807	145.59E-9
45	CH-04	25.93000	97.76960	0.00000	-0.64930	-0.12500	-205.88E-9	-0.0072807	145.59E-9
45	CH-04	26.16813	98.19696	0.00000	-0.65816	-0.12500	-208.31E-9	-0.0073285	146.54E-9
45	CH-04	26.40627	98.62432	0.00000	-0.66654	-0.12500	-210.42E-9	-0.0073696	147.37E-9
45	CH-04	26.64440	99.05168	0.00000	-0.67443	-0.12500	-212.19E-9	-0.0074038	148.05E-9
45	CH-04	26.88253	99.47903	0.00000	-0.68179	-0.12500	-213.62E-9	-0.0074310	148.59E-9
45	CH-04	27.12067	99.90639	0.00000	-0.68859	-0.12500	-214.68E-9	-0.0074510	149.00E-9
45	CH-04	27.35880	100.33375	0.00000	-0.69483	-0.12500	-215.38E-9	-0.0074638	149.25E-9
45	CH-04	27.59693	100.76111	0.00000	-0.70046	-0.12500	-215.70E-9	-0.0074692	149.36E-9
45	CH-04	27.83507	101.18847	0.00000	-0.70548	-0.12500	-215.65E-9	-0.0074672	149.32E-9
45	CH-04	28.07320	101.61583	0.00000	-0.70987	-0.12500	-215.22E-9	-0.0074579	149.13E-9
45	CH-04	28.31133	102.04318	0.00000	-0.71360	-0.12500	-214.42E-9	-0.0074412	148.80E-9
45	CH-04	28.54947	102.47054	0.00000	-0.71667	-0.12500	-213.25E-9	-0.0074173	148.32E-9
45	CH-04	28.78760	102.89790	0.00000	-0.71906	-0.12500	-211.72E-9	-0.0073862	147.70E-9
45	CH-04	29.02573	103.32526	0.00000	-0.72077	-0.12500	-209.84E-9	-0.0073481	146.94E-9
45	CH-04	29.26387	103.75262	0.00000	-0.72179	-0.12500	-207.62E-9	-0.0073033	146.04E-9
45	CH-04	29.50200	104.17997	0.00000	-0.72211	-0.12500	-205.08E-9	-0.0072519	145.01E-9
45	CH-04	29.74013	104.60733	0.00000	-0.72173	-0.12500	-202.23E-9	-0.0071941	143.86E-9
45	CH-04	29.97827	105.03469	0.00000	-0.72066	-0.12500	-199.10E-9	-0.0071303	142.58E-9
45	CH-04	30.21640	105.46205	0.00000	-0.71888	-0.12500	-195.69E-9	-0.0070606	141.19E-9
45	CH-04	30.45453	105.88941	0.00000	-0.71642	-0.12500	-192.04E-9	-0.0069856	139.69E-9
45	CH-04	30.69267	106.31677	0.00000	-0.71328	-0.12500	-188.16E-9	-0.0069054	138.09E-9
45	CH-04	30.93080	106.74412	0.00000	-0.70946	-0.12500	-184.08E-9	-0.0068204	136.39E-9
45	CH-04	31.16893	107.17148	0.00000	-0.70498	-0.12500	-179.82E-9	-0.0067311	134.60E-9
45	CH-04	31.40707	107.59884	0.00000	-0.69986	-0.12500	-175.41E-9	-0.0066377	132.73E-9
45	CH-04	31.64520	108.02620	0.00000	-0.69410	-0.12500	-170.86E-9	-0.0065406	130.79E-9
45	CH-04	31.88333	108.45356	0.00000	-0.68773	-0.12500	-166.20E-9	-0.0064402	128.78E-9
45	CH-04	32.12147	108.88092	0.00000	-0.68077	-0.12500	-161.46E-9	-0.0063369	126.72E-9
45	CH-04	32.35960	109.30827	0.00000	-0.67324	-0.12500	-156.65E-9	-0.0062310	124.60E-9
45	CH-04	32.59773	109.73563	0.00000	-0.66515	-0.12500	-151.80E-9	-0.0061229	122.44E-9
45	CH-04	32.83587	110.16299	0.00000	-0.65655	-0.12500	-146.93E-9	-0.0060130	120.24E-9
45	CH-04	33.07400	110.59035	0.00000	-0.64744	-0.12500	-142.05E-9	-0.0059016	118.01E-9
45	CH-04	33.31213	111.01771	0.00000	-0.63786	-0.12500	-137.19E-9	-0.0057890	115.76E-9
45	CH-04	33.55027	111.44507	0.00000	-0.62784	-0.12500	-132.35E-9	-0.0056756	113.50E-9
45	CH-04	33.78840	111.87242	0.00000	-0.61740	-0.12500	-127.56E-9	-0.0055616	111.22E-9
45	CH-04	34.02653	112.29978	0.00000	-0.60657	-0.12500	-122.83E-9	-0.0054474	108.93E-9
45	CH-04	34.26467	112.72714	0.00000	-0.59538	-0.12500	-118.17E-9	-0.0053331	106.65E-9
45	CH-04	34.50280	113.15450	0.00000	-0.58386	-0.12500	-113.59E-9	-0.0052192	104.37E-9
45	CH-04	34.74093	113.58186	0.00000	-0.57204	-0.12500	-109.10E-9	-0.0051057	102.10E-9
45	CH-04	34.97907	114.00922	0.00000	-0.55994	-0.12500	-104.71E-9	-0.0049930	99.847E-9
45	CH-04	35.21720	114.43658	0.00000	-0.54761	-0.12500	-100.43E-9	-0.0048812	97.611E-9
45	CH-04	35.45533	114.86393	0.00000	-0.53506	-0.12500	-96.266E-9	-0.0047704	95.397E-9
45	CH-04	35.69347	115.29129	0.00000	-0.52233	-0.12500	-92.215E-9	-0.0046610	93.208E-9
45	CH-04	35.93160	115.71865	0.00000	-0.50944	-0.12500	-88.286E-9	-0.0045529	91.048E-9
45	CH-04	36.16973	116.14601	0.00000	-0.49643	-0.12500	-84.481E-9	-0.0044464	88.918E-9
45	CH-04	36.40787	116.57337	0.00000	-0.48331	-0.12500	-80.802E-9	-0.0043415	86.821E-9
45	CH-04	36.64600	117.00073	0.00000	-0.47012	-0.12500	-77.249E-9	-0.0042384	84.760E-9
45	CH-04	36.88413	117.42808	0.00000	-0.45687	-0.12500	-73.824E-9	-0.0041372	82.735E-9
45	CH-04	37.12227	117.85544	0.00000	-0.44360	-0.12500	-70.526E-9	-0.0040379	80.749E-9
45	CH-04	37.36040	118.28280	0.00000	-0.43033	-0.12500	-67.354E-9	-0.0039405	78.802E-9
46	CH-05	44.38770	86.97580	0.00000	-5.98919	-0.12500	-0.0097932	-1.6743	32.311E-6
46	CH-05	43.96845	86.86828	0.00000	-5.56945	-0.12500	-0.0028381	-1.0491	20.642E-6
46	CH-05	43.54920	86.76075	0.00000	-5.39923	-0.12500	-0.0012181	-0.73853	14.625E-6
46	CH-05	43.12995	86.65323	0.00000	-5.41253	-0.12500	-635.98E-6	-0.55245	10.973E-6
46	CH-05	42.71070	86.54570	0.00000	-5.69422	-0.12500	-372.07E-6	-0.42938	8.5429E-6
46	CH-05	42.29145	86.43818	0.00000	-5.72286	-0.12500	-234.45E-6	-0.34288	6.8295E-6
46	CH-05	41.87220	86.33065	0.00000	-5.62661	-0.12500	-155.76E-6	-0.27952	5.5718E-6
46	CH-05	41.45295	86.22312	0.00000	-5.46528	-0.12500	-107.72E-6	-0.23167	4.6205E-6
46	CH-05	41.03370	86.11560	0.00000	-5.26295	-0.12500	-76.913E-6	-0.19465	3.8838E-6
47	CH-06	41.03370	86.11560	0.00000	-5.26295	-0.12500	-76.913E-6	-0.19465	3.8838E-6
47	CH-06	40.61901	86.35816	0.00000	-5.09449	-0.12500	-57.844E-6	-0.16799	3.3528E-6
47	CH-06	40.20431	86.60072	0.00000	-4.90857	-0.12500	-44.155E-6	-0.14590	2.9126E-6
47	CH-06	39.78962	86.84328	0.00000	-4.71019	-0.12500	-34.168E-6	-0.12745	2.5450E-6
47	CH-06	39.37493	87.08584	0.00000	-4.50431	-0.12500	-26.770E-6	-0.11194	2.2357E-6
47	CH-06	38.96024	87.32840	0.00000	-4.29522	-0.12500	-21.214E-6	-0.098817	1.9738E-6
47	CH-06	38.54554	87.57096	0.00000	-4.08637	-0.12500	-16.988E-6	-0.087636	1.7507E-6
47	CH-06	38.13085	87.81352	0.00000	-3.88038	-0.12500	-13.733E-6	-0.078056	1.5595E-6
47	CH-06	37.71616	88.05609	0.00000	-3.67919	-0.12500	-11.200E-6	-0.069805	1.3948E-6
47	CH-06	37.30146	88.29865	0.00000	-3.48418	-0.12500	-9.2073E-6	-0.062661	1.2521E-6
47	CH-06	36.88677	88.54121	0.00000	-3.29629	-0.12500	-7.6254E-6	-0.056448	1.1280E-6
47	CH-06	36.47208	88.78377	0.00000	-3.11610	-0.12500	-6.3587E-6	-0.051019	1.0196E-6
47	CH-06	36.05739	89.02633	0.00000	-2.94395	-0.12500	-5.3360E-6	-0.046257	924.49E-9
47	CH-06	35.64269	89.26889	0.00000	-2.77997	-0.12500	-4.5042E-6	-0.042062	840.70E-9
47	CH-06	35.22800	89.51145	0.00000	-2.62415	-0.12500	-3.8229E-6	-0.038355	766.64E-9
47	CH-06	34.81331	89.75401	0.00000	-2.47637	-0.12500	-3.2613E-6	-0.035066	700.93E-9
47	CH-06	34.39861	89.99657	0.00000	-2.33643	-0.12500	-2.7955E-6	-0.032140	642.46E-9
47	CH-06	33.98392	90.23913	0.00000	-2.20408	-0.12500	-2.4071E-6	-0.029528	590.27E-9
47	CH-06	33.56923	90.48169	0.00000	-2.07902	-0.12500	-2.0815E-6	-0.027190	543.54E-9
47	CH-06	33.15454	90.72425	0.00000	-1.96094	-0.12500	-1.8071E-6	-0.025090	501.59E-9
47	CH-06	32.73984	90.96681	0.00000	-1.84952	-0.12500	-1.5748E-6	-0.023201	463.83E-9
47	CH-06	32.32515	91.20938	0.00000	-1.74443	-0.12500	-1.3772E-6	-0.021496	429.75E-9
47	CH-06	31.91046	91.45194	0.00000	-1.64533	-0.12500	-1.2086E-6	-0.019954	398.93E-9
47	CH-06	31.49576	91.69450	0.00000	-1.55190	-0.12500	-1.0640E-6	-0.018555	370.98E-9
47	CH-06	31.08107	91.93706	0.00000	-1.46382	-0.12500	-939.60E-9	-0.017285	345.58E-9
47	CH-06	30.66638	92.17962	0.00000	-1.38080	-0.12500	-832.17E-9	-0.016128	322.46E-9
47	CH-06	30.25169	92.42218	0.00000	-1.30253	-0.12500	-739.08E-9	-0.015073	301.36E-9
47	CH-06	29.83699	92.66474	0.00000	-1.22875	-0.12500	-658.16E-9	-0.014108	282.07E-9
47	CH-06	29.42230	92.90730	0.00000	-1.15917	-0.12500	-587.60E-9	-0.013224	264.41E-9
48	CH-07	29.42230	92.90730	0.00000	-1.15917	-0.12500	-587.60E-9	-0.013224	264.41E-9
48	CH-07	29.15173	92.50539	0.00000	-1.12772	-0.12500	-563.25E-9	-0.012909	258.12E-9
48	CH-07	28.88117	92.10349	0.00000	-1.09627	-0.12500	-538.98E-9	-0.012589	251.72E-9
48	CH-07	28.61060	91.70158	0.00000	-1.06491	-0.12500	-514.91E-9	-0.012266	245.26E-9
48	CH-07	28.34003	91.29968	0.00000	-1.03370	-0.12500	-491.16E-9	-0.011941	238.75E-9
48	CH-07	28.06947	90.89777	0.00000	-1.00270	-0.12500	-467.82E-9	-0.011614	232.23E-9
48	CH-07	27.79890	90.49587	0.00000	-0.97199	-0.12500	-444.99E-9	-0.011288	225.70E-9
48	CH-07	27.52833	90.09396	0.00000	-0.94161	-0.12500	-422.75E-9	-0.010963	219.21E-9
48	CH-07	27.25777	89.69206	0.00000	-0.91161	-0.12500	-401.14E-9	-0.010641	212.76E-9
48	CH-07	26.98720	89.29015	0.00000	-0.88203	-0.12500	-380.23E-9	-0.010321	206.38E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
48	CH-07	26.71663	88.88824	0.00000	-0.85292	-0.12500	-360.04E-9	-0.010006	200.08E-9
48	CH-07	26.44607	88.48634	0.00000	-0.82431	-0.12500	-340.62E-9	-0.0096957	193.87E-9
48	CH-07	26.17550	88.08443	0.00000	-0.79623	-0.12500	-321.98E-9	-0.0093907	187.78E-9
48	CH-07	25.90493	87.68253	0.00000	-0.76870	-0.12500	-304.12E-9	-0.0090916	181.80E-9
48	CH-07	25.63437	87.28062	0.00000	-0.74175	-0.12500	-287.07E-9	-0.0087989	175.94E-9
48	CH-07	25.36380	86.87872	0.00000	-0.71539	-0.12500	-270.80E-9	-0.0085129	170.23E-9
48	CH-07	25.09323	86.47681	0.00000	-0.68963	-0.12500	-255.32E-9	-0.0082339	164.65E-9
48	CH-07	24.82267	86.07491	0.00000	-0.66449	-0.12500	-240.61E-9	-0.0079622	159.22E-9
48	CH-07	24.55210	85.67300	0.00000	-0.63997	-0.12500	-226.66E-9	-0.0076980	153.93E-9
49	CH-08	24.55210	85.67300	0.00000	-0.63997	-0.12500	-226.66E-9	-0.0076980	153.93E-9
49	CH-08	24.36080	85.78905	0.00000	-0.62531	-0.12500	-218.55E-9	-0.0075411	150.80E-9
49	CH-08	24.16950	85.90510	0.00000	-0.61093	-0.12500	-210.77E-9	-0.0073881	147.74E-9
50	CH-09	24.16950	85.90510	0.00000	-0.61093	-0.12500	-210.77E-9	-0.0073881	147.74E-9
50	CH-09	23.93042	85.56780	0.00000	-0.59100	-0.12500	-200.21E-9	-0.0071770	143.52E-9
50	CH-09	23.69135	85.23050	0.00000	-0.57153	-0.12500	-190.15E-9	-0.0069715	139.41E-9
50	CH-09	23.45228	84.89320	0.00000	-0.55252	-0.12500	-180.56E-9	-0.0067715	135.41E-9
50	CH-09	23.21320	84.55590	0.00000	-0.53397	-0.12500	-171.44E-9	-0.0065770	131.52E-9
50	CH-09	22.97413	84.21860	0.00000	-0.51588	-0.12500	-162.77E-9	-0.0063880	127.74E-9
50	CH-09	22.73505	83.88130	0.00000	-0.49824	-0.12500	-154.53E-9	-0.0062043	124.07E-9
50	CH-09	22.49598	83.54400	0.00000	-0.48104	-0.12500	-146.69E-9	-0.0060261	120.50E-9
50	CH-09	22.25690	83.20670	0.00000	-0.46429	-0.12500	-139.26E-9	-0.0058531	117.04E-9
51	CH-10	22.25690	83.20670	0.00000	-0.46429	-0.12500	-139.26E-9	-0.0058531	117.04E-9
51	CH-10	21.84234	83.47075	0.00000	-0.44209	-0.12500	-130.27E-9	-0.0056375	112.73E-9
51	CH-10	21.42778	83.73480	0.00000	-0.42068	-0.12500	-121.90E-9	-0.0054310	108.61E-9
51	CH-10	21.01322	83.99885	0.00000	-0.40006	-0.12500	-114.11E-9	-0.0052332	104.65E-9
51	CH-10	20.59866	84.26290	0.00000	-0.38019	-0.12500	-106.85E-9	-0.0050438	100.86E-9
51	CH-10	20.18410	84.52695	0.00000	-0.36106	-0.12500	-100.09E-9	-0.0048624	97.236E-9
51	CH-10	19.76954	84.79100	0.00000	-0.34264	-0.12500	-93.798E-9	-0.0046887	93.763E-9
51	CH-10	19.35498	85.05505	0.00000	-0.32492	-0.12500	-87.937E-9	-0.0045224	90.437E-9
51	CH-10	18.94042	85.31910	0.00000	-0.30787	-0.12500	-82.476E-9	-0.0043631	87.252E-9
51	CH-10	18.52586	85.58315	0.00000	-0.29147	-0.12500	-77.387E-9	-0.0042105	84.202E-9
51	CH-10	18.11130	85.84720	0.00000	-0.27571	-0.12500	-72.644E-9	-0.0040645	81.281E-9
52	CH-11	18.11130	85.84720	0.00000	-0.27571	-0.12500	-72.644E-9	-0.0040645	81.281E-9
52	CH-11	18.37194	86.24464	0.00000	-0.28646	-0.12500	-75.940E-9	-0.0041656	83.302E-9
52	CH-11	18.63258	86.64209	0.00000	-0.29743	-0.12500	-79.360E-9	-0.0042686	85.362E-9
52	CH-11	18.89322	87.03953	0.00000	-0.30860	-0.12500	-82.906E-9	-0.0043734	87.458E-9
52	CH-11	19.15386	87.43697	0.00000	-0.31998	-0.12500	-86.577E-9	-0.0044800	89.589E-9
52	CH-11	19.41450	87.83442	0.00000	-0.33156	-0.12500	-90.373E-9	-0.0045882	91.754E-9
52	CH-11	19.67514	88.23186	0.00000	-0.34333	-0.12500	-94.293E-9	-0.0046980	93.949E-9
52	CH-11	19.93578	88.62930	0.00000	-0.35529	-0.12500	-98.336E-9	-0.0048093	96.174E-9
52	CH-11	20.19642	89.02675	0.00000	-0.36743	-0.12500	-102.50E-9	-0.0049219	98.425E-9
52	CH-11	20.45706	89.42419	0.00000	-0.37974	-0.12500	-106.78E-9	-0.0050356	100.70E-9
52	CH-11	20.71770	89.82163	0.00000	-0.39220	-0.12500	-111.17E-9	-0.0051504	102.99E-9
52	CH-11	20.97834	90.21908	0.00000	-0.40482	-0.12500	-115.67E-9	-0.0052660	105.31E-9
52	CH-11	21.23898	90.61652	0.00000	-0.41757	-0.12500	-120.27E-9	-0.0053822	107.63E-9
52	CH-11	21.49962	91.01396	0.00000	-0.43045	-0.12500	-124.96E-9	-0.0054989	109.96E-9
52	CH-11	21.76026	91.41141	0.00000	-0.44343	-0.12500	-129.74E-9	-0.0056159	112.30E-9
52	CH-11	22.02090	91.80885	0.00000	-0.45651	-0.12500	-134.59E-9	-0.0057328	114.64E-9
52	CH-11	22.28154	92.20629	0.00000	-0.46966	-0.12500	-139.51E-9	-0.0058494	116.97E-9
52	CH-11	22.54218	92.60374	0.00000	-0.48287	-0.12500	-144.47E-9	-0.0059655	119.29E-9
52	CH-11	22.80282	93.00118	0.00000	-0.49612	-0.12500	-149.48E-9	-0.0060808	121.60E-9
52	CH-11	23.06346	93.39862	0.00000	-0.50938	-0.12500	-154.50E-9	-0.0061950	123.88E-9
52	CH-11	23.32410	93.79607	0.00000	-0.52264	-0.12500	-159.54E-9	-0.0063077	126.13E-9
52	CH-11	23.58474	94.19351	0.00000	-0.53587	-0.12500	-164.56E-9	-0.0064187	128.35E-9
52	CH-11	23.84538	94.59095	0.00000	-0.54905	-0.12500	-169.55E-9	-0.0065275	130.53E-9
52	CH-11	24.10602	94.98840	0.00000	-0.56215	-0.12500	-174.49E-9	-0.0066339	132.66E-9
52	CH-11	24.36666	95.38584	0.00000	-0.57514	-0.12500	-179.37E-9	-0.0067376	134.73E-9
52	CH-11	24.62730	95.78328	0.00000	-0.58801	-0.12500	-184.15E-9	-0.0068381	136.74E-9
52	CH-11	24.88794	96.18073	0.00000	-0.60071	-0.12500	-188.81E-9	-0.0069351	138.68E-9
52	CH-11	25.14858	96.57817	0.00000	-0.61322	-0.12500	-193.35E-9	-0.0070282	140.54E-9
52	CH-11	25.40922	96.97561	0.00000	-0.62551	-0.12500	-197.72E-9	-0.0071171	142.32E-9
52	CH-11	25.66986	97.37306	0.00000	-0.63755	-0.12500	-201.91E-9	-0.0072014	144.00E-9
52	CH-11	25.93050	97.77050	0.00000	-0.64932	-0.12500	-205.89E-9	-0.0072808	145.59E-9
53	10S-01	60.26430	42.08760	0.00000	-2.62472	-0.12500	-15.376E-9	-0.0024708	49.415E-9
53	10S-01	60.08619	41.66303	0.00000	-2.45844	-0.12500	-14.841E-9	-0.0024274	48.547E-9
53	10S-01	59.90809	41.23846	0.00000	-2.30407	-0.12500	-14.328E-9	-0.0023850	47.699E-9
53	10S-01	59.72998	40.81389	0.00000	-2.16060	-0.12500	-13.836E-9	-0.0023435	46.869E-9
53	10S-01	59.55187	40.38931	0.00000	-2.02711	-0.12500	-13.363E-9	-0.0023030	46.058E-9
53	10S-01	59.37376	39.96474	0.00000	-1.90277	-0.12500	-12.910E-9	-0.0022633	45.265E-9
53	10S-01	59.19566	39.54017	0.00000	-1.78685	-0.12500	-12.474E-9	-0.0022245	44.489E-9
53	10S-01	59.01755	39.11560	0.00000	-1.67865	-0.12500	-12.057E-9	-0.0021866	43.731E-9
53	10S-01	58.83944	38.69103	0.00000	-1.57757	-0.12500	-11.655E-9	-0.0021495	42.989E-9
53	10S-01	58.66134	38.26646	0.00000	-1.48305	-0.12500	-11.270E-9	-0.0021132	42.264E-9
53	10S-01	58.48323	37.84189	0.00000	-1.39458	-0.12500	-10.899E-9	-0.0020778	41.554E-9
53	10S-01	58.30512	37.41731	0.00000	-1.31170	-0.12500	-10.543E-9	-0.0020430	40.860E-9
53	10S-01	58.12701	36.99274	0.00000	-1.23399	-0.12500	-10.201E-9	-0.0020091	40.180E-9
53	10S-01	57.94891	36.56817	0.00000	-1.16107	-0.12500	-9.8720E-9	-0.0019758	39.515E-9
53	10S-01	57.77080	36.14360	0.00000	-1.09258	-0.12500	-9.5558E-9	-0.0019433	38.865E-9
54	10S-02	57.77080	36.14360	0.00000	-1.09258	-0.12500	-9.5558E-9	-0.0019433	38.865E-9
54	10S-02	57.41346	36.28429	0.00000	-1.08865	-0.12500	-9.6238E-9	-0.0019421	38.841E-9
54	10S-02	57.05613	36.42498	0.00000	-1.08406	-0.12500	-9.6942E-9	-0.0019411	38.821E-9
54	10S-02	56.69879	36.56566	0.00000	-1.07884	-0.12500	-9.7669E-9	-0.0019402	38.804E-9
54	10S-02	56.34145	36.70635	0.00000	-1.07300	-0.12500	-9.8418E-9	-0.0019395	38.789E-9
54	10S-02	55.98411	36.84704	0.00000	-1.06655	-0.12500	-9.9189E-9	-0.0019389	38.777E-9
54	10S-02	55.62678	36.98772	0.00000	-1.05952	-0.12500	-9.9980E-9	-0.0019385	38.768E-9
54	10S-02	55.26944	37.12841	0.00000	-1.05190	-0.12500	-10.079E-9	-0.0019382	38.762E-9
54	10S-02	54.91210	37.26910	0.00000	-1.04373	-0.12500	-10.162E-9	-0.0019380	38.758E-9
55	10S-03	54.91210	37.26910	0.00000	-1.04373	-0.12500	-10.162E-9	-0.0019380	38.758E-9
55	10S-03	54.77050	36.95770	0.00000	-0.99813	-0.12500	-9.9040E-9	-0.0019131	38.261E-9
55	10S-03	54.62890	36.64630	0.00000	-0.95453	-0.12500	-9.6538E-9	-0.0018887	37.772E-9
55	10S-03	54.48730	36.33490	0.00000	-0.91283	-0.12500	-9.4111E-9	-0.0018647	37.292E-9
55	10S-03	54.34570	36.02350	0.00000	-0.87291	-0.12500	-9.1758E-9	-0.0018411	36.820E-9
55	10S-03	54.20410	35.71210	0.00000	-0.83471	-0.12500	-8.9476E-9	-0.0018179	36.356E-9
55	10S-03	54.06250	35.40070	0.00000	-0.79812	-0.12500	-8.7263E-9	-0.0017951	35.900E-9
56	10S-04	54.06250	35.40070	0.00000	-0.79812	-0.12500	-8.7263E-9	-0.0017951	35.900E-9
56	10S-04	54.36875	35.26848	0.00000	-0.80211	-0.12500	-8.6680E-9	-0.0017952	35.904E-9
56	10S-04	54.67500	35.13627	0.00000	-0.80578	-0.12500	-8.6108E-9	-0.0017955	35.909E-9
56	10S-04	54.98125	35.00405	0.00000	-0.80913	-0.12500	-8.5549E-9	-0.0017959	35.916E-9
56	10S-04	55.28750	34.87183	0.00000	-0.81215	-0.12500	-8.5003E-9	-0.0017963	35.925E-9
56	10S-04	55.59375	34.73962	0.00000	-0.81484	-0.12500	-8.4470E-9	-0.0017968	35.935E-9
56	10S-04	55.90000	34.60740	0.00000	-0.81719	-0.12500	-8.3951E-9	-0.0017974	35.948E-9
57	10S-05	55.90000	34.60740	0.00000	-0.81719	-0.12500	-8.3951E-9	-0.0017974	35.948E-9
57	10S-05	55.71496	34.17881	0.00000	-0.76834	-0.12500	-8.1260E-9	-0.0017678	35.355E-9
57	10S-05	55.52993	33.75021	0.00000	-0.72229	-0.12500	-7.8673E-9	-0.0017388	34.775E-9
57	10S-05	55.34489	33.32162	0.00000	-0.67883	-0.12500	-7.6185E-9	-0.0017104	34.208E-9
57	10S-05	55.15986	32.89303	0.00000	-0.63781	-0.12500	-7.3792E-9	-0.0016827	33.652E-9
57	10S-05	54.97482	32.46444	0.00000	-0.59906	-0.12500	-7.1490E-9	-0.0016555	33.109E-9
57	10S-05	54.78979	32.03584	0.00000	-0.56244	-0.12500	-6.9275E-9	-0.0016289	32.578E-9
57	10S-05	54.60475	31.60725	0.00000	-0.52781	-0.12500	-6.7142E-9	-0.0016029	32.057E-9
57	10S-05	54.41971	31.17866	0.00000	-0.49506	-0.12500	-6.5089E-9	-0.0015774	31.548E-9
57	10S-05	54.23468	30.75006	0.00000	-0.46407	-0.12500	-6.3111E-9	-0.0015525	31.049E-9
57	10S-05	54.04964	30.32147	0.00000	-0.43472	-0.12500	-6.1207E-9	-0.0015281	30.560E-9
57	10S-05	53.86461	29.89288	0.00000	-0.40692	-0.12500	-5.9372E-9	-0.0015041	30.082E-9
57	10S-05	53.67957	29.46429	0.00000	-0.38058	-0.12500	-5.7603E-9	-0.0014807	29.614E-9
57	10S-05	53.49454	29.03569	0.00000	-0.35562	-0.12500	-5.5899E-9	-0.0014578	29.155E-9
57	10S-05	53.30950	28.60710	0.00000	-0.33194	-0.12500	-5.4255E-9	-0.0014353	28.706E-9
58	10S-06	53.30950	28.60710	0.00000	-0.33194	-0.12500	-5.4255E-9	-0.0014353	28.706E-9
58	10S-06	52.88902	28.76706	0.00000	-0.32996	-0.12500	-5.4419E-9	-0.0014320	28.639E-9
58	10S-06	52.46854	28.92701	0.00000	-0.32776	-0.12500	-5.4590E-9	-0.0014287	28.574E-9
58	10S-06	52.04806	29.08697	0.00000	-0.32535	-0.12500	-5.4769E-9	-0.0014256	28.511E-9
58	10S-06	51.62758	29.24692	0.00000	-0.32273	-0.12500	-5.4955E-9	-0.0014225	28.448E-9
58	10S-06	51.20709	29.40688	0.00000	-0.31992	-0.12500	-5.5148E-9	-0.0014194	28.387E-9
58	10S-06	50.78661	29.56684	0.00000	-0.31690	-0.12500	-5.5346E-9	-0.0014164	28.327E-9
58	10S-06	50.36613	29.72679	0.00000	-0.31370	-0.12500	-5.5550E-9	-0.0014135	28.269E-9
58	10S-06	49.94565	29.88675	0.00000	-0.31032	-0.12500	-5.5758E-9	-0.0014106	28.211E-9
58	10S-06	49.52517	30.04671	0.00000	-0.30676	-0.12500	-5.5971E-9	-0.0014077	28.154E-9
58	10S-06	49.10469	30.20666	0.00000	-0.30304	-0.12500	-5.6188E-9	-0.0014049	28.098E-9
58	10S-06	48.68421	30.36662	0.00000	-0.29915	-0.12500	-5.6408E-9	-0.0014022	28.043E-9
58	10S-06	48.26373	30.52658	0.00000	-0.29512	-0.12500	-5.6631E-9	-0.0013994	27.988E-9
58	10S-06	47.84324	30.68653	0.00000	-0.29094	-0.12500	-5.6856E-9	-0.0013967	27.934E-9
58	10S-06	47.42276	30.84649	0.00000	-0.28662	-0.12500	-5.7083E-9	-0.0013940	27.880E-9
58	10S-06	47.00228	31.00644	0.00000	-0.28218	-0.12500	-5.7310E-9	-0.0013914	27.827E-9
58	10S-06	46.58180	31.16640	0.00000	-0.27761	-0.12500	-5.7538E-9	-0.0013887	27.774E-9
59	10S-07	46.58180	31.16640	0.00000	-0.27761	-0.12500	-5.7538E-9	-0.0013887	27.774E-9
59	10S-07	46.77181	31.59864	0.00000	-0.29776	-0.12500	-5.9535E-9	-0.0014125	28.248E-9
59	10S-07	46.96181	32.03089	0.00000	-0.31896	-0.12500	-6.1621E-9	-0.0014368	28.734E-9
59	10S-07	47.15182	32.46313	0.00000	-0.34126	-0.12500	-6.3800E-9	-0.0014617	29.233E-9
59	10S-07	47.34183	32.89538	0.00000	-0.36474	-0.12500	-6.6077E-9	-0.0014872	29.744E-9
59	10S-07	47.53183	33.32762	0.00000	-0.38946	-0.12500	-6.8457E-9	-0.0015134	30.267E-9
59	10S-07	47.72184	33.75986	0.00000	-0.41549	-0.12500	-7.0946E-9	-0.0015403	30.805E-9
59	10S-07	47.91184	34.19211	0.00000	-0.44290	-0.12500	-7.3551E-9	-0.0015679	31.356E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
59	10S-07	48.10185	34.62435	0.00000	-0.47179	-0.12500	-7.6277E-9	-0.0015961	31.922E-9
59	10S-07	48.29186	35.05659	0.00000	-0.50223	-0.12500	-7.9130E-9	-0.0016252	32.503E-9
59	10S-07	48.48186	35.48884	0.00000	-0.53433	-0.12500	-8.2120E-9	-0.0016550	33.099E-9
59	10S-07	48.67187	35.92108	0.00000	-0.56819	-0.12500	-8.5253E-9	-0.0016856	33.712E-9
59	10S-07	48.86187	36.35332	0.00000	-0.60391	-0.12500	-8.8537E-9	-0.0017171	34.341E-9
59	10S-07	49.05188	36.78557	0.00000	-0.64160	-0.12500	-9.1981E-9	-0.0017494	34.987E-9
59	10S-07	49.24189	37.21781	0.00000	-0.68140	-0.12500	-9.5595E-9	-0.0017826	35.651E-9
59	10S-07	49.43189	37.65006	0.00000	-0.72344	-0.12500	-9.9388E-9	-0.0018168	36.334E-9
59	10S-07	49.62190	38.08230	0.00000	-0.76786	-0.12500	-10.337E-9	-0.0018519	37.036E-9
59	10S-07	49.81191	38.51454	0.00000	-0.81481	-0.12500	-10.755E-9	-0.0018880	37.759E-9
59	10S-07	50.00191	38.94679	0.00000	-0.86447	-0.12500	-11.195E-9	-0.0019252	38.502E-9
59	10S-07	50.19192	39.37903	0.00000	-0.91701	-0.12500	-11.658E-9	-0.0019634	39.266E-9
59	10S-07	50.38193	39.81127	0.00000	-0.97262	-0.12500	-12.144E-9	-0.0020027	40.053E-9
59	10S-07	50.57193	40.24352	0.00000	-1.03152	-0.12500	-12.656E-9	-0.0020433	40.864E-9
59	10S-07	50.76194	40.67576	0.00000	-1.09392	-0.12500	-13.195E-9	-0.0020850	41.698E-9
59	10S-07	50.95194	41.10801	0.00000	-1.16008	-0.12500	-13.762E-9	-0.0021280	42.558E-9
59	10S-07	51.14195	41.54025	0.00000	-1.23025	-0.12500	-14.360E-9	-0.0021723	43.444E-9
59	10S-07	51.33196	41.97249	0.00000	-1.30471	-0.12500	-14.991E-9	-0.0022180	44.358E-9
59	10S-07	51.52196	42.40474	0.00000	-1.38377	-0.12500	-15.656E-9	-0.0022651	45.299E-9
59	10S-07	51.71197	42.83698	0.00000	-1.46776	-0.12500	-16.358E-9	-0.0023136	46.271E-9
59	10S-07	51.90198	43.26922	0.00000	-1.55705	-0.12500	-17.099E-9	-0.0023637	47.273E-9
59	10S-07	52.09198	43.70147	0.00000	-1.65201	-0.12500	-17.882E-9	-0.0024155	48.307E-9
59	10S-07	52.28199	44.13371	0.00000	-1.75307	-0.12500	-18.708E-9	-0.0024688	49.374E-9
59	10S-07	52.47199	44.56596	0.00000	-1.86068	-0.12500	-19.583E-9	-0.0025239	50.477E-9
59	10S-07	52.66200	44.99820	0.00000	-1.97533	-0.12500	-20.507E-9	-0.0025809	51.615E-9
60	10S-08	52.66200	44.99820	0.00000	-1.97533	-0.12500	-20.507E-9	-0.0025809	51.615E-9
60	10S-08	53.08435	44.83650	0.00000	-2.02288	-0.12500	-20.171E-9	-0.0025726	51.450E-9
60	10S-08	53.50670	44.67480	0.00000	-2.07000	-0.12500	-19.839E-9	-0.0025645	51.287E-9
60	10S-08	53.92905	44.51310	0.00000	-2.11650	-0.12500	-19.512E-9	-0.0025565	51.128E-9
60	10S-08	54.35140	44.35140	0.00000	-2.16224	-0.12500	-19.189E-9	-0.0025487	50.972E-9
60	10S-08	54.77375	44.18970	0.00000	-2.20704	-0.12500	-18.872E-9	-0.0025411	50.820E-9
60	10S-08	55.19610	44.02800	0.00000	-2.25072	-0.12500	-18.560E-9	-0.0025338	50.674E-9
60	10S-08	55.61845	43.86630	0.00000	-2.29310	-0.12500	-18.254E-9	-0.0025267	50.532E-9
60	10S-08	56.04080	43.70460	0.00000	-2.33401	-0.12500	-17.955E-9	-0.0025199	50.395E-9
60	10S-08	56.46315	43.54290	0.00000	-2.37326	-0.12500	-17.662E-9	-0.0025134	50.265E-9
60	10S-08	56.88550	43.38120	0.00000	-2.41068	-0.12500	-17.377E-9	-0.0025071	50.141E-9
60	10S-08	57.30785	43.21950	0.00000	-2.44609	-0.12500	-17.099E-9	-0.0025013	50.023E-9
60	10S-08	57.73020	43.05780	0.00000	-2.47932	-0.12500	-16.828E-9	-0.0024957	49.913E-9
60	10S-08	58.15255	42.89610	0.00000	-2.51022	-0.12500	-16.565E-9	-0.0024906	49.810E-9
60	10S-08	58.57490	42.73440	0.00000	-2.53863	-0.12500	-16.311E-9	-0.0024858	49.714E-9
60	10S-08	58.99725	42.57270	0.00000	-2.56441	-0.12500	-16.064E-9	-0.0024814	49.627E-9
60	10S-08	59.41960	42.41100	0.00000	-2.58742	-0.12500	-15.826E-9	-0.0024775	49.547E-9
60	10S-08	59.84195	42.24930	0.00000	-2.60756	-0.12500	-15.597E-9	-0.0024739	49.477E-9
60	10S-08	60.26430	42.08760	0.00000	-2.62472	-0.12500	-15.376E-9	-0.0024708	49.415E-9
61	10S-09	55.90000	34.60740	0.00000	-0.81719	-0.12500	-8.3951E-9	-0.0017974	35.948E-9
61	10S-09	56.30750	34.44578	0.00000	-0.82118	-0.12500	-8.3366E-9	-0.0017992	35.983E-9
61	10S-09	56.71500	34.28416	0.00000	-0.82459	-0.12500	-8.2803E-9	-0.0018012	36.022E-9
61	10S-09	57.12254	34.12254	0.00000	-0.82740	-0.12500	-8.2262E-9	-0.0018033	36.064E-9
61	10S-09	57.53000	33.96092	0.00000	-0.82960	-0.12500	-8.1746E-9	-0.0018055	36.110E-9
61	10S-09	57.93750	33.79930	0.00000	-0.83120	-0.12500	-8.1253E-9	-0.0018080	36.158E-9
61	10S-09	58.34500	33.63768	0.00000	-0.83219	-0.12500	-8.0784E-9	-0.0018106	36.211E-9
61	10S-09	58.75250	33.47606	0.00000	-0.83255	-0.12500	-8.0342E-9	-0.0018134	36.267E-9
61	10S-09	59.16000	33.31444	0.00000	-0.83230	-0.12500	-7.9925E-9	-0.0018164	36.327E-9
61	10S-09	59.56750	33.15282	0.00000	-0.83143	-0.12500	-7.9534E-9	-0.0018196	36.391E-9
61	10S-09	59.97500	32.99120	0.00000	-0.82995	-0.12500	-7.9170E-9	-0.0018230	36.458E-9
62	10S-10	59.97500	32.99120	0.00000	-0.82995	-0.12500	-7.9170E-9	-0.0018230	36.458E-9
62	10S-10	59.79820	32.55856	0.00000	-0.78008	-0.12500	-7.6848E-9	-0.0017945	35.888E-9
62	10S-10	59.62140	32.12591	0.00000	-0.73307	-0.12500	-7.4606E-9	-0.0017665	35.329E-9
62	10S-10	59.44460	31.69327	0.00000	-0.68873	-0.12500	-7.2441E-9	-0.0017391	34.781E-9
62	10S-10	59.26780	31.26063	0.00000	-0.64689	-0.12500	-7.0349E-9	-0.0017122	34.244E-9
62	10S-10	59.09100	30.82799	0.00000	-0.60739	-0.12500	-6.8328E-9	-0.0016859	33.716E-9
62	10S-10	58.91420	30.39534	0.00000	-0.57006	-0.12500	-6.6375E-9	-0.0016600	33.199E-9
62	10S-10	58.73740	29.96270	0.00000	-0.53478	-0.12500	-6.4488E-9	-0.0016346	32.692E-9
62	10S-10	58.56060	29.53006	0.00000	-0.50142	-0.12500	-6.2663E-9	-0.0016098	32.194E-9
62	10S-10	58.38380	29.09741	0.00000	-0.46985	-0.12500	-6.0900E-9	-0.0015854	31.706E-9
62	10S-10	58.20700	28.66477	0.00000	-0.43997	-0.12500	-5.9194E-9	-0.0015614	31.228E-9
62	10S-10	58.03020	28.23213	0.00000	-0.41167	-0.12500	-5.7546E-9	-0.0015379	30.758E-9
62	10S-10	57.85340	27.79949	0.00000	-0.38487	-0.12500	-5.5951E-9	-0.0015149	30.297E-9
62	10S-10	57.67660	27.36684	0.00000	-0.35946	-0.12500	-5.4408E-9	-0.0014923	29.845E-9
62	10S-10	57.49980	26.93420	0.00000	-0.33537	-0.12500	-5.2915E-9	-0.0014701	29.401E-9
63	10S-11	57.49980	26.93420	0.00000	-0.33537	-0.12500	-5.2915E-9	-0.0014701	29.401E-9
63	10S-11	57.08077	27.10149	0.00000	-0.33610	-0.12500	-5.2998E-9	-0.0014662	29.322E-9
63	10S-11	56.66174	27.26878	0.00000	-0.33658	-0.12500	-5.3093E-9	-0.0014623	29.246E-9
63	10S-11	56.24271	27.43607	0.00000	-0.33683	-0.12500	-5.3200E-9	-0.0014586	29.172E-9
63	10S-11	55.82368	27.60336	0.00000	-0.33684	-0.12500	-5.3318E-9	-0.0014550	29.100E-9
63	10S-11	55.40465	27.77065	0.00000	-0.33662	-0.12500	-5.3448E-9	-0.0014515	29.029E-9
63	10S-11	54.98562	27.93794	0.00000	-0.33615	-0.12500	-5.3589E-9	-0.0014481	28.961E-9
63	10S-11	54.56659	28.10523	0.00000	-0.33545	-0.12500	-5.3741E-9	-0.0014448	28.895E-9
63	10S-11	54.14756	28.27252	0.00000	-0.33451	-0.12500	-5.3903E-9	-0.0014415	28.830E-9
63	10S-11	53.72853	28.43981	0.00000	-0.33334	-0.12500	-5.4074E-9	-0.0014384	28.767E-9
63	10S-11	53.30950	28.60710	0.00000	-0.33194	-0.12500	-5.4255E-9	-0.0014353	28.706E-9
64	10S-12	53.30950	28.60710	0.00000	-0.33194	-0.12500	-5.4255E-9	-0.0014353	28.706E-9
64	10S-12	53.49454	29.03569	0.00000	-0.35562	-0.12500	-5.5899E-9	-0.0014578	29.155E-9
64	10S-12	53.67957	29.46429	0.00000	-0.38058	-0.12500	-5.7603E-9	-0.0014807	29.614E-9
64	10S-12	53.86461	29.89288	0.00000	-0.40692	-0.12500	-5.9372E-9	-0.0015041	30.082E-9
64	10S-12	54.04964	30.32147	0.00000	-0.43472	-0.12500	-6.1207E-9	-0.0015281	30.560E-9
64	10S-12	54.23468	30.75006	0.00000	-0.46407	-0.12500	-6.3111E-9	-0.0015525	31.049E-9
64	10S-12	54.41971	31.17866	0.00000	-0.49506	-0.12500	-6.5089E-9	-0.0015774	31.548E-9
64	10S-12	54.60475	31.60725	0.00000	-0.52781	-0.12500	-6.7142E-9	-0.0016029	32.057E-9
64	10S-12	54.78979	32.03584	0.00000	-0.56244	-0.12500	-6.9275E-9	-0.0016289	32.578E-9
64	10S-12	54.97482	32.46444	0.00000	-0.59906	-0.12500	-7.1490E-9	-0.0016555	33.109E-9
64	10S-12	55.15986	32.89303	0.00000	-0.63781	-0.12500	-7.3792E-9	-0.0016827	33.652E-9
64	10S-12	55.34489	33.32162	0.00000	-0.67883	-0.12500	-7.6185E-9	-0.0017104	34.208E-9
64	10S-12	55.52993	33.75021	0.00000	-0.72229	-0.12500	-7.8673E-9	-0.0017388	34.775E-9
64	10S-12	55.71496	34.17881	0.00000	-0.76834	-0.12500	-8.1260E-9	-0.0017678	35.355E-9
64	10S-12	55.90000	34.60740	0.00000	-0.81719	-0.12500	-8.3951E-9	-0.0017974	35.948E-9
65	12S-01	56.42810	52.89730	0.00000	-6.45625	-0.12500	-51.671E-9	-0.0040550	81.094E-9
65	12S-01	56.90271	52.76362	0.00000	-6.80378	-0.12500	-50.263E-9	-0.0040212	80.419E-9
65	12S-01	57.37732	52.62994	0.00000	-7.16417	-0.12500	-48.880E-9	-0.0039879	79.752E-9
65	12S-01	57.85193	52.49626	0.00000	-7.53605	-0.12500	-47.523E-9	-0.0039551	79.097E-9
65	12S-01	58.32654	52.36258	0.00000	-7.91761	-0.12500	-46.195E-9	-0.0039230	78.454E-9
65	12S-01	58.80115	52.22890	0.00000	-8.30656	-0.12500	-44.898E-9	-0.0038916	77.826E-9
65	12S-01	59.27576	52.09522	0.00000	-8.70013	-0.12500	-43.634E-9	-0.0038610	77.215E-9
65	12S-01	59.75037	51.96154	0.00000	-9.09506	-0.12500	-42.404E-9	-0.0038313	76.621E-9
65	12S-01	60.22498	51.82786	0.00000	-9.48765	-0.12500	-41.210E-9	-0.0038026	76.047E-9
65	12S-01	60.69959	51.69418	0.00000	-9.87388	-0.12500	-40.053E-9	-0.0037749	75.493E-9
65	12S-01	61.17420	51.56050	0.00000	-10.24954	-0.12500	-38.935E-9	-0.0037483	74.961E-9
65	12S-01	61.64881	51.42682	0.00000	-10.61040	-0.12500	-37.855E-9	-0.0037228	74.452E-9
65	12S-01	62.12342	51.29314	0.00000	-10.95243	-0.12500	-36.814E-9	-0.0036986	73.967E-9
65	12S-01	62.59803	51.15946	0.00000	-11.27195	-0.12500	-35.814E-9	-0.0036756	73.507E-9
65	12S-01	63.07264	51.02578	0.00000	-11.56572	-0.12500	-34.854E-9	-0.0036539	73.074E-9
65	12S-01	63.54725	50.89210	0.00000	-11.83104	-0.12500	-33.934E-9	-0.0036336	72.668E-9
65	12S-01	64.02186	50.75842	0.00000	-12.06574	-0.12500	-33.055E-9	-0.0036147	72.289E-9
65	12S-01	64.49647	50.62474	0.00000	-12.26812	-0.12500	-32.218E-9	-0.0035972	71.940E-9
65	12S-01	64.97108	50.49106	0.00000	-12.43698	-0.12500	-31.421E-9	-0.0035812	71.619E-9
65	12S-01	65.44569	50.35738	0.00000	-12.57144	-0.12500	-30.664E-9	-0.0035666	71.329E-9
65	12S-01	65.92030	50.22370	0.00000	-12.67100	-0.12500	-29.949E-9	-0.0035537	71.070E-9
65	12S-01	66.39491	50.09002	0.00000	-12.73539	-0.12500	-29.273E-9	-0.0035423	70.842E-9
65	12S-01	66.86952	49.95634	0.00000	-12.76457	-0.12500	-28.638E-9	-0.0035324	70.646E-9
65	12S-01	67.34413	49.82266	0.00000	-12.75866	-0.12500	-28.043E-9	-0.0035243	70.482E-9
65	12S-01	67.81874	49.68898	0.00000	-12.71795	-0.12500	-27.487E-9	-0.0035177	70.351E-9
65	12S-01	68.29335	49.55530	0.00000	-12.64283	-0.12500	-26.970E-9	-0.0035128	70.253E-9
65	12S-01	68.76796	49.42162	0.00000	-12.53384	-0.12500	-26.493E-9	-0.0035096	70.190E-9
65	12S-01	69.24257	49.28794	0.00000	-12.39160	-0.12500	-26.054E-9	-0.0035082	70.160E-9
65	12S-01	69.71718	49.15426	0.00000	-12.21690	-0.12500	-25.653E-9	-0.0035084	70.165E-9
65	12S-01	70.19179	49.02058	0.00000	-12.01067	-0.12500	-25.291E-9	-0.0035104	70.205E-9
65	12S-01	70.66640	48.88690	0.00000	-11.77407	-0.12500	-24.966E-9	-0.0035142	70.281E-9
66	12S-02	70.66640	48.88690	0.00000	-11.77407	-0.12500	-24.966E-9	-0.0035142	70.281E-9
66	12S-02	70.47116	48.45752	0.00000	-10.88710	-0.12500	-24.239E-9	-0.0034583	69.163E-9
66	12S-02	70.27592	48.02815	0.00000	-10.07019	-0.12500	-23.532E-9	-0.0034031	68.059E-9
66	12S-02	70.08067	47.59877	0.00000	-9.31816	-0.12500	-22.844E-9	-0.0033487	66.971E-9
66	12S-02	69.88543	47.16940	0.00000	-8.62622	-0.12500	-22.174E-9	-0.0032950	65.898E-9
66	12S-02	69.69019	46.74002	0.00000	-7.98983	-0.12500	-21.523E-9	-0.0032421	64.840E-9
66	12S-02	69.49495	46.31065	0.00000	-7.40473	-0.12500	-20.890E-9	-0.0031900	63.797E-9
66	12S-02	69.29971	45.88128	0.00000	-6.86686	-0.12500	-20.275E-9	-0.0031386	62.770E-9
66	12S-02	69.10447	45.45190	0.00000	-6.37240	-0.12500	-19.677E-9	-0.0030880	61.758E-9
66	12S-02	68.90922	45.02253	0.00000	-5.91777	-0.12500	-19.097E-9	-0.0030382	60.762E-9
66	12S-02	68.71398	44.59315	0.00000	-5.49964	-0.12500	-18.534E-9	-0.0029892	59.781E-9
66	12S-02	68.51874	44.16378	0.00000	-5.11490	-0.12500	-17.986E-9	-0.0029409	58.815E-9
66	12S-02	68.32350	43.73440	0.00000	-4.76069	-0.12500	-17.456E-9	-0.0028933	57.865E-9
67	12S-03	68.32350	43.73440	0.00000	-4.76069	-0.12500	-17.456E-9	-0.0028933	57.865E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
67	12S-03	68.05865	43.82285	0.00000	-4.79957	-0.12500	-17.543E-9	-0.0028902	57.802E-9
67	12S-03	67.79380	43.91130	0.00000	-4.83592	-0.12500	-17.636E-9	-0.0028874	57.747E-9
67	12S-03	67.52895	43.99975	0.00000	-4.86965	-0.12500	-17.736E-9	-0.0028850	57.698E-9
67	12S-03	67.26410	44.08820	0.00000	-4.90067	-0.12500	-17.841E-9	-0.0028829	57.655E-9
68	12S-04	67.26410	44.08820	0.00000	-4.90067	-0.12500	-17.841E-9	-0.0028829	57.655E-9
68	12S-04	67.10714	43.67957	0.00000	-4.57829	-0.12500	-17.325E-9	-0.0028389	56.776E-9
68	12S-04	66.95018	43.27094	0.00000	-4.28033	-0.12500	-16.824E-9	-0.0027957	55.911E-9
68	12S-04	66.79322	42.86231	0.00000	-4.00473	-0.12500	-16.340E-9	-0.0027531	55.061E-9
68	12S-04	66.63626	42.45368	0.00000	-3.74958	-0.12500	-15.870E-9	-0.0027113	54.225E-9
68	12S-04	66.47930	42.04505	0.00000	-3.51314	-0.12500	-15.416E-9	-0.0026702	53.402E-9
68	12S-04	66.32234	41.63642	0.00000	-3.29383	-0.12500	-14.975E-9	-0.0026298	52.594E-9
68	12S-04	66.16538	41.22779	0.00000	-3.09022	-0.12500	-14.549E-9	-0.0025900	51.799E-9
68	12S-04	66.00842	40.81916	0.00000	-2.90100	-0.12500	-14.136E-9	-0.0025510	51.018E-9
68	12S-04	65.85146	40.41053	0.00000	-2.72497	-0.12500	-13.736E-9	-0.0025126	50.250E-9
68	12S-04	65.69450	40.00190	0.00000	-2.56107	-0.12500	-13.348E-9	-0.0024748	49.495E-9
69	12S-05	65.69450	40.00190	0.00000	-2.56107	-0.12500	-13.348E-9	-0.0024748	49.495E-9
69	12S-05	65.23740	40.17862	0.00000	-2.58644	-0.12500	-13.460E-9	-0.0024712	49.421E-9
69	12S-05	64.78030	40.35534	0.00000	-2.60850	-0.12500	-13.583E-9	-0.0024681	49.361E-9
69	12S-05	64.32320	40.53206	0.00000	-2.62710	-0.12500	-13.717E-9	-0.0024658	49.314E-9
69	12S-05	63.86610	40.70879	0.00000	-2.64214	-0.12500	-13.862E-9	-0.0024641	49.280E-9
69	12S-05	63.40900	40.88551	0.00000	-2.65353	-0.12500	-14.019E-9	-0.0024630	49.259E-9
69	12S-05	62.95190	41.06223	0.00000	-2.66117	-0.12500	-14.186E-9	-0.0024626	49.250E-9
69	12S-05	62.49480	41.23895	0.00000	-2.66504	-0.12500	-14.365E-9	-0.0024628	49.254E-9
69	12S-05	62.03770	41.41567	0.00000	-2.66508	-0.12500	-14.555E-9	-0.0024636	49.269E-9
69	12S-05	61.58060	41.59239	0.00000	-2.66130	-0.12500	-14.756E-9	-0.0024649	49.297E-9
69	12S-05	61.12350	41.76911	0.00000	-2.65372	-0.12500	-14.967E-9	-0.0024669	49.336E-9
69	12S-05	60.66640	41.94584	0.00000	-2.64238	-0.12500	-15.189E-9	-0.0024694	49.386E-9
69	12S-05	60.20930	42.12256	0.00000	-2.62734	-0.12500	-15.422E-9	-0.0024725	49.448E-9
69	12S-05	59.75220	42.29928	0.00000	-2.60868	-0.12500	-15.666E-9	-0.0024761	49.520E-9
69	12S-05	59.29510	42.47600	0.00000	-2.58654	-0.12500	-15.920E-9	-0.0024802	49.603E-9
69	12S-05	58.83800	42.65272	0.00000	-2.56102	-0.12500	-16.184E-9	-0.0024849	49.696E-9
69	12S-05	58.38090	42.82944	0.00000	-2.53230	-0.12500	-16.458E-9	-0.0024900	49.798E-9
69	12S-05	57.92380	43.00616	0.00000	-2.50052	-0.12500	-16.741E-9	-0.0024956	49.910E-9
69	12S-05	57.46670	43.18289	0.00000	-2.46589	-0.12500	-17.034E-9	-0.0025016	50.030E-9
69	12S-05	57.00960	43.35961	0.00000	-2.42861	-0.12500	-17.337E-9	-0.0025081	50.159E-9
69	12S-05	56.55250	43.53633	0.00000	-2.38887	-0.12500	-17.648E-9	-0.0025149	50.297E-9
69	12S-05	56.09540	43.71305	0.00000	-2.34691	-0.12500	-17.968E-9	-0.0025222	50.441E-9
69	12S-05	55.63830	43.88977	0.00000	-2.30294	-0.12500	-18.296E-9	-0.0025298	50.593E-9
69	12S-05	55.18120	44.06649	0.00000	-2.25720	-0.12500	-18.632E-9	-0.0025377	50.752E-9
69	12S-05	54.72410	44.24321	0.00000	-2.20992	-0.12500	-18.975E-9	-0.0025459	50.916E-9
69	12S-05	54.26700	44.41994	0.00000	-2.16132	-0.12500	-19.325E-9	-0.0025544	51.086E-9
69	12S-05	53.80990	44.59666	0.00000	-2.11163	-0.12500	-19.681E-9	-0.0025632	51.261E-9
69	12S-05	53.35280	44.77338	0.00000	-2.06106	-0.12500	-20.043E-9	-0.0025721	51.440E-9
69	12S-05	52.89570	44.95010	0.00000	-2.00983	-0.12500	-20.410E-9	-0.0025813	51.624E-9
70	12S-06	52.89570	44.95010	0.00000	-2.00983	-0.12500	-20.410E-9	-0.0025813	51.624E-9
70	12S-06	53.09194	45.39161	0.00000	-2.13814	-0.12500	-21.400E-9	-0.0026411	52.820E-9
70	12S-06	53.28819	45.83312	0.00000	-2.27532	-0.12500	-22.448E-9	-0.0027030	54.058E-9
70	12S-06	53.48443	46.27463	0.00000	-2.42210	-0.12500	-23.560E-9	-0.0027670	55.337E-9
70	12S-06	53.68068	46.71614	0.00000	-2.57922	-0.12500	-24.738E-9	-0.0028332	56.661E-9
70	12S-06	53.87692	47.15766	0.00000	-2.74752	-0.12500	-25.989E-9	-0.0029017	58.031E-9
70	12S-06	54.07317	47.59917	0.00000	-2.92790	-0.12500	-27.316E-9	-0.0029726	59.448E-9
70	12S-06	54.26941	48.04068	0.00000	-3.12132	-0.12500	-28.725E-9	-0.0030460	60.917E-9
70	12S-06	54.46566	48.48219	0.00000	-3.32881	-0.12500	-30.223E-9	-0.0031220	62.437E-9
70	12S-06	54.66190	48.92370	0.00000	-3.55150	-0.12500	-31.814E-9	-0.0032008	64.012E-9
70	12S-06	54.85814	49.36521	0.00000	-3.79057	-0.12500	-33.507E-9	-0.0032824	65.645E-9
70	12S-06	55.05439	49.80672	0.00000	-4.04728	-0.12500	-35.308E-9	-0.0033671	67.337E-9
70	12S-06	55.25063	50.24823	0.00000	-4.32297	-0.12500	-37.224E-9	-0.0034548	69.092E-9
70	12S-06	55.44688	50.68974	0.00000	-4.61902	-0.12500	-39.265E-9	-0.0035458	70.911E-9
70	12S-06	55.64312	51.13126	0.00000	-4.93689	-0.12500	-41.439E-9	-0.0036402	72.799E-9
70	12S-06	55.83937	51.57277	0.00000	-5.27806	-0.12500	-43.756E-9	-0.0037382	74.758E-9
70	12S-06	56.03561	52.01428	0.00000	-5.64403	-0.12500	-46.226E-9	-0.0038398	76.791E-9
70	12S-06	56.23186	52.45579	0.00000	-6.03628	-0.12500	-48.860E-9	-0.0039454	78.902E-9
70	12S-06	56.42810	52.89730	0.00000	-6.45625	-0.12500	-51.671E-9	-0.0040550	81.094E-9
71	14S-01	92.77120	50.75620	0.00000	-2.94083	-0.12500	-86.943E-9	-0.0076617	153.22E-9
71	14S-01	93.25995	50.72525	0.00000	-2.91895	-0.12500	-91.886E-9	-0.0078822	157.63E-9
71	14S-01	93.74870	50.69430	0.00000	-2.90492	-0.12500	-97.221E-9	-0.0081139	162.27E-9
71	14S-01	94.23745	50.66335	0.00000	-2.89833	-0.12500	-102.98E-9	-0.0083573	167.13E-9
71	14S-01	94.72620	50.63240	0.00000	-2.89873	-0.12500	-109.20E-9	-0.0086131	172.25E-9
71	14S-01	95.21495	50.60145	0.00000	-2.90565	-0.12500	-115.93E-9	-0.0088821	177.63E-9
71	14S-01	95.70370	50.57050	0.00000	-2.91853	-0.12500	-123.21E-9	-0.0091649	183.28E-9
71	14S-01	96.19245	50.53955	0.00000	-2.93670	-0.12500	-131.09E-9	-0.0094625	189.23E-9
71	14S-01	96.68120	50.50860	0.00000	-2.95927	-0.12500	-139.64E-9	-0.0097758	195.50E-9
71	14S-01	97.16995	50.47765	0.00000	-2.98506	-0.12500	-148.91E-9	-0.010106	202.09E-9
71	14S-01	97.65870	50.44670	0.00000	-3.01232	-0.12500	-158.97E-9	-0.010453	209.04E-9
71	14S-01	98.14745	50.41575	0.00000	-3.03843	-0.12500	-169.92E-9	-0.010819	216.36E-9
71	14S-01	98.63620	50.38480	0.00000	-3.05908	-0.12500	-181.82E-9	-0.011205	224.09E-9
72	14S-02	98.63620	50.38480	0.00000	-3.05908	-0.12500	-181.82E-9	-0.011205	224.09E-9
72	14S-02	98.62403	49.89284	0.00000	-2.99062	-0.12500	-177.14E-9	-0.011037	220.71E-9
72	14S-02	98.61185	49.40089	0.00000	-2.92579	-0.12500	-172.44E-9	-0.010866	217.30E-9
72	14S-02	98.59968	48.90893	0.00000	-2.86463	-0.12500	-167.74E-9	-0.010694	213.86E-9
72	14S-02	98.58751	48.41697	0.00000	-2.80663	-0.12500	-163.05E-9	-0.010521	210.41E-9
72	14S-02	98.57533	47.92502	0.00000	-2.75063	-0.12500	-158.38E-9	-0.010348	206.93E-9
72	14S-02	98.56316	47.43306	0.00000	-2.69581	-0.12500	-153.74E-9	-0.010173	203.45E-9
72	14S-02	98.55099	46.94110	0.00000	-2.63842	-0.12500	-149.14E-9	-0.0099988	199.96E-9
72	14S-02	98.53881	46.44915	0.00000	-2.58021	-0.12500	-144.59E-9	-0.0098243	196.47E-9
72	14S-02	98.52664	45.95719	0.00000	-2.52025	-0.12500	-140.09E-9	-0.0096501	192.98E-9
72	14S-02	98.51447	45.46523	0.00000	-2.45878	-0.12500	-135.66E-9	-0.0094763	189.51E-9
72	14S-02	98.50229	44.97328	0.00000	-2.39611	-0.12500	-131.29E-9	-0.0093031	186.05E-9
72	14S-02	98.49012	44.48132	0.00000	-2.33259	-0.12500	-127.01E-9	-0.0091309	182.60E-9
72	14S-02	98.47795	43.98936	0.00000	-2.26855	-0.12500	-122.80E-9	-0.0089597	179.18E-9
72	14S-02	98.46577	43.49741	0.00000	-2.20428	-0.12500	-118.67E-9	-0.0087898	175.78E-9
72	14S-02	98.45360	43.00545	0.00000	-2.14005	-0.12500	-114.64E-9	-0.0086213	172.41E-9
72	14S-02	98.44143	42.51349	0.00000	-2.07607	-0.12500	-110.70E-9	-0.0084544	169.07E-9
72	14S-02	98.42925	42.02154	0.00000	-2.01254	-0.12500	-106.85E-9	-0.0082891	165.77E-9
72	14S-02	98.41708	41.52958	0.00000	-1.94969	-0.12500	-103.09E-9	-0.0081258	162.50E-9
72	14S-02	98.40491	41.03762	0.00000	-1.88740	-0.12500	-99.440E-9	-0.0079643	159.27E-9
72	14S-02	98.39273	40.54567	0.00000	-1.82605	-0.12500	-95.886E-9	-0.0078049	156.09E-9
72	14S-02	98.38056	40.05371	0.00000	-1.76564	-0.12500	-92.432E-9	-0.0076477	152.94E-9
72	14S-02	98.36839	39.56175	0.00000	-1.70625	-0.12500	-89.078E-9	-0.0074926	149.84E-9
72	14S-02	98.35621	39.06980	0.00000	-1.64795	-0.12500	-85.825E-9	-0.0073399	146.79E-9
72	14S-02	98.34404	38.57784	0.00000	-1.59079	-0.12500	-82.673E-9	-0.0071896	143.78E-9
72	14S-02	98.33187	38.08588	0.00000	-1.53481	-0.12500	-79.620E-9	-0.0070416	140.82E-9
72	14S-02	98.31969	37.59393	0.00000	-1.48004	-0.12500	-76.665E-9	-0.0068961	137.91E-9
72	14S-02	98.30752	37.10197	0.00000	-1.42651	-0.12500	-73.809E-9	-0.0067532	135.05E-9
72	14S-02	98.29535	36.61001	0.00000	-1.37424	-0.12500	-71.048E-9	-0.0066127	132.25E-9
72	14S-02	98.28317	36.11806	0.00000	-1.32323	-0.12500	-68.382E-9	-0.0064748	129.49E-9
72	14S-02	98.27100	35.62610	0.00000	-1.27350	-0.12500	-65.809E-9	-0.0063395	126.78E-9
73	14S-03	98.27100	35.62610	0.00000	-1.27350	-0.12500	-65.809E-9	-0.0063395	126.78E-9
73	14S-03	97.83503	35.65297	0.00000	-1.25503	-0.12500	-63.289E-9	-0.0062122	124.24E-9
73	14S-03	97.39906	35.67984	0.00000	-1.23782	-0.12500	-60.879E-9	-0.0060882	121.76E-9
73	14S-03	96.96309	35.70671	0.00000	-1.22188	-0.12500	-58.575E-9	-0.0059676	119.34E-9
73	14S-03	96.52711	35.73359	0.00000	-1.20721	-0.12500	-56.373E-9	-0.0058501	117.00E-9
73	14S-03	96.09114	35.76046	0.00000	-1.19380	-0.12500	-54.268E-9	-0.0057358	114.71E-9
73	14S-03	95.65517	35.78733	0.00000	-1.18167	-0.12500	-52.256E-9	-0.0056245	112.48E-9
73	14S-03	95.21920	35.81420	0.00000	-1.17080	-0.12500	-50.332E-9	-0.0055162	110.32E-9
73	14S-03	94.78323	35.84107	0.00000	-1.16121	-0.12500	-48.493E-9	-0.0054108	108.21E-9
73	14S-03	94.34726	35.86794	0.00000	-1.15288	-0.12500	-46.735E-9	-0.0053083	106.16E-9
73	14S-03	93.91129	35.89481	0.00000	-1.14581	-0.12500	-45.054E-9	-0.0052086	104.17E-9
73	14S-03	93.47531	35.92169	0.00000	-1.14000	-0.12500	-43.447E-9	-0.0051115	102.23E-9
73	14S-03	93.03934	35.94856	0.00000	-1.13546	-0.12500	-41.911E-9	-0.0050172	100.34E-9
73	14S-03	92.60337	35.97543	0.00000	-1.13217	-0.12500	-40.443E-9	-0.0049253	98.502E-9
73	14S-03	92.16740	36.00230	0.00000	-1.13013	-0.12500	-39.039E-9	-0.0048360	96.716E-9
74	14S-04	92.16740	36.00230	0.00000	-1.13013	-0.12500	-39.039E-9	-0.0048360	96.716E-9
74	14S-04	92.20622	35.62567	0.00000	-1.09652	-0.12500	-38.295E-9	-0.0047830	95.655E-9
74	14S-04	92.24503	35.24903	0.00000	-1.06368	-0.12500	-37.559E-9	-0.0047301	94.598E-9
74	14S-04	92.28385	34.87240	0.00000	-1.03159	-0.12500	-36.831E-9	-0.0046775	93.545E-9
74	14S-04	92.32267	34.49577	0.00000	-1.00024	-0.12500	-36.112E-9	-0.0046251	92.497E-9
74	14S-04	92.36148	34.11913	0.00000	-0.96961	-0.12500	-35.402E-9	-0.0045729	91.454E-9
74	14S-04	92.40030	33.74250	0.00000	-0.93970	-0.12500	-34.700E-9	-0.0045210	90.416E-9
75	14S-05	92.40030	33.74250	0.00000	-0.93970	-0.12500	-34.700E-9	-0.0045210	90.416E-9
75	14S-05	91.98313	33.69950	0.00000	-0.93179	-0.12500	-33.479E-9	-0.0044368	88.732E-9
75	14S-05	91.56595	33.65650	0.00000	-0.92468	-0.12500	-32.313E-9	-0.0043550	87.096E-9
75	14S-05	91.14878	33.61350	0.00000	-0.91836	-0.12500	-31.199E-9	-0.0042755	85.506E-9
75	14S-05	90.73160	33.57050	0.00000	-0.91278	-0.12500	-30.135E-9	-0.0041982	83.961E-9
75	14S-05	90.31442	33.52750	0.00000	-0.90793	-0.12500	-29.119E-9	-0.0041231	82.459E-9
75	14S-05	89.89725	33.48450	0.00000	-0.90377	-0.12500	-28.148E-9	-0.0040501	80.999E-9
75	14S-05	89.48007	33.44150	0.00000	-0.90027	-0.12500	-27.219E-9	-0.0039792	79.580E-9
75	14S-05	89.06290	33.39850	0.00000	-0.89740	-0.12500	-26.332E-9	-0.0039102	78.201E-9
75	14S-05	88.64572	33.35550	0.00000	-0.89514	-0.12500	-25.483E-9	-0.0038431	76.859E-9
75	14S-05	88.22855	33.31250	0.00000	-0.89344	-0.12500	-24.672E-9	-0.0037779	75.555E-9
75	14S-05	87.81137	33.26950	0.00000	-0.89229	-0.12500	-23.895E-9	-0.0037145	74.286E-9

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
75	14S-05	87.39420	33.22650	0.00000	-0.89163	-0.12500	-23.153E-9	-0.0036528	73.053E-9
76	14S-06	87.39420	33.22650	0.00000	-0.89163	-0.12500	-23.153E-9	-0.0036528	73.053E-9
76	14S-06	86.98952	33.13740	0.00000	-0.88737	-0.12500	-22.407E-9	-0.0035894	71.785E-9
76	14S-06	86.58483	33.04830	0.00000	-0.88345	-0.12500	-21.695E-9	-0.0035278	70.553E-9
76	14S-06	86.18015	32.95920	0.00000	-0.87983	-0.12500	-21.015E-9	-0.0034679	69.356E-9
76	14S-06	85.77547	32.87010	0.00000	-0.87647	-0.12500	-20.364E-9	-0.0034097	68.192E-9
76	14S-06	85.37078	32.78100	0.00000	-0.87334	-0.12500	-19.742E-9	-0.0033531	67.061E-9
76	14S-06	84.96610	32.69190	0.00000	-0.87040	-0.12500	-19.147E-9	-0.0032981	65.960E-9
77	14S-07	84.96610	32.69190	0.00000	-0.87040	-0.12500	-19.147E-9	-0.0032981	65.960E-9
77	14S-07	84.91494	33.14352	0.00000	-0.91231	-0.12500	-19.522E-9	-0.0033358	66.714E-9
77	14S-07	84.86377	33.59514	0.00000	-0.95612	-0.12500	-19.901E-9	-0.0033737	67.472E-9
77	14S-07	84.81261	34.04676	0.00000	-1.00192	-0.12500	-20.285E-9	-0.0034118	68.233E-9
77	14S-07	84.76144	34.49839	0.00000	-1.04984	-0.12500	-20.673E-9	-0.0034500	68.998E-9
77	14S-07	84.71028	34.95001	0.00000	-1.09999	-0.12500	-21.065E-9	-0.0034884	69.765E-9
77	14S-07	84.65911	35.40163	0.00000	-1.15249	-0.12500	-21.461E-9	-0.0035269	70.535E-9
77	14S-07	84.60795	35.85325	0.00000	-1.20748	-0.12500	-21.860E-9	-0.0035655	71.307E-9
77	14S-07	84.55679	36.30487	0.00000	-1.26511	-0.12500	-22.264E-9	-0.0036042	72.082E-9
77	14S-07	84.50562	36.75649	0.00000	-1.32553	-0.12500	-22.671E-9	-0.0036431	72.859E-9
77	14S-07	84.45446	37.20811	0.00000	-1.38890	-0.12500	-23.081E-9	-0.0036820	73.637E-9
77	14S-07	84.40329	37.65974	0.00000	-1.45540	-0.12500	-23.495E-9	-0.0037210	74.417E-9
77	14S-07	84.35213	38.11136	0.00000	-1.52521	-0.12500	-23.912E-9	-0.0037601	75.198E-9
77	14S-07	84.30096	38.56298	0.00000	-1.59852	-0.12500	-24.333E-9	-0.0037992	75.981E-9
77	14S-07	84.24980	39.01460	0.00000	-1.67556	-0.12500	-24.756E-9	-0.0038383	76.764E-9
78	14S-08	84.24980	39.01460	0.00000	-1.67556	-0.12500	-24.756E-9	-0.0038383	76.764E-9
78	14S-08	84.72059	39.05661	0.00000	-1.65395	-0.12500	-25.617E-9	-0.0039098	78.194E-9
78	14S-08	85.19139	39.09861	0.00000	-1.63331	-0.12500	-26.528E-9	-0.0039839	79.675E-9
78	14S-08	85.66218	39.14062	0.00000	-1.61377	-0.12500	-27.491E-9	-0.0040607	81.210E-9
78	14S-08	86.13297	39.18263	0.00000	-1.59543	-0.12500	-28.510E-9	-0.0041402	82.800E-9
78	14S-08	86.60377	39.22463	0.00000	-1.57842	-0.12500	-29.588E-9	-0.0042226	84.449E-9
78	14S-08	87.07456	39.26664	0.00000	-1.56281	-0.12500	-30.730E-9	-0.0043081	86.158E-9
78	14S-08	87.54536	39.30864	0.00000	-1.54870	-0.12500	-31.938E-9	-0.0043967	87.930E-9
78	14S-08	88.01615	39.35065	0.00000	-1.53618	-0.12500	-33.217E-9	-0.0044886	89.768E-9
78	14S-08	88.48694	39.39266	0.00000	-1.52533	-0.12500	-34.572E-9	-0.0045839	91.674E-9
78	14S-08	88.95774	39.43466	0.00000	-1.51622	-0.12500	-36.007E-9	-0.0046828	93.651E-9
78	14S-08	89.42853	39.47667	0.00000	-1.50891	-0.12500	-37.529E-9	-0.0047853	95.702E-9
78	14S-08	89.89933	39.51868	0.00000	-1.50349	-0.12500	-39.142E-9	-0.0048918	97.831E-9
78	14S-08	90.37012	39.56068	0.00000	-1.49999	-0.12500	-40.852E-9	-0.0050023	100.04E-9
78	14S-08	90.84091	39.60269	0.00000	-1.49849	-0.12500	-42.667E-9	-0.0051170	102.34E-9
78	14S-08	91.31171	39.64469	0.00000	-1.49905	-0.12500	-44.593E-9	-0.0052362	104.72E-9
78	14S-08	91.78250	39.68670	0.00000	-1.50170	-0.12500	-46.637E-9	-0.0053599	107.19E-9
79	14S-09	91.78250	39.68670	0.00000	-1.50170	-0.12500	-46.637E-9	-0.0053599	107.19E-9
79	14S-09	91.74112	40.13687	0.00000	-1.55273	-0.12500	-47.622E-9	-0.0054255	108.50E-9
79	14S-09	91.69975	40.58703	0.00000	-1.60501	-0.12500	-48.611E-9	-0.0054910	109.81E-9
79	14S-09	91.65838	41.03720	0.00000	-1.65857	-0.12500	-49.604E-9	-0.0055565	111.12E-9
79	14S-09	91.61700	41.48737	0.00000	-1.71341	-0.12500	-50.601E-9	-0.0056217	112.43E-9
79	14S-09	91.57563	41.93753	0.00000	-1.76955	-0.12500	-51.600E-9	-0.0056868	113.73E-9
79	14S-09	91.53425	42.38770	0.00000	-1.82697	-0.12500	-52.600E-9	-0.0057516	115.03E-9
79	14S-09	91.49287	42.83787	0.00000	-1.88565	-0.12500	-53.600E-9	-0.0058161	116.32E-9
79	14S-09	91.45150	43.28803	0.00000	-1.94570	-0.12500	-54.599E-9	-0.0058802	117.60E-9
79	14S-09	91.41012	43.73820	0.00000	-2.00699	-0.12500	-55.595E-9	-0.0059440	118.87E-9
79	14S-09	91.36875	44.18837	0.00000	-2.06956	-0.12500	-56.588E-9	-0.0060072	120.14E-9
79	14S-09	91.32738	44.63853	0.00000	-2.13338	-0.12500	-57.576E-9	-0.0060700	121.39E-9
79	14S-09	91.28600	45.08870	0.00000	-2.19843	-0.12500	-58.557E-9	-0.0061322	122.64E-9
80	14S-10	91.28600	45.08870	0.00000	-2.19843	-0.12500	-58.557E-9	-0.0061322	122.64E-9
80	14S-10	91.65398	45.11068	0.00000	-2.18798	-0.12500	-60.817E-9	-0.0062536	125.07E-9
80	14S-10	92.02195	45.13265	0.00000	-2.18017	-0.12500	-63.199E-9	-0.0063792	127.58E-9
80	14S-10	92.38993	45.15463	0.00000	-2.17498	-0.12500	-65.709E-9	-0.0065092	130.18E-9
80	14S-10	92.75790	45.17660	0.00000	-2.17241	-0.12500	-68.355E-9	-0.0066436	132.86E-9
81	14S-11	92.75790	45.17660	0.00000	-2.17241	-0.12500	-68.355E-9	-0.0066436	132.86E-9
81	14S-11	92.75901	45.64157	0.00000	-2.23433	-0.12500	-69.914E-9	-0.0067315	134.62E-9
81	14S-11	92.76012	46.10653	0.00000	-2.29687	-0.12500	-71.479E-9	-0.0068191	136.37E-9
81	14S-11	92.76122	46.57150	0.00000	-2.35997	-0.12500	-73.047E-9	-0.0069064	138.12E-9
81	14S-11	92.76233	47.03647	0.00000	-2.42357	-0.12500	-74.617E-9	-0.0069933	139.86E-9
81	14S-11	92.76344	47.50143	0.00000	-2.48760	-0.12500	-76.186E-9	-0.0070796	141.58E-9
81	14S-11	92.76455	47.96640	0.00000	-2.55199	-0.12500	-77.752E-9	-0.0071654	143.30E-9
81	14S-11	92.76566	48.43137	0.00000	-2.61665	-0.12500	-79.313E-9	-0.0072504	145.00E-9
81	14S-11	92.76677	48.89633	0.00000	-2.68150	-0.12500	-80.865E-9	-0.0073346	146.68E-9
81	14S-11	92.76788	49.36130	0.00000	-2.74645	-0.12500	-82.407E-9	-0.0074180	148.35E-9
81	14S-11	92.76898	49.82627	0.00000	-2.81139	-0.12500	-83.936E-9	-0.0075003	150.00E-9
81	14S-11	92.77009	50.29123	0.00000	-2.87622	-0.12500	-85.449E-9	-0.0075816	151.62E-9
81	14S-11	92.77120	50.75620	0.00000	-2.94083	-0.12500	-86.943E-9	-0.0076617	153.22E-9
82	14S-12	91.78250	39.68670	0.00000	-1.50170	-0.12500	-46.637E-9	-0.0053599	107.19E-9
82	14S-12	91.83061	39.22615	0.00000	-1.45080	-0.12500	-45.661E-9	-0.0052942	105.88E-9
82	14S-12	91.87873	38.76560	0.00000	-1.40121	-0.12500	-44.690E-9	-0.0052285	104.56E-9
82	14S-12	91.92684	38.30505	0.00000	-1.35292	-0.12500	-43.727E-9	-0.0051628	103.25E-9
82	14S-12	91.97495	37.84450	0.00000	-1.30590	-0.12500	-42.770E-9	-0.0050972	101.94E-9
82	14S-12	92.02306	37.38395	0.00000	-1.26013	-0.12500	-41.823E-9	-0.0050316	100.63E-9
82	14S-12	92.07117	36.92340	0.00000	-1.21560	-0.12500	-40.885E-9	-0.0049662	99.320E-9
82	14S-12	92.11929	36.46285	0.00000	-1.17227	-0.12500	-39.956E-9	-0.0049010	98.016E-9
82	14S-12	92.16740	36.00230	0.00000	-1.13013	-0.12500	-39.039E-9	-0.0048360	96.716E-9
83	18S-01	81.33400	88.63190	0.00000	-3.82184	-0.12500	-101.75E-9	-0.0070133	140.25E-9
83	18S-01	81.61613	89.04169	0.00000	-3.60123	-0.12500	-97.850E-9	-0.0069116	138.22E-9
83	18S-01	81.89826	89.45148	0.00000	-3.39795	-0.12500	-94.113E-9	-0.0068126	136.23E-9
83	18S-01	82.18038	89.86127	0.00000	-3.21024	-0.12500	-90.534E-9	-0.0067146	134.28E-9
83	18S-01	82.46251	90.27106	0.00000	-3.03659	-0.12500	-87.112E-9	-0.0066193	132.37E-9
83	18S-01	82.74464	90.68084	0.00000	-2.87562	-0.12500	-83.841E-9	-0.0065261	130.51E-9
83	18S-01	83.02677	91.09063	0.00000	-2.72614	-0.12500	-80.717E-9	-0.0064351	128.69E-9
83	18S-01	83.30889	91.50042	0.00000	-2.58707	-0.12500	-77.734E-9	-0.0063462	126.92E-9
83	18S-01	83.59102	91.91021	0.00000	-2.45746	-0.12500	-74.889E-9	-0.0062595	125.18E-9
83	18S-01	83.87315	92.32000	0.00000	-2.33646	-0.12500	-72.176E-9	-0.0061748	123.49E-9
83	18S-01	84.15528	92.72979	0.00000	-2.22331	-0.12500	-69.589E-9	-0.0060923	121.84E-9
83	18S-01	84.43741	93.13958	0.00000	-2.11734	-0.12500	-67.125E-9	-0.0060117	120.23E-9
83	18S-01	84.71953	93.54937	0.00000	-2.01795	-0.12500	-64.777E-9	-0.0059332	118.66E-9
83	18S-01	85.00166	93.95916	0.00000	-1.92459	-0.12500	-62.541E-9	-0.0058566	117.12E-9
83	18S-01	85.28379	94.36894	0.00000	-1.83677	-0.12500	-60.412E-9	-0.0057819	115.63E-9
83	18S-01	85.56592	94.77873	0.00000	-1.75405	-0.12500	-58.384E-9	-0.0057091	114.17E-9
83	18S-01	85.84804	95.18852	0.00000	-1.67604	-0.12500	-56.454E-9	-0.0056380	112.75E-9
83	18S-01	86.13017	95.59831	0.00000	-1.60237	-0.12500	-54.616E-9	-0.0055688	111.37E-9
83	18S-01	86.41230	96.00810	0.00000	-1.53274	-0.12500	-52.866E-9	-0.0055012	110.02E-9
84	18S-02	86.41230	96.00810	0.00000	-1.53274	-0.12500	-52.866E-9	-0.0055012	110.02E-9
84	18S-02	86.82094	95.73911	0.00000	-1.53210	-0.12500	-52.071E-9	-0.0055137	110.27E-9
84	18S-02	87.22959	95.47012	0.00000	-1.53218	-0.12500	-51.390E-9	-0.0055307	110.61E-9
84	18S-02	87.63823	95.20114	0.00000	-1.53300	-0.12500	-50.823E-9	-0.0055523	111.04E-9
84	18S-02	88.04688	94.93215	0.00000	-1.53459	-0.12500	-50.372E-9	-0.0055784	111.56E-9
84	18S-02	88.45552	94.66316	0.00000	-1.53699	-0.12500	-50.035E-9	-0.0056094	112.18E-9
84	18S-02	88.86416	94.39418	0.00000	-1.54026	-0.12500	-49.813E-9	-0.0056452	112.90E-9
84	18S-02	89.27281	94.12519	0.00000	-1.54443	-0.12500	-49.708E-9	-0.0056859	113.71E-9
84	18S-02	89.68145	93.85620	0.00000	-1.54958	-0.12500	-49.721E-9	-0.0057317	114.63E-9
84	18S-02	90.09009	93.58721	0.00000	-1.55577	-0.12500	-49.853E-9	-0.0057827	115.65E-9
84	18S-02	90.49874	93.31822	0.00000	-1.56308	-0.12500	-50.108E-9	-0.0058391	116.78E-9
84	18S-02	90.90738	93.04924	0.00000	-1.57158	-0.12500	-50.486E-9	-0.0059009	118.01E-9
84	18S-02	91.31602	92.78025	0.00000	-1.58136	-0.12500	-50.992E-9	-0.0059684	119.36E-9
84	18S-02	91.72467	92.51126	0.00000	-1.59251	-0.12500	-51.629E-9	-0.0060416	120.83E-9
84	18S-02	92.13331	92.24228	0.00000	-1.60514	-0.12500	-52.402E-9	-0.0061209	122.41E-9
84	18S-02	92.54196	91.97329	0.00000	-1.61935	-0.12500	-53.314E-9	-0.0062063	124.12E-9
84	18S-02	92.95060	91.70430	0.00000	-1.63525	-0.12500	-54.372E-9	-0.0062981	125.96E-9
85	18S-03	92.95060	91.70430	0.00000	-1.63525	-0.12500	-54.372E-9	-0.0062981	125.96E-9
85	18S-03	92.75582	91.40858	0.00000	-1.67220	-0.12500	-54.797E-9	-0.0063187	126.37E-9
85	18S-03	92.56103	91.11287	0.00000	-1.71039	-0.12500	-55.223E-9	-0.0063389	126.77E-9
85	18S-03	92.36625	90.81715	0.00000	-1.74989	-0.12500	-55.651E-9	-0.0063588	127.17E-9
85	18S-03	92.17147	90.52143	0.00000	-1.79078	-0.12500	-56.081E-9	-0.0063784	127.56E-9
85	18S-03	91.97668	90.22572	0.00000	-1.83314	-0.12500	-56.513E-9	-0.0063977	127.95E-9
85	18S-03	91.78190	89.93000	0.00000	-1.87705	-0.12500	-56.948E-9	-0.0064166	128.33E-9
86	18S-04	91.78190	89.93000	0.00000	-1.87705	-0.12500	-56.948E-9	-0.0064166	128.33E-9
86	18S-04	91.41813	90.17150	0.00000	-1.86811	-0.12500	-56.170E-9	-0.0063416	126.82E-9
86	18S-04	91.05435	90.41300	0.00000	-1.86048	-0.12500	-55.518E-9	-0.0062718	125.43E-9
86	18S-04	90.69057	90.65450	0.00000	-1.85405	-0.12500	-54.990E-9	-0.0062073	124.14E-9
86	18S-04	90.32680	90.89600	0.00000	-1.84875	-0.12500	-54.581E-9	-0.0061478	122.95E-9
87	18S-05	90.32680	90.89600	0.00000	-1.84875	-0.12500	-54.581E-9	-0.0061478	122.95E-9
87	18S-05	90.05324	90.48731	0.00000	-1.91883	-0.12500	-55.395E-9	-0.0061813	123.62E-9
87	18S-05	89.77967	90.07863	0.00000	-1.99296	-0.12500	-56.226E-9	-0.0062146	124.29E-9
87	18S-05	89.50611	89.66994	0.00000	-2.07150	-0.12500	-57.077E-9	-0.0062477	124.95E-9
87	18S-05	89.23254	89.26126	0.00000	-2.15481	-0.12500	-57.947E-9	-0.0062806	125.60E-9
87	18S-05	88.95898	88.85257	0.00000	-2.24331	-0.12500	-58.837E-9	-0.0063132	126.26E-9
87	18S-05	88.68541	88.44389	0.00000	-2.33746	-0.12500	-59.747E-9	-0.0063457	126.91E-9
87	18S-05	88.41185	88.03520	0.00000	-2.43773	-0.12500	-60.677E-9	-0.0063779	127.55E-9
87	18S-05	88.13829	87.62651	0.00000	-2.54467	-0.12500	-61.629E-9	-0.0064099	128.19E-9
87	18S-05	87.86472	87.21783	0.00000	-2.65888	-0.12500	-62.601E-9	-0.0064417	128.83E-9
87	18S-05	87.59116	86.80914	0.00000	-2.78099	-0.12500	-63.595E-9	-0.0064732	129.46E-9
87	18S-05	87.31759	86.40046	0.00000	-2.91172	-0.12500	-64.610E-9	-0.0065044	130.08E-9
87	18S-05	87.04403	85.99177	0.00000	-3.05184	-0.12500	-65.646E-9	-0.0065354	130.70E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
87	18S-05	86.77046	85.58309	0.00000	-3.20218	-0.12500	-66.702E-9	-0.0065660	131.31E-9
87	18S-05	86.49690	85.17440	0.00000	-3.36368	-0.12500	-67.780E-9	-0.0065962	131.92E-9
88	20S-01	86.41230	96.00810	0.00000	-1.53274	-0.12500	-52.866E-9	-0.0055012	110.02E-9
88	20S-01	86.09843	96.21123	0.00000	-1.53409	-0.12500	-53.562E-9	-0.0054950	109.89E-9
88	20S-01	85.78457	96.41437	0.00000	-1.53585	-0.12500	-54.326E-9	-0.0054913	109.82E-9
88	20S-01	85.47070	96.61750	0.00000	-1.53801	-0.12500	-55.159E-9	-0.0054902	109.80E-9
88	20S-01	85.15683	96.82063	0.00000	-1.54057	-0.12500	-56.062E-9	-0.0054915	109.82E-9
88	20S-01	84.84297	97.02377	0.00000	-1.54353	-0.12500	-57.035E-9	-0.0054953	109.90E-9
88	20S-01	84.52910	97.22690	0.00000	-1.54690	-0.12500	-58.078E-9	-0.0055015	110.02E-9
89	20S-02	84.52910	97.22690	0.00000	-1.54690	-0.12500	-58.078E-9	-0.0055015	110.02E-9
89	20S-02	84.77199	97.59577	0.00000	-1.48489	-0.12500	-56.099E-9	-0.0054281	108.56E-9
89	20S-02	85.01487	97.96464	0.00000	-1.42574	-0.12500	-54.213E-9	-0.0053566	107.13E-9
89	20S-02	85.25776	98.33351	0.00000	-1.36927	-0.12500	-52.414E-9	-0.0052869	105.73E-9
89	20S-02	85.50064	98.70239	0.00000	-1.31534	-0.12500	-50.699E-9	-0.0052189	104.37E-9
89	20S-02	85.74353	99.07126	0.00000	-1.26379	-0.12500	-49.064E-9	-0.0051527	103.05E-9
89	20S-02	85.98641	99.44013	0.00000	-1.21449	-0.12500	-47.504E-9	-0.0050881	101.76E-9
89	20S-02	86.22930	99.80900	0.00000	-1.16731	-0.12500	-46.015E-9	-0.0050250	100.50E-9
89	20S-02	86.47219	100.17787	0.00000	-1.12213	-0.12500	-44.595E-9	-0.0049635	99.265E-9
89	20S-02	86.71507	100.54674	0.00000	-1.07885	-0.12500	-43.239E-9	-0.0049035	98.065E-9
89	20S-02	86.95796	100.91561	0.00000	-1.03737	-0.12500	-41.944E-9	-0.0048449	96.892E-9
89	20S-02	87.20084	101.28449	0.00000	-0.99758	-0.12500	-40.707E-9	-0.0047876	95.748E-9
89	20S-02	87.44373	101.65336	0.00000	-0.95941	-0.12500	-39.526E-9	-0.0047317	94.629E-9
89	20S-02	87.68661	102.02223	0.00000	-0.92276	-0.12500	-38.396E-9	-0.0046770	93.536E-9
89	20S-02	87.92950	102.39110	0.00000	-0.88756	-0.12500	-37.316E-9	-0.0046236	92.467E-9
90	20S-03	87.92950	102.39110	0.00000	-0.88756	-0.12500	-37.316E-9	-0.0046236	92.467E-9
90	20S-03	88.31205	102.13921	0.00000	-0.89087	-0.12500	-37.131E-9	-0.0046489	92.974E-9
90	20S-03	88.69459	101.88733	0.00000	-0.89474	-0.12500	-36.995E-9	-0.0046767	93.530E-9
90	20S-03	89.07714	101.63544	0.00000	-0.89918	-0.12500	-36.908E-9	-0.0047070	94.136E-9
90	20S-03	89.45968	101.38355	0.00000	-0.90423	-0.12500	-36.873E-9	-0.0047399	94.794E-9
90	20S-03	89.84223	101.13167	0.00000	-0.90990	-0.12500	-36.889E-9	-0.0047755	95.505E-9
90	20S-03	90.22477	100.87978	0.00000	-0.91622	-0.12500	-36.959E-9	-0.0048138	96.272E-9
90	20S-03	90.60732	100.62790	0.00000	-0.92323	-0.12500	-37.084E-9	-0.0048551	97.097E-9
90	20S-03	90.98986	100.37601	0.00000	-0.93094	-0.12500	-37.267E-9	-0.0048993	97.981E-9
90	20S-03	91.37241	100.12412	0.00000	-0.93940	-0.12500	-37.508E-9	-0.0049465	98.925E-9
90	20S-03	91.75495	99.87224	0.00000	-0.94864	-0.12500	-37.810E-9	-0.0049969	99.934E-9
90	20S-03	92.13750	99.62035	0.00000	-0.95870	-0.12500	-38.176E-9	-0.0050506	101.01E-9
90	20S-03	92.52005	99.36846	0.00000	-0.96961	-0.12500	-38.606E-9	-0.0051077	102.15E-9
90	20S-03	92.90259	99.11658	0.00000	-0.98142	-0.12500	-39.104E-9	-0.0051682	103.36E-9
90	20S-03	93.28514	98.86469	0.00000	-0.99418	-0.12500	-39.673E-9	-0.0052324	104.64E-9
90	20S-03	93.66768	98.61280	0.00000	-1.00793	-0.12500	-40.315E-9	-0.0053003	106.00E-9
90	20S-03	94.05023	98.36092	0.00000	-1.02273	-0.12500	-41.033E-9	-0.0053721	107.44E-9
90	20S-03	94.43277	98.10903	0.00000	-1.03862	-0.12500	-41.832E-9	-0.0054479	108.95E-9
90	20S-03	94.81532	97.85715	0.00000	-1.05568	-0.12500	-42.713E-9	-0.0055279	110.55E-9
90	20S-03	95.19786	97.60526	0.00000	-1.07395	-0.12500	-43.682E-9	-0.0056122	112.24E-9
90	20S-03	95.58041	97.35337	0.00000	-1.09350	-0.12500	-44.743E-9	-0.0057010	114.01E-9
90	20S-03	95.96295	97.10149	0.00000	-1.11441	-0.12500	-45.900E-9	-0.0057944	115.88E-9
90	20S-03	96.34550	96.84960	0.00000	-1.13674	-0.12500	-47.159E-9	-0.0058927	117.85E-9
91	20S-04	96.34550	96.84960	0.00000	-1.13674	-0.12500	-47.159E-9	-0.0058927	117.85E-9
91	20S-04	96.10331	96.48179	0.00000	-1.16563	-0.12500	-47.670E-9	-0.0059247	118.49E-9
91	20S-04	95.86113	96.11397	0.00000	-1.19532	-0.12500	-48.181E-9	-0.0059562	119.12E-9
91	20S-04	95.61894	95.74616	0.00000	-1.22585	-0.12500	-48.692E-9	-0.0059874	119.74E-9
91	20S-04	95.37676	95.37834	0.00000	-1.25728	-0.12500	-49.204E-9	-0.0060180	120.35E-9
91	20S-04	95.13457	95.01053	0.00000	-1.28966	-0.12500	-49.717E-9	-0.0060483	120.96E-9
91	20S-04	94.89239	94.64271	0.00000	-1.32305	-0.12500	-50.231E-9	-0.0060780	121.55E-9
91	20S-04	94.65020	94.27490	0.00000	-1.35752	-0.12500	-50.745E-9	-0.0061073	122.14E-9
91	20S-04	94.40801	93.90709	0.00000	-1.39313	-0.12500	-51.261E-9	-0.0061362	122.72E-9
91	20S-04	94.16583	93.53927	0.00000	-1.42996	-0.12500	-51.778E-9	-0.0061646	123.28E-9
91	20S-04	93.92364	93.17146	0.00000	-1.46810	-0.12500	-52.296E-9	-0.0061925	123.84E-9
91	20S-04	93.68146	92.80364	0.00000	-1.50763	-0.12500	-52.816E-9	-0.0062199	124.39E-9
91	20S-04	93.43927	92.43583	0.00000	-1.54865	-0.12500	-53.338E-9	-0.0062468	124.93E-9
91	20S-04	93.19709	92.06801	0.00000	-1.59126	-0.12500	-53.861E-9	-0.0062733	125.46E-9
91	20S-04	92.95490	91.70020	0.00000	-1.63556	-0.12500	-54.387E-9	-0.0062993	125.98E-9
92	20S-05	87.93150	102.38980	0.00000	-0.88758	-0.12500	-37.314E-9	-0.0046237	92.470E-9
92	20S-05	88.17202	102.75233	0.00000	-0.85426	-0.12500	-36.296E-9	-0.0045723	91.442E-9
92	20S-05	88.41253	103.11487	0.00000	-0.82222	-0.12500	-35.321E-9	-0.0045220	90.436E-9
92	20S-05	88.65305	103.47740	0.00000	-0.79139	-0.12500	-34.386E-9	-0.0044727	89.451E-9
92	20S-05	88.89357	103.83993	0.00000	-0.76171	-0.12500	-33.491E-9	-0.0044245	88.486E-9
92	20S-05	89.13408	104.20247	0.00000	-0.73312	-0.12500	-32.632E-9	-0.0043772	87.541E-9
92	20S-05	89.37460	104.56500	0.00000	-0.70559	-0.12500	-31.809E-9	-0.0043309	86.615E-9
93	20S-06	89.37460	104.56500	0.00000	-0.70559	-0.12500	-31.809E-9	-0.0043309	86.615E-9
93	20S-06	89.76970	104.33398	0.00000	-0.70900	-0.12500	-31.794E-9	-0.0043611	87.217E-9
93	20S-06	90.16481	104.10295	0.00000	-0.71295	-0.12500	-31.819E-9	-0.0043934	87.865E-9
93	20S-06	90.55991	103.87193	0.00000	-0.71747	-0.12500	-31.887E-9	-0.0044282	88.559E-9
93	20S-06	90.95502	103.64091	0.00000	-0.72257	-0.12500	-31.999E-9	-0.0044653	89.302E-9
93	20S-06	91.35012	103.40989	0.00000	-0.72828	-0.12500	-32.155E-9	-0.0045049	90.094E-9
93	20S-06	91.74523	103.17886	0.00000	-0.73462	-0.12500	-32.358E-9	-0.0045471	90.938E-9
93	20S-06	92.14033	102.94784	0.00000	-0.74162	-0.12500	-32.608E-9	-0.0045919	91.835E-9
93	20S-06	92.53544	102.71682	0.00000	-0.74931	-0.12500	-32.907E-9	-0.0046395	92.786E-9
93	20S-06	92.93054	102.48580	0.00000	-0.75772	-0.12500	-33.258E-9	-0.0046899	93.794E-9
93	20S-06	93.32565	102.25477	0.00000	-0.76689	-0.12500	-33.661E-9	-0.0047432	94.860E-9
93	20S-06	93.72075	102.02375	0.00000	-0.77683	-0.12500	-34.118E-9	-0.0047995	95.987E-9
93	20S-06	94.11585	101.79273	0.00000	-0.78760	-0.12500	-34.633E-9	-0.0048590	97.175E-9
93	20S-06	94.51096	101.56170	0.00000	-0.79922	-0.12500	-35.206E-9	-0.0049216	98.428E-9
93	20S-06	94.90606	101.33068	0.00000	-0.81174	-0.12500	-35.841E-9	-0.0049876	99.748E-9
93	20S-06	95.30117	101.09966	0.00000	-0.82520	-0.12500	-36.540E-9	-0.0050570	101.14E-9
93	20S-06	95.69627	100.86864	0.00000	-0.83964	-0.12500	-37.306E-9	-0.0051300	102.60E-9
93	20S-06	96.09138	100.63761	0.00000	-0.85510	-0.12500	-38.142E-9	-0.0052066	104.13E-9
93	20S-06	96.48648	100.40659	0.00000	-0.87164	-0.12500	-39.051E-9	-0.0052871	105.74E-9
93	20S-06	96.88159	100.17557	0.00000	-0.88931	-0.12500	-40.037E-9	-0.0053715	107.43E-9
93	20S-06	97.27669	99.94455	0.00000	-0.90815	-0.12500	-41.103E-9	-0.0054600	109.20E-9
93	20S-06	97.67180	99.71352	0.00000	-0.92823	-0.12500	-42.253E-9	-0.0055528	111.05E-9
93	20S-06	98.06690	99.48250	0.00000	-0.94961	-0.12500	-43.493E-9	-0.0056500	112.99E-9
94	20S-07	98.06690	99.48250	0.00000	-0.94961	-0.12500	-43.493E-9	-0.0056500	112.99E-9
94	20S-07	97.85066	99.15409	0.00000	-0.97126	-0.12500	-43.947E-9	-0.0056811	113.62E-9
94	20S-07	97.63443	98.82568	0.00000	-0.99335	-0.12500	-44.401E-9	-0.0057120	114.23E-9
94	20S-07	97.41819	98.49726	0.00000	-1.01589	-0.12500	-44.855E-9	-0.0057425	114.84E-9
94	20S-07	97.20195	98.16885	0.00000	-1.03892	-0.12500	-45.309E-9	-0.0057727	115.45E-9
94	20S-07	96.98571	97.84044	0.00000	-1.06244	-0.12500	-45.764E-9	-0.0058027	116.05E-9
94	20S-07	96.76947	97.51202	0.00000	-1.08648	-0.12500	-46.219E-9	-0.0058322	116.64E-9
94	20S-07	96.55324	97.18361	0.00000	-1.11107	-0.12500	-46.675E-9	-0.0058615	117.22E-9
94	20S-07	96.33700	96.85520	0.00000	-1.13623	-0.12500	-47.130E-9	-0.0058904	117.80E-9
95	HT-01	89.37270	104.57010	0.00000	-0.70534	-0.12500	-31.803E-9	-0.0043303	86.602E-9
95	HT-01	89.13047	104.71325	0.00000	-0.70342	-0.12500	-31.830E-9	-0.0043127	86.251E-9
95	HT-01	88.88825	104.85640	0.00000	-0.70169	-0.12500	-31.871E-9	-0.0042960	85.916E-9
95	HT-01	88.64603	104.99955	0.00000	-0.70014	-0.12500	-31.928E-9	-0.0042800	85.596E-9
95	HT-01	88.40380	105.14270	0.00000	-0.69878	-0.12500	-31.998E-9	-0.0042648	85.292E-9
96	HT-02	88.40380	105.14270	0.00000	-0.69878	-0.12500	-31.998E-9	-0.0042648	85.292E-9
96	HT-02	88.64137	105.55530	0.00000	-0.66888	-0.12500	-31.056E-9	-0.0042105	84.207E-9
96	HT-02	88.87894	105.96789	0.00000	-0.64013	-0.12500	-30.154E-9	-0.0041573	83.143E-9
96	HT-02	89.11652	106.38049	0.00000	-0.61249	-0.12500	-29.291E-9	-0.0041052	82.101E-9
96	HT-02	89.35409	106.79309	0.00000	-0.58590	-0.12500	-28.462E-9	-0.0040541	81.079E-9
96	HT-02	89.59166	107.20569	0.00000	-0.56031	-0.12500	-27.668E-9	-0.0040040	80.077E-9
96	HT-02	89.82923	107.61828	0.00000	-0.53568	-0.12500	-26.907E-9	-0.0039549	79.094E-9
96	HT-02	90.06681	108.03088	0.00000	-0.51195	-0.12500	-26.175E-9	-0.0039066	78.129E-9
96	HT-02	90.30438	108.44348	0.00000	-0.48911	-0.12500	-25.473E-9	-0.0038592	77.182E-9
96	HT-02	90.54195	108.85608	0.00000	-0.46709	-0.12500	-24.798E-9	-0.0038127	76.252E-9
96	HT-02	90.77952	109.26867	0.00000	-0.44587	-0.12500	-24.149E-9	-0.0037670	75.338E-9
96	HT-02	91.01709	109.68127	0.00000	-0.42541	-0.12500	-23.524E-9	-0.0037221	74.440E-9
96	HT-02	91.25467	110.09387	0.00000	-0.40569	-0.12500	-22.923E-9	-0.0036780	73.558E-9
96	HT-02	91.49224	110.50646	0.00000	-0.38666	-0.12500	-22.344E-9	-0.0036346	72.690E-9
96	HT-02	91.72981	110.91906	0.00000	-0.36830	-0.12500	-21.786E-9	-0.0035919	71.836E-9
96	HT-02	91.96738	111.33166	0.00000	-0.35058	-0.12500	-21.248E-9	-0.0035499	70.996E-9
96	HT-02	92.20496	111.74426	0.00000	-0.33348	-0.12500	-20.730E-9	-0.0035086	70.170E-9
96	HT-02	92.44253	112.15685	0.00000	-0.31696	-0.12500	-20.229E-9	-0.0034679	69.356E-9
96	HT-02	92.68010	112.56945	0.00000	-0.30101	-0.12500	-19.745E-9	-0.0034278	68.554E-9
96	HT-02	92.91767	112.98205	0.00000	-0.28561	-0.12500	-19.278E-9	-0.0033884	67.765E-9
96	HT-02	93.15524	113.39464	0.00000	-0.27073	-0.12500	-18.826E-9	-0.0033495	66.987E-9
96	HT-02	93.39282	113.80724	0.00000	-0.25635	-0.12500	-18.389E-9	-0.0033112	66.221E-9
96	HT-02	93.63039	114.21984	0.00000	-0.24245	-0.12500	-17.965E-9	-0.0032734	65.465E-9
96	HT-02	93.86796	114.63244	0.00000	-0.22901	-0.12500	-17.556E-9	-0.0032361	64.721E-9
96	HT-02	94.10553	115.04503	0.00000	-0.21602	-0.12500	-17.159E-9	-0.0031994	63.986E-9
96	HT-02	94.34311	115.45763	0.00000	-0.20347	-0.12500	-16.774E-9	-0.0031632	63.261E-9
96	HT-02	94.58068	115.87023	0.00000	-0.19132	-0.12500	-16.401E-9	-0.0031274	62.546E-9
96	HT-02	94.81825	116.28283	0.00000	-0.17957	-0.12500	-16.039E-9	-0.0030921	61.840E-9
96	HT-02	95.05582	116.69542	0.00000	-0.16821	-0.12500	-15.687E-9	-0.0030573	61.144E-9
96	HT-02	95.29339	117.10802	0.00000	-0.15722	-0.12500	-15.346E-9	-0.0030229	60.456E-9
96	HT-02	95.53097	117.52062	0.00000	-0.14658	-0.12500	-15.014E-9	-0.0029890	59.778E-9
96	HT-02	95.76854	117.93321	0.00000	-0.13629	-0.12500	-14.692E-9	-0.0029554	59.107E-9
96	HT-02	96.00611	118.34581	0.00000	-0.12633	-0.12500	-14.378E-9	-0.0029223	58.445E-9
96	HT-02	96.24368	118.75841	0.00000	-0.11669	-0.12500	-14.073E-9	-0.0028896	57.791E-9
96	HT-02	96.48126	119.17101	0.00000	-0.10736	-0.12500	-13.776E-9	-0.0028573	57.145E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
96	HT-02	96.71883	119.58360	0.00000	-0.09832	-0.12500	-13.487E-9	-0.0028254	56.506E-9
96	HT-02	96.95640	119.99620	0.00000	-0.08958	-0.12500	-13.206E-9	-0.0027938	55.875E-9
97	HT-03	96.95640	119.99620	0.00000	-0.08958	-0.12500	-13.206E-9	-0.0027938	55.875E-9
97	HT-03	97.37429	119.75529	0.00000	-0.09363	-0.12500	-13.436E-9	-0.0028286	56.570E-9
97	HT-03	97.79217	119.51438	0.00000	-0.09790	-0.12500	-13.678E-9	-0.0028644	57.286E-9
97	HT-03	98.21006	119.27347	0.00000	-0.10240	-0.12500	-13.934E-9	-0.0029013	58.025E-9
97	HT-03	98.62795	119.03256	0.00000	-0.10715	-0.12500	-14.203E-9	-0.0029394	58.786E-9
97	HT-03	99.04583	118.79165	0.00000	-0.11215	-0.12500	-14.488E-9	-0.0029787	59.572E-9
97	HT-03	99.46372	118.55075	0.00000	-0.11741	-0.12500	-14.787E-9	-0.0030192	60.382E-9
97	HT-03	99.88160	118.30984	0.00000	-0.12295	-0.12500	-15.103E-9	-0.0030610	61.217E-9
97	HT-03	100.29949	118.06893	0.00000	-0.12878	-0.12500	-15.435E-9	-0.0031040	62.079E-9
97	HT-03	100.71738	117.82802	0.00000	-0.13491	-0.12500	-15.784E-9	-0.0031485	62.968E-9
97	HT-03	101.13526	117.58711	0.00000	-0.14134	-0.12500	-16.152E-9	-0.0031944	63.885E-9
97	HT-03	101.55315	117.34620	0.00000	-0.14810	-0.12500	-16.539E-9	-0.0032417	64.832E-9
97	HT-03	101.97104	117.10529	0.00000	-0.15519	-0.12500	-16.946E-9	-0.0032905	65.808E-9
97	HT-03	102.38892	116.86438	0.00000	-0.16262	-0.12500	-17.373E-9	-0.0033409	66.815E-9
97	HT-03	102.80681	116.62347	0.00000	-0.17041	-0.12500	-17.823E-9	-0.0033928	67.854E-9
97	HT-03	103.22470	116.38256	0.00000	-0.17858	-0.12500	-18.296E-9	-0.0034464	68.927E-9
97	HT-03	103.64258	116.14165	0.00000	-0.18713	-0.12500	-18.792E-9	-0.0035018	70.033E-9
97	HT-03	104.06047	115.90075	0.00000	-0.19608	-0.12500	-19.314E-9	-0.0035589	71.175E-9
97	HT-03	104.47835	115.65984	0.00000	-0.20544	-0.12500	-19.862E-9	-0.0036178	72.354E-9
97	HT-03	104.89624	115.41893	0.00000	-0.21523	-0.12500	-20.437E-9	-0.0036786	73.570E-9
97	HT-03	105.31413	115.17802	0.00000	-0.22547	-0.12500	-21.042E-9	-0.0037414	74.825E-9
97	HT-03	105.73201	114.93711	0.00000	-0.23616	-0.12500	-21.676E-9	-0.0038062	76.121E-9
97	HT-03	106.14990	114.69620	0.00000	-0.24733	-0.12500	-22.342E-9	-0.0038730	77.458E-9
98	HT-04	106.14990	114.69620	0.00000	-0.24733	-0.12500	-22.342E-9	-0.0038730	77.458E-9
98	HT-04	105.91119	114.28331	0.00000	-0.25957	-0.12500	-22.784E-9	-0.0039173	78.344E-9
98	HT-04	105.67248	113.87042	0.00000	-0.27211	-0.12500	-23.232E-9	-0.0039618	79.234E-9
98	HT-04	105.43377	113.45753	0.00000	-0.28495	-0.12500	-23.686E-9	-0.0040066	80.129E-9
98	HT-04	105.19507	113.04464	0.00000	-0.29809	-0.12500	-24.146E-9	-0.0040515	81.028E-9
98	HT-04	104.95636	112.63176	0.00000	-0.31153	-0.12500	-24.613E-9	-0.0040967	81.930E-9
98	HT-04	104.71765	112.21887	0.00000	-0.32530	-0.12500	-25.086E-9	-0.0041420	82.837E-9
98	HT-04	104.47894	111.80598	0.00000	-0.33938	-0.12500	-25.566E-9	-0.0041875	83.747E-9
98	HT-04	104.24023	111.39309	0.00000	-0.35379	-0.12500	-26.051E-9	-0.0042332	84.660E-9
98	HT-04	104.00153	110.98020	0.00000	-0.36853	-0.12500	-26.543E-9	-0.0042790	85.576E-9
98	HT-04	103.76282	110.56731	0.00000	-0.38360	-0.12500	-27.041E-9	-0.0043249	86.495E-9
98	HT-04	103.52411	110.15442	0.00000	-0.39902	-0.12500	-27.544E-9	-0.0043710	87.416E-9
98	HT-04	103.28540	109.74153	0.00000	-0.41478	-0.12500	-28.054E-9	-0.0044171	88.339E-9
98	HT-04	103.04669	109.32864	0.00000	-0.43090	-0.12500	-28.569E-9	-0.0044634	89.265E-9
98	HT-04	102.80798	108.91576	0.00000	-0.44738	-0.12500	-29.091E-9	-0.0045097	90.191E-9
98	HT-04	102.56928	108.50287	0.00000	-0.46423	-0.12500	-29.618E-9	-0.0045562	91.120E-9
98	HT-04	102.33057	108.08998	0.00000	-0.48145	-0.12500	-30.150E-9	-0.0046026	92.049E-9
98	HT-04	102.09186	107.67709	0.00000	-0.49905	-0.12500	-30.688E-9	-0.0046491	92.978E-9
98	HT-04	101.85315	107.26420	0.00000	-0.51703	-0.12500	-31.232E-9	-0.0046956	93.909E-9
98	HT-04	101.61444	106.85131	0.00000	-0.53542	-0.12500	-31.781E-9	-0.0047421	94.839E-9
98	HT-04	101.37573	106.43842	0.00000	-0.55421	-0.12500	-32.335E-9	-0.0047886	95.769E-9
98	HT-04	101.13702	106.02553	0.00000	-0.57341	-0.12500	-32.893E-9	-0.0048351	96.698E-9
98	HT-04	100.89832	105.61264	0.00000	-0.59303	-0.12500	-33.457E-9	-0.0048815	97.626E-9
98	HT-04	100.65961	105.19976	0.00000	-0.61308	-0.12500	-34.026E-9	-0.0049278	98.553E-9
98	HT-04	100.42090	104.78687	0.00000	-0.63357	-0.12500	-34.599E-9	-0.0049741	99.478E-9
98	HT-04	100.18219	104.37398	0.00000	-0.65451	-0.12500	-35.177E-9	-0.0050203	100.40E-9
98	HT-04	99.94348	103.96109	0.00000	-0.67592	-0.12500	-35.759E-9	-0.0050663	101.32E-9
98	HT-04	99.70477	103.54820	0.00000	-0.69780	-0.12500	-36.345E-9	-0.0051122	102.24E-9
98	HT-04	99.46607	103.13531	0.00000	-0.72017	-0.12500	-36.936E-9	-0.0051580	103.15E-9
98	HT-04	99.22736	102.72242	0.00000	-0.74303	-0.12500	-37.530E-9	-0.0052035	104.07E-9
98	HT-04	98.98865	102.30953	0.00000	-0.76642	-0.12500	-38.128E-9	-0.0052489	104.97E-9
98	HT-04	98.74994	101.89664	0.00000	-0.79034	-0.12500	-38.730E-9	-0.0052941	105.88E-9
98	HT-04	98.51123	101.48376	0.00000	-0.81480	-0.12500	-39.335E-9	-0.0053390	106.78E-9
98	HT-04	98.27253	101.07087	0.00000	-0.83984	-0.12500	-39.943E-9	-0.0053837	107.67E-9
98	HT-04	98.03382	100.65798	0.00000	-0.86547	-0.12500	-40.554E-9	-0.0054281	108.56E-9
98	HT-04	97.79511	100.24509	0.00000	-0.89170	-0.12500	-41.169E-9	-0.0054722	109.44E-9
98	HT-04	97.55640	99.83220	0.00000	-0.91858	-0.12500	-41.786E-9	-0.0055160	110.31E-9
99	22S-01	111.36030	124.06920	0.00000	-0.11827	-0.083333	-4.1303E-9	-0.0019579	39.157E-9
99	22S-01	111.81115	123.91236	0.00000	-0.12219	-0.083333	-4.2244E-9	-0.0019831	39.662E-9
99	22S-01	112.26200	123.75551	0.00000	-0.12621	-0.083333	-4.3216E-9	-0.0020089	40.177E-9
99	22S-01	112.71285	123.59867	0.00000	-0.13034	-0.083333	-4.4221E-9	-0.0020351	40.702E-9
99	22S-01	113.16370	123.44183	0.00000	-0.13458	-0.083333	-4.5257E-9	-0.0020619	41.238E-9
99	22S-01	113.61455	123.28499	0.00000	-0.13893	-0.083333	-4.6327E-9	-0.0020892	41.784E-9
99	22S-01	114.06540	123.12814	0.00000	-0.14339	-0.083333	-4.7432E-9	-0.0021171	42.342E-9
99	22S-01	114.51625	122.97130	0.00000	-0.14796	-0.083333	-4.8571E-9	-0.0021455	42.910E-9
99	22S-01	114.96710	122.81446	0.00000	-0.15264	-0.083333	-4.9746E-9	-0.0021745	43.490E-9
99	22S-01	115.41795	122.65761	0.00000	-0.15743	-0.083333	-5.0957E-9	-0.0022040	44.080E-9
99	22S-01	115.86880	122.50077	0.00000	-0.16233	-0.083333	-5.2207E-9	-0.0022342	44.682E-9
99	22S-01	116.31965	122.34393	0.00000	-0.16735	-0.083333	-5.3495E-9	-0.0022648	45.296E-9
99	22S-01	116.77050	122.18709	0.00000	-0.17248	-0.083333	-5.4822E-9	-0.0022961	45.921E-9
99	22S-01	117.22135	122.03024	0.00000	-0.17772	-0.083333	-5.6189E-9	-0.0023279	46.558E-9
99	22S-01	117.67220	121.87340	0.00000	-0.18307	-0.083333	-5.7598E-9	-0.0023604	47.207E-9
100	22S-02	117.67220	121.87340	0.00000	-0.18307	-0.083333	-5.7598E-9	-0.0023604	47.207E-9
100	22S-02	117.50862	121.40396	0.00000	-0.19238	-0.083333	-5.9395E-9	-0.0024030	48.060E-9
100	22S-02	117.34504	120.93452	0.00000	-0.20198	-0.083333	-6.1252E-9	-0.0024465	48.930E-9
100	22S-02	117.18146	120.46507	0.00000	-0.21188	-0.083333	-6.3172E-9	-0.0024909	49.817E-9
100	22S-02	117.01788	119.99563	0.00000	-0.22210	-0.083333	-6.5157E-9	-0.0025361	50.721E-9
100	22S-02	116.85430	119.52619	0.00000	-0.23265	-0.083333	-6.7208E-9	-0.0025822	51.644E-9
100	22S-02	116.69073	119.05675	0.00000	-0.24352	-0.083333	-6.9329E-9	-0.0026293	52.584E-9
100	22S-02	116.52715	118.58731	0.00000	-0.25474	-0.083333	-7.1521E-9	-0.0026772	53.543E-9
100	22S-02	116.36357	118.11787	0.00000	-0.26631	-0.083333	-7.3787E-9	-0.0027261	54.521E-9
100	22S-02	116.19999	117.64843	0.00000	-0.27823	-0.083333	-7.6129E-9	-0.0027759	55.517E-9
100	22S-02	116.03641	117.17898	0.00000	-0.29053	-0.083333	-7.8550E-9	-0.0028267	56.533E-9
100	22S-02	115.87283	116.70954	0.00000	-0.30321	-0.083333	-8.1053E-9	-0.0028785	57.568E-9
100	22S-02	115.70925	116.24010	0.00000	-0.31627	-0.083333	-8.3639E-9	-0.0029312	58.624E-9
100	22S-02	115.54567	115.77066	0.00000	-0.32973	-0.083333	-8.6313E-9	-0.0029850	59.699E-9
100	22S-02	115.38209	115.30122	0.00000	-0.34361	-0.083333	-8.9077E-9	-0.0030398	60.795E-9
100	22S-02	115.21851	114.83178	0.00000	-0.35790	-0.083333	-9.1934E-9	-0.0030956	61.912E-9
100	22S-02	115.05493	114.36233	0.00000	-0.37263	-0.083333	-9.4887E-9	-0.0031525	63.049E-9
100	22S-02	114.89135	113.89289	0.00000	-0.38780	-0.083333	-9.7938E-9	-0.0032105	64.209E-9
100	22S-02	114.72778	113.42345	0.00000	-0.40342	-0.083333	-10.109E-9	-0.0032695	65.389E-9
100	22S-02	114.56420	112.95401	0.00000	-0.41951	-0.083333	-10.435E-9	-0.0033297	66.592E-9
100	22S-02	114.40062	112.48457	0.00000	-0.43607	-0.083333	-10.772E-9	-0.0033909	67.817E-9
100	22S-02	114.23704	112.01513	0.00000	-0.45312	-0.083333	-11.120E-9	-0.0034533	69.064E-9
100	22S-02	114.07346	111.54568	0.00000	-0.47067	-0.083333	-11.480E-9	-0.0035168	70.334E-9
100	22S-02	113.90988	111.07624	0.00000	-0.48874	-0.083333	-11.851E-9	-0.0035814	71.627E-9
100	22S-02	113.74630	110.60680	0.00000	-0.50733	-0.083333	-12.235E-9	-0.0036472	72.943E-9
101	22S-03	113.74630	110.60680	0.00000	-0.50733	-0.083333	-12.235E-9	-0.0036472	72.943E-9
101	22S-03	113.29409	110.76428	0.00000	-0.49400	-0.083333	-11.833E-9	-0.0035800	71.599E-9
101	22S-03	112.84187	110.92176	0.00000	-0.48102	-0.083333	-11.448E-9	-0.0035146	70.291E-9
101	22S-03	112.38966	111.07924	0.00000	-0.46839	-0.083333	-11.078E-9	-0.0034510	69.019E-9
101	22S-03	111.93744	111.23671	0.00000	-0.45609	-0.083333	-10.723E-9	-0.0033891	67.780E-9
101	22S-03	111.48523	111.39419	0.00000	-0.44413	-0.083333	-10.383E-9	-0.0033288	66.575E-9
101	22S-03	111.03301	111.55167	0.00000	-0.43251	-0.083333	-10.057E-9	-0.0032702	65.402E-9
101	22S-03	110.58080	111.70915	0.00000	-0.42122	-0.083333	-9.7444E-9	-0.0032132	64.262E-9
101	22S-03	110.12859	111.86663	0.00000	-0.41026	-0.083333	-9.4449E-9	-0.0031577	63.153E-9
101	22S-03	109.67637	112.02411	0.00000	-0.39962	-0.083333	-9.1578E-9	-0.0031038	62.074E-9
101	22S-03	109.22416	112.18159	0.00000	-0.38930	-0.083333	-8.8829E-9	-0.0030513	61.026E-9
101	22S-03	108.77194	112.33906	0.00000	-0.37930	-0.083333	-8.6195E-9	-0.0030004	60.006E-9
101	22S-03	108.31973	112.49654	0.00000	-0.36961	-0.083333	-8.3674E-9	-0.0029508	59.016E-9
101	22S-03	107.86751	112.65402	0.00000	-0.36023	-0.083333	-8.1261E-9	-0.0029027	58.053E-9
101	22S-03	107.41530	112.81150	0.00000	-0.35115	-0.083333	-7.8952E-9	-0.0028560	57.118E-9
102	22S-04	107.41530	112.81150	0.00000	-0.35115	-0.083333	-7.8952E-9	-0.0028560	57.118E-9
102	22S-04	107.57968	113.28057	0.00000	-0.33807	-0.083333	-7.6862E-9	-0.0028121	56.240E-9
102	22S-04	107.74405	113.74964	0.00000	-0.32532	-0.083333	-7.4824E-9	-0.0027687	55.374E-9
102	22S-04	107.90842	114.21871	0.00000	-0.31292	-0.083333	-7.2838E-9	-0.0027260	54.518E-9
102	22S-04	108.07280	114.68778	0.00000	-0.30084	-0.083333	-7.0902E-9	-0.0026838	53.675E-9
102	22S-04	108.23718	115.15685	0.00000	-0.28907	-0.083333	-6.9016E-9	-0.0026422	52.843E-9
102	22S-04	108.40155	115.62592	0.00000	-0.27763	-0.083333	-6.7178E-9	-0.0026011	52.022E-9
102	22S-04	108.56592	116.09500	0.00000	-0.26649	-0.083333	-6.5388E-9	-0.0025607	51.213E-9
102	22S-04	108.73030	116.56407	0.00000	-0.25565	-0.083333	-6.3645E-9	-0.0025208	50.415E-9
102	22S-04	108.89468	117.03314	0.00000	-0.24511	-0.083333	-6.1948E-9	-0.0024815	49.629E-9
102	22S-04	109.05905	117.50221	0.00000	-0.23485	-0.083333	-6.0295E-9	-0.0024427	48.854E-9
102	22S-04	109.22342	117.97128	0.00000	-0.22488	-0.083333	-5.8685E-9	-0.0024046	48.090E-9
102	22S-04	109.38780	118.44035	0.00000	-0.21518	-0.083333	-5.7119E-9	-0.0023669	47.338E-9
102	22S-04	109.55218	118.90942	0.00000	-0.20576	-0.083333	-5.5593E-9	-0.0023299	46.597E-9
102	22S-04	109.71655	119.37849	0.00000	-0.19660	-0.083333	-5.4109E-9	-0.0022934	45.867E-9
102	22S-04	109.88092	119.84756	0.00000	-0.18770	-0.083333	-5.2665E-9	-0.0022574	45.148E-9
102	22S-04	110.04530	120.31663	0.00000	-0.17905	-0.083333	-5.1259E-9	-0.0022220	44.440E-9
102	22S-04	110.20968	120.78570	0.00000	-0.17064	-0.083333	-4.9891E-9	-0.0021871	43.742E-9
102	22S-04	110.37405	121.25477	0.00000	-0.16248	-0.083333	-4.8560E-9	-0.0021528	43.056E-9
102	22S-04	110.53842	121.72385	0.00000	-0.15456	-0.083333	-4.7266E-9	-0.0021190	42.380E-9
102	22S-04	110.70280	122.19292	0.00000	-0.14686	-0.083333	-4.6006E-9	-0.0020858	41.715E-9
102	22S-04	110.86718	122.66199	0.00000	-0.13939	-0.083333	-4.4781E-9	-0.0020530	41.060E-9
102	22S-04	111.03155	123.13106	0.00000	-0.13214	-0.083333	-4.3589E-9	-0.0020208	40.416E-9
102	22S-04	111.19593	123.60013	0.00000	-0.12510	-0.083333	-4.2430E-9	-0.0019891	39.781E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
102	22S-04	111.36030	124.06920	0.00000	-0.11827	-0.083333	-4.1303E-9	-0.0019579	39.157E-9
103	23K-01	126.87040	106.75440	0.00000	-0.98378	-0.083333	-32.126E-9	-0.0062676	125.35E-9
103	23K-01	126.41078	106.91251	0.00000	-0.96154	-0.083333	-30.956E-9	-0.0061377	122.75E-9
103	23K-01	125.95115	107.07062	0.00000	-0.93961	-0.083333	-29.829E-9	-0.0060106	120.21E-9
103	23K-01	125.49153	107.22872	0.00000	-0.91798	-0.083333	-28.745E-9	-0.0058862	117.72E-9
103	23K-01	125.03190	107.38683	0.00000	-0.89667	-0.083333	-27.702E-9	-0.0057647	115.29E-9
103	23K-01	124.57228	107.54494	0.00000	-0.87567	-0.083333	-26.698E-9	-0.0056458	112.91E-9
103	23K-01	124.11265	107.70305	0.00000	-0.85499	-0.083333	-25.731E-9	-0.0055297	110.59E-9
103	23K-01	123.65302	107.86116	0.00000	-0.83464	-0.083333	-24.802E-9	-0.0054161	108.32E-9
103	23K-01	123.19340	108.01927	0.00000	-0.81461	-0.083333	-23.908E-9	-0.0053052	106.10E-9
103	23K-01	122.73378	108.17738	0.00000	-0.79491	-0.083333	-23.048E-9	-0.0051969	103.93E-9
103	23K-01	122.27415	108.33548	0.00000	-0.77554	-0.083333	-22.221E-9	-0.0050911	101.82E-9
103	23K-01	121.81453	108.49359	0.00000	-0.75651	-0.083333	-21.426E-9	-0.0049877	99.752E-9
103	23K-01	121.35490	108.65170	0.00000	-0.73781	-0.083333	-20.661E-9	-0.0048868	97.734E-9
104	23K-02	121.35490	108.65170	0.00000	-0.73781	-0.083333	-20.661E-9	-0.0048868	97.734E-9
104	23K-02	121.51257	109.10856	0.00000	-0.71074	-0.083333	-19.880E-9	-0.0047808	95.613E-9
104	23K-02	121.67024	109.56541	0.00000	-0.68452	-0.083333	-19.132E-9	-0.0046773	93.543E-9
104	23K-02	121.82791	110.02227	0.00000	-0.65913	-0.083333	-18.413E-9	-0.0045763	91.523E-9
104	23K-02	121.98558	110.47912	0.00000	-0.63454	-0.083333	-17.725E-9	-0.0044777	89.552E-9
104	23K-02	122.14325	110.93597	0.00000	-0.61073	-0.083333	-17.064E-9	-0.0043815	87.629E-9
104	23K-02	122.30092	111.39283	0.00000	-0.58766	-0.083333	-16.431E-9	-0.0042877	85.752E-9
104	23K-02	122.45859	111.84969	0.00000	-0.56533	-0.083333	-15.823E-9	-0.0041961	83.920E-9
104	23K-02	122.61626	112.30654	0.00000	-0.54370	-0.083333	-15.240E-9	-0.0041067	82.133E-9
104	23K-02	122.77393	112.76340	0.00000	-0.52276	-0.083333	-14.681E-9	-0.0040195	80.389E-9
104	23K-02	122.93160	113.22025	0.00000	-0.50249	-0.083333	-14.144E-9	-0.0039344	78.687E-9
104	23K-02	123.08927	113.67710	0.00000	-0.48285	-0.083333	-13.629E-9	-0.0038514	77.026E-9
104	23K-02	123.24694	114.13396	0.00000	-0.46385	-0.083333	-13.134E-9	-0.0037703	75.405E-9
104	23K-02	123.40461	114.59081	0.00000	-0.44545	-0.083333	-12.660E-9	-0.0036913	73.824E-9
104	23K-02	123.56228	115.04767	0.00000	-0.42763	-0.083333	-12.204E-9	-0.0036141	72.280E-9
104	23K-02	123.71995	115.50453	0.00000	-0.41039	-0.083333	-11.766E-9	-0.0035388	70.774E-9
104	23K-02	123.87762	115.96138	0.00000	-0.39370	-0.083333	-11.346E-9	-0.0034652	69.304E-9
104	23K-02	124.03529	116.41823	0.00000	-0.37754	-0.083333	-10.942E-9	-0.0033935	67.869E-9
104	23K-02	124.19296	116.87509	0.00000	-0.36190	-0.083333	-10.555E-9	-0.0033235	66.468E-9
104	23K-02	124.35063	117.33194	0.00000	-0.34677	-0.083333	-10.182E-9	-0.0032551	65.102E-9
104	23K-02	124.50830	117.78880	0.00000	-0.33212	-0.083333	-9.8246E-9	-0.0031884	63.767E-9
105	23K-03	124.50830	117.78880	0.00000	-0.33212	-0.083333	-9.8246E-9	-0.0031884	63.767E-9
105	23K-03	124.97028	117.63206	0.00000	-0.34053	-0.083333	-10.097E-9	-0.0032376	64.750E-9
105	23K-03	125.43227	117.47532	0.00000	-0.34906	-0.083333	-10.377E-9	-0.0032875	65.748E-9
105	23K-03	125.89425	117.31857	0.00000	-0.35771	-0.083333	-10.664E-9	-0.0033382	66.762E-9
105	23K-03	126.35623	117.16183	0.00000	-0.36649	-0.083333	-10.960E-9	-0.0033896	67.792E-9
105	23K-03	126.81822	117.00509	0.00000	-0.37538	-0.083333	-11.263E-9	-0.0034419	68.837E-9
105	23K-03	127.28020	116.84835	0.00000	-0.38439	-0.083333	-11.575E-9	-0.0034949	69.897E-9
105	23K-03	127.74218	116.69161	0.00000	-0.39352	-0.083333	-11.895E-9	-0.0035487	70.973E-9
105	23K-03	128.20417	116.53487	0.00000	-0.40276	-0.083333	-12.223E-9	-0.0036033	72.065E-9
105	23K-03	128.66615	116.37812	0.00000	-0.41212	-0.083333	-12.560E-9	-0.0036586	73.171E-9
105	23K-03	129.12813	116.22138	0.00000	-0.42158	-0.083333	-12.906E-9	-0.0037147	74.293E-9
105	23K-03	129.59012	116.06464	0.00000	-0.43115	-0.083333	-13.260E-9	-0.0037716	75.430E-9
105	23K-03	130.05210	115.90790	0.00000	-0.44082	-0.083333	-13.624E-9	-0.0038293	76.581E-9
106	23K-04	130.24640	116.47000	0.00000	-0.41818	-0.083333	-12.965E-9	-0.0037208	74.415E-9
106	23K-04	130.65443	116.32850	0.00000	-0.42651	-0.083333	-13.275E-9	-0.0037705	75.409E-9
106	23K-04	131.06247	116.18700	0.00000	-0.43492	-0.083333	-13.593E-9	-0.0038208	76.413E-9
106	23K-04	131.47050	116.04550	0.00000	-0.44340	-0.083333	-13.917E-9	-0.0038715	77.429E-9
106	23K-04	131.87853	115.90400	0.00000	-0.45196	-0.083333	-14.247E-9	-0.0039228	78.454E-9
106	23K-04	132.28657	115.76250	0.00000	-0.46058	-0.083333	-14.585E-9	-0.0039746	79.491E-9
106	23K-04	132.69460	115.62100	0.00000	-0.46928	-0.083333	-14.929E-9	-0.0040269	80.537E-9
106	23K-04	133.10263	115.47950	0.00000	-0.47804	-0.083333	-15.281E-9	-0.0040798	81.593E-9
106	23K-04	133.51067	115.33800	0.00000	-0.48686	-0.083333	-15.639E-9	-0.0041331	82.659E-9
106	23K-04	133.91870	115.19650	0.00000	-0.49575	-0.083333	-16.004E-9	-0.0041868	83.735E-9
106	23K-04	134.32673	115.05500	0.00000	-0.50469	-0.083333	-16.377E-9	-0.0042411	84.819E-9
106	23K-04	134.73477	114.91350	0.00000	-0.51370	-0.083333	-16.756E-9	-0.0042958	85.913E-9
106	23K-04	135.14280	114.77200	0.00000	-0.52275	-0.083333	-17.142E-9	-0.0043509	87.016E-9
107	23K-05	135.32920	115.30920	0.00000	-0.49701	-0.083333	-16.271E-9	-0.0042214	84.426E-9
107	23K-05	135.76587	115.15775	0.00000	-0.50629	-0.083333	-16.663E-9	-0.0042780	85.557E-9
107	23K-05	136.20253	115.00630	0.00000	-0.51561	-0.083333	-17.063E-9	-0.0043349	86.696E-9
107	23K-05	136.63920	114.85485	0.00000	-0.52499	-0.083333	-17.469E-9	-0.0043922	87.842E-9
107	23K-05	137.07587	114.70340	0.00000	-0.53442	-0.083333	-17.883E-9	-0.0044499	88.996E-9
107	23K-05	137.51253	114.55195	0.00000	-0.54388	-0.083333	-18.303E-9	-0.0045080	90.157E-9
107	23K-05	137.94920	114.40050	0.00000	-0.55339	-0.083333	-18.731E-9	-0.0045663	91.324E-9
107	23K-05	138.38587	114.24905	0.00000	-0.56292	-0.083333	-19.165E-9	-0.0046250	92.498E-9
107	23K-05	138.82253	114.09760	0.00000	-0.57249	-0.083333	-19.606E-9	-0.0046839	93.676E-9
107	23K-05	139.25920	113.94615	0.00000	-0.58209	-0.083333	-20.054E-9	-0.0047431	94.859E-9
107	23K-05	139.69587	113.79470	0.00000	-0.59171	-0.083333	-20.508E-9	-0.0048025	96.047E-9
107	23K-05	140.13253	113.64325	0.00000	-0.60135	-0.083333	-20.969E-9	-0.0048620	97.238E-9
107	23K-05	140.56920	113.49180	0.00000	-0.61101	-0.083333	-21.436E-9	-0.0049217	98.431E-9
108	23K-06	140.75790	114.06100	0.00000	-0.57894	-0.083333	-20.174E-9	-0.0047516	95.030E-9
108	23K-06	141.17871	113.91508	0.00000	-0.58776	-0.083333	-20.593E-9	-0.0048060	96.117E-9
108	23K-06	141.59952	113.76917	0.00000	-0.59659	-0.083333	-21.017E-9	-0.0048604	97.205E-9
108	23K-06	142.02033	113.62325	0.00000	-0.60541	-0.083333	-21.445E-9	-0.0049148	98.293E-9
108	23K-06	142.44113	113.47733	0.00000	-0.61424	-0.083333	-21.878E-9	-0.0049692	99.381E-9
108	23K-06	142.86194	113.33142	0.00000	-0.62305	-0.083333	-22.315E-9	-0.0050235	100.47E-9
108	23K-06	143.28275	113.18550	0.00000	-0.63186	-0.083333	-22.756E-9	-0.0050778	101.55E-9
108	23K-06	143.70356	113.03958	0.00000	-0.64065	-0.083333	-23.200E-9	-0.0051319	102.63E-9
108	23K-06	144.12437	112.89367	0.00000	-0.64942	-0.083333	-23.648E-9	-0.0051859	103.71E-9
108	23K-06	144.54518	112.74775	0.00000	-0.65817	-0.083333	-24.099E-9	-0.0052396	104.79E-9
108	23K-06	144.96598	112.60183	0.00000	-0.66690	-0.083333	-24.552E-9	-0.0052932	105.86E-9
108	23K-06	145.38679	112.45592	0.00000	-0.67559	-0.083333	-25.008E-9	-0.0053465	106.93E-9
108	23K-06	145.80760	112.31000	0.00000	-0.68424	-0.083333	-25.467E-9	-0.0053994	107.99E-9
109	23K-07	145.92710	112.67510	0.00000	-0.66079	-0.083333	-24.420E-9	-0.0052696	105.39E-9
109	23K-07	146.36303	112.52428	0.00000	-0.66937	-0.083333	-24.869E-9	-0.0053219	106.43E-9
109	23K-07	146.79897	112.37345	0.00000	-0.67791	-0.083333	-25.319E-9	-0.0053736	107.47E-9
109	23K-07	147.23490	112.22262	0.00000	-0.68639	-0.083333	-25.770E-9	-0.0054250	108.50E-9
109	23K-07	147.67083	112.07180	0.00000	-0.69482	-0.083333	-26.222E-9	-0.0054758	109.51E-9
109	23K-07	148.10677	111.92097	0.00000	-0.70318	-0.083333	-26.674E-9	-0.0055260	110.52E-9
109	23K-07	148.54270	111.77015	0.00000	-0.71147	-0.083333	-27.125E-9	-0.0055756	111.51E-9
109	23K-07	148.97863	111.61933	0.00000	-0.71968	-0.083333	-27.576E-9	-0.0056246	112.49E-9
109	23K-07	149.41457	111.46850	0.00000	-0.72782	-0.083333	-28.025E-9	-0.0056729	113.45E-9
109	23K-07	149.85050	111.31767	0.00000	-0.73587	-0.083333	-28.473E-9	-0.0057204	114.40E-9
109	23K-07	150.28643	111.16685	0.00000	-0.74383	-0.083333	-28.918E-9	-0.0057671	115.34E-9
109	23K-07	150.72237	111.01602	0.00000	-0.75169	-0.083333	-29.360E-9	-0.0058129	116.26E-9
109	23K-07	151.15830	110.86520	0.00000	-0.75945	-0.083333	-29.799E-9	-0.0058579	117.15E-9
110	23K-08	151.15830	110.86520	0.00000	-0.75945	-0.083333	-29.799E-9	-0.0058579	117.15E-9
110	23K-08	150.99728	110.39977	0.00000	-0.79429	-0.083333	-31.573E-9	-0.0060571	121.14E-9
110	23K-08	150.83625	109.93434	0.00000	-0.83058	-0.083333	-33.474E-9	-0.0062655	125.31E-9
110	23K-08	150.67523	109.46891	0.00000	-0.86839	-0.083333	-35.514E-9	-0.0064834	129.66E-9
110	23K-08	150.51420	109.00348	0.00000	-0.90779	-0.083333	-37.704E-9	-0.0067114	134.22E-9
110	23K-08	150.35317	108.53805	0.00000	-0.94885	-0.083333	-40.056E-9	-0.0069502	139.00E-9
110	23K-08	150.19215	108.07262	0.00000	-0.99163	-0.083333	-42.587E-9	-0.0072003	144.00E-9
110	23K-08	150.03113	107.60719	0.00000	-1.03622	-0.083333	-45.310E-9	-0.0074625	149.24E-9
110	23K-08	149.87010	107.14176	0.00000	-1.08270	-0.083333	-48.244E-9	-0.0077375	154.74E-9
110	23K-08	149.70908	106.67633	0.00000	-1.13115	-0.083333	-51.407E-9	-0.0080259	160.51E-9
110	23K-08	149.54805	106.21090	0.00000	-1.18167	-0.083333	-54.822E-9	-0.0083288	166.57E-9
110	23K-08	149.38702	105.74547	0.00000	-1.23433	-0.083333	-58.511E-9	-0.0086469	172.93E-9
110	23K-08	149.22600	105.28004	0.00000	-1.28925	-0.083333	-62.501E-9	-0.0089813	179.62E-9
110	23K-08	149.06498	104.81461	0.00000	-1.34653	-0.083333	-66.820E-9	-0.0093329	186.65E-9
110	23K-08	148.90395	104.34918	0.00000	-1.40627	-0.083333	-71.500E-9	-0.0097030	194.05E-9
110	23K-08	148.74293	103.88375	0.00000	-1.46859	-0.083333	-76.578E-9	-0.010093	201.84E-9
110	23K-08	148.58190	103.41832	0.00000	-1.53360	-0.083333	-82.094E-9	-0.010503	210.05E-9
110	23K-08	148.42087	102.95289	0.00000	-1.60145	-0.083333	-88.092E-9	-0.010936	218.71E-9
110	23K-08	148.25985	102.48746	0.00000	-1.67226	-0.083333	-94.622E-9	-0.011393	227.85E-9
110	23K-08	148.09883	102.02203	0.00000	-1.74617	-0.083333	-101.74E-9	-0.011875	237.49E-9
110	23K-08	147.93780	101.55660	0.00000	-1.82333	-0.083333	-109.51E-9	-0.012385	247.68E-9
111	23K-09	147.93780	101.55660	0.00000	-1.82333	-0.083333	-109.51E-9	-0.012385	247.68E-9
111	23K-09	147.50289	101.71037	0.00000	-1.80173	-0.083333	-106.88E-9	-0.012224	244.47E-9
111	23K-09	147.06798	101.86415	0.00000	-1.78000	-0.083333	-104.26E-9	-0.012062	241.23E-9
111	23K-09	146.63308	102.01793	0.00000	-1.75813	-0.083333	-101.68E-9	-0.011900	237.98E-9
111	23K-09	146.19817	102.17170	0.00000	-1.73615	-0.083333	-99.111E-9	-0.011736	234.71E-9
111	23K-09	145.76326	102.32547	0.00000	-1.71407	-0.083333	-96.575E-9	-0.011572	231.42E-9
111	23K-09	145.32835	102.47925	0.00000	-1.69190	-0.083333	-94.069E-9	-0.011407	228.13E-9
111	23K-09	144.89344	102.63303	0.00000	-1.66966	-0.083333	-91.595E-9	-0.011242	224.83E-9
111	23K-09	144.45853	102.78680	0.00000	-1.64735	-0.083333	-89.154E-9	-0.011077	221.53E-9
111	23K-09	144.02362	102.94057	0.00000	-1.62499	-0.083333	-86.748E-9	-0.010912	218.23E-9
111	23K-09	143.58872	103.09435	0.00000	-1.60259	-0.083333	-84.379E-9	-0.010747	214.93E-9
111	23K-09	143.15381	103.24813	0.00000	-1.58017	-0.083333	-82.048E-9	-0.010582	211.63E-9
111	23K-09	142.71890	103.40190	0.00000	-1.55772	-0.083333	-79.756E-9	-0.010418	208.35E-9
112	23K-10	137.49760	104.66790	0.00000	-1.36026	-0.083333	-60.153E-9	-0.0089127	178.25E-9
112	23K-10	137.91837	104.52185	0.00000	-1.38225	-0.083333	-62.018E-9	-0.0090662	181.32E-9
112	23K-10	138.33915	104.37580	0.00000	-1.40432	-0.083333	-63.929E-9	-0.0092214	184.42E-9
112	23K-10	138.75993	104.22975	0.00000	-1.42646	-0.083333	-65.886E-9	-0.0093780	187.55E-9
112	23K-10	139.18070	104.08370	0.00000	-1.44868	-0.083333	-67.890E-9	-0.0095361	190.71E-9
112	23K-10	139.60147	103.93765	0.00000	-1.47095	-0.083333	-69.939E-9	-0.0096955	193.90E-9
112	23K-10	140.02225	103.79160	0.00000	-1.49328	-0.083333	-72.034E-9	-0.0098562	197.12E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
112	23K-10	140.44303	103.64555	0.00000	-1.51564	-0.083333	-74.175E-9	-0.010018	200.35E-9
112	23K-10	140.86380	103.49950	0.00000	-1.53804	-0.083333	-76.361E-9	-0.010181	203.61E-9
112	23K-10	141.28457	103.35345	0.00000	-1.56047	-0.083333	-78.591E-9	-0.010345	206.89E-9
112	23K-10	141.70535	103.20740	0.00000	-1.58291	-0.083333	-80.865E-9	-0.010510	210.19E-9
112	23K-10	142.12613	103.06135	0.00000	-1.60536	-0.083333	-83.182E-9	-0.010676	213.51E-9
112	23K-10	142.54690	102.91530	0.00000	-1.62781	-0.083333	-85.541E-9	-0.010842	216.84E-9
113	23K-11	142.54690	102.91530	0.00000	-1.62781	-0.083333	-85.541E-9	-0.010842	216.84E-9
113	23K-11	142.70055	103.35893	0.00000	-1.56379	-0.083333	-80.244E-9	-0.010454	209.08E-9
113	23K-11	142.85419	103.80255	0.00000	-1.50223	-0.083333	-75.334E-9	-0.010084	201.68E-9
113	23K-11	143.00784	104.24618	0.00000	-1.44303	-0.083333	-70.778E-9	-0.0097311	194.61E-9
113	23K-11	143.16148	104.68981	0.00000	-1.38611	-0.083333	-66.546E-9	-0.0093938	187.87E-9
113	23K-11	143.31513	105.13344	0.00000	-1.33135	-0.083333	-62.612E-9	-0.0090715	181.42E-9
113	23K-11	143.46877	105.57706	0.00000	-1.27869	-0.083333	-58.952E-9	-0.0087635	175.26E-9
113	23K-11	143.62242	106.02069	0.00000	-1.22802	-0.083333	-55.543E-9	-0.0084690	169.37E-9
113	23K-11	143.77606	106.46432	0.00000	-1.17927	-0.083333	-52.366E-9	-0.0081872	163.74E-9
113	23K-11	143.92971	106.90795	0.00000	-1.13236	-0.083333	-49.403E-9	-0.0079175	158.34E-9
113	23K-11	144.08335	107.35157	0.00000	-1.08723	-0.083333	-46.637E-9	-0.0076592	153.18E-9
113	23K-11	144.23700	107.79520	0.00000	-1.04379	-0.083333	-44.053E-9	-0.0074118	148.23E-9
113	23K-11	144.39065	108.23883	0.00000	-1.00198	-0.083333	-41.637E-9	-0.0071747	143.49E-9
113	23K-11	144.54429	108.68245	0.00000	-0.96174	-0.083333	-39.377E-9	-0.0069474	138.94E-9
113	23K-11	144.69794	109.12608	0.00000	-0.92301	-0.083333	-37.261E-9	-0.0067294	134.58E-9
113	23K-11	144.85158	109.56971	0.00000	-0.88572	-0.083333	-35.278E-9	-0.0065202	130.40E-9
113	23K-11	145.00523	110.01334	0.00000	-0.84982	-0.083333	-33.420E-9	-0.0063194	126.38E-9
113	23K-11	145.15887	110.45696	0.00000	-0.81526	-0.083333	-31.676E-9	-0.0061266	122.53E-9
113	23K-11	145.31252	110.90059	0.00000	-0.78199	-0.083333	-30.040E-9	-0.0059414	118.82E-9
113	23K-11	145.46616	111.34422	0.00000	-0.74995	-0.083333	-28.502E-9	-0.0057635	115.27E-9
113	23K-11	145.61981	111.78785	0.00000	-0.71910	-0.083333	-27.057E-9	-0.0055924	111.84E-9
113	23K-11	145.77345	112.23147	0.00000	-0.68940	-0.083333	-25.698E-9	-0.0054279	108.55E-9
113	23K-11	145.92710	112.67510	0.00000	-0.66079	-0.083333	-24.420E-9	-0.0052696	105.39E-9
114	23K-12	140.75790	114.06100	0.00000	-0.57894	-0.083333	-20.174E-9	-0.0047516	95.030E-9
114	23K-12	140.60286	113.61431	0.00000	-0.60397	-0.083333	-21.155E-9	-0.0048843	97.683E-9
114	23K-12	140.44782	113.16762	0.00000	-0.62993	-0.083333	-22.192E-9	-0.0050217	100.43E-9
114	23K-12	140.29278	112.72093	0.00000	-0.65686	-0.083333	-23.290E-9	-0.0051641	103.28E-9
114	23K-12	140.13774	112.27424	0.00000	-0.68480	-0.083333	-24.452E-9	-0.0053118	106.23E-9
114	23K-12	139.98270	111.82755	0.00000	-0.71379	-0.083333	-25.683E-9	-0.0054649	109.29E-9
114	23K-12	139.82765	111.38085	0.00000	-0.74386	-0.083333	-26.988E-9	-0.0056237	112.47E-9
114	23K-12	139.67261	110.93416	0.00000	-0.77506	-0.083333	-28.371E-9	-0.0057885	115.77E-9
114	23K-12	139.51757	110.48747	0.00000	-0.80744	-0.083333	-29.838E-9	-0.0059595	119.19E-9
114	23K-12	139.36253	110.04078	0.00000	-0.84104	-0.083333	-31.395E-9	-0.0061370	122.74E-9
114	23K-12	139.20749	109.59409	0.00000	-0.87590	-0.083333	-33.048E-9	-0.0063213	126.42E-9
114	23K-12	139.05245	109.14740	0.00000	-0.91207	-0.083333	-34.804E-9	-0.0065128	130.25E-9
114	23K-12	138.89741	108.70071	0.00000	-0.94961	-0.083333	-36.672E-9	-0.0067118	134.23E-9
114	23K-12	138.74237	108.25402	0.00000	-0.98858	-0.083333	-38.658E-9	-0.0069186	138.37E-9
114	23K-12	138.58733	107.80733	0.00000	-1.02902	-0.083333	-40.771E-9	-0.0071336	142.67E-9
114	23K-12	138.43229	107.36064	0.00000	-1.07099	-0.083333	-43.022E-9	-0.0073572	147.14E-9
114	23K-12	138.27725	106.91395	0.00000	-1.11457	-0.083333	-45.421E-9	-0.0075898	151.79E-9
114	23K-12	138.12220	106.46725	0.00000	-1.15980	-0.083333	-47.978E-9	-0.0078318	156.63E-9
114	23K-12	137.96716	106.02056	0.00000	-1.20675	-0.083333	-50.706E-9	-0.0080838	161.67E-9
114	23K-12	137.81212	105.57387	0.00000	-1.25553	-0.083333	-53.618E-9	-0.0083463	166.92E-9
114	23K-12	137.65708	105.12718	0.00000	-1.30616	-0.083333	-56.730E-9	-0.0086196	172.39E-9
114	23K-12	137.50204	104.68049	0.00000	-1.35875	-0.083333	-60.056E-9	-0.0089045	178.08E-9
114	23K-12	137.34700	104.23380	0.00000	-1.41336	-0.083333	-63.613E-9	-0.0092014	184.02E-9
115	23K-13	137.34700	104.23380	0.00000	-1.41336	-0.083333	-63.613E-9	-0.0092014	184.02E-9
115	23K-13	136.91272	104.38802	0.00000	-1.38934	-0.083333	-61.560E-9	-0.0090339	180.67E-9
115	23K-13	136.47843	104.54223	0.00000	-1.36544	-0.083333	-59.564E-9	-0.0088686	177.36E-9
115	23K-13	136.04415	104.69645	0.00000	-1.34167	-0.083333	-57.623E-9	-0.0087053	174.10E-9
115	23K-13	135.60987	104.85067	0.00000	-1.31805	-0.083333	-55.738E-9	-0.0085444	170.88E-9
115	23K-13	135.17558	105.00488	0.00000	-1.29457	-0.083333	-53.907E-9	-0.0083856	167.71E-9
115	23K-13	134.74130	105.15910	0.00000	-1.27126	-0.083333	-52.130E-9	-0.0082292	164.58E-9
115	23K-13	134.30702	105.31332	0.00000	-1.24810	-0.083333	-50.406E-9	-0.0080750	161.49E-9
115	23K-13	133.87273	105.46753	0.00000	-1.22512	-0.083333	-48.734E-9	-0.0079232	158.46E-9
115	23K-13	133.43845	105.62175	0.00000	-1.20231	-0.083333	-47.113E-9	-0.0077738	155.47E-9
115	23K-13	133.00417	105.77597	0.00000	-1.17969	-0.083333	-45.542E-9	-0.0076268	152.53E-9
115	23K-13	132.56988	105.93018	0.00000	-1.15725	-0.083333	-44.020E-9	-0.0074822	149.64E-9
115	23K-13	132.13560	106.08440	0.00000	-1.13501	-0.083333	-42.546E-9	-0.0073399	146.79E-9
116	23K-14	127.09450	107.39930	0.00000	-0.93201	-0.083333	-30.143E-9	-0.0060441	120.88E-9
116	23K-14	127.50351	107.25771	0.00000	-0.95098	-0.083333	-31.135E-9	-0.0061557	123.11E-9
116	23K-14	127.91252	107.11612	0.00000	-0.97016	-0.083333	-32.160E-9	-0.0062693	125.38E-9
116	23K-14	128.32153	106.97452	0.00000	-0.98955	-0.083333	-33.218E-9	-0.0063850	127.70E-9
116	23K-14	128.73053	106.83293	0.00000	-1.00916	-0.083333	-34.312E-9	-0.0065029	130.05E-9
116	23K-14	129.13954	106.69134	0.00000	-1.02898	-0.083333	-35.442E-9	-0.0066229	132.45E-9
116	23K-14	129.54855	106.54975	0.00000	-1.04899	-0.083333	-36.608E-9	-0.0067450	134.90E-9
116	23K-14	129.95756	106.40816	0.00000	-1.06921	-0.083333	-37.812E-9	-0.0068693	137.38E-9
116	23K-14	130.36657	106.26657	0.00000	-1.08963	-0.083333	-39.054E-9	-0.0069958	139.91E-9
116	23K-14	130.77558	106.12497	0.00000	-1.11023	-0.083333	-40.336E-9	-0.0071245	142.49E-9
116	23K-14	131.18458	105.98338	0.00000	-1.13102	-0.083333	-41.659E-9	-0.0072553	145.10E-9
116	23K-14	131.59359	105.84179	0.00000	-1.15200	-0.083333	-43.023E-9	-0.0073884	147.76E-9
116	23K-14	132.00260	105.70020	0.00000	-1.17315	-0.083333	-44.430E-9	-0.0075236	150.47E-9
117	23K-15	132.00260	105.70020	0.00000	-1.17315	-0.083333	-44.430E-9	-0.0075236	150.47E-9
117	23K-15	132.15381	106.13697	0.00000	-1.12988	-0.083333	-42.295E-9	-0.0073152	146.30E-9
117	23K-15	132.30502	106.57375	0.00000	-1.08811	-0.083333	-40.278E-9	-0.0071139	142.27E-9
117	23K-15	132.45623	107.01052	0.00000	-1.04779	-0.083333	-38.371E-9	-0.0069194	138.38E-9
117	23K-15	132.60744	107.44729	0.00000	-1.00885	-0.083333	-36.568E-9	-0.0067315	134.62E-9
117	23K-15	132.75865	107.88406	0.00000	-0.97125	-0.083333	-34.861E-9	-0.0065498	130.99E-9
117	23K-15	132.90985	108.32084	0.00000	-0.93495	-0.083333	-33.246E-9	-0.0063741	127.48E-9
117	23K-15	133.06106	108.75761	0.00000	-0.89989	-0.083333	-31.717E-9	-0.0062042	124.08E-9
117	23K-15	133.21227	109.19438	0.00000	-0.86603	-0.083333	-30.268E-9	-0.0060399	120.80E-9
117	23K-15	133.36348	109.63115	0.00000	-0.83333	-0.083333	-28.896E-9	-0.0058810	117.62E-9
117	23K-15	133.51469	110.06793	0.00000	-0.80175	-0.083333	-27.595E-9	-0.0057272	114.54E-9
117	23K-15	133.66590	110.50470	0.00000	-0.77124	-0.083333	-26.361E-9	-0.0055785	111.57E-9
117	23K-15	133.81711	110.94147	0.00000	-0.74178	-0.083333	-25.190E-9	-0.0054344	108.69E-9
117	23K-15	133.96832	111.37825	0.00000	-0.71332	-0.083333	-24.080E-9	-0.0052950	105.90E-9
117	23K-15	134.11953	111.81502	0.00000	-0.68583	-0.083333	-23.025E-9	-0.0051600	103.20E-9
117	23K-15	134.27074	112.25179	0.00000	-0.65927	-0.083333	-22.024E-9	-0.0050293	100.58E-9
117	23K-15	134.42195	112.68856	0.00000	-0.63362	-0.083333	-21.073E-9	-0.0049027	98.052E-9
117	23K-15	134.57315	113.12534	0.00000	-0.60884	-0.083333	-20.169E-9	-0.0047801	95.599E-9
117	23K-15	134.72436	113.56211	0.00000	-0.58490	-0.083333	-19.310E-9	-0.0046613	93.223E-9
117	23K-15	134.87557	113.99888	0.00000	-0.56178	-0.083333	-18.492E-9	-0.0045461	90.920E-9
117	23K-15	135.02678	114.43565	0.00000	-0.53944	-0.083333	-17.715E-9	-0.0044345	88.688E-9
117	23K-15	135.17799	114.87243	0.00000	-0.51786	-0.083333	-16.975E-9	-0.0043263	86.524E-9
117	23K-15	135.32920	115.30920	0.00000	-0.49701	-0.083333	-16.271E-9	-0.0042214	84.426E-9
118	23K-16	130.24640	116.47000	0.00000	-0.41818	-0.083333	-12.965E-9	-0.0037208	74.415E-9
118	23K-16	130.09295	116.02838	0.00000	-0.43588	-0.083333	-13.479E-9	-0.0038056	76.110E-9
118	23K-16	129.93949	115.58676	0.00000	-0.45419	-0.083333	-14.016E-9	-0.0038927	77.851E-9
118	23K-16	129.78604	115.14515	0.00000	-0.47311	-0.083333	-14.579E-9	-0.0039822	79.642E-9
118	23K-16	129.63258	114.70353	0.00000	-0.49268	-0.083333	-15.167E-9	-0.0040742	81.483E-9
118	23K-16	129.47913	114.26191	0.00000	-0.51291	-0.083333	-15.782E-9	-0.0041689	83.376E-9
118	23K-16	129.32567	113.82029	0.00000	-0.53383	-0.083333	-16.425E-9	-0.0042662	85.322E-9
118	23K-16	129.17222	113.37867	0.00000	-0.55546	-0.083333	-17.099E-9	-0.0043663	87.324E-9
118	23K-16	129.01876	112.93705	0.00000	-0.57783	-0.083333	-17.805E-9	-0.0044692	89.383E-9
118	23K-16	128.86531	112.49544	0.00000	-0.60095	-0.083333	-18.543E-9	-0.0045751	91.501E-9
118	23K-16	128.71185	112.05382	0.00000	-0.62486	-0.083333	-19.317E-9	-0.0046841	93.679E-9
118	23K-16	128.55840	111.61220	0.00000	-0.64958	-0.083333	-20.128E-9	-0.0047961	95.920E-9
118	23K-16	128.40495	111.17058	0.00000	-0.67514	-0.083333	-20.977E-9	-0.0049115	98.227E-9
118	23K-16	128.25149	110.72896	0.00000	-0.70157	-0.083333	-21.867E-9	-0.0050301	100.60E-9
118	23K-16	128.09804	110.28735	0.00000	-0.72890	-0.083333	-22.801E-9	-0.0051522	103.04E-9
118	23K-16	127.94458	109.84573	0.00000	-0.75715	-0.083333	-23.779E-9	-0.0052779	105.56E-9
118	23K-16	127.79113	109.40411	0.00000	-0.78637	-0.083333	-24.806E-9	-0.0054073	108.14E-9
118	23K-16	127.63767	108.96249	0.00000	-0.81657	-0.083333	-25.883E-9	-0.0055404	110.81E-9
118	23K-16	127.48422	108.52087	0.00000	-0.84781	-0.083333	-27.013E-9	-0.0056775	113.55E-9
118	23K-16	127.33076	108.07925	0.00000	-0.88011	-0.083333	-28.199E-9	-0.0058186	116.37E-9
118	23K-16	127.17731	107.63764	0.00000	-0.91351	-0.083333	-29.445E-9	-0.0059639	119.27E-9
118	23K-16	127.02385	107.19602	0.00000	-0.94806	-0.083333	-30.752E-9	-0.0061136	122.27E-9
118	23K-16	126.87040	106.75440	0.00000	-0.98378	-0.083333	-32.126E-9	-0.0062676	125.35E-9
119	23K-17	150.73130	109.63110	0.00000	-0.85504	-0.083333	-34.787E-9	-0.0064063	128.12E-9
119	23K-17	151.15679	109.48174	0.00000	-0.86372	-0.083333	-35.324E-9	-0.0064574	129.14E-9
119	23K-17	151.58228	109.33238	0.00000	-0.87228	-0.083333	-35.856E-9	-0.0065075	130.15E-9
119	23K-17	152.00777	109.18302	0.00000	-0.88073	-0.083333	-36.384E-9	-0.0065565	131.13E-9
119	23K-17	152.43326	109.03366	0.00000	-0.88904	-0.083333	-36.907E-9	-0.0066043	132.08E-9
119	23K-17	152.85875	108.88430	0.00000	-0.89722	-0.083333	-37.424E-9	-0.0066510	133.02E-9
119	23K-17	153.28424	108.73494	0.00000	-0.90527	-0.083333	-37.934E-9	-0.0066964	133.92E-9
119	23K-17	153.70973	108.58558	0.00000	-0.91316	-0.083333	-38.437E-9	-0.0067404	134.80E-9
119	23K-17	154.13522	108.43622	0.00000	-0.92090	-0.083333	-38.931E-9	-0.0067831	135.66E-9
119	23K-17	154.56071	108.28686	0.00000	-0.92848	-0.083333	-39.417E-9	-0.0068243	136.48E-9
119	23K-17	154.98620	108.13750	0.00000	-0.93590	-0.083333	-39.893E-9	-0.0068641	137.28E-9
120	23K-18	154.98620	108.13750	0.00000	-0.93590	-0.083333	-39.893E-9	-0.0068641	137.28E-9
120	23K-18	154.84277	107.71556	0.00000	-0.97478	-0.083333	-42.233E-9	-0.0070931	141.86E-9
120	23K-18	154.69935	107.29362	0.00000	-1.01518	-0.083333	-44.740E-9	-0.0073324	146.64E-9
120	23K-18	154.55593	106.87168	0.00000	-1.05716	-0.083333	-47.427E-9	-0.0075827	151.65E-9
120	23K-18	154.41250	106.44973	0.00000	-1.10080	-0.083333	-50.310E-9	-0.0078445	156.88E-9
120	23K-18	154.26907	106.02779	0.00000	-1.14616	-0.083333	-53.407E-9	-0.0081185	162.36E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
120	23K-18	154.12565	105.60585	0.00000	-1.19331	-0.083333	-56.734E-9	-0.0084054	168.10E-9
120	23K-18	153.98222	105.18391	0.00000	-1.24233	-0.083333	-60.314E-9	-0.0087060	174.11E-9
120	23K-18	153.83880	104.76197	0.00000	-1.29330	-0.083333	-64.168E-9	-0.0090212	180.42E-9
120	23K-18	153.69537	104.34002	0.00000	-1.34631	-0.083333	-68.321E-9	-0.0093517	187.03E-9
120	23K-18	153.55195	103.91808	0.00000	-1.40144	-0.083333	-72.800E-9	-0.0096986	193.96E-9
120	23K-18	153.40852	103.49614	0.00000	-1.45878	-0.083333	-77.637E-9	-0.010063	201.25E-9
120	23K-18	153.26510	103.07420	0.00000	-1.51843	-0.083333	-82.864E-9	-0.010446	208.90E-9
121	23K-19	153.26510	103.07420	0.00000	-1.51843	-0.083333	-82.864E-9	-0.010446	208.90E-9
121	23K-19	152.83663	103.22379	0.00000	-1.50532	-0.083333	-81.545E-9	-0.010363	207.25E-9
121	23K-19	152.40816	103.37338	0.00000	-1.49196	-0.083333	-80.211E-9	-0.010278	205.55E-9
121	23K-19	151.97969	103.52297	0.00000	-1.47837	-0.083333	-78.864E-9	-0.010191	203.81E-9
121	23K-19	151.55122	103.67256	0.00000	-1.46455	-0.083333	-77.505E-9	-0.010101	202.02E-9
121	23K-19	151.12275	103.82215	0.00000	-1.45052	-0.083333	-76.138E-9	-0.010010	200.18E-9
121	23K-19	150.69428	103.97174	0.00000	-1.43629	-0.083333	-74.764E-9	-0.0099161	198.31E-9
121	23K-19	150.26581	104.12133	0.00000	-1.42187	-0.083333	-73.384E-9	-0.0098208	196.41E-9
121	23K-19	149.83734	104.27092	0.00000	-1.40728	-0.083333	-72.001E-9	-0.0097237	194.47E-9
121	23K-19	149.40887	104.42051	0.00000	-1.39252	-0.083333	-70.616E-9	-0.0096251	192.49E-9
121	23K-19	148.98040	104.57010	0.00000	-1.37760	-0.083333	-69.231E-9	-0.0095250	190.49E-9
122	23AB-01	147.70060	95.28400	0.00000	-3.25585	-0.083333	-337.30E-9	-0.023306	466.07E-9
122	23AB-01	148.10013	95.31152	0.00000	-3.24114	-0.083333	-335.31E-9	-0.023217	464.30E-9
122	23AB-01	148.49966	95.33904	0.00000	-3.22584	-0.083333	-333.14E-9	-0.023119	462.35E-9
122	23AB-01	148.89919	95.36656	0.00000	-3.20995	-0.083333	-330.80E-9	-0.023013	460.23E-9
122	23AB-01	149.29872	95.39408	0.00000	-3.19348	-0.083333	-328.30E-9	-0.022899	457.94E-9
122	23AB-01	149.69825	95.42160	0.00000	-3.17644	-0.083333	-325.63E-9	-0.022777	455.49E-9
122	23AB-01	150.09778	95.44912	0.00000	-3.15883	-0.083333	-322.81E-9	-0.022646	452.88E-9
122	23AB-01	150.49731	95.47664	0.00000	-3.14065	-0.083333	-319.84E-9	-0.022508	450.12E-9
122	23AB-01	150.89684	95.50416	0.00000	-3.12191	-0.083333	-316.72E-9	-0.022362	447.20E-9
122	23AB-01	151.29637	95.53168	0.00000	-3.10262	-0.083333	-313.47E-9	-0.022209	444.14E-9
122	23AB-01	151.69590	95.55920	0.00000	-3.08279	-0.083333	-310.08E-9	-0.022048	440.92E-9
123	23AB-02	151.69590	95.55920	0.00000	-3.08279	-0.083333	-310.08E-9	-0.022048	440.92E-9
123	23AB-02	151.68720	95.66780	0.00000	-3.05178	-0.083333	-303.49E-9	-0.021786	435.68E-9
123	23AB-02	151.67850	95.77640	0.00000	-3.02112	-0.083333	-297.06E-9	-0.021528	430.52E-9
124	23AB-03	151.67850	95.77640	0.00000	-3.02112	-0.083333	-297.06E-9	-0.021528	430.52E-9
124	23AB-03	152.15639	95.81014	0.00000	-2.99699	-0.083333	-293.01E-9	-0.021331	426.59E-9
124	23AB-03	152.63428	95.84388	0.00000	-2.97213	-0.083333	-288.80E-9	-0.021125	422.47E-9
124	23AB-03	153.11217	95.87762	0.00000	-2.94654	-0.083333	-284.43E-9	-0.020910	418.17E-9
124	23AB-03	153.59006	95.91136	0.00000	-2.92024	-0.083333	-279.92E-9	-0.020686	413.69E-9
124	23AB-03	154.06795	95.94510	0.00000	-2.89323	-0.083333	-275.26E-9	-0.020454	409.05E-9
124	23AB-03	154.54584	95.97884	0.00000	-2.86554	-0.083333	-270.47E-9	-0.020214	404.24E-9
124	23AB-03	155.02373	96.01258	0.00000	-2.83718	-0.083333	-265.55E-9	-0.019966	399.29E-9
124	23AB-03	155.50162	96.04632	0.00000	-2.80816	-0.083333	-260.53E-9	-0.019711	394.19E-9
124	23AB-03	155.97951	96.08006	0.00000	-2.77850	-0.083333	-255.39E-9	-0.019449	388.95E-9
124	23AB-03	156.45740	96.11380	0.00000	-2.74821	-0.083333	-250.15E-9	-0.019181	383.58E-9
125	23AB-04	156.45740	96.11380	0.00000	-2.74821	-0.083333	-250.15E-9	-0.019181	383.58E-9
125	23AB-04	156.48983	95.65445	0.00000	-2.86723	-0.083333	-273.12E-9	-0.020133	402.62E-9
125	23AB-04	156.52226	95.19510	0.00000	-2.99191	-0.083333	-298.72E-9	-0.021151	422.99E-9
125	23AB-04	156.55469	94.73575	0.00000	-3.12258	-0.083333	-327.33E-9	-0.022241	444.79E-9
125	23AB-04	156.58711	94.27640	0.00000	-3.25960	-0.083333	-359.37E-9	-0.023410	468.17E-9
125	23AB-04	156.61954	93.81705	0.00000	-3.40335	-0.083333	-395.35E-9	-0.024666	493.27E-9
125	23AB-04	156.65197	93.35770	0.00000	-3.55425	-0.083333	-435.86E-9	-0.026016	520.27E-9
125	23AB-04	156.68440	92.89835	0.00000	-3.71274	-0.083333	-481.61E-9	-0.027470	549.34E-9
125	23AB-04	156.71683	92.43900	0.00000	-3.87933	-0.083333	-533.40E-9	-0.029039	580.71E-9
125	23AB-04	156.74926	91.97965	0.00000	-4.05454	-0.083333	-592.24E-9	-0.030735	614.62E-9
125	23AB-04	156.78169	91.52030	0.00000	-4.23896	-0.083333	-659.30E-9	-0.032571	651.33E-9
125	23AB-04	156.81411	91.06095	0.00000	-4.43320	-0.083333	-735.99E-9	-0.034563	691.16E-9
125	23AB-04	156.84654	90.60160	0.00000	-4.63796	-0.083333	-824.03E-9	-0.036728	734.46E-9
125	23AB-04	156.87897	90.14225	0.00000	-4.85400	-0.083333	-925.49E-9	-0.039088	781.64E-9
125	23AB-04	156.91140	89.68290	0.00000	-5.08215	-0.083333	-1.0429E-6	-0.041664	833.16E-9
126	23AB-05	156.91140	89.68290	0.00000	-5.08215	-0.083333	-1.0429E-6	-0.041664	833.16E-9
126	23AB-05	157.16432	89.74025	0.00000	-5.04986	-0.083333	-1.0277E-6	-0.041245	824.78E-9
126	23AB-05	157.41725	89.71760	0.00000	-5.01740	-0.083333	-1.0125E-6	-0.040822	816.32E-9
126	23AB-05	157.67018	89.73495	0.00000	-4.98449	-0.083333	-997.10E-9	-0.040395	807.78E-9
126	23AB-05	157.92310	89.75230	0.00000	-4.95123	-0.083333	-981.66E-9	-0.039964	799.15E-9
127	23AB-06	157.92310	89.75230	0.00000	-4.95123	-0.083333	-981.66E-9	-0.039964	799.15E-9
127	23AB-06	157.95989	89.29643	0.00000	-5.18309	-0.083333	-1.1075E-6	-0.042602	851.90E-9
127	23AB-06	157.99667	88.84056	0.00000	-5.42826	-0.083333	-1.2542E-6	-0.045492	909.69E-9
127	23AB-06	158.03346	88.38469	0.00000	-5.68781	-0.083333	-1.4259E-6	-0.048667	973.18E-9
127	23AB-06	158.07024	87.92881	0.00000	-5.96289	-0.083333	-1.6281E-6	-0.052167	1.0431E-6
127	23AB-06	158.10703	87.47294	0.00000	-6.25481	-0.083333	-1.8675E-6	-0.056034	1.1205E-6
127	23AB-06	158.14381	87.01707	0.00000	-6.56503	-0.083333	-2.1527E-6	-0.060325	1.2062E-6
127	23AB-06	158.18060	86.56120	0.00000	-6.89518	-0.083333	-2.4948E-6	-0.065101	1.3017E-6
127	23AB-06	158.21739	86.10533	0.00000	-7.24709	-0.083333	-2.9083E-6	-0.070439	1.4084E-6
127	23AB-06	158.25417	85.64946	0.00000	-7.62285	-0.083333	-3.4120E-6	-0.076433	1.5282E-6
127	23AB-06	158.29096	85.19359	0.00000	-8.02483	-0.083333	-4.0311E-6	-0.083192	1.6634E-6
127	23AB-06	158.32774	84.73771	0.00000	-8.45571	-0.083333	-4.7993E-6	-0.090856	1.8166E-6
127	23AB-06	158.36453	84.28184	0.00000	-8.91861	-0.083333	-5.7627E-6	-0.099595	1.9912E-6
127	23AB-06	158.40131	83.82597	0.00000	-9.41711	-0.083333	-6.9854E-6	-0.10962	2.1916E-6
127	23AB-06	158.43810	83.37010	0.00000	-9.95535	-0.083333	-8.5579E-6	-0.12121	2.4232E-6
128	23AB-07	158.43810	83.37010	0.00000	-9.95535	-0.083333	-8.5579E-6	-0.12121	2.4232E-6
128	23AB-07	158.01966	83.33634	0.00000	-10.08330	-0.083333	-8.8814E-6	-0.12435	2.4859E-6
128	23AB-07	157.60122	83.30258	0.00000	-10.20901	-0.083333	-9.2072E-6	-0.12745	2.5479E-6
128	23AB-07	157.18277	83.26882	0.00000	-10.33250	-0.083333	-9.5359E-6	-0.13052	2.6092E-6
128	23AB-07	156.76433	83.23507	0.00000	-10.45376	-0.083333	-9.8683E-6	-0.13355	2.6698E-6
128	23AB-07	156.34589	83.20131	0.00000	-10.57281	-0.083333	-10.205E-6	-0.13655	2.7297E-6
128	23AB-07	155.92745	83.16755	0.00000	-10.68965	-0.083333	-10.547E-6	-0.13951	2.7890E-6
128	23AB-07	155.50901	83.13379	0.00000	-10.80432	-0.083333	-10.895E-6	-0.14245	2.8478E-6
128	23AB-07	155.09057	83.10003	0.00000	-10.91682	-0.083333	-11.249E-6	-0.14536	2.9059E-6
128	23AB-07	154.67212	83.06628	0.00000	-11.02718	-0.083333	-11.611E-6	-0.14825	2.9636E-6
128	23AB-07	154.25368	83.03252	0.00000	-11.13541	-0.083333	-11.982E-6	-0.15111	3.0208E-6
128	23AB-07	153.83524	82.99876	0.00000	-11.24154	-0.083333	-12.361E-6	-0.15395	3.0776E-6
128	23AB-07	153.41680	82.96500	0.00000	-11.34559	-0.083333	-12.749E-6	-0.15677	3.1339E-6
129	23AB-08	153.41680	82.96500	0.00000	-11.34559	-0.083333	-12.749E-6	-0.15677	3.1339E-6
129	23AB-08	153.40550	83.10530	0.00000	-11.14791	-0.083333	-11.905E-6	-0.15159	3.0303E-6
129	23AB-08	153.39420	83.24560	0.00000	-10.95506	-0.083333	-11.131E-6	-0.14665	2.9317E-6
130	23AB-09	153.39420	83.24560	0.00000	-10.95506	-0.083333	-11.131E-6	-0.14665	2.9317E-6
130	23AB-09	152.92588	83.21647	0.00000	-11.05252	-0.083333	-11.461E-6	-0.14921	2.9828E-6
130	23AB-09	152.45755	83.18733	0.00000	-11.14723	-0.083333	-11.797E-6	-0.15172	3.0330E-6
130	23AB-09	151.98923	83.15820	0.00000	-11.23921	-0.083333	-12.141E-6	-0.15420	3.0825E-6
130	23AB-09	151.52090	83.12907	0.00000	-11.32848	-0.083333	-12.494E-6	-0.15663	3.1312E-6
130	23AB-09	151.05258	83.09993	0.00000	-11.41504	-0.083333	-12.854E-6	-0.15903	3.1790E-6
130	23AB-09	150.58425	83.07080	0.00000	-11.49890	-0.083333	-13.224E-6	-0.16138	3.2260E-6
130	23AB-09	150.11593	83.04167	0.00000	-11.58006	-0.083333	-13.602E-6	-0.16369	3.2721E-6
130	23AB-09	149.64760	83.01253	0.00000	-11.65851	-0.083333	-13.990E-6	-0.16595	3.3172E-6
130	23AB-09	149.17928	82.98340	0.00000	-11.73422	-0.083333	-14.387E-6	-0.16815	3.3614E-6
130	23AB-09	148.71095	82.95427	0.00000	-11.80718	-0.083333	-14.794E-6	-0.17031	3.4044E-6
130	23AB-09	148.24263	82.92513	0.00000	-11.87734	-0.083333	-15.211E-6	-0.17240	3.4462E-6
130	23AB-09	147.77430	82.89600	0.00000	-11.94466	-0.083333	-15.636E-6	-0.17443	3.4867E-6
131	23AB-10	147.77430	82.89600	0.00000	-11.94466	-0.083333	-15.636E-6	-0.17443	3.4867E-6
131	23AB-10	147.74430	83.27646	0.00000	-11.38964	-0.083333	-12.873E-6	-0.15868	3.1720E-6
131	23AB-10	147.71430	83.65693	0.00000	-10.87027	-0.083333	-10.703E-6	-0.14492	2.8971E-6
131	23AB-10	147.68430	84.03739	0.00000	-10.38323	-0.083333	-8.9789E-6	-0.13283	2.6554E-6
131	23AB-10	147.65430	84.41785	0.00000	-9.92564	-0.083333	-7.5923E-6	-0.12214	2.4418E-6
131	23AB-10	147.62430	84.79831	0.00000	-9.49495	-0.083333	-6.4659E-6	-0.11264	2.2520E-6
131	23AB-10	147.59430	85.17878	0.00000	-9.08892	-0.083333	-5.5425E-6	-0.10416	2.0826E-6
131	23AB-10	147.56430	85.55924	0.00000	-8.70556	-0.083333	-4.7791E-6	-0.096567	1.9308E-6
131	23AB-10	147.53430	85.93970	0.00000	-8.34311	-0.083333	-4.1432E-6	-0.089733	1.7942E-6
132	23AB-11	147.53430	85.93970	0.00000	-8.34311	-0.083333	-4.1432E-6	-0.089733	1.7942E-6
132	23AB-11	147.99485	85.97128	0.00000	-8.29848	-0.083333	-4.0731E-6	-0.089050	1.7805E-6
132	23AB-11	148.45540	86.00285	0.00000	-8.25179	-0.083333	-4.0017E-6	-0.088314	1.7658E-6
132	23AB-11	148.91595	86.03442	0.00000	-8.20307	-0.083333	-3.9294E-6	-0.087528	1.7501E-6
132	23AB-11	149.37650	86.06600	0.00000	-8.15234	-0.083333	-3.8563E-6	-0.086696	1.7335E-6
133	23AB-12	149.37650	86.06600	0.00000	-8.15234	-0.083333	-3.8563E-6	-0.086696	1.7335E-6
133	23AB-12	149.34380	86.54298	0.00000	-7.73635	-0.083333	-3.2617E-6	-0.079455	1.5887E-6
133	23AB-12	149.31110	87.01997	0.00000	-7.34705	-0.083333	-2.7773E-6	-0.073034	1.4603E-6
133	23AB-12	149.27840	87.49695	0.00000	-6.98213	-0.083333	-2.3794E-6	-0.067315	1.3460E-6
133	23AB-12	149.24570	87.97393	0.00000	-6.63952	-0.083333	-2.0499E-6	-0.062201	1.2438E-6
133	23AB-12	149.21300	88.45092	0.00000	-6.31741	-0.083333	-1.7752E-6	-0.057612	1.1520E-6
133	23AB-12	149.18030	88.92790	0.00000	-6.01418	-0.083333	-1.5446E-6	-0.053479	1.0694E-6
134	23AB-13	149.18030	88.92790	0.00000	-6.01418	-0.083333	-1.5446E-6	-0.053479	1.0694E-6
134	23AB-13	148.92310	88.90537	0.00000	-6.03741	-0.083333	-1.5586E-6	-0.053746	1.0747E-6
134	23AB-13	148.66590	88.88285	0.00000	-6.06020	-0.083333	-1.5724E-6	-0.054004	1.0799E-6
134	23AB-13	148.40870	88.86033	0.00000	-6.08254	-0.083333	-1.5860E-6	-0.054253	1.0849E-6
134	23AB-13	148.15150	88.83780	0.00000	-6.10443	-0.083333	-1.5994E-6	-0.054492	1.0897E-6
135	23AB-14	148.15150	88.83780	0.00000	-6.10443	-0.083333	-1.5994E-6	-0.054492	1.0897E-6
135	23AB-14	148.11929	89.29824	0.00000	-5.82358	-0.083333	-1.4020E-6	-0.050780	1.0154E-6
135	23AB-14	148.08709	89.75869	0.00000	-5.55809	-0.083333	-1.2338E-6	-0.047409	948.04E-9
135	23AB-14	148.05488	90.21913	0.00000	-5.30688	-0.083333	-1.0899E-6	-0.044340	886.67E-9
135	23AB-14	148.02267	90.67957	0.00000	-5.06895	-0.083333	-966.10E-9	-0.041538	830.64E-9
135	23AB-14	147.99046	91.14001	0.00000	-4.84341	-0.083333	-859.17E-9	-0.038974	779.38E-9
135	23AB-14	147.95826	91.60046	0.00000	-4.62943	-0.083333	-766.43E-9	-0.036623	732.37E-9
135	23AB-14	147.92605	92.06090	0.00000	-4.42627	-0.083333	-685.69E-9	-0.034462	689.16E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
135	23AB-14	147.89384	92.52134	0.00000	-4.23325	-0.083333	-615.14E-9	-0.032473	649.38E-9
135	23AB-14	147.86164	92.98179	0.00000	-4.04972	-0.083333	-553.30E-9	-0.030638	612.69E-9
135	23AB-14	147.82943	93.44223	0.00000	-3.87512	-0.083333	-498.91E-9	-0.028942	578.77E-9
135	23AB-14	147.79722	93.90267	0.00000	-3.70890	-0.083333	-450.92E-9	-0.027371	547.37E-9
135	23AB-14	147.76501	94.36311	0.00000	-3.55059	-0.083333	-408.47E-9	-0.025915	518.26E-9
135	23AB-14	147.73281	94.82356	0.00000	-3.39971	-0.083333	-370.80E-9	-0.024563	491.22E-9
135	23AB-14	147.70060	95.28400	0.00000	-3.25585	-0.083333	-337.30E-9	-0.023306	466.07E-9
136	23AB-15	149.18030	88.92790	0.00000	-6.01418	-0.083333	-1.5446E-6	-0.053479	1.0694E-6
136	23AB-15	149.66150	88.97496	0.00000	-5.96651	-0.083333	-1.5157E-6	-0.052915	1.0581E-6
136	23AB-15	150.14270	89.02201	0.00000	-5.91736	-0.083333	-1.4863E-6	-0.052323	1.0463E-6
136	23AB-15	150.62390	89.06907	0.00000	-5.86676	-0.083333	-1.4564E-6	-0.051703	1.0339E-6
136	23AB-15	151.10510	89.11612	0.00000	-5.81472	-0.083333	-1.4262E-6	-0.051058	1.0210E-6
136	23AB-15	151.58630	89.16318	0.00000	-5.76127	-0.083333	-1.3956E-6	-0.050389	1.0076E-6
136	23AB-15	152.06750	89.21024	0.00000	-5.70642	-0.083333	-1.3647E-6	-0.049696	993.76E-9
136	23AB-15	152.54870	89.25729	0.00000	-5.65020	-0.083333	-1.3335E-6	-0.048981	979.47E-9
136	23AB-15	153.02990	89.30435	0.00000	-5.59262	-0.083333	-1.3021E-6	-0.048245	964.75E-9
136	23AB-15	153.51110	89.35141	0.00000	-5.53372	-0.083333	-1.2705E-6	-0.047489	949.63E-9
136	23AB-15	153.99230	89.39846	0.00000	-5.47351	-0.083333	-1.2387E-6	-0.046714	934.13E-9
136	23AB-15	154.47350	89.44552	0.00000	-5.41201	-0.083333	-1.2068E-6	-0.045920	918.27E-9
136	23AB-15	154.95470	89.49258	0.00000	-5.34925	-0.083333	-1.1746E-6	-0.045110	902.06E-9
136	23AB-15	155.43590	89.53963	0.00000	-5.28526	-0.083333	-1.1424E-6	-0.044283	885.53E-9
136	23AB-15	155.91710	89.58669	0.00000	-5.22005	-0.083333	-1.1099E-6	-0.043441	868.69E-9
136	23AB-15	156.39830	89.63374	0.00000	-5.15367	-0.083333	-1.0774E-6	-0.042585	851.57E-9
136	23AB-15	156.87950	89.68080	0.00000	-5.08614	-0.083333	-1.0448E-6	-0.041716	834.20E-9
137	28K-01	157.04370	132.95660	0.00000	-0.04300	-0.083333	-3.4184E-9	-0.0016682	33.364E-9
137	28K-01	157.45751	132.74754	0.00000	-0.04460	-0.083333	-3.4568E-9	-0.0016781	33.562E-9
137	28K-01	157.87132	132.53848	0.00000	-0.04619	-0.083333	-3.4949E-9	-0.0016879	33.758E-9
137	28K-01	158.28512	132.32941	0.00000	-0.04779	-0.083333	-3.5330E-9	-0.0016976	33.952E-9
137	28K-01	158.69893	132.12035	0.00000	-0.04937	-0.083333	-3.5708E-9	-0.0017072	34.143E-9
137	28K-01	159.11274	131.91129	0.00000	-0.05096	-0.083333	-3.6085E-9	-0.0017166	34.332E-9
137	28K-01	159.52655	131.70222	0.00000	-0.05254	-0.083333	-3.6459E-9	-0.0017260	34.519E-9
137	28K-01	159.94036	131.49316	0.00000	-0.05411	-0.083333	-3.6831E-9	-0.0017352	34.703E-9
137	28K-01	160.35417	131.28410	0.00000	-0.05567	-0.083333	-3.7200E-9	-0.0017442	34.884E-9
137	28K-01	160.76798	131.07504	0.00000	-0.05723	-0.083333	-3.7566E-9	-0.0017531	35.062E-9
137	28K-01	161.18178	130.86597	0.00000	-0.05878	-0.083333	-3.7929E-9	-0.0017619	35.237E-9
137	28K-01	161.59559	130.65691	0.00000	-0.06032	-0.083333	-3.8287E-9	-0.0017705	35.409E-9
137	28K-01	162.00940	130.44785	0.00000	-0.06185	-0.083333	-3.8643E-9	-0.0017789	35.578E-9
137	28K-01	162.42321	130.23879	0.00000	-0.06337	-0.083333	-3.8994E-9	-0.0017872	35.744E-9
137	28K-01	162.83702	130.02973	0.00000	-0.06488	-0.083333	-3.9340E-9	-0.0017953	35.906E-9
137	28K-01	163.25082	129.82066	0.00000	-0.06637	-0.083333	-3.9682E-9	-0.0018032	36.064E-9
137	28K-01	163.66463	129.61160	0.00000	-0.06785	-0.083333	-4.0019E-9	-0.0018110	36.219E-9
137	28K-01	164.07844	129.40254	0.00000	-0.06932	-0.083333	-4.0350E-9	-0.0018185	36.370E-9
137	28K-01	164.49225	129.19348	0.00000	-0.07077	-0.083333	-4.0676E-9	-0.0018259	36.517E-9
137	28K-01	164.90606	128.98441	0.00000	-0.07220	-0.083333	-4.0996E-9	-0.0018331	36.661E-9
137	28K-01	165.31987	128.77535	0.00000	-0.07362	-0.083333	-4.1310E-9	-0.0018400	36.800E-9
137	28K-01	165.73368	128.56629	0.00000	-0.07502	-0.083333	-4.1617E-9	-0.0018468	36.935E-9
137	28K-01	166.14748	128.35722	0.00000	-0.07639	-0.083333	-4.1918E-9	-0.0018533	37.065E-9
137	28K-01	166.56129	128.14816	0.00000	-0.07775	-0.083333	-4.2212E-9	-0.0018596	37.192E-9
137	28K-01	166.97510	127.93910	0.00000	-0.07909	-0.083333	-4.2498E-9	-0.0018657	37.313E-9
138	28K-02	166.97510	127.93910	0.00000	-0.07909	-0.083333	-4.2498E-9	-0.0018657	37.313E-9
138	28K-02	166.97510	127.46931	0.00000	-0.08533	-0.083333	-4.4098E-9	-0.0019056	38.111E-9
138	28K-02	166.97510	126.99953	0.00000	-0.09181	-0.083333	-4.5770E-9	-0.0019467	38.933E-9
138	28K-02	166.97510	126.52974	0.00000	-0.09854	-0.083333	-4.7520E-9	-0.0019889	39.778E-9
138	28K-02	166.97510	126.05995	0.00000	-0.10554	-0.083333	-4.9351E-9	-0.0020324	40.648E-9
138	28K-02	166.97510	125.59016	0.00000	-0.11281	-0.083333	-5.1268E-9	-0.0020772	41.544E-9
138	28K-02	166.97510	125.12037	0.00000	-0.12036	-0.083333	-5.3275E-9	-0.0021233	42.466E-9
138	28K-02	166.97510	124.65059	0.00000	-0.12821	-0.083333	-5.5378E-9	-0.0021709	43.416E-9
138	28K-02	166.97510	124.18080	0.00000	-0.13636	-0.083333	-5.7582E-9	-0.0022198	44.395E-9
139	28K-03	166.97510	124.18080	0.00000	-0.13636	-0.083333	-5.7582E-9	-0.0022198	44.395E-9
139	28K-03	166.75082	123.95688	0.00000	-0.14548	-0.083333	-6.0114E-9	-0.0022759	45.518E-9
139	28K-03	166.52654	123.29296	0.00000	-0.15498	-0.083333	-6.2782E-9	-0.0023339	46.678E-9
139	28K-03	166.30227	122.84903	0.00000	-0.16489	-0.083333	-6.5594E-9	-0.0023940	47.879E-9
139	28K-03	166.07799	122.40511	0.00000	-0.17521	-0.083333	-6.8557E-9	-0.0024561	49.121E-9
139	28K-03	165.85371	121.96119	0.00000	-0.18596	-0.083333	-7.1684E-9	-0.0025204	50.407E-9
139	28K-03	165.62943	121.51727	0.00000	-0.19716	-0.083333	-7.4983E-9	-0.0025870	51.739E-9
139	28K-03	165.40516	121.07334	0.00000	-0.20884	-0.083333	-7.8465E-9	-0.0026559	53.118E-9
139	28K-03	165.18088	120.62942	0.00000	-0.22100	-0.083333	-8.2144E-9	-0.0027274	54.547E-9
139	28K-03	164.95660	120.18550	0.00000	-0.23367	-0.083333	-8.6032E-9	-0.0028014	56.028E-9
139	28K-03	164.73232	119.74158	0.00000	-0.24687	-0.083333	-9.0142E-9	-0.0028782	57.563E-9
139	28K-03	164.50804	119.29766	0.00000	-0.26062	-0.083333	-9.4491E-9	-0.0029578	59.155E-9
139	28K-03	164.28377	118.85373	0.00000	-0.27494	-0.083333	-9.9093E-9	-0.0030404	60.807E-9
139	28K-03	164.05949	118.40981	0.00000	-0.28987	-0.083333	-10.397E-9	-0.0031261	62.521E-9
139	28K-03	163.83521	117.96589	0.00000	-0.30542	-0.083333	-10.913E-9	-0.0032151	64.300E-9
139	28K-03	163.61093	117.52197	0.00000	-0.32161	-0.083333	-11.461E-9	-0.0033075	66.148E-9
139	28K-03	163.38666	117.07804	0.00000	-0.33849	-0.083333	-12.041E-9	-0.0034035	68.068E-9
139	28K-03	163.16238	116.63412	0.00000	-0.35607	-0.083333	-12.657E-9	-0.0035032	70.062E-9
139	28K-03	162.93810	116.19020	0.00000	-0.37438	-0.083333	-13.312E-9	-0.0036069	72.136E-9
140	28K-04	162.93810	116.19020	0.00000	-0.37438	-0.083333	-13.312E-9	-0.0036069	72.136E-9
140	28K-04	162.50474	116.40034	0.00000	-0.37048	-0.083333	-13.184E-9	-0.0035904	71.807E-9
140	28K-04	162.07139	116.61048	0.00000	-0.36650	-0.083333	-13.053E-9	-0.0035733	71.464E-9
140	28K-04	161.63803	116.82061	0.00000	-0.36245	-0.083333	-12.919E-9	-0.0035555	71.108E-9
140	28K-04	161.20468	117.03075	0.00000	-0.35832	-0.083333	-12.782E-9	-0.0035370	70.739E-9
140	28K-04	160.77132	117.24089	0.00000	-0.35414	-0.083333	-12.642E-9	-0.0035179	70.357E-9
140	28K-04	160.33796	117.45103	0.00000	-0.34988	-0.083333	-12.500E-9	-0.0034983	69.964E-9
140	28K-04	159.90461	117.66116	0.00000	-0.34557	-0.083333	-12.356E-9	-0.0034780	69.559E-9
140	28K-04	159.47125	117.87130	0.00000	-0.34121	-0.083333	-12.209E-9	-0.0034572	69.142E-9
140	28K-04	159.03789	118.08144	0.00000	-0.33679	-0.083333	-12.060E-9	-0.0034358	68.715E-9
140	28K-04	158.60454	118.29158	0.00000	-0.33233	-0.083333	-11.910E-9	-0.0034140	68.278E-9
140	28K-04	158.17118	118.50171	0.00000	-0.32782	-0.083333	-11.758E-9	-0.0033917	67.832E-9
140	28K-04	157.73782	118.71185	0.00000	-0.32326	-0.083333	-11.605E-9	-0.0033688	67.376E-9
140	28K-04	157.30447	118.92199	0.00000	-0.31867	-0.083333	-11.450E-9	-0.0033456	66.911E-9
140	28K-04	156.87111	119.13213	0.00000	-0.31405	-0.083333	-11.294E-9	-0.0033219	66.437E-9
140	28K-04	156.43776	119.34226	0.00000	-0.30939	-0.083333	-11.138E-9	-0.0032979	65.956E-9
140	28K-04	156.00440	119.55240	0.00000	-0.30470	-0.083333	-10.980E-9	-0.0032734	65.467E-9
141	28K-05	156.00440	119.55240	0.00000	-0.30470	-0.083333	-10.980E-9	-0.0032734	65.467E-9
141	28K-05	156.20647	119.96402	0.00000	-0.29073	-0.083333	-10.519E-9	-0.0031926	63.851E-9
141	28K-05	156.40854	120.37564	0.00000	-0.27726	-0.083333	-10.081E-9	-0.0031144	62.288E-9
141	28K-05	156.61061	120.78726	0.00000	-0.26426	-0.083333	-9.6643E-9	-0.0030387	60.774E-9
141	28K-05	156.81268	121.19888	0.00000	-0.25173	-0.083333	-9.2678E-9	-0.0029654	59.308E-9
141	28K-05	157.01474	121.61049	0.00000	-0.23965	-0.083333	-8.8905E-9	-0.0028945	57.888E-9
141	28K-05	157.21681	122.02211	0.00000	-0.22800	-0.083333	-8.5312E-9	-0.0028257	56.513E-9
141	28K-05	157.41888	122.43373	0.00000	-0.21676	-0.083333	-8.1890E-9	-0.0027591	55.180E-9
141	28K-05	157.62095	122.84535	0.00000	-0.20593	-0.083333	-7.8630E-9	-0.0026945	53.889E-9
141	28K-05	157.82302	123.25697	0.00000	-0.19549	-0.083333	-7.5522E-9	-0.0026319	52.637E-9
141	28K-05	158.02509	123.66859	0.00000	-0.18541	-0.083333	-7.2560E-9	-0.0025712	51.423E-9
141	28K-05	158.22716	124.08021	0.00000	-0.17571	-0.083333	-6.9734E-9	-0.0025123	50.245E-9
141	28K-05	158.42923	124.49183	0.00000	-0.16635	-0.083333	-6.7038E-9	-0.0024552	49.103E-9
141	28K-05	158.63129	124.90344	0.00000	-0.15732	-0.083333	-6.4465E-9	-0.0023998	47.995E-9
141	28K-05	158.83336	125.31506	0.00000	-0.14863	-0.083333	-6.2008E-9	-0.0023460	46.920E-9
141	28K-05	159.03543	125.72668	0.00000	-0.14024	-0.083333	-5.9662E-9	-0.0022938	45.876E-9
141	28K-05	159.23750	126.13830	0.00000	-0.13216	-0.083333	-5.7421E-9	-0.0022432	44.863E-9
142	28K-06	159.23750	126.13830	0.00000	-0.13216	-0.083333	-5.7421E-9	-0.0022432	44.863E-9
142	28K-06	158.79330	126.35637	0.00000	-0.12965	-0.083333	-5.6762E-9	-0.0022298	44.595E-9
142	28K-06	158.34910	126.57444	0.00000	-0.12712	-0.083333	-5.6098E-9	-0.0022162	44.322E-9
142	28K-06	157.90490	126.79251	0.00000	-0.12458	-0.083333	-5.5428E-9	-0.0022023	44.045E-9
142	28K-06	157.46070	127.01058	0.00000	-0.12202	-0.083333	-5.4754E-9	-0.0021882	43.763E-9
142	28K-06	157.01650	127.22865	0.00000	-0.11945	-0.083333	-5.4076E-9	-0.0021739	43.477E-9
142	28K-06	156.57230	127.44672	0.00000	-0.11687	-0.083333	-5.3395E-9	-0.0021594	43.187E-9
142	28K-06	156.12810	127.66479	0.00000	-0.11428	-0.083333	-5.2711E-9	-0.0021447	42.894E-9
142	28K-06	155.68390	127.88286	0.00000	-0.11169	-0.083333	-5.2024E-9	-0.0021299	42.597E-9
142	28K-06	155.23970	128.10093	0.00000	-0.10909	-0.083333	-5.1336E-9	-0.0021148	42.296E-9
142	28K-06	154.79550	128.31900	0.00000	-0.10648	-0.083333	-5.0647E-9	-0.0020997	41.993E-9
143	28K-07	154.79550	128.31900	0.00000	-0.10648	-0.083333	-5.0647E-9	-0.0020997	41.993E-9
143	28K-07	154.98285	128.70547	0.00000	-0.10014	-0.083333	-4.8961E-9	-0.0020585	41.169E-9
143	28K-07	155.17020	129.09193	0.00000	-0.09401	-0.083333	-4.7341E-9	-0.0020184	40.367E-9
143	28K-07	155.35755	129.47840	0.00000	-0.08809	-0.083333	-4.5784E-9	-0.0019792	39.584E-9
143	28K-07	155.54490	129.86487	0.00000	-0.08236	-0.083333	-4.4287E-9	-0.0019411	38.822E-9
143	28K-07	155.73225	130.25133	0.00000	-0.07683	-0.083333	-4.2847E-9	-0.0019040	38.079E-9
143	28K-07	155.91960	130.63780	0.00000	-0.07148	-0.083333	-4.1463E-9	-0.0018677	37.354E-9
143	28K-07	156.10695	131.02427	0.00000	-0.06631	-0.083333	-4.0131E-9	-0.0018324	36.647E-9
143	28K-07	156.29430	131.41073	0.00000	-0.06132	-0.083333	-3.8849E-9	-0.0017979	35.957E-9
143	28K-07	156.48165	131.79720	0.00000	-0.05650	-0.083333	-3.7616E-9	-0.0017643	35.285E-9
143	28K-07	156.66900	132.18367	0.00000	-0.05185	-0.083333	-3.6429E-9	-0.0017315	34.629E-9
143	28K-07	156.85635	132.57013	0.00000	-0.04735	-0.083333	-3.5285E-9	-0.0016994	33.988E-9
143	28K-07	157.04370	132.95660	0.00000	-0.04300	-0.083333	-3.4184E-9	-0.0016682	33.364E-9

Results : Consolidation : Displacement Data : Lines

None

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]

Results : Total : Displacement Data : Lines

None

Results : Immediate : Displacement Data : Grids

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
1	A	0.00000	0.00000	0.00000	0.08229	-0.12500	-381.42E-12	-303.14E-6	6.0627E-9
1	A	5.09524	0.00000	0.00000	0.08616	-0.12500	-436.65E-12	-329.73E-6	6.5945E-9
1	A	10.19048	0.00000	0.00000	0.08984	-0.12500	-498.56E-12	-358.53E-6	7.1705E-9
1	A	15.28571	0.00000	0.00000	0.09323	-0.12500	-567.51E-12	-389.65E-6	7.7929E-9
1	A	20.38095	0.00000	0.00000	0.09622	-0.12500	-643.91E-12	-423.21E-6	8.4640E-9
1	A	25.47619	0.00000	0.00000	0.09873	-0.12500	-728.24E-12	-459.35E-6	9.1870E-9
1	A	30.57143	0.00000	0.00000	0.10067	-0.12500	-821.26E-12	-498.29E-6	9.9656E-9
1	A	35.66667	0.00000	0.00000	0.10201	-0.12500	-924.26E-12	-540.28E-6	10.805E-9
1	A	40.76190	0.00000	0.00000	0.10280	-0.12500	-1.0393E-9	-585.72E-6	11.714E-9
1	A	45.85714	0.00000	0.00000	0.10312	-0.12500	-1.1695E-9	-635.12E-6	12.702E-9
1	A	50.95238	0.00000	0.00000	0.10316	-0.12500	-1.3196E-9	-689.17E-6	13.783E-9
1	A	56.04762	0.00000	0.00000	0.10314	-0.12500	-1.4959E-9	-748.72E-6	14.974E-9
1	A	61.14286	0.00000	0.00000	0.10324	-0.12500	-1.7068E-9	-814.77E-6	16.295E-9
1	A	66.23810	0.00000	0.00000	0.10355	-0.12500	-1.9626E-9	-888.43E-6	17.768E-9
1	A	71.33333	0.00000	0.00000	0.10396	-0.12500	-2.2756E-9	-970.85E-6	19.417E-9
1	A	76.42857	0.00000	0.00000	0.10412	-0.12500	-2.6591E-9	-0.0010631	21.261E-9
1	A	81.52381	0.00000	0.00000	0.10347	-0.12500	-3.1270E-9	-0.0011659	23.318E-9
1	A	86.61905	0.00000	0.00000	0.10131	-0.12500	-3.6914E-9	-0.0012796	25.592E-9
1	A	91.71429	0.00000	0.00000	0.09693	-0.12500	-4.3600E-9	-0.0014038	28.075E-9
1	A	96.80952	0.00000	0.00000	0.08979	-0.12500	-5.1324E-9	-0.0015367	30.734E-9
1	A	101.90476	0.00000	0.00000	0.07966	-0.12500	-5.9949E-9	-0.0016755	33.510E-9
1	A	107.00000	0.00000	0.00000	-0.02730	-0.083333	-2.0493E-9	-0.0012105	24.209E-9
1	A	0.00000	5.00000	0.00000	0.08416	-0.12500	-447.97E-12	-327.41E-6	6.5482E-9
1	A	5.09524	5.00000	0.00000	0.08777	-0.12500	-516.87E-12	-357.56E-6	7.1511E-9
1	A	10.19048	5.00000	0.00000	0.09100	-0.12500	-594.52E-12	-390.32E-6	7.8063E-9
1	A	15.28571	5.00000	0.00000	0.09371	-0.12500	-681.26E-12	-425.80E-6	8.5159E-9
1	A	20.38095	5.00000	0.00000	0.09571	-0.12500	-777.38E-12	-464.12E-6	9.2823E-9
1	A	25.47619	5.00000	0.00000	0.09684	-0.12500	-883.23E-12	-505.42E-6	10.108E-9
1	A	30.57143	5.00000	0.00000	0.09698	-0.12500	-999.33E-12	-549.89E-6	10.998E-9
1	A	35.66667	5.00000	0.00000	0.09604	-0.12500	-1.1269E-9	-597.84E-6	11.957E-9
1	A	40.76190	5.00000	0.00000	0.09406	-0.12500	-1.2682E-9	-649.71E-6	12.994E-9
1	A	45.85714	5.00000	0.00000	0.09124	-0.12500	-1.4272E-9	-706.18E-6	14.123E-9
1	A	50.95238	5.00000	0.00000	0.08789	-0.12500	-1.6101E-9	-768.15E-6	15.363E-9
1	A	56.04762	5.00000	0.00000	0.08447	-0.12500	-1.8262E-9	-836.81E-6	16.736E-9
1	A	61.14286	5.00000	0.00000	0.08142	-0.12500	-2.0880E-9	-913.67E-6	18.273E-9
1	A	66.23810	5.00000	0.00000	0.07904	-0.12500	-2.4118E-9	-0.0010004	20.008E-9
1	A	71.33333	5.00000	0.00000	0.07728	-0.12500	-2.8176E-9	-0.0010990	21.980E-9
1	A	76.42857	5.00000	0.00000	0.07561	-0.12500	-3.3292E-9	-0.0012113	24.226E-9
1	A	81.52381	5.00000	0.00000	0.07308	-0.12500	-3.9724E-9	-0.0013390	26.780E-9
1	A	86.61905	5.00000	0.00000	0.06842	-0.12500	-4.7733E-9	-0.0014833	29.666E-9
1	A	91.71429	5.00000	0.00000	0.06035	-0.12500	-5.7535E-9	-0.0016443	32.886E-9
1	A	96.80952	5.00000	0.00000	0.04787	-0.12500	-6.9234E-9	-0.0018207	36.412E-9
1	A	101.90476	5.00000	0.00000	0.03051	-0.12500	-8.2723E-9	-0.0020088	40.175E-9
1	A	107.00000	5.00000	0.00000	-0.07995	-0.083333	-2.8910E-9	-0.0014684	29.368E-9
1	A	0.00000	10.00000	0.00000	0.08557	-0.12500	-530.39E-12	-354.45E-6	7.0890E-9
1	A	5.09524	10.00000	0.00000	0.08872	-0.12500	-617.67E-12	-388.84E-6	7.7767E-9
1	A	10.19048	10.00000	0.00000	0.09123	-0.12500	-716.74E-12	-426.35E-6	8.5269E-9
1	A	15.28571	10.00000	0.00000	0.09286	-0.12500	-827.98E-12	-467.09E-6	9.3418E-9
1	A	20.38095	10.00000	0.00000	0.09331	-0.12500	-951.43E-12	-511.16E-6	10.223E-9
1	A	25.47619	10.00000	0.00000	0.09231	-0.12500	-1.0870E-9	-558.65E-6	11.173E-9
1	A	30.57143	10.00000	0.00000	0.08959	-0.12500	-1.2347E-9	-609.73E-6	12.194E-9
1	A	35.66667	10.00000	0.00000	0.08498	-0.12500	-1.3951E-9	-664.68E-6	13.293E-9
1	A	40.76190	10.00000	0.00000	0.07849	-0.12500	-1.5704E-9	-724.00E-6	14.480E-9
1	A	45.85714	10.00000	0.00000	0.07041	-0.12500	-1.7652E-9	-788.48E-6	15.769E-9
1	A	50.95238	10.00000	0.00000	0.06132	-0.12500	-1.9875E-9	-859.31E-6	17.186E-9
1	A	56.04762	10.00000	0.00000	0.05209	-0.12500	-2.2503E-9	-938.15E-6	18.763E-9
1	A	61.14286	10.00000	0.00000	0.04372	-0.12500	-2.5723E-9	-0.0010271	20.542E-9
1	A	66.23810	10.00000	0.00000	0.03698	-0.12500	-2.9788E-9	-0.0011289	22.578E-9
1	A	71.33333	10.00000	0.00000	0.03201	-0.12500	-3.5027E-9	-0.0012465	24.929E-9
1	A	76.42857	10.00000	0.00000	0.02808	-0.12500	-4.1843E-9	-0.0013831	27.661E-9
1	A	81.52381	10.00000	0.00000	0.02349	-0.12500	-5.0715E-9	-0.0015420	30.838E-9
1	A	86.61905	10.00000	0.00000	0.01592	-0.12500	-6.2171E-9	-0.0017258	34.516E-9
1	A	91.71429	10.00000	0.00000	0.00297	-0.12500	-7.6734E-9	-0.0019364	38.727E-9
1	A	96.80952	10.00000	0.00000	-0.01728	-0.12500	-9.4806E-9	-0.0021731	43.461E-9
1	A	101.90476	10.00000	0.00000	-0.04578	-0.12500	-11.647E-9	-0.0024324	48.646E-9
1	A	107.00000	10.00000	0.00000	-0.15685	-0.083333	-4.1846E-9	-0.0018041	36.082E-9
1	A	0.00000	15.00000	0.00000	0.08640	-0.12500	-633.42E-12	-384.72E-6	7.6943E-9
1	A	5.09524	15.00000	0.00000	0.08886	-0.12500	-745.83E-12	-424.24E-6	8.4846E-9
1	A	10.19048	15.00000	0.00000	0.09030	-0.12500	-874.79E-12	-467.55E-6	9.3509E-9
1	A	15.28571	15.00000	0.00000	0.09033	-0.12500	-1.0207E-9	-514.76E-6	10.295E-9
1	A	20.38095	15.00000	0.00000	0.08849	-0.12500	-1.1832E-9	-565.91E-6	11.318E-9
1	A	25.47619	15.00000	0.00000	0.08428	-0.12500	-1.3615E-9	-621.03E-6	12.420E-9
1	A	30.57143	15.00000	0.00000	0.07719	-0.12500	-1.5543E-9	-680.16E-6	13.603E-9
1	A	35.66667	15.00000	0.00000	0.06685	-0.12500	-1.7606E-9	-743.52E-6	14.870E-9
1	A	40.76190	15.00000	0.00000	0.05311	-0.12500	-1.9816E-9	-811.55E-6	16.231E-9
1	A	45.85714	15.00000	0.00000	0.03634	-0.12500	-2.2217E-9	-885.16E-6	17.703E-9
1	A	50.95238	15.00000	0.00000	0.01750	-0.12500	-2.4909E-9	-968.83E-6	19.376E-9
1	A	56.04762	15.00000	0.00000	-0.00174	-0.12500	-2.8070E-9	-0.0010558	21.115E-9
1	A	61.14286	15.00000	0.00000	-0.01927	-0.12500	-3.1974E-9	-0.0011581	23.161E-9
1	A	66.23810	15.00000	0.00000	-0.03323	-0.12500	-3.7012E-9	-0.0012765	25.530E-9
1	A	71.33333	15.00000	0.00000	-0.04282	-0.12500	-4.3709E-9	-0.0014159	28.318E-9
1	A	76.42857	15.00000	0.00000	-0.04909	-0.12500	-5.2746E-9	-0.0015815	31.630E-9
1	A	81.52381	15.00000	0.00000	-0.05508	-0.12500	-6.4985E-9	-0.0017791	35.581E-9
1	A	86.61905	15.00000	0.00000	-0.06518	-0.12500	-8.1463E-9	-0.0020142	40.283E-9
1	A	91.71429	15.00000	0.00000	-0.08402	-0.12500	-10.335E-9	-0.0022915	45.828E-9
1	A	96.80952	15.00000	0.00000	-0.11529	-0.12500	-13.181E-9	-0.0026131	52.260E-9
1	A	101.90476	15.00000	0.00000	-0.16089	-0.12500	-16.760E-9	-0.0029767	59.531E-9
1	A	107.00000	15.00000	0.00000	-0.26805	-0.083333	-6.2371E-9	-0.0022484	44.968E-9
1	A	0.00000	20.00000	0.00000	0.08652	-0.12500	-763.27E-12	-418.78E-6	8.3754E-9
1	A	5.09524	20.00000	0.00000	0.08802	-0.12500	-910.71E-12	-464.57E-6	9.2914E-9
1	A	10.19048	20.00000	0.00000	0.08795	-0.12500	-1.0822E-9	-515.10E-6	10.302E-9
1	A	15.28571	20.00000	0.00000	0.08574	-0.12500	-1.2786E-9	-570.44E-6	11.409E-9
1	A	20.38095	20.00000	0.00000	0.08064	-0.12500	-1.4991E-9	-630.55E-6	12.611E-9
1	A	25.47619	20.00000	0.00000	0.07178	-0.12500	-1.7413E-9	-695.32E-6	13.906E-9
1	A	30.57143	20.00000	0.00000	0.05821	-0.12500	-2.0016E-9	-764.59E-6	15.292E-9
1	A	35.66667	20.00000	0.00000	0.03906	-0.12500	-2.2757E-9	-838.32E-6	16.766E-9
1	A	40.76190	20.00000	0.00000	0.01382	-0.12500	-2.5614E-9	-916.80E-6	18.336E-9
1	A	45.85714	20.00000	0.00000	-0.01730	-0.12500	-2.8611E-9	-0.0010009	20.018E-9
1	A	50.95238	20.00000	0.00000	-0.05281	-0.12500	-3.1861E-9	-0.0010924	21.847E-9
1	A	56.04762	20.00000	0.00000	-0.08968	-0.12500	-3.5600E-9	-0.0011942	23.883E-9
1	A	61.14286	20.00000	0.00000	-0.12355	-0.12500	-4.0226E-9	-0.0013104	26.208E-9
1	A	66.23810	20.00000	0.00000	-0.14993	-0.12500	-4.6332E-9	-0.0014469	28.937E-9
1	A	71.33333	20.00000	0.00000	-0.16623	-0.12500	-5.4751E-9	-0.0016105	32.210E-9
1	A	76.42857	20.00000	0.00000	-0.17375	-0.12500	-6.6611E-9	-0.0018100	36.198E-9
1	A	81.52381	20.00000	0.00000	-0.17817	-0.12500	-8.3421E-9	-0.0020548	41.095E-9
1	A	86.61905	20.00000	0.00000	-0.18814	-0.12500	-10.716E-9	-0.0023556	47.110E-9
1	A	91.71429	20.00000	0.00000	-0.21275	-0.12500	-14.035E-9	-0.0027226	54.451E-9
1	A	96.80952	20.00000	0.00000	-0.25916	-0.12500	-18.592E-9	-0.0031643	63.283E-9
1	A	101.90476	20.00000	0.00000	-0.33111	-0.12500	-24.673E-9	-0.0036832	73.661E-9
1	A	107.00000	20.00000	0.00000	-0.42769	-0.083333	-9.6079E-9	-0.0028473	56.945E-9
1	A	0.00000	25.00000	0.00000	0.08592	-0.12500	-928.11E-12	-457.26E-6	9.1450E-9
1	A	5.09524	25.00000	0.00000	0.08606	-0.12500	-1.1250E-9	-510.86E-6	10.217E-9
1	A	10.19048	25.00000	0.00000	0.08396	-0.12500	-1.3585E-9	-570.50E-6	11.410E-9
1	A	15.28571	25.00000	0.00000	0.07871	-0.12500	-1.6303E-9	-636.28E-6	12.725E-9
1	A	20.38095	25.00000	0.00000	0.06913	-0.12500	-1.9396E-9	-708.07E-6	14.161E-9
1	A	25.47619	25.00000	0.00000	0.05373	-0.12500	-2.2819E-9	-785.50E-6	15.710E-9
1	A	30.57143	25.00000	0.00000	0.03077	-0.12500	-2.6488E-9	-868.01E-6	17.360E-9
1	A	35.66667	25.00000	0.00000	-0.00158	-0.12500	-3.0293E-9	-955.08E-6	19.101E-9
1	A	40.76190	25.00000	0.00000	-0.04489	-0.12500	-3.4131E-9	-0.0010465	20.930E-9
1	A	45.85714	25.00000	0.00000	-0.09965	-0.12500	-3.7963E-9	-0.0011429	22.858E-9
1	A	50.95238	25.00000	0.00000	-0.16412	-0.12500	-4.1883E-9	-0.0012462	24.923E-9
1	A	56.04762	25.00000	0.00000	-0.23308	-0.12500	-4.6193E-9	-0.0013600	27.199E-9
1	A	61.14286	25.00000	0.00000	-0.29755	-0.12500	-5.1464E-9	-0.0014901	29.801E-9
1	A	66.23810	25.00000	0.00000	-0.34682	-0.12500	-5.8596E-9	-0.0016446	32.891E-9
1	A	71.33333	25.00000	0.00000	-0.37326	-0.12500	-6.8888E-9	-0.0018340	36.679E-9
1	A	76.42857	25.00000	0.00000	-0.37778	-0.12500	-8.4169E-9	-0.0020714	41.428E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	81.52381	25.00000	0.00000	-0.37167	-0.12500	-10.702E-9	-0.0023726	47.451E-9
1	A	86.61905	25.00000	0.00000	-0.37288	-0.12500	-14.109E-9	-0.0027562	55.122E-9
1	A	91.71429	25.00000	0.00000	-0.39966	-0.12500	-19.156E-9	-0.0032430	64.857E-9
1	A	96.80952	25.00000	0.00000	-0.46585	-0.12500	-26.547E-9	-0.0038545	77.086E-9
1	A	101.90476	25.00000	0.00000	-0.57868	-0.12500	-37.150E-9	-0.0046075	92.146E-9
1	A	107.00000	25.00000	0.00000	-0.65573	-0.083333	-15.346E-9	-0.0036696	73.390E-9
1	A	0.00000	30.00000	0.00000	0.08443	-0.12500	-1.1383E-9	-500.88E-6	10.017E-9
1	A	5.09524	30.00000	0.00000	0.08284	-0.12500	-1.4059E-9	-564.29E-6	11.286E-9
1	A	10.19048	30.00000	0.00000	0.07812	-0.12500	-1.7310E-9	-635.66E-6	12.713E-9
1	A	15.28571	30.00000	0.00000	0.06890	-0.12500	-2.1185E-9	-715.19E-6	14.303E-9
1	A	20.38095	30.00000	0.00000	0.05336	-0.12500	-2.5685E-9	-802.63E-6	16.052E-9
1	A	25.47619	30.00000	0.00000	0.02908	-0.12500	-3.0742E-9	-897.27E-6	17.945E-9
1	A	30.57143	30.00000	0.00000	-0.00705	-0.12500	-3.6192E-9	-997.96E-6	19.957E-9
1	A	35.66667	30.00000	0.00000	-0.05875	-0.12500	-4.1788E-9	-0.0011030	22.060E-9
1	A	40.76190	30.00000	0.00000	-0.12997	-0.12500	-4.7245E-9	-0.0012114	24.228E-9
1	A	45.85714	30.00000	0.00000	-0.22365	-0.12500	-5.2351E-9	-0.0013228	26.456E-9
1	A	50.95238	30.00000	0.00000	-0.33923	-0.12500	-5.7104E-9	-0.0014389	28.778E-9
1	A	56.04762	30.00000	0.00000	-0.46893	-0.12500	-6.1860E-9	-0.0015641	31.281E-9
1	A	61.14286	30.00000	0.00000	-0.59470	-0.12500	-6.7443E-9	-0.0017062	34.124E-9
1	A	66.23810	30.00000	0.00000	-0.69052	-0.12500	-7.5222E-9	-0.0018767	37.534E-9
1	A	71.33333	30.00000	0.00000	-0.73399	-0.12500	-8.7212E-9	-0.0020910	41.819E-9
1	A	76.42857	30.00000	0.00000	-0.72273	-0.12500	-10.631E-9	-0.0023686	47.371E-9
1	A	81.52381	30.00000	0.00000	-0.68127	-0.12500	-13.676E-9	-0.0027344	54.686E-9
1	A	86.61905	30.00000	0.00000	-0.64984	-0.12500	-18.508E-9	-0.0032195	64.388E-9
1	A	91.71429	30.00000	0.00000	-0.66612	-0.12500	-26.147E-9	-0.0038631	77.258E-9
1	A	96.80952	30.00000	0.00000	-0.75597	-0.12500	-38.194E-9	-0.0047125	94.246E-9
1	A	101.90476	30.00000	0.00000	-0.93292	-0.12500	-57.044E-9	-0.0058196	116.38E-9
1	A	107.00000	30.00000	0.00000	-0.98023	-0.083333	-25.445E-9	-0.0048171	96.339E-9
1	A	0.00000	35.00000	0.00000	0.08201	-0.12500	-1.4069E-9	-550.38E-6	11.007E-9
1	A	5.09524	35.00000	0.00000	0.07828	-0.12500	-1.7763E-9	-626.23E-6	12.524E-9
1	A	10.19048	35.00000	0.00000	0.07027	-0.12500	-2.2388E-9	-712.92E-6	14.258E-9
1	A	15.28571	35.00000	0.00000	0.05604	-0.12500	-2.8073E-9	-810.91E-6	16.218E-9
1	A	20.38095	35.00000	0.00000	0.03288	-0.12500	-3.4875E-9	-919.99E-6	18.399E-9
1	A	25.47619	35.00000	0.00000	-0.00303	-0.12500	-4.2713E-9	-0.0010390	20.779E-9
1	A	30.57143	35.00000	0.00000	-0.05698	-0.12500	-5.1305E-9	-0.0011657	23.313E-9
1	A	35.66667	35.00000	0.00000	-0.13609	-0.12500	-6.0134E-9	-0.0012968	25.935E-9
1	A	40.76190	35.00000	0.00000	-0.24937	-0.12500	-6.8517E-9	-0.0014290	28.578E-9
1	A	45.85714	35.00000	0.00000	-0.40648	-0.12500	-7.5799E-9	-0.0015599	31.196E-9
1	A	50.95238	35.00000	0.00000	-0.61353	-0.12500	-8.1672E-9	-0.0016901	33.800E-9
1	A	56.04762	35.00000	0.00000	-0.86342	-0.12500	-8.6491E-9	-0.0018246	36.490E-9
1	A	61.14286	35.00000	0.00000	-1.12230	-0.12500	-9.1473E-9	-0.0019739	39.476E-9
1	A	66.23810	35.00000	0.00000	-1.32552	-0.12500	-9.8762E-9	-0.0021543	43.085E-9
1	A	71.33333	35.00000	0.00000	-1.40424	-0.12500	-11.150E-9	-0.0023881	47.761E-9
1	A	76.42857	35.00000	0.00000	-1.33965	-0.12500	-13.415E-9	-0.0027040	54.078E-9
1	A	81.52381	35.00000	0.00000	-1.19320	-0.12500	-17.348E-9	-0.0031391	62.780E-9
1	A	86.61905	35.00000	0.00000	-1.06611	-0.12500	-24.048E-9	-0.0037433	74.864E-9
1	A	91.71429	35.00000	0.00000	-1.03746	-0.12500	-35.426E-9	-0.0045852	91.700E-9
1	A	96.80952	35.00000	0.00000	-1.15057	-0.12500	-54.904E-9	-0.0057600	115.19E-9
1	A	101.90476	35.00000	0.00000	-1.42892	-0.12500	-88.642E-9	-0.0073962	147.91E-9
1	A	107.00000	35.00000	0.00000	-1.44031	-0.083333	-43.643E-9	-0.0064329	128.65E-9
1	A	0.00000	40.00000	0.00000	0.07864	-0.12500	-1.7492E-9	-606.47E-6	12.129E-9
1	A	5.09524	40.00000	0.00000	0.07233	-0.12500	-2.2655E-9	-698.17E-6	13.963E-9
1	A	10.19048	40.00000	0.00000	0.06034	-0.12500	-2.9360E-9	-805.06E-6	16.101E-9
1	A	15.28571	40.00000	0.00000	0.04001	-0.12500	-3.7928E-9	-928.32E-6	18.566E-9
1	A	20.38095	40.00000	0.00000	0.00745	-0.12500	-4.8591E-9	-0.0010681	21.362E-9
1	A	25.47619	40.00000	0.00000	-0.04307	-0.12500	-6.1354E-9	-0.0012230	24.458E-9
1	A	30.57143	40.00000	0.00000	-0.12007	-0.12500	-7.5793E-9	-0.0013890	27.780E-9
1	A	35.66667	40.00000	0.00000	-0.23625	-0.12500	-9.0894E-9	-0.0015602	31.202E-9
1	A	40.76190	40.00000	0.00000	-0.41030	-0.12500	-10.508E-9	-0.0017286	34.571E-9
1	A	45.85714	40.00000	0.00000	-0.66017	-0.12500	-11.658E-9	-0.0018874	37.746E-9
1	A	50.95238	40.00000	0.00000	-1.03896	-0.12500	-12.419E-9	-0.0020338	40.675E-9
1	A	56.04762	40.00000	0.00000	-1.53680	-0.12500	-12.808E-9	-0.0021729	43.456E-9
1	A	61.14286	40.00000	0.00000	-2.11186	-0.12500	-13.018E-9	-0.0023190	46.378E-9
1	A	66.23810	40.00000	0.00000	-2.60153	-0.12500	-13.411E-9	-0.0024959	49.917E-9
1	A	71.33333	40.00000	0.00000	-2.77874	-0.12500	-14.490E-9	-0.0027359	54.717E-9
1	A	76.42857	40.00000	0.00000	-2.54297	-0.12500	-16.935E-9	-0.0030801	61.599E-9
1	A	81.52381	40.00000	0.00000	-2.08040	-0.12500	-21.764E-9	-0.0035820	71.637E-9
1	A	86.61905	40.00000	0.00000	-1.69194	-0.12500	-30.726E-9	-0.0043165	86.327E-9
1	A	91.71429	40.00000	0.00000	-1.53722	-0.12500	-47.151E-9	-0.0053955	107.90E-9
1	A	96.80952	40.00000	0.00000	-1.66059	-0.12500	-77.826E-9	-0.0069939	139.87E-9
1	A	101.90476	40.00000	0.00000	-2.09600	-0.12500	-137.29E-9	-0.0093921	187.83E-9
1	A	107.00000	40.00000	0.00000	-2.08695	-0.083333	-76.372E-9	-0.0086889	173.77E-9
1	A	0.00000	45.00000	0.00000	0.07433	-0.12500	-2.1822E-9	-669.66E-6	13.393E-9
1	A	5.09524	45.00000	0.00000	0.06500	-0.12500	-2.9095E-9	-781.52E-6	15.630E-9
1	A	10.19048	45.00000	0.00000	0.04835	-0.12500	-3.8954E-9	-915.18E-6	18.303E-9
1	A	15.28571	45.00000	0.00000	0.02081	-0.12500	-5.2159E-9	-0.0010734	21.468E-9
1	A	20.38095	45.00000	0.00000	-0.02293	-0.12500	-6.9450E-9	-0.0012578	25.156E-9
1	A	25.47619	45.00000	0.00000	-0.09101	-0.12500	-9.1248E-9	-0.0014672	29.344E-9
1	A	30.57143	45.00000	0.00000	-0.19624	-0.12500	-11.715E-9	-0.0016961	33.921E-9
1	A	35.66667	45.00000	0.00000	-0.35944	-0.12500	-14.531E-9	-0.0019333	38.664E-9
1	A	40.76190	45.00000	0.00000	-0.61556	-0.12500	-17.214E-9	-0.0021624	43.246E-9
1	A	45.85714	45.00000	0.00000	-1.02376	-0.12500	-19.296E-9	-0.0023661	47.319E-9
1	A	50.95238	45.00000	0.00000	-1.67510	-0.12500	-20.390E-9	-0.0025332	50.661E-9
1	A	56.04762	45.00000	0.00000	-2.69926	-0.12500	-20.428E-9	-0.0026669	53.335E-9
1	A	61.14286	45.00000	0.00000	-4.09115	-0.12500	-19.772E-9	-0.0027882	55.762E-9
1	A	66.23810	45.00000	0.00000	-5.45734	-0.12500	-19.119E-9	-0.0029340	58.678E-9
1	A	71.33333	45.00000	0.00000	-5.99837	-0.12500	-19.343E-9	-0.0031524	63.046E-9
1	A	76.42857	45.00000	0.00000	-5.17559	-0.12500	-21.469E-9	-0.0035013	70.024E-9
1	A	81.52381	45.00000	0.00000	-3.68174	-0.12500	-26.936E-9	-0.0040542	81.080E-9
1	A	86.61905	45.00000	0.00000	-2.60970	-0.12500	-38.300E-9	-0.0049158	98.312E-9
1	A	91.71429	45.00000	0.00000	-2.17068	-0.12500	-60.871E-9	-0.0062542	125.08E-9
1	A	96.80952	45.00000	0.00000	-2.26142	-0.12500	-106.81E-9	-0.0083607	167.20E-9
1	A	101.90476	45.00000	0.00000	-2.88134	-0.12500	-206.65E-9	-0.011774	235.46E-9
1	A	107.00000	45.00000	0.00000	-2.95016	-0.083333	-132.12E-9	-0.011700	233.99E-9
1	A	0.00000	50.00000	0.00000	0.06516	-0.12500	-2.7217E-9	-740.01E-6	14.800E-9
1	A	5.09524	50.00000	0.00000	0.05638	-0.12500	-3.7482E-9	-877.31E-6	17.546E-9
1	A	10.19048	50.00000	0.00000	0.03439	-0.12500	-5.2091E-9	-0.0010463	20.926E-9
1	A	15.28571	50.00000	0.00000	-0.00144	-0.12500	-7.2781E-9	-0.0012533	25.065E-9
1	A	20.38095	50.00000	0.00000	-0.05808	-0.12500	-10.161E-9	-0.0015034	30.067E-9
1	A	25.47619	50.00000	0.00000	-0.14643	-0.12500	-14.050E-9	-0.0017984	35.966E-9
1	A	30.57143	50.00000	0.00000	-0.28431	-0.12500	-19.003E-9	-0.0021320	42.637E-9
1	A	35.66667	50.00000	0.00000	-0.50251	-0.12500	-24.746E-9	-0.0024858	49.712E-9
1	A	40.76190	50.00000	0.00000	-0.85841	-0.12500	-30.475E-9	-0.0028266	56.528E-9
1	A	45.85714	50.00000	0.00000	-1.46660	-0.12500	-34.903E-9	-0.0031129	62.253E-9
1	A	50.95238	50.00000	0.00000	-2.56680	-0.12500	-36.791E-9	-0.0033114	66.224E-9
1	A	56.04762	50.00000	0.00000	-4.63362	-0.12500	-35.757E-9	-0.0034185	68.366E-9
1	A	61.14286	50.00000	0.00000	-8.21337	-0.12500	-32.654E-9	-0.0034690	69.375E-9
1	A	66.23810	50.00000	0.00000	-12.43054	-0.12500	-29.129E-9	-0.0035270	70.536E-9
1	A	71.33333	50.00000	0.00000	-14.44380	-0.12500	-26.906E-9	-0.0036691	73.380E-9
1	A	76.42857	50.00000	0.00000	-11.49983	-0.12500	-27.538E-9	-0.0039766	79.529E-9
1	A	81.52381	50.00000	0.00000	-6.39888	-0.12500	-32.869E-9	-0.0045439	90.875E-9
1	A	86.61905	50.00000	0.00000	-3.81799	-0.12500	-46.233E-9	-0.0055059	110.11E-9
1	A	91.71429	50.00000	0.00000	-2.89587	-0.12500	-75.183E-9	-0.0070909	141.81E-9
1	A	96.80952	50.00000	0.00000	-2.89837	-0.12500	-138.85E-9	-0.0097308	194.60E-9
1	A	101.90476	50.00000	0.00000	-2.84906	-0.12500	-292.01E-9	-0.014322	286.40E-9
1	A	107.00000	50.00000	0.00000	-3.33261	-0.083333	-213.75E-9	-0.015294	305.86E-9
1	A	0.00000	55.00000	0.00000	0.06324	-0.12500	-3.3781E-9	-816.87E-6	16.337E-9
1	A	5.09524	55.00000	0.00000	0.04665	-0.12500	-4.8185E-9	-985.61E-6	19.712E-9
1	A	10.19048	55.00000	0.00000	0.01866	-0.12500	-6.9821E-9	-0.0012007	24.013E-9
1	A	15.28571	55.00000	0.00000	-0.02654	-0.12500	-10.247E-9	-0.0014750	29.499E-9
1	A	20.38095	55.00000	0.00000	-0.09780	-0.12500	-15.149E-9	-0.0018225	36.448E-9
1	A	25.47619	55.00000	0.00000	-0.20903	-0.12500	-22.347E-9	-0.0022542	45.081E-9
1	A	30.57143	55.00000	0.00000	-0.38306	-0.12500	-32.406E-9	-0.0027697	55.391E-9
1	A	35.66667	55.00000	0.00000	-0.66050	-0.12500	-45.229E-9	-0.0033435	66.865E-9
1	A	40.76190	55.00000	0.00000	-1.12162	-0.12500	-59.138E-9	-0.0039109	78.212E-9
1	A	45.85714	55.00000	0.00000	-1.94608	-0.12500	-70.395E-9	-0.0043718	87.428E-9
1	A	50.95238	55.00000	0.00000	-3.58683	-0.12500	-74.648E-9	-0.0046308	92.606E-9
1	A	56.04762	55.00000	0.00000	-7.27474	-0.12500	-70.211E-9	-0.0046610	93.211E-9
1	A	61.14286	55.00000	0.00000	-16.04393	-0.12500	-59.774E-9	-0.0045338	90.668E-9
1	A	66.23810	55.00000	0.00000	-31.86496	-0.12500	-48.241E-9	-0.0043819	87.631E-9
1	A	71.33333	55.00000	0.00000	-36.08607	-0.12500	-39.601E-9	-0.0043404	86.804E-9
1	A	76.42857	55.00000	0.00000	-23.38588	-0.12500	-36.132E-9	-0.0045229	90.454E-9
1	A	81.52381	55.00000	0.00000	-9.48699	-0.12500	-39.663E-9	-0.0050395	100.79E-9
1	A	86.61905	55.00000	0.00000	-5.04287	-0.12500	-53.778E-9	-0.0060437	120.87E-9
1	A	91.71429	55.00000	0.00000	-3.59539	-0.12500	-87.773E-9	-0.0078112	156.21E-9
1	A	96.80952	55.00000	0.00000	-3.57922	-0.12500	-167.42E-9	-0.010902	218.01E-9
1	A	101.90476	55.00000	0.00000	-4.07683	-0.12500	-373.41E-9	-0.016574	331.43E-9
1	A	107.00000	55.00000	0.00000	-5.14610	-0.083333	-301.60E-9	-0.018720	374.37E-9
1	A	0.00000	60.00000	0.00000	0.05680	-0.12500	-4.1486E-9	-898.37E-6	17.967E-9
1	A	5.09524	60.00000	0.00000	0.03607	-0.12500	-6.1398E-9	-0.0011048	22.095E-9
1	A	10.19048	60.00000	0.00000	0.00148	-0.12500	-9.3076E-9	-0.0013781	27.562E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A	15.28571	60.00000	0.00000	-0.05421	-0.12500	-14.437E-9	-0.0017436	34.870E-9
1	A	20.38095	60.00000	0.00000	-0.14209	-0.12500	-22.828E-9	-0.0022338	44.673E-9
1	A	25.47619	60.00000	0.00000	-0.27938	-0.12500	-36.490E-9	-0.0028856	57.707E-9
1	A	30.57143	60.00000	0.00000	-0.49377	-0.12500	-58.036E-9	-0.0037267	74.528E-9
1	A	35.66667	60.00000	0.00000	-0.83309	-0.12500	-89.415E-9	-0.0047422	94.834E-9
1	A	40.76190	60.00000	0.00000	-1.39108	-0.12500	-128.25E-9	-0.0058180	116.34E-9
1	A	45.85714	60.00000	0.00000	-2.38580	-0.12500	-163.15E-9	-0.0067062	134.10E-9
1	A	50.95238	60.00000	0.00000	-4.41589	-0.12500	-176.29E-9	-0.0071138	142.26E-9
1	A	56.04762	60.00000	0.00000	-9.31932	-0.12500	-159.33E-9	-0.0069290	138.56E-9
1	A	61.14286	60.00000	0.00000	-22.69342	-0.12500	-123.69E-9	-0.0063443	126.87E-9
1	A	66.23810	60.00000	0.00000	-44.03907	-0.12500	-87.889E-9	-0.0056974	113.94E-9
1	A	71.33333	60.00000	0.00000	-44.19757	-0.12500	-62.328E-9	-0.0052557	105.11E-9
1	A	76.42857	60.00000	0.00000	-25.90032	-0.12500	-49.018E-9	-0.0051675	103.35E-9
1	A	81.52381	60.00000	0.00000	-11.22912	-0.12500	-47.627E-9	-0.0055318	110.63E-9
1	A	86.61905	60.00000	0.00000	-5.88912	-0.12500	-60.215E-9	-0.0064877	129.75E-9
1	A	91.71429	60.00000	0.00000	-4.10274	-0.12500	-96.126E-9	-0.0083203	166.39E-9
1	A	96.80952	60.00000	0.00000	-4.09411	-0.12500	-184.50E-9	-0.011654	233.07E-9
1	A	101.90476	60.00000	0.00000	-5.11156	-0.12500	-421.10E-9	-0.017962	359.19E-9
1	A	107.00000	60.00000	0.00000	-6.89033	-0.083333	-353.40E-9	-0.020811	416.18E-9
1	A	0.00000	65.00000	0.00000	0.05013	-0.12500	-5.0077E-9	-981.14E-6	19.622E-9
1	A	5.09524	65.00000	0.00000	0.02508	-0.12500	-7.6902E-9	-0.0012305	24.608E-9
1	A	10.19048	65.00000	0.00000	-0.01659	-0.12500	-12.216E-9	-0.0015742	31.482E-9
1	A	15.28571	65.00000	0.00000	-0.08392	-0.12500	-20.110E-9	-0.0020578	41.154E-9
1	A	20.38095	65.00000	0.00000	-0.19092	-0.12500	-34.314E-9	-0.0027503	55.001E-9
1	A	25.47619	65.00000	0.00000	-0.35930	-0.12500	-60.427E-9	-0.0037506	75.005E-9
1	A	30.57143	65.00000	0.00000	-0.62279	-0.12500	-108.41E-9	-0.0051820	103.63E-9
1	A	35.66667	65.00000	0.00000	-1.03488	-0.12500	-192.38E-9	-0.0071335	142.65E-9
1	A	40.76190	65.00000	0.00000	-1.68817	-0.12500	-319.54E-9	-0.0094814	189.59E-9
1	A	45.85714	65.00000	0.00000	-2.78032	-0.12500	-457.10E-9	-0.011611	232.16E-9
1	A	50.95238	65.00000	0.00000	-4.84887	-0.12500	-515.37E-9	-0.012493	249.80E-9
1	A	56.04762	65.00000	0.00000	-9.52767	-0.12500	-438.89E-9	-0.011626	232.46E-9
1	A	61.14286	65.00000	0.00000	-21.34967	-0.12500	-296.00E-9	-0.0097172	194.31E-9
1	A	66.23810	65.00000	0.00000	-43.73578	-0.12500	-176.54E-9	-0.0078400	156.78E-9
1	A	71.33333	65.00000	0.00000	-44.59018	-0.12500	-104.57E-9	-0.0065469	130.93E-9
1	A	76.42857	65.00000	0.00000	-26.58055	-0.12500	-68.940E-9	-0.0059434	118.86E-9
1	A	81.52381	65.00000	0.00000	-11.82715	-0.12500	-57.285E-9	-0.0060133	120.26E-9
1	A	86.61905	65.00000	0.00000	-6.24726	-0.12500	-65.125E-9	-0.0068070	136.13E-9
1	A	91.71429	65.00000	0.00000	-4.30615	-0.12500	-98.647E-9	-0.0085544	171.08E-9
1	A	96.80952	65.00000	0.00000	-4.22930	-0.12500	-184.98E-9	-0.011846	236.89E-9
1	A	101.90476	65.00000	0.00000	-5.17369	-0.12500	-415.67E-9	-0.018112	362.19E-9
1	A	107.00000	65.00000	0.00000	-6.62881	-0.083333	-341.65E-9	-0.020786	415.68E-9
1	A	0.00000	70.00000	0.00000	0.04366	-0.12500	-5.8977E-9	-0.0010600	21.199E-9
1	A	5.09524	70.00000	0.00000	0.01432	-0.12500	-9.3779E-9	-0.0013547	27.093E-9
1	A	10.19048	70.00000	0.00000	-0.03462	-0.12500	-15.588E-9	-0.0017773	35.544E-9
1	A	15.28571	70.00000	0.00000	-0.11451	-0.12500	-27.254E-9	-0.0024035	48.067E-9
1	A	20.38095	70.00000	0.00000	-0.24348	-0.12500	-50.434E-9	-0.0033643	67.279E-9
1	A	25.47619	70.00000	0.00000	-0.45052	-0.12500	-99.228E-9	-0.0048888	97.764E-9
1	A	30.57143	70.00000	0.00000	-0.78103	-0.12500	-207.16E-9	-0.0073666	147.31E-9
1	A	35.66667	70.00000	0.00000	-1.30203	-0.12500	-449.58E-9	-0.011368	227.31E-9
1	A	40.76190	70.00000	0.00000	-2.10381	-0.12500	-950.27E-9	-0.017296	345.81E-9
1	A	45.85714	70.00000	0.00000	-3.31163	-0.12500	-1.7011E-6	-0.023924	478.28E-9
1	A	50.95238	70.00000	0.00000	-5.20878	-0.12500	-2.1211E-6	-0.026922	538.18E-9
1	A	56.04762	70.00000	0.00000	-8.72644	-0.12500	-1.6159E-6	-0.023230	464.41E-9
1	A	61.14286	70.00000	0.00000	-16.33529	-0.12500	-841.93E-9	-0.016642	332.73E-9
1	A	66.23810	70.00000	0.00000	-33.05517	-0.12500	-384.90E-9	-0.011441	228.78E-9
1	A	71.33333	70.00000	0.00000	-42.12373	-0.12500	-182.27E-9	-0.0083639	167.26E-9
1	A	76.42857	70.00000	0.00000	-26.42189	-0.12500	-98.998E-9	-0.0068652	137.29E-9
1	A	81.52381	70.00000	0.00000	-11.79883	-0.12500	-69.025E-9	-0.0064698	129.39E-9
1	A	86.61905	70.00000	0.00000	-6.16766	-0.12500	-68.447E-9	-0.0069851	139.69E-9
1	A	91.71429	70.00000	0.00000	-4.18879	-0.12500	-95.396E-9	-0.0085012	170.01E-9
1	A	96.80952	70.00000	0.00000	-3.97844	-0.12500	-169.70E-9	-0.011474	229.45E-9
1	A	101.90476	70.00000	0.00000	-4.43367	-0.12500	-362.25E-9	-0.017061	341.17E-9
1	A	107.00000	70.00000	0.00000	-5.34037	-0.083333	-276.81E-9	-0.018805	376.08E-9
1	A	0.00000	75.00000	0.00000	0.03791	-0.12500	-6.7265E-9	-0.0011282	22.563E-9
1	A	5.09524	75.00000	0.00000	0.00470	-0.12500	-11.021E-9	-0.0014661	29.320E-9
1	A	10.19048	75.00000	0.00000	-0.05113	-0.12500	-19.070E-9	-0.0019676	39.349E-9
1	A	15.28571	75.00000	0.00000	-0.14363	-0.12500	-35.235E-9	-0.0027466	54.928E-9
1	A	20.38095	75.00000	0.00000	-0.29655	-0.12500	-70.522E-9	-0.0040236	80.464E-9
1	A	25.47619	75.00000	0.00000	-0.55057	-0.12500	-155.72E-9	-0.0062529	125.04E-9
1	A	30.57143	75.00000	0.00000	-0.97510	-0.12500	-387.66E-9	-0.010431	208.57E-9
1	A	35.66667	75.00000	0.00000	-1.67970	-0.12500	-1.1072E-6	-0.018815	376.16E-9
1	A	40.76190	75.00000	0.00000	-2.79560	-0.12500	-3.5308E-6	-0.035975	719.07E-9
1	A	45.85714	75.00000	0.00000	-4.37963	-0.12500	-10.248E-6	-0.064891	1.2966E-6
1	A	50.95238	75.00000	0.00000	-6.33903	-0.12500	-17.373E-6	-0.084309	1.6841E-6
1	A	56.04762	75.00000	0.00000	-8.69512	-0.12500	-9.9772E-6	-0.061302	1.2249E-6
1	A	61.14286	75.00000	0.00000	-12.88053	-0.12500	-2.8768E-6	-0.032046	640.58E-9
1	A	66.23810	75.00000	0.00000	-22.32499	-0.12500	-861.66E-9	-0.017305	345.99E-9
1	A	71.33333	75.00000	0.00000	-38.30664	-0.12500	-312.28E-9	-0.010742	214.80E-9
1	A	76.42857	75.00000	0.00000	-26.86149	-0.12500	-139.76E-9	-0.0078767	157.52E-9
1	A	81.52381	75.00000	0.00000	-10.93958	-0.12500	-82.209E-9	-0.0068628	137.25E-9
1	A	86.61905	75.00000	0.00000	-5.62222	-0.12500	-70.209E-9	-0.0070151	140.29E-9
1	A	91.71429	75.00000	0.00000	-3.79125	-0.12500	-87.854E-9	-0.0081969	163.93E-9
1	A	96.80952	75.00000	0.00000	-3.49214	-0.12500	-144.55E-9	-0.010666	213.29E-9
1	A	101.90476	75.00000	0.00000	-3.41779	-0.12500	-284.86E-9	-0.015201	303.98E-9
1	A	107.00000	75.00000	0.00000	-3.81178	-0.083333	-194.32E-9	-0.015767	315.31E-9
1	A	0.00000	80.00000	0.00000	0.03346	-0.12500	-7.3791E-9	-0.0011784	23.566E-9
1	A	5.09524	80.00000	0.00000	-0.00273	-0.12500	-12.363E-9	-0.0015507	31.012E-9
1	A	10.19048	80.00000	0.00000	-0.06412	-0.12500	-22.054E-9	-0.0021181	42.359E-9
1	A	15.28571	80.00000	0.00000	-0.16752	-0.12500	-42.546E-9	-0.0030324	60.642E-9
1	A	20.38095	80.00000	0.00000	-0.34299	-0.12500	-90.782E-9	-0.0046131	92.252E-9
1	A	25.47619	80.00000	0.00000	-0.64673	-0.12500	-221.64E-9	-0.0076068	152.11E-9
1	A	30.57143	80.00000	0.00000	-1.18720	-0.12500	-654.28E-9	-0.014013	280.18E-9
1	A	35.66667	80.00000	0.00000	-2.16691	-0.12500	-2.5761E-6	-0.030287	605.43E-9
1	A	40.76190	80.00000	0.00000	-3.83319	-0.12500	-16.439E-6	-0.083419	1.6664E-6
1	A	45.85714	80.00000	0.00000	-5.77063	-0.12500	-189.61E-6	-0.30228	6.0228E-6
1	A	50.95238	80.00000	0.00000	-8.00952	-0.12500	-0.0017885	-0.84290	16.643E-6
1	A	56.04762	80.00000	0.00000	-11.24100	-0.12500	-190.28E-6	-0.27159	5.4090E-6
1	A	61.14286	80.00000	0.00000	-11.77292	-0.12500	-10.145E-6	-0.064122	1.2812E-6
1	A	66.23810	80.00000	0.00000	-15.86891	-0.12500	-1.7293E-6	-0.025259	504.97E-9
1	A	71.33333	80.00000	0.00000	-26.95041	-0.12500	-482.72E-9	-0.013296	265.86E-9
1	A	76.42857	80.00000	0.00000	-19.16853	-0.12500	-183.73E-9	-0.0087861	175.70E-9
1	A	81.52381	80.00000	0.00000	-8.41944	-0.12500	-94.170E-9	-0.0071173	142.34E-9
1	A	86.61905	80.00000	0.00000	-4.59026	-0.12500	-70.131E-9	-0.0068913	137.82E-9
1	A	91.71429	80.00000	0.00000	-3.19193	-0.12500	-77.973E-9	-0.0077039	154.07E-9
1	A	96.80952	80.00000	0.00000	-2.95721	-0.12500	-116.65E-9	-0.0096065	192.12E-9
1	A	101.90476	80.00000	0.00000	-3.48190	-0.12500	-208.67E-9	-0.013029	260.56E-9
1	A	107.00000	80.00000	0.00000	-3.58849	-0.083333	-125.01E-9	-0.012631	252.61E-9
1	A	0.00000	85.00000	0.00000	0.03085	-0.12500	-7.7451E-9	-0.0012041	24.081E-9
1	A	5.09524	85.00000	0.00000	-0.00692	-0.12500	-13.136E-9	-0.0015958	31.913E-9
1	A	10.19048	85.00000	0.00000	-0.07144	-0.12500	-23.829E-9	-0.0022014	44.025E-9
1	A	15.28571	85.00000	0.00000	-0.18152	-0.12500	-47.096E-9	-0.0031977	63.948E-9
1	A	20.38095	85.00000	0.00000	-0.37229	-0.12500	-104.25E-9	-0.0049737	99.461E-9
1	A	25.47619	85.00000	0.00000	-0.71388	-0.12500	-270.23E-9	-0.0085030	170.03E-9
1	A	30.57143	85.00000	0.00000	-1.35612	-0.12500	-889.00E-9	-0.016709	334.07E-9
1	A	35.66667	85.00000	0.00000	-2.62576	-0.12500	-4.4136E-6	-0.041280	825.07E-9
1	A	40.76190	85.00000	0.00000	-4.93670	-0.12500	-56.301E-6	-0.16416	3.2765E-6
1	A	45.85714	85.00000	0.00000	-8.65998	-0.12500	-21.459	-42.303	-0.0017290
1	A	50.95238	85.00000	0.00000	-23.48116	-0.12500	-29.646	-68.395	-0.0021896
1	A	56.04762	85.00000	0.00000	-18.33841	-0.12500	-0.0021729	-0.99785	19.696E-6
1	A	61.14286	85.00000	0.00000	-13.38559	-0.12500	-20.802E-6	-0.099660	1.9907E-6
1	A	66.23810	85.00000	0.00000	-11.13696	-0.12500	-2.5533E-6	-0.031697	633.64E-9
1	A	71.33333	85.00000	0.00000	-10.75363	-0.12500	-614.49E-9	-0.015023	300.38E-9
1	A	76.42857	85.00000	0.00000	-8.51604	-0.12500	-213.31E-9	-0.0092803	185.58E-9
1	A	81.52381	85.00000	0.00000	-5.34737	-0.12500	-100.50E-9	-0.0071373	142.73E-9
1	A	86.61905	85.00000	0.00000	-3.37229	-0.12500	-67.588E-9	-0.0066089	132.17E-9
1	A	91.71429	85.00000	0.00000	-2.51032	-0.12500	-67.306E-9	-0.0070864	141.72E-9
1	A	96.80952	85.00000	0.00000	-2.38050	-0.12500	-91.037E-9	-0.0084631	169.25E-9
1	A	101.90476	85.00000	0.00000	-2.86855	-0.12500	-147.21E-9	-0.010917	218.33E-9
1	A	107.00000	85.00000	0.00000	-2.83213	-0.083333	-77.953E-9	-0.0099298	198.59E-9
1	A	0.00000	90.00000	0.00000	0.03043	-0.12500	-7.7545E-9	-0.0012015	24.028E-9
1	A	5.09524	90.00000	0.00000	-0.00712	-0.12500	-13.160E-9	-0.0015932	31.863E-9
1	A	10.19048	90.00000	0.00000	-0.07146	-0.12500	-23.892E-9	-0.0021995	43.988E-9
1	A	15.28571	90.00000	0.00000	-0.18180	-0.12500	-47.263E-9	-0.0031981	63.956E-9
1	A	20.38095	90.00000	0.00000	-0.37462	-0.12500	-104.72E-9	-0.0049804	99.596E-9
1	A	25.47619	90.00000	0.00000	-0.72464	-0.12500	-271.67E-9	-0.0085276	170.52E-9
1	A	30.57143	90.00000	0.00000	-1.39778	-0.12500	-892.72E-9	-0.016784	335.56E-9
1	A	35.66667	90.00000	0.00000	-2.78440	-0.12500	-4.3788E-6	-0.041432	828.12E-9
1	A	40.76190	90.00000	0.00000	-5.62857	-0.12500	-51.316E-6	-0.16059	3.2056E-6
1	A	45.85714	90.00000	0.00000	-9.63859	-0.12500	-0.055884	-4.0602	74.499E-6
1	A	50.95238	90.00000	0.00000	-29.96126	-0.12500	-29.999	-69.908	-0.0022017
1	A	56.04762	90.00000	0.00000	-26.92014	-0.12500	-852.44E-6	-0.71041	14.106E-6

Ref.	Name	x	y	z	δz	Stress: Calc. Level	Stress: Vertical	Stress: Sum Princ.	Vert. Strain
		[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[μ]
1	A	61.14286	90.00000	0.00000	-21.10248	-0.12500	-18.803E-6	-0.096861	1.9350E-6
1	A	66.23810	90.00000	0.00000	-9.69326	-0.12500	-2.5072E-6	-0.031547	630.64E-9
1	A	71.33333	90.00000	0.00000	-6.50694	-0.12500	-612.09E-9	-0.014915	298.22E-9
1	A	76.42857	90.00000	0.00000	-4.74396	-0.12500	-211.85E-9	-0.0091019	182.01E-9
1	A	81.52381	90.00000	0.00000	-3.32475	-0.12500	-97.638E-9	-0.0068572	137.13E-9
1	A	86.61905	90.00000	0.00000	-2.35571	-0.12500	-62.116E-9	-0.0061737	123.47E-9
1	A	91.71429	90.00000	0.00000	-1.87234	-0.12500	-56.741E-9	-0.0063987	127.97E-9
1	A	96.80952	90.00000	0.00000	-1.80118	-0.12500	-69.833E-9	-0.0073466	146.92E-9
1	A	101.90476	90.00000	0.00000	-2.10263	-0.12500	-102.60E-9	-0.0090496	180.98E-9
1	A	107.00000	90.00000	0.00000	-2.02948	-0.083333	-48.825E-9	-0.0077861	155.72E-9
1	A	0.00000	95.00000	0.00000	0.03227	-0.12500	-7.4047E-9	-0.0011704	23.407E-9
1	A	5.09524	95.00000	0.00000	-0.00317	-0.12500	-12.430E-9	-0.0015428	30.854E-9
1	A	10.19048	95.00000	0.00000	-0.06376	-0.12500	-22.224E-9	-0.0021119	42.235E-9
1	A	15.28571	95.00000	0.00000	-0.16718	-0.12500	-42.991E-9	-0.0030320	60.634E-9
1	A	20.38095	95.00000	0.00000	-0.34663	-0.12500	-92.023E-9	-0.0046291	92.571E-9
1	A	25.47619	95.00000	0.00000	-0.66864	-0.12500	-225.45E-9	-0.0076684	153.34E-9
1	A	30.57143	95.00000	0.00000	-1.27641	-0.12500	-667.14E-9	-0.014210	284.11E-9
1	A	35.66667	95.00000	0.00000	-2.49543	-0.12500	-2.6159E-6	-0.030928	618.24E-9
1	A	40.76190	95.00000	0.00000	-5.02604	-0.12500	-16.337E-6	-0.086075	1.7195E-6
1	A	45.85714	95.00000	0.00000	-9.20304	-0.12500	-317.23E-6	-0.38408	7.6435E-6
1	A	50.95238	95.00000	0.00000	-19.54067	-0.12500	-0.019456	-2.2559	42.783E-6
1	A	56.04762	95.00000	0.00000	-26.76671	-0.12500	-181.96E-6	-0.27464	5.4710E-6
1	A	61.14286	95.00000	0.00000	-18.40112	-0.12500	-9.4614E-6	-0.063548	1.2698E-6
1	A	66.23810	95.00000	0.00000	-8.57061	-0.12500	-1.6996E-6	-0.025119	502.18E-9
1	A	71.33333	95.00000	0.00000	-4.75705	-0.12500	-480.40E-9	-0.012992	259.78E-9
1	A	76.42857	95.00000	0.00000	-3.11552	-0.12500	-179.73E-9	-0.0082608	165.19E-9
1	A	81.52381	95.00000	0.00000	-2.19562	-0.12500	-85.777E-9	-0.0062942	125.87E-9
1	A	86.61905	95.00000	0.00000	-1.63335	-0.12500	-54.045E-9	-0.0056139	112.27E-9
1	A	91.71429	95.00000	0.00000	-1.34693	-0.12500	-46.736E-9	-0.0056839	113.67E-9
1	A	96.80952	95.00000	0.00000	-1.29999	-0.12500	-53.163E-9	-0.0063155	126.30E-9
1	A	101.90476	95.00000	0.00000	-1.47092	-0.12500	-71.748E-9	-0.0074748	149.49E-9
1	A	107.00000	95.00000	0.00000	-1.42138	-0.083333	-31.217E-9	-0.0061380	122.76E-9
1	A	0.00000	100.00000	0.00000	0.03610	-0.12500	-6.7609E-9	-0.0011146	22.291E-9
1	A	5.09524	100.00000	0.00000	0.00439	-0.12500	-11.113E-9	-0.0014521	29.042E-9
1	A	10.19048	100.00000	0.00000	-0.04939	-0.12500	-19.300E-9	-0.0019554	39.106E-9
1	A	15.28571	100.00000	0.00000	-0.13996	-0.12500	-35.820E-9	-0.0027413	54.823E-9
1	A	20.38095	100.00000	0.00000	-0.29383	-0.12500	-72.096E-9	-0.0040380	80.752E-9
1	A	25.47619	100.00000	0.00000	-0.56103	-0.12500	-160.39E-9	-0.0063210	126.40E-9
1	A	30.57143	100.00000	0.00000	-1.04042	-0.12500	-403.77E-9	-0.010652	212.99E-9
1	A	35.66667	100.00000	0.00000	-1.93181	-0.12500	-1.1799E-6	-0.019535	390.56E-9
1	A	40.76190	100.00000	0.00000	-3.61443	-0.12500	-4.0510E-6	-0.038762	774.75E-9
1	A	45.85714	100.00000	0.00000	-6.48340	-0.12500	-14.820E-6	-0.076634	1.5309E-6
1	A	50.95238	100.00000	0.00000	-7.59464	-0.12500	-27.932E-6	-0.10442	2.0851E-6
1	A	56.04762	100.00000	0.00000	-17.39525	-0.12500	-12.236E-6	-0.067824	1.3550E-6
1	A	61.14286	100.00000	0.00000	-12.88321	-0.12500	-3.0216E-6	-0.032971	659.06E-9
1	A	66.23810	100.00000	0.00000	-6.36558	-0.12500	-876.42E-9	-0.017209	344.08E-9
1	A	71.33333	100.00000	0.00000	-3.46444	-0.12500	-312.48E-9	-0.010250	204.96E-9
1	A	76.42857	100.00000	0.00000	-2.17173	-0.12500	-133.55E-9	-0.0070295	140.57E-9
1	A	81.52381	100.00000	0.00000	-1.50488	-0.12500	-68.826E-9	-0.0055464	110.92E-9
1	A	86.61905	100.00000	0.00000	-1.12928	-0.12500	-44.546E-9	-0.0049794	99.583E-9
1	A	91.71429	100.00000	0.00000	-0.94047	-0.12500	-37.601E-9	-0.0049774	99.544E-9
1	A	96.80952	100.00000	0.00000	-0.90110	-0.12500	-40.335E-9	-0.0053934	107.86E-9
1	A	101.90476	100.00000	0.00000	-0.99207	-0.12500	-50.697E-9	-0.0061762	123.52E-9
1	A	107.00000	100.00000	0.00000	-0.98165	-0.083333	-20.475E-9	-0.0048802	97.603E-9
1	A	0.00000	105.00000	0.00000	0.04136	-0.12500	-5.9316E-9	-0.0010405	20.809E-9
1	A	5.09524	105.00000	0.00000	0.01450	-0.12500	-9.4717E-9	-0.0013340	26.679E-9
1	A	10.19048	105.00000	0.00000	-0.03056	-0.12500	-15.822E-9	-0.0017573	35.144E-9
1	A	15.28571	105.00000	0.00000	-0.10495	-0.12500	-27.829E-9	-0.0023888	47.772E-9
1	A	20.38095	105.00000	0.00000	-0.22750	-0.12500	-51.892E-9	-0.0033658	67.310E-9
1	A	25.47619	105.00000	0.00000	-0.43078	-0.12500	-103.18E-9	-0.0049333	98.653E-9
1	A	30.57143	105.00000	0.00000	-0.77181	-0.12500	-218.93E-9	-0.0075209	150.39E-9
1	A	35.66667	105.00000	0.00000	-1.34852	-0.12500	-489.11E-9	-0.011807	236.08E-9
1	A	40.76190	105.00000	0.00000	-2.31185	-0.12500	-1.0919E-6	-0.018440	368.66E-9
1	A	45.85714	105.00000	0.00000	-3.79214	-0.12500	-2.1066E-6	-0.026320	526.15E-9
1	A	50.95238	105.00000	0.00000	-5.08057	-0.12500	-2.6761E-6	-0.029818	596.03E-9
1	A	56.04762	105.00000	0.00000	-6.52840	-0.12500	-1.8969E-6	-0.024858	496.93E-9
1	A	61.14286	105.00000	0.00000	-6.08440	-0.12500	-914.90E-9	-0.017017	340.23E-9
1	A	66.23810	105.00000	0.00000	-3.83080	-0.12500	-399.61E-9	-0.011168	223.32E-9
1	A	71.33333	105.00000	0.00000	-2.30543	-0.12500	-181.58E-9	-0.0076705	153.39E-9
1	A	76.42857	105.00000	0.00000	-1.48058	-0.12500	-90.546E-9	-0.0057350	114.69E-9
1	A	81.52381	105.00000	0.00000	-1.02453	-0.12500	-51.519E-9	-0.0047404	94.802E-9
1	A	86.61905	105.00000	0.00000	-0.76574	-0.12500	-35.068E-9	-0.0043280	86.556E-9
1	A	91.71429	105.00000	0.00000	-0.63334	-0.12500	-29.597E-9	-0.0043081	86.159E-9
1	A	96.80952	105.00000	0.00000	-0.59742	-0.12500	-30.539E-9	-0.0045854	91.704E-9
1	A	101.90476	105.00000	0.00000	-0.64196	-0.12500	-36.271E-9	-0.0051149	102.29E-9
1	A	107.00000	105.00000	0.00000	-0.66732	-0.083333	-13.777E-9	-0.0039171	78.340E-9
1	A	0.00000	110.00000	0.00000	0.04736	-0.12500	-5.0327E-9	-955.53E-6	19.110E-9
1	A	5.09524	110.00000	0.00000	0.02582	-0.12500	-7.7675E-9	-0.0012024	24.047E-9
1	A	10.19048	110.00000	0.00000	-0.00989	-0.12500	-12.411E-9	-0.0015449	30.896E-9
1	A	15.28571	110.00000	0.00000	-0.06752	-0.12500	-20.575E-9	-0.0020304	40.606E-9
1	A	20.38095	110.00000	0.00000	-0.15918	-0.12500	-35.413E-9	-0.0027319	54.635E-9
1	A	25.47619	110.00000	0.00000	-0.30368	-0.12500	-63.084E-9	-0.0037570	75.133E-9
1	A	30.57143	110.00000	0.00000	-0.52945	-0.12500	-115.01E-9	-0.0052457	104.90E-9
1	A	35.66667	110.00000	0.00000	-0.87602	-0.12500	-208.93E-9	-0.0073163	146.30E-9
1	A	40.76190	110.00000	0.00000	-1.38659	-0.12500	-357.99E-9	-0.0098694	197.34E-9
1	A	45.85714	110.00000	0.00000	-2.06788	-0.12500	-527.05E-9	-0.012223	244.40E-9
1	A	50.95238	110.00000	0.00000	-2.77963	-0.12500	-596.49E-9	-0.013119	262.31E-9
1	A	56.04762	110.00000	0.00000	-3.17857	-0.12500	-493.68E-9	-0.011944	238.82E-9
1	A	61.14286	110.00000	0.00000	-2.85451	-0.12500	-319.27E-9	-0.0096122	192.20E-9
1	A	66.23810	110.00000	0.00000	-2.08981	-0.12500	-182.21E-9	-0.0073459	146.90E-9
1	A	71.33333	110.00000	0.00000	-1.41379	-0.12500	-101.27E-9	-0.0056663	113.31E-9
1	A	76.42857	110.00000	0.00000	-0.95720	-0.12500	-58.464E-9	-0.0045872	91.736E-9
1	A	81.52381	110.00000	0.00000	-0.67048	-0.12500	-36.889E-9	-0.0039762	79.520E-9
1	A	86.61905	110.00000	0.00000	-0.49718	-0.12500	-26.692E-9	-0.0037083	74.163E-9
1	A	91.71429	110.00000	0.00000	-0.40371	-0.12500	-22.882E-9	-0.0036967	73.931E-9
1	A	96.80952	110.00000	0.00000	-0.37198	-0.12500	-23.086E-9	-0.0038878	77.754E-9
1	A	101.90476	110.00000	0.00000	-0.39078	-0.12500	-26.266E-9	-0.0042496	84.989E-9
1	A	107.00000	110.00000	0.00000	-0.44353	-0.083333	-9.4914E-9	-0.0031737	63.472E-9
1	A	0.00000	115.00000	0.00000	0.05343	-0.12500	-4.1589E-9	-866.66E-6	17.333E-9
1	A	5.09524	115.00000	0.00000	0.03710	-0.12500	-6.1891E-9	-0.0010691	21.382E-9
1	A	10.19048	115.00000	0.00000	0.01027	-0.12500	-9.4419E-9	-0.0013389	26.777E-9
1	A	15.28571	115.00000	0.00000	-0.03208	-0.12500	-14.754E-9	-0.0017023	34.043E-9
1	A	20.38095	115.00000	0.00000	-0.09711	-0.12500	-23.537E-9	-0.0021937	43.870E-9
1	A	25.47619	115.00000	0.00000	-0.19464	-0.12500	-38.033E-9	-0.0028534	57.064E-9
1	A	30.57143	115.00000	0.00000	-0.33709	-0.12500	-61.316E-9	-0.0037143	74.278E-9
1	A	35.66667	115.00000	0.00000	-0.53718	-0.12500	-96.036E-9	-0.0047652	95.292E-9
1	A	40.76190	115.00000	0.00000	-0.80037	-0.12500	-140.17E-9	-0.0058855	117.69E-9
1	A	45.85714	115.00000	0.00000	-1.10682	-0.12500	-180.50E-9	-0.0067944	135.87E-9
1	A	50.95238	115.00000	0.00000	-1.38433	-0.12500	-194.85E-9	-0.0071437	142.85E-9
1	A	56.04762	115.00000	0.00000	-1.50772	-0.12500	-173.01E-9	-0.0067965	135.91E-9
1	A	61.14286	115.00000	0.00000	-1.39334	-0.12500	-130.07E-9	-0.0059726	119.44E-9
1	A	66.23810	115.00000	0.00000	-1.11680	-0.12500	-87.901E-9	-0.0050348	100.69E-9
1	A	71.33333	115.00000	0.00000	-0.82092	-0.12500	-56.877E-9	-0.0042327	84.648E-9
1	A	76.42857	115.00000	0.00000	-0.58164	-0.12500	-37.215E-9	-0.0036570	73.136E-9
1	A	81.52381	115.00000	0.00000	-0.41097	-0.12500	-25.847E-9	-0.0033067	66.131E-9
1	A	86.61905	115.00000	0.00000	-0.29894	-0.12500	-19.902E-9	-0.0031504	63.005E-9
1	A	91.71429	115.00000	0.00000	-0.23404	-0.12500	-17.468E-9	-0.0031546	63.090E-9
1	A	96.80952	115.00000	0.00000	-0.20760	-0.12500	-17.442E-9	-0.0032926	65.850E-9
1	A	101.90476	115.00000	0.00000	-0.21293	-0.12500	-19.233E-9	-0.0035440	70.877E-9
1	A	107.00000	115.00000	0.00000	-0.28465	-0.083333	-6.6785E-9	-0.0025943	51.886E-9
1	A	0.00000	120.00000	0.00000	0.05898	-0.12500	-3.3708E-9	-779.27E-6	15.585E-9
1	A	5.09524	120.00000	0.00000	0.04735	-0.12500	-4.8357E-9	-942.57E-6	18.851E-9
1	A	10.19048	120.00000	0.00000	0.02827	-0.12500	-7.0519E-9	-0.0011518	23.035E-9
1	A	15.28571	120.00000	0.00000	-0.00133	-0.12500	-10.425E-9	-0.0014202	28.402E-9
1	A	20.38095	120.00000	0.00000	-0.04539	-0.12500	-15.539E-9	-0.0017622	35.243E-9
1	A	25.47619	120.00000	0.00000	-0.10860	-0.12500	-23.136E-9	-0.0021896	43.790E-9
1	A	30.57143	120.00000	0.00000	-0.19558	-0.12500	-33.904E-9	-0.0027023	54.042E-9
1	A	35.66667	120.00000	0.00000	-0.30889	-0.12500	-47.838E-9	-0.0032726	65.447E-9
1	A	40.76190	120.00000	0.00000	-0.44473	-0.12500	-63.135E-9	-0.0038286	76.565E-9
1	A	45.85714	120.00000	0.00000	-0.58672	-0.12500	-75.466E-9	-0.0042549	85.089E-9
1	A	50.95238	120.00000	0.00000	-0.70138	-0.12500	-79.599E-9	-0.0044369	88.729E-9
1	A	56.04762	120.00000	0.00000	-0.74682	-0.12500	-73.497E-9	-0.0043355	86.702E-9
1	A	61.14286	120.00000	0.00000	-0.70193	-0.12500	-60.341E-9	-0.0040189	80.372E-9
1	A	66.23810	120.00000	0.00000	-0.58854	-0.12500	-45.566E-9	-0.0036136	72.266E-9
1	A	71.33333	120.00000	0.00000	-0.45161	-0.12500	-32.989E-9	-0.0032308	64.613E-9
1	A	76.42857	120.00000	0.00000	-0.32580	-0.12500	-23.890E-9	-0.0029344	58.685E-9
1	A	81.52381	120.00000	0.00000	-0.22611	-0.12500	-18.029E-9	-0.0027465	54.928E-9
1	A	86.61905	120.00000	0.00000	-0.15517	-0.12500	-14.699E-9	-0.0026666	53.331E-9
1	A	91.71429	120.00000	0.00000	-0.11083	-0.12500	-13.243E-9	-0.0026849	53.697E-9
1	A	96.80952	120.00000	0.00000	-0.08980	-0.12500	-13.187E-9	-0.0027893	55.785E-9
1	A	101.90476	120.00000	0.00000	-0.08861	-0.12500	-14.225E-9	-0.0029677	59.353E-9

Ref.		Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
1	A		107.00000	120.00000	0.00000	-0.17225	-0.083333	-4.7875E-9	-0.0021385	42.770E-9
1	A		0.00000	125.00000	0.00000	0.06363	-0.12500	-2.6969E-9	-696.99E-6	13.939E-9
1	A		5.09524	125.00000	0.00000	0.05597	-0.12500	-3.7346E-9	-827.47E-6	16.549E-9
1	A		10.19048	125.00000	0.00000	0.04320	-0.12500	-5.2216E-9	-988.63E-6	19.772E-9
1	A		15.28571	125.00000	0.00000	0.02356	-0.12500	-7.3433E-9	-0.0011866	23.730E-9
1	A		20.38095	125.00000	0.00000	-0.00501	-0.12500	-10.325E-9	-0.0014263	28.524E-9
1	A		25.47619	125.00000	0.00000	-0.04450	-0.12500	-14.381E-9	-0.0017088	34.175E-9
1	A		30.57143	125.00000	0.00000	-0.09626	-0.12500	-19.593E-9	-0.0020269	40.536E-9
1	A		35.66667	125.00000	0.00000	-0.15969	-0.12500	-25.674E-9	-0.0023591	47.178E-9
1	A		40.76190	125.00000	0.00000	-0.23047	-0.12500	-31.725E-9	-0.0026667	53.331E-9
1	A		45.85714	125.00000	0.00000	-0.29878	-0.12500	-36.253E-9	-0.0028999	57.994E-9
1	A		50.95238	125.00000	0.00000	-0.34963	-0.12500	-37.775E-9	-0.0030155	60.306E-9
1	A		56.04762	125.00000	0.00000	-0.36777	-0.12500	-35.770E-9	-0.0030004	60.003E-9
1	A		61.14286	125.00000	0.00000	-0.34669	-0.12500	-31.092E-9	-0.0028800	57.596E-9
1	A		66.23810	125.00000	0.00000	-0.29382	-0.12500	-25.350E-9	-0.0027047	54.090E-9
1	A		71.33333	125.00000	0.00000	-0.22542	-0.12500	-19.955E-9	-0.0025259	50.515E-9
1	A		76.42857	125.00000	0.00000	-0.15703	-0.12500	-15.661E-9	-0.0023807	47.611E-9
1	A		81.52381	125.00000	0.00000	-0.09834	-0.12500	-12.660E-9	-0.0022888	45.774E-9
1	A		86.61905	125.00000	0.00000	-0.05350	-0.12500	-10.846E-9	-0.0022571	45.140E-9
1	A		91.71429	125.00000	0.00000	-0.02335	-0.12500	-10.020E-9	-0.0022846	45.691E-9
1	A		96.80952	125.00000	0.00000	-0.00708	-0.12500	-9.9951E-9	-0.0023666	47.331E-9
1	A		101.90476	125.00000	0.00000	-0.00309	-0.12500	-10.619E-9	-0.0024962	49.923E-9
1	A		107.00000	125.00000	0.00000	-0.09317	-0.083333	-3.4888E-9	-0.0017767	35.533E-9
1	A		0.00000	130.00000	0.00000	0.06717	-0.12500	-2.1417E-9	-621.82E-6	12.436E-9
1	A		5.09524	130.00000	0.00000	0.06268	-0.12500	-2.8696E-9	-725.75E-6	14.515E-9
1	A		10.19048	130.00000	0.00000	0.05481	-0.12500	-3.8620E-9	-849.94E-6	16.998E-9
1	A		15.28571	130.00000	0.00000	0.04256	-0.12500	-5.1990E-9	-996.83E-6	19.936E-9
1	A		20.38095	130.00000	0.00000	0.02495	-0.12500	-6.9593E-9	-0.0011674	23.347E-9
1	A		25.47619	130.00000	0.00000	0.00123	-0.12500	-9.1886E-9	-0.0013595	27.188E-9
1	A		30.57143	130.00000	0.00000	-0.02870	-0.12500	-11.842E-9	-0.0015659	31.317E-9
1	A		35.66667	130.00000	0.00000	-0.06367	-0.12500	-14.713E-9	-0.0017729	35.457E-9
1	A		40.76190	130.00000	0.00000	-0.10056	-0.12500	-17.388E-9	-0.0019600	39.198E-9
1	A		45.85714	130.00000	0.00000	-0.13402	-0.12500	-19.311E-9	-0.0021042	42.081E-9
1	A		50.95238	130.00000	0.00000	-0.15716	-0.12500	-19.994E-9	-0.0021874	43.745E-9
1	A		56.04762	130.00000	0.00000	-0.16387	-0.12500	-19.280E-9	-0.0022047	44.093E-9
1	A		61.14286	130.00000	0.00000	-0.15185	-0.12500	-17.445E-9	-0.0021673	43.344E-9
1	A		66.23810	130.00000	0.00000	-0.12399	-0.12500	-15.036E-9	-0.0020973	41.944E-9
1	A		71.33333	130.00000	0.00000	-0.08693	-0.12500	-12.609E-9	-0.0020198	40.394E-9
1	A		76.42857	130.00000	0.00000	-0.04790	-0.12500	-10.541E-9	-0.0019556	39.110E-9
1	A		81.52381	130.00000	0.00000	-0.01239	-0.12500	-9.0078E-9	-0.0019184	38.366E-9
1	A		86.61905	130.00000	0.00000	0.01637	-0.12500	-8.0408E-9	-0.0019149	38.297E-9
1	A		91.71429	130.00000	0.00000	0.03706	-0.12500	-7.5965E-9	-0.0019471	38.940E-9
1	A		96.80952	130.00000	0.00000	0.04954	-0.12500	-7.6064E-9	-0.0020132	40.263E-9
1	A		101.90476	130.00000	0.00000	0.05443	-0.12500	-7.9993E-9	-0.0021095	42.188E-9
1	A		107.00000	130.00000	0.00000	-0.03799	-0.083333	-2.5798E-9	-0.0014869	29.737E-9
1	A		0.00000	135.00000	0.00000	0.06955	-0.12500	-1.6958E-9	-554.55E-6	11.091E-9
1	A		5.09524	135.00000	0.00000	0.06749	-0.12500	-2.2050E-9	-637.44E-6	12.749E-9
1	A		10.19048	135.00000	0.00000	0.06324	-0.12500	-2.8687E-9	-733.70E-6	14.674E-9
1	A		15.28571	135.00000	0.00000	0.05628	-0.12500	-3.7194E-9	-844.00E-6	16.880E-9
1	A		20.38095	135.00000	0.00000	0.04616	-0.12500	-4.7797E-9	-967.78E-6	19.355E-9
1	A		25.47619	135.00000	0.00000	0.03269	-0.12500	-6.0468E-9	-0.0011025	22.049E-9
1	A		30.57143	135.00000	0.00000	0.01612	-0.12500	-7.4693E-9	-0.0012427	24.853E-9
1	A		35.66667	135.00000	0.00000	-0.00254	-0.12500	-8.9265E-9	-0.0013799	27.597E-9
1	A		40.76190	135.00000	0.00000	-0.02132	-0.12500	-10.227E-9	-0.0015031	30.061E-9
1	A		45.85714	135.00000	0.00000	-0.03735	-0.12500	-11.148E-9	-0.0016010	32.019E-9
1	A		50.95238	135.00000	0.00000	-0.04736	-0.12500	-11.509E-9	-0.0016656	33.311E-9
1	A		56.04762	135.00000	0.00000	-0.04871	-0.12500	-11.258E-9	-0.0016948	33.895E-9
1	A		61.14286	135.00000	0.00000	-0.04048	-0.12500	-10.496E-9	-0.0016940	33.879E-9
1	A		66.23810	135.00000	0.00000	-0.02396	-0.12500	-9.4331E-9	-0.0016739	33.477E-9
1	A		71.33333	135.00000	0.00000	-0.00213	-0.12500	-8.3035E-9	-0.0016474	32.946E-9
1	A		76.42857	135.00000	0.00000	0.02148	-0.12500	-7.2928E-9	-0.0016261	32.522E-9
1	A		81.52381	135.00000	0.00000	0.04384	-0.12500	-6.5130E-9	-0.0016189	32.377E-9
1	A		86.61905	135.00000	0.00000	0.06284	-0.12500	-6.0100E-9	-0.0016309	32.616E-9
1	A		91.71429	135.00000	0.00000	0.07734	-0.12500	-5.7863E-9	-0.0016641	33.281E-9
1	A		96.80952	135.00000	0.00000	0.08696	-0.12500	-5.8201E-9	-0.0017183	34.366E-9
1	A		101.90476	135.00000	0.00000	0.09188	-0.12500	-6.0787E-9	-0.0017913	35.826E-9
1	A		107.00000	135.00000	0.00000	0.00003	-0.083333	-1.9329E-9	-0.0012530	25.059E-9
1	A		0.00000	140.00000	0.00000	0.07083	-0.12500	-1.3435E-9	-495.14E-6	9.9026E-9
1	A		5.09524	140.00000	0.00000	0.07054	-0.12500	-1.7005E-9	-561.58E-6	11.231E-9
1	A		10.19048	140.00000	0.00000	0.06888	-0.12500	-2.1480E-9	-636.88E-6	12.737E-9
1	A		15.28571	140.00000	0.00000	0.06557	-0.12500	-2.6973E-9	-720.95E-6	14.419E-9
1	A		20.38095	140.00000	0.00000	0.06045	-0.12500	-3.3517E-9	-812.82E-6	16.256E-9
1	A		25.47619	140.00000	0.00000	0.05351	-0.12500	-4.0982E-9	-910.29E-6	18.205E-9
1	A		30.57143	140.00000	0.00000	0.04506	-0.12500	-4.8997E-9	-0.0010096	20.192E-9
1	A		35.66667	140.00000	0.00000	0.03582	-0.12500	-5.6897E-9	-0.0011056	22.112E-9
1	A		40.76190	140.00000	0.00000	0.02696	-0.12500	-6.3774E-9	-0.0011922	23.844E-9
1	A		45.85714	140.00000	0.00000	0.02002	-0.12500	-6.8662E-9	-0.0012637	25.273E-9
1	A		50.95238	140.00000	0.00000	0.01660	-0.12500	-7.0841E-9	-0.0013160	26.319E-9
1	A		56.04762	140.00000	0.00000	0.01794	-0.12500	-7.0115E-9	-0.0013484	26.968E-9
1	A		61.14286	140.00000	0.00000	0.02440	-0.12500	-6.6907E-9	-0.0013637	27.274E-9
1	A		66.23810	140.00000	0.00000	0.03535	-0.12500	-6.2107E-9	-0.0013674	27.348E-9
1	A		71.33333	140.00000	0.00000	0.04935	-0.12500	-5.6766E-9	-0.0013665	27.328E-9
1	A		76.42857	140.00000	0.00000	0.06459	-0.12500	-5.1811E-9	-0.0013675	27.349E-9
1	A		81.52381	140.00000	0.00000	0.07939	-0.12500	-4.7895E-9	-0.0013760	27.519E-9
1	A		86.61905	140.00000	0.00000	0.09243	-0.12500	-4.5374E-9	-0.0013954	27.907E-9
1	A		91.71429	140.00000	0.00000	0.10291	-0.12500	-4.4365E-9	-0.0014275	28.550E-9
1	A		96.80952	140.00000	0.00000	0.11045	-0.12500	-4.4822E-9	-0.0014724	29.448E-9
1	A		101.90476	140.00000	0.00000	0.11503	-0.12500	-4.6594E-9	-0.0015288	30.576E-9
1	A		107.00000	140.00000	0.00000	0.02576	-0.083333	-1.4657E-9	-0.0010628	21.257E-9
1	A		0.00000	145.00000	0.00000	0.07114	-0.12500	-1.0678E-9	-443.09E-6	8.8617E-9
1	A		5.09524	145.00000	0.00000	0.07209	-0.12500	-1.3199E-9	-496.74E-6	9.9347E-9
1	A		10.19048	145.00000	0.00000	0.07221	-0.12500	-1.6250E-9	-556.31E-6	11.126E-9
1	A		15.28571	145.00000	0.00000	0.07135	-0.12500	-1.9862E-9	-621.45E-6	12.429E-9
1	A		20.38095	145.00000	0.00000	0.06948	-0.12500	-2.4009E-9	-691.20E-6	13.824E-9
1	A		25.47619	145.00000	0.00000	0.06664	-0.12500	-2.8570E-9	-763.88E-6	15.277E-9
1	A		30.57143	145.00000	0.00000	0.06310	-0.12500	-3.3306E-9	-836.98E-6	16.739E-9
1	A		35.66667	145.00000	0.00000	0.05930	-0.12500	-3.7855E-9	-907.34E-6	18.146E-9
1	A		40.76190	145.00000	0.00000	0.05596	-0.12500	-4.1770E-9	-971.50E-6	19.430E-9
1	A		45.85714	145.00000	0.00000	0.05389	-0.12500	-4.4607E-9	-0.0010264	20.527E-9
1	A		50.95238	145.00000	0.00000	0.05391	-0.12500	-4.6057E-9	-0.0010699	21.397E-9
1	A		56.04762	145.00000	0.00000	0.05660	-0.12500	-4.6043E-9	-0.0011018	22.035E-9
1	A		61.14286	145.00000	0.00000	0.06211	-0.12500	-4.4759E-9	-0.0011235	22.470E-9
1	A		66.23810	145.00000	0.00000	0.07012	-0.12500	-4.2612E-9	-0.0011382	22.764E-9
1	A		71.33333	145.00000	0.00000	0.07986	-0.12500	-4.0105E-9	-0.0011496	22.992E-9
1	A		76.42857	145.00000	0.00000	0.09039	-0.12500	-3.7714E-9	-0.0011617	23.233E-9
1	A		81.52381	145.00000	0.00000	0.10073	-0.12500	-3.5810E-9	-0.0011777	23.553E-9
1	A		86.61905	145.00000	0.00000	0.11010	-0.12500	-3.4629E-9	-0.0012000	23.999E-9
1	A		91.71429	145.00000	0.00000	0.11795	-0.12500	-3.4279E-9	-0.0012297	24.594E-9
1	A		96.80952	145.00000	0.00000	0.12397	-0.12500	-3.4766E-9	-0.0012671	25.342E-9
1	A		101.90476	145.00000	0.00000	0.12809	-0.12500	-3.6023E-9	-0.0013113	26.227E-9
1	A		107.00000	145.00000	0.00000	0.04268	-0.083333	-1.1238E-9	-907.18E-6	18.143E-9
1	A		0.00000	150.00000	0.00000	0.07063	-0.12500	-853.11E-12	-397.68E-6	7.9535E-9
1	A		5.09524	150.00000	0.00000	0.07241	-0.12500	-1.0327E-9	-441.38E-6	8.8274E-9
1	A		10.19048	150.00000	0.00000	0.07370	-0.12500	-1.2438E-9	-489.09E-6	9.7817E-9
1	A		15.28571	150.00000	0.00000	0.07444	-0.12500	-1.4862E-9	-540.41E-6	10.808E-9
1	A		20.38095	150.00000	0.00000	0.07462	-0.12500	-1.7563E-9	-594.54E-6	11.891E-9
1	A		25.47619	150.00000	0.00000	0.07431	-0.12500	-2.0450E-9	-650.24E-6	13.005E-9
1	A		30.57143	150.00000	0.00000	0.07369	-0.12500	-2.3377E-9	-705.87E-6	14.117E-9
1	A		35.66667	150.00000	0.00000	0.07305	-0.12500	-2.6144E-9	-759.44E-6	15.189E-9
1	A		40.76190	150.00000	0.00000	0.07278	-0.12500	-2.8523E-9	-808.94E-6	16.179E-9
1	A		45.85714	150.00000	0.00000	0.07334	-0.12500	-3.0300E-9	-852.63E-6	17.052E-9
1	A		50.95238	150.00000	0.00000	0.07515	-0.12500	-3.1333E-9	-889.42E-6	17.788E-9
1	A		56.04762	150.00000	0.00000	0.07849	-0.12500	-3.1593E-9	-919.19E-6	18.383E-9
1	A		61.14286	150.00000	0.00000	0.08341	-0.12500	-3.1174E-9	-942.78E-6	18.855E-9
1	A		66.23810	150.00000	0.00000	0.08973	-0.12500	-3.0277E-9	-961.92E-6	19.238E-9
1	A		71.33333	150.00000	0.00000	0.09703	-0.12500	-2.9154E-9	-978.82E-6	19.576E-9
1	A		76.42857	150.00000	0.00000	0.10478	-0.12500	-2.8056E-9	-995.75E-6	19.915E-9
1	A		81.52381	150.00000	0.00000	0.11241	-0.12500	-2.7196E-9	-0.0010147	20.294E-9
1	A		86.61905	150.00000	0.00000	0.11946	-0.12500	-2.6719E-9	-0.0010372	20.744E-9
1	A		91.71429	150.00000	0.00000	0.12555	-0.12500	-2.6705E-9	-0.0010641	21.281E-9
1	A		96.80952	150.00000	0.00000	0.13047	-0.12500	-2.7171E-9	-0.0010953	21.906E-9
1	A		101.90476	150.00000	0.00000	0.13413	-0.12500	-2.8087E-9	-0.0011305	22.609E-9
1	A		107.00000	150.00000	0.00000	0.05334	-0.083333	-870.62E-12	-778.92E-6	15.578E-9
2	B		107.00000	0.00000	0.00000	-0.02730	-0.083333	-2.0493E-9	-0.0012105	24.209E-9
2	B		112.15000	0.00000	0.00000	-0.04168	-0.083333	-2.3277E-9	-0.0013016	26.033E-9
2	B		117.30000	0.00000	0.00000	-0.05665	-0.083333	-2.5877E-9	-0.0013846	27.692E-9
2	B		122.45000	0.00000	0.00000	-0.07123	-0.083333	-2.8059E-9	-0.0014542	29.084E-9
2	B		127.60000	0.00000	0.00000	-0.08437	-0.083333	-2.9613E-9	-0.0015058	30.115E-9
2	B		132.75000	0.00000	0.00000	-0.09505	-0.083333	-3.0394E-9	-0.0015358	30.716E-9
2	B		137.90000	0.00000	0.00000	-0.10238	-0.083333	-3.0360E-9	-0.0015428	30.856E-9
2	B		143.05000	0.00000	0.00000	-0.10570	-0.083333	-2.9567E-9	-0.0015270	30.539E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	148.20000	0.00000	0.00000	-0.10466	-0.083333	-2.8142E-9	-0.0014901	29.802E-9
2	B	153.35000	0.00000	0.00000	-0.09921	-0.083333	-2.6248E-9	-0.0014352	28.704E-9
2	B	158.50000	0.00000	0.00000	-0.08971	-0.083333	-2.4046E-9	-0.0013659	27.318E-9
2	B	163.65000	0.00000	0.00000	-0.07681	-0.083333	-2.1679E-9	-0.0012859	25.718E-9
2	B	168.80000	0.00000	0.00000	-0.06144	-0.083333	-1.9266E-9	-0.0011988	23.977E-9
2	B	173.95000	0.00000	0.00000	-0.04467	-0.083333	-1.6901E-9	-0.0011080	22.160E-9
2	B	179.10000	0.00000	0.00000	-0.02758	-0.083333	-1.4654E-9	-0.0010164	20.328E-9
2	B	184.25000	0.00000	0.00000	-0.01113	-0.083333	-1.2575E-9	-926.40E-6	18.528E-9
2	B	189.40000	0.00000	0.00000	0.00391	-0.083333	-1.0698E-9	-839.91E-6	16.798E-9
2	B	194.55000	0.00000	0.00000	0.01702	-0.083333	-903.43E-12	-758.29E-6	15.166E-9
2	B	199.70000	0.00000	0.00000	0.02794	-0.083333	-758.64E-12	-682.44E-6	13.649E-9
2	B	204.85000	0.00000	0.00000	0.03662	-0.083333	-634.40E-12	-612.81E-6	12.256E-9
2	B	210.00000	0.00000	0.00000	0.04316	-0.083333	-529.04E-12	-549.52E-6	10.990E-9
2	B	107.00000	5.00000	0.00000	-0.07995	-0.083333	-2.8910E-9	-0.0014684	29.368E-9
2	B	112.15000	5.00000	0.00000	-0.10252	-0.083333	-3.3511E-9	-0.0015968	31.935E-9
2	B	117.30000	5.00000	0.00000	-0.12613	-0.083333	-3.7885E-9	-0.0017151	34.301E-9
2	B	122.45000	5.00000	0.00000	-0.14917	-0.083333	-4.1579E-9	-0.0018149	36.298E-9
2	B	127.60000	5.00000	0.00000	-0.16994	-0.083333	-4.4167E-9	-0.0018885	37.770E-9
2	B	132.75000	5.00000	0.00000	-0.18678	-0.083333	-4.5368E-9	-0.0019304	38.608E-9
2	B	137.90000	5.00000	0.00000	-0.19827	-0.083333	-4.5122E-9	-0.0019383	38.765E-9
2	B	143.05000	5.00000	0.00000	-0.20333	-0.083333	-4.3582E-9	-0.0019130	38.259E-9
2	B	148.20000	5.00000	0.00000	-0.20137	-0.083333	-4.1033E-9	-0.0018582	37.163E-9
2	B	153.35000	5.00000	0.00000	-0.19234	-0.083333	-3.7799E-9	-0.0017789	35.578E-9
2	B	158.50000	5.00000	0.00000	-0.17678	-0.083333	-3.4173E-9	-0.0016809	33.618E-9
2	B	163.65000	5.00000	0.00000	-0.15579	-0.083333	-3.0389E-9	-0.0015698	31.396E-9
2	B	168.80000	5.00000	0.00000	-0.13090	-0.083333	-2.6624E-9	-0.0014508	29.016E-9
2	B	173.95000	5.00000	0.00000	-0.10389	-0.083333	-2.3011E-9	-0.0013286	26.571E-9
2	B	179.10000	5.00000	0.00000	-0.07654	-0.083333	-1.9647E-9	-0.0012070	24.140E-9
2	B	184.25000	5.00000	0.00000	-0.05042	-0.083333	-1.6595E-9	-0.0010893	21.785E-9
2	B	189.40000	5.00000	0.00000	-0.02671	-0.083333	-1.3890E-9	-977.77E-6	19.555E-9
2	B	194.55000	5.00000	0.00000	-0.00616	-0.083333	-1.1542E-9	-874.08E-6	17.481E-9
2	B	199.70000	5.00000	0.00000	0.01091	-0.083333	-953.78E-12	-779.10E-6	15.582E-9
2	B	204.85000	5.00000	0.00000	0.02450	-0.083333	-785.25E-12	-693.16E-6	13.863E-9
2	B	210.00000	5.00000	0.00000	0.03485	-0.083333	-645.11E-12	-616.12E-6	12.322E-9
2	B	107.00000	10.00000	0.00000	-0.15685	-0.083333	-4.1846E-9	-0.0018041	36.082E-9
2	B	112.15000	10.00000	0.00000	-0.19215	-0.083333	-4.9778E-9	-0.0019894	39.787E-9
2	B	117.30000	10.00000	0.00000	-0.22940	-0.083333	-5.7507E-9	-0.0021630	43.259E-9
2	B	122.45000	10.00000	0.00000	-0.26586	-0.083333	-6.4094E-9	-0.0023106	46.210E-9
2	B	127.60000	10.00000	0.00000	-0.29878	-0.083333	-6.8614E-9	-0.0024186	48.371E-9
2	B	132.75000	10.00000	0.00000	-0.32548	-0.083333	-7.0473E-9	-0.0024777	49.553E-9
2	B	137.90000	10.00000	0.00000	-0.34366	-0.083333	-6.9604E-9	-0.0024846	49.691E-9
2	B	143.05000	10.00000	0.00000	-0.35158	-0.083333	-6.6432E-9	-0.0024422	48.842E-9
2	B	148.20000	10.00000	0.00000	-0.34825	-0.083333	-6.1635E-9	-0.0023575	47.149E-9
2	B	153.35000	10.00000	0.00000	-0.33356	-0.083333	-5.5890E-9	-0.0022397	44.794E-9
2	B	158.50000	10.00000	0.00000	-0.30837	-0.083333	-4.9729E-9	-0.0020980	41.960E-9
2	B	163.65000	10.00000	0.00000	-0.27448	-0.083333	-4.3520E-9	-0.0019408	38.816E-9
2	B	168.80000	10.00000	0.00000	-0.23446	-0.083333	-3.7512E-9	-0.0017755	35.510E-9
2	B	173.95000	10.00000	0.00000	-0.19130	-0.083333	-3.1880E-9	-0.0016085	32.171E-9
2	B	179.10000	10.00000	0.00000	-0.14799	-0.083333	-2.6745E-9	-0.0014451	28.903E-9
2	B	184.25000	10.00000	0.00000	-0.10704	-0.083333	-2.2184E-9	-0.0012894	25.788E-9
2	B	189.40000	10.00000	0.00000	-0.07028	-0.083333	-1.8227E-9	-0.0011443	22.886E-9
2	B	194.55000	10.00000	0.00000	-0.03877	-0.083333	-1.4868E-9	-0.0010116	20.232E-9
2	B	199.70000	10.00000	0.00000	-0.01285	-0.083333	-1.2065E-9	-891.97E-6	17.839E-9
2	B	204.85000	10.00000	0.00000	0.00767	-0.083333	-976.10E-12	-785.44E-6	15.709E-9
2	B	210.00000	10.00000	0.00000	0.02328	-0.083333	-788.67E-12	-691.43E-6	13.828E-9
2	B	107.00000	15.00000	0.00000	-0.26805	-0.083333	-6.2371E-9	-0.0022484	44.968E-9
2	B	112.15000	15.00000	0.00000	-0.32347	-0.083333	-7.6740E-9	-0.0025240	50.479E-9
2	B	117.30000	15.00000	0.00000	-0.38233	-0.083333	-9.1244E-9	-0.0027878	55.756E-9
2	B	122.45000	15.00000	0.00000	-0.44026	-0.083333	-10.380E-9	-0.0030143	60.284E-9
2	B	127.60000	15.00000	0.00000	-0.49268	-0.083333	-11.221E-9	-0.0031782	63.563E-9
2	B	132.75000	15.00000	0.00000	-0.53527	-0.083333	-11.506E-9	-0.0032625	65.249E-9
2	B	137.90000	15.00000	0.00000	-0.56433	-0.083333	-11.236E-9	-0.0032629	65.257E-9
2	B	143.05000	15.00000	0.00000	-0.57704	-0.083333	-10.536E-9	-0.0031873	63.745E-9
2	B	148.20000	15.00000	0.00000	-0.57172	-0.083333	-9.5798E-9	-0.0030509	61.016E-9
2	B	153.35000	15.00000	0.00000	-0.54808	-0.083333	-8.5134E-9	-0.0028702	57.404E-9
2	B	158.50000	15.00000	0.00000	-0.50746	-0.083333	-7.4312E-9	-0.0026603	53.206E-9
2	B	163.65000	15.00000	0.00000	-0.45282	-0.083333	-6.3848E-9	-0.0024335	48.670E-9
2	B	168.80000	15.00000	0.00000	-0.38851	-0.083333	-5.4029E-9	-0.0022000	44.000E-9
2	B	173.95000	15.00000	0.00000	-0.31964	-0.083333	-4.5045E-9	-0.0019684	39.368E-9
2	B	179.10000	15.00000	0.00000	-0.25127	-0.083333	-3.7035E-9	-0.0017457	34.914E-9
2	B	184.25000	15.00000	0.00000	-0.18751	-0.083333	-3.0080E-9	-0.0015373	30.745E-9
2	B	189.40000	15.00000	0.00000	-0.13117	-0.083333	-2.4191E-9	-0.0013466	26.931E-9
2	B	194.55000	15.00000	0.00000	-0.08361	-0.083333	-1.9316E-9	-0.0011753	23.505E-9
2	B	199.70000	15.00000	0.00000	-0.04505	-0.083333	-1.5354E-9	-0.0010237	20.475E-9
2	B	204.85000	15.00000	0.00000	-0.01490	-0.083333	-1.2179E-9	-891.20E-6	17.824E-9
2	B	210.00000	15.00000	0.00000	0.00787	-0.083333	-966.00E-12	-776.22E-6	15.524E-9
2	B	107.00000	20.00000	0.00000	-0.42769	-0.083333	-9.6079E-9	-0.0028473	56.945E-9
2	B	112.15000	20.00000	0.00000	-0.51516	-0.083333	-12.367E-9	-0.0032719	65.436E-9
2	B	117.30000	20.00000	0.00000	-0.60893	-0.083333	-15.300E-9	-0.0036908	73.814E-9
2	B	122.45000	20.00000	0.00000	-0.70160	-0.083333	-17.912E-9	-0.0040555	81.108E-9
2	B	127.60000	20.00000	0.00000	-0.78560	-0.083333	-19.617E-9	-0.0043154	86.306E-9
2	B	132.75000	20.00000	0.00000	-0.85404	-0.083333	-20.029E-9	-0.0044363	88.724E-9
2	B	137.90000	20.00000	0.00000	-0.90100	-0.083333	-19.196E-9	-0.0044138	88.273E-9
2	B	143.05000	20.00000	0.00000	-0.92189	-0.083333	-17.523E-9	-0.0042701	85.400E-9
2	B	148.20000	20.00000	0.00000	-0.91379	-0.083333	-15.486E-9	-0.0040393	80.784E-9
2	B	153.35000	20.00000	0.00000	-0.87601	-0.083333	-13.410E-9	-0.0037528	75.054E-9
2	B	158.50000	20.00000	0.00000	-0.81048	-0.083333	-11.443E-9	-0.0034341	68.681E-9
2	B	163.65000	20.00000	0.00000	-0.72202	-0.083333	-9.6310E-9	-0.0031002	62.003E-9
2	B	168.80000	20.00000	0.00000	-0.61809	-0.083333	-7.9834E-9	-0.0027643	55.285E-9
2	B	173.95000	20.00000	0.00000	-0.50769	-0.083333	-6.5119E-9	-0.0024376	48.752E-9
2	B	179.10000	20.00000	0.00000	-0.39957	-0.083333	-5.2297E-9	-0.0021295	42.589E-9
2	B	184.25000	20.00000	0.00000	-0.30057	-0.083333	-4.1440E-9	-0.0018467	36.933E-9
2	B	189.40000	20.00000	0.00000	-0.21483	-0.083333	-3.2499E-9	-0.0015932	31.864E-9
2	B	194.55000	20.00000	0.00000	-0.14394	-0.083333	-2.5314E-9	-0.0013704	27.407E-9
2	B	199.70000	20.00000	0.00000	-0.08757	-0.083333	-1.9648E-9	-0.0011774	23.547E-9
2	B	204.85000	20.00000	0.00000	-0.04423	-0.083333	-1.5241E-9	-0.0010119	20.238E-9
2	B	210.00000	20.00000	0.00000	-0.01193	-0.083333	-1.1842E-9	-871.13E-6	17.423E-9
2	B	107.00000	25.00000	0.00000	-0.65573	-0.083333	-15.346E-9	-0.0036696	73.390E-9
2	B	112.15000	25.00000	0.00000	-0.79533	-0.083333	-21.011E-9	-0.0043511	87.020E-9
2	B	117.30000	25.00000	0.00000	-0.94642	-0.083333	-27.522E-9	-0.0050540	101.08E-9
2	B	122.45000	25.00000	0.00000	-1.09611	-0.083333	-33.634E-9	-0.0056814	113.62E-9
2	B	127.60000	25.00000	0.00000	-1.23190	-0.083333	-37.551E-9	-0.0061196	122.39E-9
2	B	132.75000	25.00000	0.00000	-1.34289	-0.083333	-38.008E-9	-0.0062912	125.82E-9
2	B	137.90000	25.00000	0.00000	-1.41981	-0.083333	-35.288E-9	-0.0061966	123.93E-9
2	B	143.05000	25.00000	0.00000	-1.45506	-0.083333	-30.870E-9	-0.0059025	118.05E-9
2	B	148.20000	25.00000	0.00000	-1.44350	-0.083333	-26.184E-9	-0.0054903	109.80E-9
2	B	153.35000	25.00000	0.00000	-1.38337	-0.083333	-21.935E-9	-0.0050196	100.39E-9
2	B	158.50000	25.00000	0.00000	-1.27719	-0.083333	-18.243E-9	-0.0045240	90.477E-9
2	B	163.65000	25.00000	0.00000	-1.13261	-0.083333	-15.014E-9	-0.0040224	80.446E-9
2	B	168.80000	25.00000	0.00000	-0.96263	-0.083333	-12.165E-9	-0.0035296	70.591E-9
2	B	173.95000	25.00000	0.00000	-0.78366	-0.083333	-9.6756E-9	-0.0030598	61.196E-9
2	B	179.10000	25.00000	0.00000	-0.61150	-0.083333	-7.5564E-9	-0.0026257	52.513E-9
2	B	184.25000	25.00000	0.00000	-0.45759	-0.083333	-5.8124E-9	-0.0022361	44.722E-9
2	B	189.40000	25.00000	0.00000	-0.32779	-0.083333	-4.4233E-9	-0.0018953	37.905E-9
2	B	194.55000	25.00000	0.00000	-0.22327	-0.083333	-3.3459E-9	-0.0016030	32.059E-9
2	B	199.70000	25.00000	0.00000	-0.14216	-0.083333	-2.5264E-9	-0.0013558	27.116E-9
2	B	204.85000	25.00000	0.00000	-0.08114	-0.083333	-1.9107E-9	-0.0011488	22.977E-9
2	B	210.00000	25.00000	0.00000	-0.03646	-0.083333	-1.4510E-9	-976.46E-6	19.529E-9
2	B	107.00000	30.00000	0.00000	-0.98023	-0.083333	-25.445E-9	-0.0048171	96.339E-9
2	B	112.15000	30.00000	0.00000	-1.20703	-0.083333	-37.973E-9	-0.0059632	119.26E-9
2	B	117.30000	30.00000	0.00000	-1.45473	-0.083333	-54.192E-9	-0.0072284	144.56E-9
2	B	122.45000	30.00000	0.00000	-1.70006	-0.083333	-70.965E-9	-0.0084116	168.22E-9
2	B	127.60000	30.00000	0.00000	-1.92213	-0.083333	-81.842E-9	-0.0092233	184.46E-9
2	B	132.75000	30.00000	0.00000	-2.10439	-0.083333	-81.513E-9	-0.0094518	189.03E-9
2	B	137.90000	30.00000	0.00000	-2.23284	-0.083333	-71.543E-9	-0.0091287	182.57E-9
2	B	143.05000	30.00000	0.00000	-2.29444	-0.083333	-58.327E-9	-0.0084718	169.43E-9
2	B	148.20000	30.00000	0.00000	-2.27959	-0.083333	-46.581E-9	-0.0076900	153.79E-9
2	B	153.35000	30.00000	0.00000	-2.18433	-0.083333	-37.448E-9	-0.0068898	137.79E-9
2	B	158.50000	30.00000	0.00000	-2.01108	-0.083333	-30.310E-9	-0.0061019	122.03E-9
2	B	163.65000	30.00000	0.00000	-1.77099	-0.083333	-24.389E-9	-0.0053331	106.66E-9
2	B	168.80000	30.00000	0.00000	-1.48701	-0.083333	-19.274E-9	-0.0045938	91.873E-9
2	B	173.95000	30.00000	0.00000	-1.19103	-0.083333	-14.875E-9	-0.0039022	78.042E-9
2	B	179.10000	30.00000	0.00000	-0.91326	-0.083333	-11.222E-9	-0.0032771	65.540E-9
2	B	184.25000	30.00000	0.00000	-0.67298	-0.083333	-8.3198E-9	-0.0027307	54.613E-9
2	B	189.40000	30.00000	0.00000	-0.47730	-0.083333	-6.1025E-9	-0.0022663	45.324E-9
2	B	194.55000	30.00000	0.00000	-0.32490	-0.083333	-4.4574E-9	-0.0018795	37.590E-9
2	B	199.70000	30.00000	0.00000	-0.21015	-0.083333	-3.2594E-9	-0.0015618	31.235E-9
2	B	204.85000	30.00000	0.00000	-0.12601	-0.083333	-2.3952E-9	-0.0013026	26.052E-9
2	B	210.00000	30.00000	0.00000	-0.06569	-0.083333	-1.7735E-9	-0.0010919	21.838E-9
2	B	107.00000	35.00000	0.00000	-1.44031	-0.083333	-43.643E-9	-0.0064329	128.65E-9
2	B	112.15000	35.00000	0.00000	-1.81910	-0.083333	-73.509E-9	-0.0084570	169.13E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	117.30000	35.00000	0.00000	-2.23633	-0.083333	-119.92E-9	-0.010944	218.86E-9
2	B	122.45000	35.00000	0.00000	-2.64734	-0.083333	-177.15E-9	-0.013491	269.80E-9
2	B	127.60000	35.00000	0.00000	-3.01640	-0.083333	-217.70E-9	-0.015247	304.92E-9
2	B	132.75000	35.00000	0.00000	-3.32118	-0.083333	-210.70E-9	-0.015468	309.33E-9
2	B	137.90000	35.00000	0.00000	-3.54312	-0.083333	-166.30E-9	-0.014347	286.93E-9
2	B	143.05000	35.00000	0.00000	-3.65628	-0.083333	-119.89E-9	-0.012717	254.33E-9
2	B	148.20000	35.00000	0.00000	-3.64138	-0.083333	-87.588E-9	-0.011140	222.78E-9
2	B	153.35000	35.00000	0.00000	-3.49162	-0.083333	-67.173E-9	-0.0097418	194.83E-9
2	B	158.50000	35.00000	0.00000	-3.20662	-0.083333	-53.097E-9	-0.0084687	169.37E-9
2	B	163.65000	35.00000	0.00000	-2.79811	-0.083333	-41.862E-9	-0.0072648	145.29E-9
2	B	168.80000	35.00000	0.00000	-2.30611	-0.083333	-32.163E-9	-0.0061233	122.46E-9
2	B	173.95000	35.00000	0.00000	-1.79939	-0.083333	-23.892E-9	-0.0050728	101.45E-9
2	B	179.10000	35.00000	0.00000	-1.34156	-0.083333	-17.230E-9	-0.0041470	82.938E-9
2	B	184.25000	35.00000	0.00000	-0.96384	-0.083333	-12.181E-9	-0.0033639	67.276E-9
2	B	189.40000	35.00000	0.00000	-0.67023	-0.083333	-8.5332E-9	-0.0027219	54.438E-9
2	B	194.55000	35.00000	0.00000	-0.45097	-0.083333	-5.9753E-9	-0.0022063	44.126E-9
2	B	199.70000	35.00000	0.00000	-0.29170	-0.083333	-4.2091E-9	-0.0017968	35.935E-9
2	B	204.85000	35.00000	0.00000	-0.17836	-0.083333	-2.9945E-9	-0.0014728	29.455E-9
2	B	210.00000	35.00000	0.00000	-0.09906	-0.083333	-2.1566E-9	-0.0012163	24.325E-9
2	B	107.00000	40.00000	0.00000	-2.08695	-0.083333	-76.372E-9	-0.0086889	173.77E-9
2	B	112.15000	40.00000	0.00000	-2.74876	-0.083333	-152.12E-9	-0.012417	248.32E-9
2	B	117.30000	40.00000	0.00000	-3.48294	-0.083333	-307.46E-9	-0.017831	356.59E-9
2	B	122.45000	40.00000	0.00000	-4.19771	-0.083333	-570.82E-9	-0.024479	489.51E-9
2	B	127.60000	40.00000	0.00000	-4.82622	-0.083333	-812.38E-9	-0.029503	589.97E-9
2	B	132.75000	40.00000	0.00000	-5.34652	-0.083333	-747.78E-9	-0.029161	583.14E-9
2	B	137.90000	40.00000	0.00000	-5.76044	-0.083333	-471.78E-9	-0.024686	493.66E-9
2	B	143.05000	40.00000	0.00000	-5.98582	-0.083333	-270.94E-9	-0.020091	401.78E-9
2	B	148.20000	40.00000	0.00000	-5.98095	-0.083333	-174.36E-9	-0.016737	334.72E-9
2	B	153.35000	40.00000	0.00000	-5.74862	-0.083333	-128.21E-9	-0.014272	285.43E-9
2	B	158.50000	40.00000	0.00000	-5.27825	-0.083333	-100.29E-9	-0.012201	244.00E-9
2	B	163.65000	40.00000	0.00000	-4.55815	-0.083333	-77.825E-9	-0.010264	205.27E-9
2	B	168.80000	40.00000	0.00000	-3.64698	-0.083333	-57.719E-9	-0.0084243	168.48E-9
2	B	173.95000	40.00000	0.00000	-2.72460	-0.083333	-40.652E-9	-0.0067550	135.09E-9
2	B	179.10000	40.00000	0.00000	-1.94653	-0.083333	-27.533E-9	-0.0053315	106.63E-9
2	B	184.25000	40.00000	0.00000	-1.34791	-0.083333	-18.270E-9	-0.0041796	83.590E-9
2	B	189.40000	40.00000	0.00000	-0.91067	-0.083333	-12.072E-9	-0.0032790	65.579E-9
2	B	194.55000	40.00000	0.00000	-0.60082	-0.083333	-8.0333E-9	-0.0025876	51.752E-9
2	B	199.70000	40.00000	0.00000	-0.38503	-0.083333	-5.4197E-9	-0.0020601	41.202E-9
2	B	204.85000	40.00000	0.00000	-0.23649	-0.083333	-3.7196E-9	-0.0016570	33.139E-9
2	B	210.00000	40.00000	0.00000	-0.13523	-0.083333	-2.6001E-9	-0.0013471	26.941E-9
2	B	107.00000	45.00000	0.00000	-2.95016	-0.083333	-132.12E-9	-0.011700	233.99E-9
2	B	112.15000	45.00000	0.00000	-4.21274	-0.083333	-327.62E-9	-0.018666	373.28E-9
2	B	117.30000	45.00000	0.00000	-5.60030	-0.083333	-932.82E-9	-0.031676	633.40E-9
2	B	122.45000	45.00000	0.00000	-6.93939	-0.083333	-2.7819E-6	-0.054430	1.0883E-6
2	B	127.60000	45.00000	0.00000	-8.07828	-0.083333	-6.0230E-6	-0.078850	1.5763E-6
2	B	132.75000	45.00000	0.00000	-8.85987	-0.083333	-5.0902E-6	-0.073008	1.4596E-6
2	B	137.90000	45.00000	0.00000	-9.85552	-0.083333	-1.7894E-6	-0.048227	964.33E-9
2	B	143.05000	45.00000	0.00000	-10.35853	-0.083333	-663.62E-9	-0.033352	666.97E-9
2	B	148.20000	45.00000	0.00000	-10.37590	-0.083333	-367.65E-9	-0.026145	522.86E-9
2	B	153.35000	45.00000	0.00000	-10.02378	-0.083333	-268.60E-9	-0.021927	438.50E-9
2	B	158.50000	45.00000	0.00000	-9.26119	-0.083333	-213.61E-9	-0.018564	371.26E-9
2	B	163.65000	45.00000	0.00000	-7.93637	-0.083333	-163.76E-9	-0.015303	306.03E-9
2	B	168.80000	45.00000	0.00000	-5.99236	-0.083333	-115.15E-9	-0.012118	242.35E-9
2	B	173.95000	45.00000	0.00000	-4.13133	-0.083333	-74.631E-9	-0.0092770	185.53E-9
2	B	179.10000	45.00000	0.00000	-2.79215	-0.083333	-46.074E-9	-0.0069754	139.50E-9
2	B	184.25000	45.00000	0.00000	-1.83709	-0.083333	-28.029E-9	-0.0052302	104.60E-9
2	B	189.40000	45.00000	0.00000	-1.19512	-0.083333	-17.194E-9	-0.0039507	79.011E-9
2	B	194.55000	45.00000	0.00000	-0.76862	-0.083333	-10.767E-9	-0.0030223	60.446E-9
2	B	199.70000	45.00000	0.00000	-0.48531	-0.083333	-6.9180E-9	-0.0023468	46.934E-9
2	B	204.85000	45.00000	0.00000	-0.29700	-0.083333	-4.5667E-9	-0.0018501	37.001E-9
2	B	210.00000	45.00000	0.00000	-0.17197	-0.083333	-3.0945E-9	-0.0014799	29.599E-9
2	B	107.00000	50.00000	0.00000	-3.33261	-0.083333	-213.75E-9	-0.015294	305.86E-9
2	B	112.15000	50.00000	0.00000	-6.53421	-0.083333	-677.42E-9	-0.027675	553.42E-9
2	B	117.30000	50.00000	0.00000	-9.33579	-0.083333	-3.2226E-6	-0.060054	1.2007E-6
2	B	122.45000	50.00000	0.00000	-12.38360	-0.083333	-28.583E-6	-0.17222	3.4409E-6
2	B	127.60000	50.00000	0.00000	-15.43165	-0.083333	-492.92E-6	-0.60758	12.093E-6
2	B	132.75000	50.00000	0.00000	-16.10507	-0.083333	-429.33E-6	-0.48680	9.6845E-6
2	B	137.90000	50.00000	0.00000	-29.77539	-0.083333	-8.7790E-6	-0.10679	2.1348E-6
2	B	143.05000	50.00000	0.00000	-30.72209	-0.083333	-1.6244E-6	-0.056872	1.1373E-6
2	B	148.20000	50.00000	0.00000	-30.72008	-0.083333	-845.86E-9	-0.042901	857.91E-9
2	B	153.35000	50.00000	0.00000	-30.20967	-0.083333	-667.81E-9	-0.036361	727.14E-9
2	B	158.50000	50.00000	0.00000	-29.05863	-0.083333	-559.87E-9	-0.030929	618.51E-9
2	B	163.65000	50.00000	0.00000	-26.66184	-0.083333	-422.25E-9	-0.024892	497.80E-9
2	B	168.80000	50.00000	0.00000	-19.27407	-0.083333	-269.27E-9	-0.018627	372.52E-9
2	B	173.95000	50.00000	0.00000	-5.87465	-0.083333	-151.10E-9	-0.013252	265.03E-9
2	B	179.10000	50.00000	0.00000	-3.95878	-0.083333	-80.831E-9	-0.0092846	185.68E-9
2	B	184.25000	50.00000	0.00000	-2.41876	-0.083333	-43.636E-9	-0.0065639	131.27E-9
2	B	189.40000	50.00000	0.00000	-1.50450	-0.083333	-24.400E-9	-0.0047358	94.712E-9
2	B	194.55000	50.00000	0.00000	-0.94082	-0.083333	-14.246E-9	-0.0034984	69.966E-9
2	B	199.70000	50.00000	0.00000	-0.58404	-0.083333	-8.6819E-9	-0.0026450	52.900E-9
2	B	204.85000	50.00000	0.00000	-0.35476	-0.083333	-5.5050E-9	-0.0020431	40.861E-9
2	B	210.00000	50.00000	0.00000	-0.20622	-0.083333	-3.6166E-9	-0.0016087	32.173E-9
2	B	107.00000	55.00000	0.00000	-5.14610	-0.083333	-301.60E-9	-0.018720	374.37E-9
2	B	112.15000	55.00000	0.00000	-13.87007	-0.083333	-1.1518E-6	-0.037605	751.97E-9
2	B	117.30000	55.00000	0.00000	-31.71247	-0.083333	-8.9806E-6	-0.10429	2.0847E-6
2	B	122.45000	55.00000	0.00000	-39.38240	-0.083333	-0.0042430	-1.3877	27.244E-6
2	B	127.60000	55.00000	0.00000	-51.90923	-0.083333	-30.000	-70.654	-0.0021869
2	B	132.75000	55.00000	0.00000	-49.91164	-0.083333	-29.064	-59.258	-0.0023025
2	B	137.90000	55.00000	0.00000	-45.45700	-0.083333	-24.515E-6	-0.20441	4.0852E-6
2	B	143.05000	55.00000	0.00000	-45.77184	-0.083333	-3.7882E-6	-0.097779	1.9551E-6
2	B	148.20000	55.00000	0.00000	-45.62706	-0.083333	-2.5030E-6	-0.077817	1.5560E-6
2	B	153.35000	55.00000	0.00000	-44.95092	-0.083333	-2.3383E-6	-0.069790	1.3955E-6
2	B	158.50000	55.00000	0.00000	-43.42758	-0.083333	-2.1444E-6	-0.061001	1.2198E-6
2	B	163.65000	55.00000	0.00000	-40.04108	-0.083333	-1.5678E-6	-0.047406	947.92E-9
2	B	168.80000	55.00000	0.00000	-29.57585	-0.083333	-806.78E-9	-0.031764	635.19E-9
2	B	173.95000	55.00000	0.00000	-11.79900	-0.083333	-343.18E-9	-0.019829	396.54E-9
2	B	179.10000	55.00000	0.00000	-5.36816	-0.083333	-146.58E-9	-0.012490	249.78E-9
2	B	184.25000	55.00000	0.00000	-3.01290	-0.083333	-67.545E-9	-0.0081828	163.65E-9
2	B	189.40000	55.00000	0.00000	-1.79683	-0.083333	-33.881E-9	-0.0055992	111.98E-9
2	B	194.55000	55.00000	0.00000	-1.09538	-0.083333	-18.344E-9	-0.0039855	79.707E-9
2	B	199.70000	55.00000	0.00000	-0.66942	-0.083333	-10.598E-9	-0.0029343	58.685E-9
2	B	204.85000	55.00000	0.00000	-0.40333	-0.083333	-6.4644E-9	-0.0022229	44.456E-9
2	B	210.00000	55.00000	0.00000	-0.23440	-0.083333	-4.1261E-9	-0.0017249	34.497E-9
2	B	107.00000	60.00000	0.00000	-6.89033	-0.083333	-353.40E-9	-0.020811	416.18E-9
2	B	112.15000	60.00000	0.00000	-32.26796	-0.083333	-1.4280E-6	-0.043663	873.09E-9
2	B	117.30000	60.00000	0.00000	-45.62743	-0.083333	-11.624E-6	-0.12927	2.5840E-6
2	B	122.45000	60.00000	0.00000	-49.66370	-0.083333	-0.0020990	-1.3257	26.263E-6
2	B	127.60000	60.00000	0.00000	-62.93424	-0.083333	-30.000	-71.091	-0.0021782
2	B	132.75000	60.00000	0.00000	-60.25714	-0.083333	-29.958	-67.467	-0.0022457
2	B	137.90000	60.00000	0.00000	-51.44450	-0.083333	-40.701E-6	-0.31735	6.3421E-6
2	B	143.05000	60.00000	0.00000	-51.09359	-0.083333	-14.572E-6	-0.19655	3.9292E-6
2	B	148.20000	60.00000	0.00000	-50.85646	-0.083333	-15.687E-6	-0.18624	3.7228E-6
2	B	153.35000	60.00000	0.00000	-50.09902	-0.083333	-17.167E-6	-0.18447	3.6873E-6
2	B	158.50000	60.00000	0.00000	-48.34267	-0.083333	-19.079E-6	-0.17489	3.4954E-6
2	B	163.65000	60.00000	0.00000	-44.34882	-0.083333	-13.338E-6	-0.12856	2.5697E-6
2	B	168.80000	60.00000	0.00000	-33.08121	-0.083333	-3.6299E-6	-0.064024	1.2800E-6
2	B	173.95000	60.00000	0.00000	-15.60454	-0.083333	-852.02E-9	-0.030765	615.20E-9
2	B	179.10000	60.00000	0.00000	-6.45820	-0.083333	-261.46E-9	-0.016615	332.27E-9
2	B	184.25000	60.00000	0.00000	-3.47235	-0.083333	-99.959E-9	-0.0099519	199.03E-9
2	B	189.40000	60.00000	0.00000	-2.01385	-0.083333	-44.799E-9	-0.0064465	128.93E-9
2	B	194.55000	60.00000	0.00000	-1.20576	-0.083333	-22.573E-9	-0.0044296	88.590E-9
2	B	199.70000	60.00000	0.00000	-0.72850	-0.083333	-12.429E-9	-0.0031848	63.694E-9
2	B	204.85000	60.00000	0.00000	-0.43611	-0.083333	-7.3313E-9	-0.0023727	47.454E-9
2	B	210.00000	60.00000	0.00000	-0.25305	-0.083333	-4.5679E-9	-0.0018191	36.381E-9
2	B	107.00000	65.00000	0.00000	-6.62881	-0.083333	-341.65E-9	-0.020786	415.68E-9
2	B	112.15000	65.00000	0.00000	-19.71334	-0.083333	-1.3265E-6	-0.042797	855.77E-9
2	B	117.30000	65.00000	0.00000	-46.63900	-0.083333	-9.8944E-6	-0.12100	2.4188E-6
2	B	122.45000	65.00000	0.00000	-50.99094	-0.083333	-0.0010712	-1.0096	20.064E-6
2	B	127.60000	65.00000	0.00000	-64.77514	-0.083333	-30.000	-71.058	-0.0021788
2	B	132.75000	65.00000	0.00000	-63.63258	-0.083333	-29.991	-69.326	-0.0022124
2	B	137.90000	65.00000	0.00000	-55.09731	-0.083333	-457.83E-6	-0.88517	17.649E-6
2	B	143.05000	65.00000	0.00000	-55.56271	-0.083333	-0.0016493	-1.2135	24.072E-6
2	B	148.20000	65.00000	0.00000	-55.68697	-0.083333	-0.0015642	-1.3219	26.249E-6
2	B	153.35000	65.00000	0.00000	-55.29867	-0.083333	-0.0026517	-1.5904	31.489E-6
2	B	158.50000	65.00000	0.00000	-55.17854	-0.083333	-0.36032	-8.0499	117.76E-6
2	B	163.65000	65.00000	0.00000	-49.31397	-0.083333	-0.025654	-2.9263	55.447E-6
2	B	168.80000	65.00000	0.00000	-35.43112	-0.083333	-24.512E-6	-0.15463	3.0897E-6
2	B	173.95000	65.00000	0.00000	-17.25652	-0.083333	-1.9294E-6	-0.045999	919.76E-9
2	B	179.10000	65.00000	0.00000	-6.96281	-0.083333	-413.76E-9	-0.020858	417.12E-9
2	B	184.25000	65.00000	0.00000	-3.67391	-0.083333	-133.58E-9	-0.011494	229.86E-9
2	B	189.40000	65.00000	0.00000	-2.10378	-0.083333	-54.582E-9	-0.0071146	142.29E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	194.55000	65.00000	0.00000	-1.24918	-0.083333	-26.023E-9	-0.0047576	95.150E-9
2	B	199.70000	65.00000	0.00000	-0.75072	-0.083333	-13.830E-9	-0.0033615	67.229E-9
2	B	204.85000	65.00000	0.00000	-0.44796	-0.083333	-7.9653E-9	-0.0024751	49.501E-9
2	B	210.00000	65.00000	0.00000	-0.25957	-0.083333	-4.8802E-9	-0.0018818	37.635E-9
2	B	107.00000	70.00000	0.00000	-5.34037	-0.083333	-276.81E-9	-0.018805	376.08E-9
2	B	112.15000	70.00000	0.00000	-13.59293	-0.083333	-950.12E-9	-0.036064	721.16E-9
2	B	117.30000	70.00000	0.00000	-42.84126	-0.083333	-5.6172E-6	-0.088292	1.7652E-6
2	B	122.45000	70.00000	0.00000	-47.12500	-0.083333	-264.83E-6	-0.45750	9.1183E-6
2	B	127.60000	70.00000	0.00000	-58.28836	-0.083333	-29.786	-64.950	-0.0022753
2	B	132.75000	70.00000	0.00000	-62.35155	-0.083333	-29.999	-70.515	-0.0021896
2	B	137.90000	70.00000	0.00000	-63.87026	-0.083333	-30.000	-70.787	-0.0021842
2	B	143.05000	70.00000	0.00000	-65.24303	-0.083333	-30.000	-71.113	-0.0021777
2	B	148.20000	70.00000	0.00000	-65.28715	-0.083333	-29.998	-71.116	-0.0021775
2	B	153.35000	70.00000	0.00000	-64.56929	-0.083333	-29.896	-70.710	-0.0021734
2	B	158.50000	70.00000	0.00000	-62.62716	-0.083333	-29.938	-70.777	-0.0021771
2	B	163.65000	70.00000	0.00000	-56.34186	-0.083333	-29.997	-70.102	-0.0021976
2	B	168.80000	70.00000	0.00000	-37.67305	-0.083333	-57.687E-6	-0.25403	5.0737E-6
2	B	173.95000	70.00000	0.00000	-17.06158	-0.083333	-2.8819E-6	-0.056611	1.1319E-6
2	B	179.10000	70.00000	0.00000	-6.74481	-0.083333	-513.42E-9	-0.023219	464.32E-9
2	B	184.25000	70.00000	0.00000	-3.55381	-0.083333	-152.18E-9	-0.012251	245.01E-9
2	B	189.40000	70.00000	0.00000	-2.04059	-0.083333	-59.484E-9	-0.0074180	148.35E-9
2	B	194.55000	70.00000	0.00000	-1.21487	-0.083333	-27.644E-9	-0.0048985	97.967E-9
2	B	199.70000	70.00000	0.00000	-0.73138	-0.083333	-14.459E-9	-0.0034342	68.682E-9
2	B	204.85000	70.00000	0.00000	-0.43674	-0.083333	-8.2402E-9	-0.0025156	50.311E-9
2	B	210.00000	70.00000	0.00000	-0.25292	-0.083333	-5.0118E-9	-0.0019058	38.116E-9
2	B	107.00000	75.00000	0.00000	-3.81178	-0.083333	-194.32E-9	-0.015767	315.31E-9
2	B	112.15000	75.00000	0.00000	-8.46086	-0.083333	-545.53E-9	-0.027239	544.72E-9
2	B	117.30000	75.00000	0.00000	-33.57041	-0.083333	-2.0185E-6	-0.053495	1.0697E-6
2	B	122.45000	75.00000	0.00000	-37.69226	-0.083333	-10.770E-6	-0.12304	2.4594E-6
2	B	127.60000	75.00000	0.00000	-40.53098	-0.083333	-83.272E-6	-0.31207	6.2314E-6
2	B	132.75000	75.00000	0.00000	-42.60730	-0.083333	-131.29E-6	-0.49148	9.8139E-6
2	B	137.90000	75.00000	0.00000	-52.87893	-0.083333	-29.995	-69.423	-0.0022109
2	B	143.05000	75.00000	0.00000	-55.89442	-0.083333	-30.000	-70.812	-0.0021837
2	B	148.20000	75.00000	0.00000	-55.67654	-0.083333	-29.999	-70.714	-0.0021856
2	B	153.35000	75.00000	0.00000	-54.58519	-0.083333	-29.999	-70.509	-0.0021897
2	B	158.50000	75.00000	0.00000	-52.41188	-0.083333	-29.998	-70.157	-0.0021966
2	B	163.65000	75.00000	0.00000	-47.26358	-0.083333	-29.995	-69.087	-0.0022176
2	B	168.80000	75.00000	0.00000	-32.11234	-0.083333	-49.858E-6	-0.21420	4.2780E-6
2	B	173.95000	75.00000	0.00000	-14.23273	-0.083333	-2.4532E-6	-0.051522	1.0301E-6
2	B	179.10000	75.00000	0.00000	-5.72203	-0.083333	-466.49E-9	-0.022052	440.98E-9
2	B	184.25000	75.00000	0.00000	-3.12270	-0.083333	-143.33E-9	-0.011861	237.20E-9
2	B	189.40000	75.00000	0.00000	-1.83501	-0.083333	-57.120E-9	-0.0072519	145.03E-9
2	B	194.55000	75.00000	0.00000	-1.10867	-0.083333	-26.844E-9	-0.0048157	96.310E-9
2	B	199.70000	75.00000	0.00000	-0.67350	-0.083333	-14.138E-9	-0.0033880	67.759E-9
2	B	204.85000	75.00000	0.00000	-0.40401	-0.083333	-8.0937E-9	-0.0024878	49.754E-9
2	B	210.00000	75.00000	0.00000	-0.23394	-0.083333	-4.9381E-9	-0.0018880	37.759E-9
2	B	107.00000	80.00000	0.00000	-3.58849	-0.083333	-125.01E-9	-0.012631	252.61E-9
2	B	112.15000	80.00000	0.00000	-5.91434	-0.083333	-284.29E-9	-0.019652	393.00E-9
2	B	117.30000	80.00000	0.00000	-9.82525	-0.083333	-715.66E-9	-0.032318	646.28E-9
2	B	122.45000	80.00000	0.00000	-12.72467	-0.083333	-1.8878E-6	-0.054697	1.0937E-6
2	B	127.60000	80.00000	0.00000	-14.37151	-0.083333	-4.5209E-6	-0.089861	1.7967E-6
2	B	132.75000	80.00000	0.00000	-15.63209	-0.083333	-13.069E-6	-0.15161	3.0306E-6
2	B	137.90000	80.00000	0.00000	-17.16585	-0.083333	-144.85E-6	-0.38093	7.6012E-6
2	B	143.05000	80.00000	0.00000	-17.99114	-0.083333	-156.26E-6	-0.47388	9.4589E-6
2	B	148.20000	80.00000	0.00000	-17.84279	-0.083333	-116.45E-6	-0.43695	8.7249E-6
2	B	153.35000	80.00000	0.00000	-17.14708	-0.083333	-87.547E-6	-0.38395	7.6685E-6
2	B	158.50000	80.00000	0.00000	-15.86700	-0.083333	-65.769E-6	-0.31938	6.3798E-6
2	B	163.65000	80.00000	0.00000	-13.70138	-0.083333	-39.688E-6	-0.21477	4.2907E-6
2	B	168.80000	80.00000	0.00000	-10.93031	-0.083333	-7.2600E-6	-0.087285	1.7448E-6
2	B	173.95000	80.00000	0.00000	-7.32791	-0.083333	-1.2014E-6	-0.036042	720.69E-9
2	B	179.10000	80.00000	0.00000	-4.19003	-0.083333	-317.84E-9	-0.018158	363.12E-9
2	B	184.25000	80.00000	0.00000	-2.50185	-0.083333	-113.00E-9	-0.010499	209.96E-9
2	B	189.40000	80.00000	0.00000	-1.53611	-0.083333	-48.635E-9	-0.0066676	133.35E-9
2	B	194.55000	80.00000	0.00000	-0.95196	-0.083333	-23.906E-9	-0.0045273	90.544E-9
2	B	199.70000	80.00000	0.00000	-0.58702	-0.083333	-12.952E-9	-0.0032306	64.611E-9
2	B	204.85000	80.00000	0.00000	-0.35466	-0.083333	-7.5560E-9	-0.0023950	47.900E-9
2	B	210.00000	80.00000	0.00000	-0.20514	-0.083333	-4.6712E-9	-0.0018301	36.601E-9
2	B	107.00000	85.00000	0.00000	-2.83213	-0.083333	-77.953E-9	-0.0099298	198.59E-9
2	B	112.15000	85.00000	0.00000	-4.00849	-0.083333	-149.26E-9	-0.014161	283.21E-9
2	B	117.30000	85.00000	0.00000	-5.47360	-0.083333	-295.05E-9	-0.020698	413.93E-9
2	B	122.45000	85.00000	0.00000	-6.78647	-0.083333	-577.37E-9	-0.030329	606.52E-9
2	B	127.60000	85.00000	0.00000	-7.75711	-0.083333	-1.0946E-6	-0.043715	874.17E-9
2	B	132.75000	85.00000	0.00000	-8.48019	-0.083333	-2.2349E-6	-0.062764	1.2550E-6
2	B	137.90000	85.00000	0.00000	-9.02570	-0.083333	-4.6060E-6	-0.088250	1.7645E-6
2	B	143.05000	85.00000	0.00000	-9.30711	-0.083333	-6.0481E-6	-0.10553	2.1099E-6
2	B	148.20000	85.00000	0.00000	-9.25412	-0.083333	-5.8991E-6	-0.10770	2.1534E-6
2	B	153.35000	85.00000	0.00000	-8.87983	-0.083333	-5.2411E-6	-0.10036	2.0065E-6
2	B	158.50000	85.00000	0.00000	-8.17099	-0.083333	-4.2936E-6	-0.085635	1.7122E-6
2	B	163.65000	85.00000	0.00000	-7.10214	-0.083333	-2.8518E-6	-0.063500	1.2697E-6
2	B	168.80000	85.00000	0.00000	-5.73903	-0.083333	-1.2946E-6	-0.039632	792.49E-9
2	B	173.95000	85.00000	0.00000	-4.22772	-0.083333	-475.39E-9	-0.022999	459.93E-9
2	B	179.10000	85.00000	0.00000	-2.86483	-0.083333	-182.36E-9	-0.013750	274.98E-9
2	B	184.25000	85.00000	0.00000	-1.87429	-0.083333	-78.440E-9	-0.0087121	174.23E-9
2	B	189.40000	85.00000	0.00000	-1.21085	-0.083333	-37.641E-9	-0.0058357	116.71E-9
2	B	194.55000	85.00000	0.00000	-0.77360	-0.083333	-19.789E-9	-0.0040967	81.932E-9
2	B	199.70000	85.00000	0.00000	-0.48556	-0.083333	-11.203E-9	-0.0029886	59.770E-9
2	B	204.85000	85.00000	0.00000	-0.29551	-0.083333	-6.7364E-9	-0.0022499	44.997E-9
2	B	210.00000	85.00000	0.00000	-0.17008	-0.083333	-4.2553E-9	-0.0017383	34.766E-9
2	B	107.00000	90.00000	0.00000	-2.02948	-0.083333	-48.825E-9	-0.0077861	155.72E-9
2	B	112.15000	90.00000	0.00000	-2.64970	-0.083333	-82.148E-9	-0.010371	207.41E-9
2	B	117.30000	90.00000	0.00000	-3.37007	-0.083333	-139.55E-9	-0.013987	279.73E-9
2	B	122.45000	90.00000	0.00000	-4.05568	-0.083333	-233.45E-9	-0.018797	375.91E-9
2	B	127.60000	90.00000	0.00000	-4.61942	-0.083333	-381.40E-9	-0.024851	496.98E-9
2	B	132.75000	90.00000	0.00000	-5.04578	-0.083333	-611.28E-9	-0.032041	640.75E-9
2	B	137.90000	90.00000	0.00000	-5.33456	-0.083333	-904.78E-9	-0.039394	787.78E-9
2	B	143.05000	90.00000	0.00000	-5.46669	-0.083333	-1.1141E-6	-0.044500	889.86E-9
2	B	148.20000	90.00000	0.00000	-5.42132	-0.083333	-1.1549E-6	-0.045749	914.85E-9
2	B	153.35000	90.00000	0.00000	-5.19063	-0.083333	-1.0710E-6	-0.043334	866.56E-9
2	B	158.50000	90.00000	0.00000	-4.77255	-0.083333	-896.09E-9	-0.037853	756.96E-9
2	B	163.65000	90.00000	0.00000	-4.17730	-0.083333	-645.79E-9	-0.030117	602.26E-9
2	B	168.80000	90.00000	0.00000	-3.44784	-0.083333	-385.35E-9	-0.021840	436.75E-9
2	B	173.95000	90.00000	0.00000	-2.66602	-0.083333	-200.04E-9	-0.014956	299.09E-9
2	B	179.10000	90.00000	0.00000	-1.93995	-0.083333	-99.714E-9	-0.010127	202.54E-9
2	B	184.25000	90.00000	0.00000	-1.35017	-0.083333	-50.951E-9	-0.0069757	139.51E-9
2	B	189.40000	90.00000	0.00000	-0.91122	-0.083333	-27.363E-9	-0.0049393	98.782E-9
2	B	194.55000	90.00000	0.00000	-0.59906	-0.083333	-15.514E-9	-0.0036008	72.014E-9
2	B	199.70000	90.00000	0.00000	-0.38215	-0.083333	-9.2555E-9	-0.0026972	53.943E-9
2	B	204.85000	90.00000	0.00000	-0.23344	-0.083333	-5.7771E-9	-0.0020697	41.393E-9
2	B	210.00000	90.00000	0.00000	-0.13250	-0.083333	-3.7510E-9	-0.0016220	32.440E-9
2	B	107.00000	95.00000	0.00000	-1.42138	-0.083333	-31.217E-9	-0.0061380	122.76E-9
2	B	112.15000	95.00000	0.00000	-1.76628	-0.083333	-47.614E-9	-0.0077481	154.96E-9
2	B	117.30000	95.00000	0.00000	-2.15929	-0.083333	-72.874E-9	-0.0098519	197.03E-9
2	B	122.45000	95.00000	0.00000	-2.54370	-0.083333	-109.74E-9	-0.012453	249.05E-9
2	B	127.60000	95.00000	0.00000	-2.87519	-0.083333	-160.61E-9	-0.015471	309.40E-9
2	B	132.75000	95.00000	0.00000	-3.13100	-0.083333	-225.31E-9	-0.018681	373.59E-9
2	B	137.90000	95.00000	0.00000	-3.29961	-0.083333	-293.50E-9	-0.021606	432.08E-9
2	B	143.05000	95.00000	0.00000	-3.37082	-0.083333	-342.77E-9	-0.023562	471.21E-9
2	B	148.20000	95.00000	0.00000	-3.33589	-0.083333	-357.32E-9	-0.024049	480.93E-9
2	B	153.35000	95.00000	0.00000	-3.19084	-0.083333	-337.38E-9	-0.022973	459.42E-9
2	B	158.50000	95.00000	0.00000	-2.93804	-0.083333	-289.28E-9	-0.020537	410.71E-9
2	B	163.65000	95.00000	0.00000	-2.58978	-0.083333	-222.14E-9	-0.017163	343.24E-9
2	B	168.80000	95.00000	0.00000	-2.17325	-0.083333	-151.63E-9	-0.013486	269.70E-9
2	B	173.95000	95.00000	0.00000	-1.73061	-0.083333	-94.090E-9	-0.010143	202.85E-9
2	B	179.10000	95.00000	0.00000	-1.30997	-0.083333	-55.505E-9	-0.0074768	149.53E-9
2	B	184.25000	95.00000	0.00000	-0.94846	-0.083333	-32.428E-9	-0.0055075	110.15E-9
2	B	189.40000	95.00000	0.00000	-0.66100	-0.083333	-19.245E-9	-0.0041008	82.014E-9
2	B	194.55000	95.00000	0.00000	-0.44421	-0.083333	-11.742E-9	-0.0031028	62.055E-9
2	B	199.70000	95.00000	0.00000	-0.28631	-0.083333	-7.3942E-9	-0.0023895	47.789E-9
2	B	204.85000	95.00000	0.00000	-0.17404	-0.083333	-4.8060E-9	-0.0018723	37.445E-9
2	B	210.00000	95.00000	0.00000	-0.09566	-0.083333	-3.2180E-9	-0.0014910	29.820E-9
2	B	107.00000	100.00000	0.00000	-0.98165	-0.083333	-20.475E-9	-0.0048802	97.603E-9
2	B	112.15000	100.00000	0.00000	-1.17978	-0.083333	-28.911E-9	-0.0059016	118.03E-9
2	B	117.30000	100.00000	0.00000	-1.40487	-0.083333	-40.919E-9	-0.0071708	143.41E-9
2	B	122.45000	100.00000	0.00000	-1.62854	-0.083333	-56.988E-9	-0.0086553	173.10E-9
2	B	127.60000	100.00000	0.00000	-1.82627	-0.083333	-77.044E-9	-0.010274	205.46E-9
2	B	132.75000	100.00000	0.00000	-1.98122	-0.083333	-99.697E-9	-0.011878	237.54E-9
2	B	137.90000	100.00000	0.00000	-2.08275	-0.083333	-121.28E-9	-0.013243	264.84E-9
2	B	143.05000	100.00000	0.00000	-2.12355	-0.083333	-136.48E-9	-0.014112	282.21E-9
2	B	148.20000	100.00000	0.00000	-2.09890	-0.083333	-141.20E-9	-0.014293	285.85E-9
2	B	153.35000	100.00000	0.00000	-2.00742	-0.083333	-134.55E-9	-0.013733	274.65E-9
2	B	158.50000	100.00000	0.00000	-1.85227	-0.083333	-118.09E-9	-0.012515	250.28E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	163.65000	100.00000	0.00000	-1.64272	-0.083333	-95.185E-9	-0.010834	216.67E-9
2	B	168.80000	100.00000	0.00000	-1.39522	-0.083333	-70.548E-9	-0.0089597	179.19E-9
2	B	173.95000	100.00000	0.00000	-1.13228	-0.083333	-48.738E-9	-0.0071562	143.12E-9
2	B	179.10000	100.00000	0.00000	-0.87799	-0.083333	-32.143E-9	-0.0055974	111.95E-9
2	B	184.25000	100.00000	0.00000	-0.65167	-0.083333	-20.753E-9	-0.0043432	86.862E-9
2	B	189.40000	100.00000	0.00000	-0.46362	-0.083333	-13.376E-9	-0.0033751	67.500E-9
2	B	194.55000	100.00000	0.00000	-0.31547	-0.083333	-8.7146E-9	-0.0026420	52.840E-9
2	B	199.70000	100.00000	0.00000	-0.20329	-0.083333	-5.7781E-9	-0.0020899	41.796E-9
2	B	204.85000	100.00000	0.00000	-0.12091	-0.083333	-3.9104E-9	-0.0016725	33.449E-9
2	B	210.00000	100.00000	0.00000	-0.06188	-0.083333	-2.7030E-9	-0.0013544	27.088E-9
2	B	107.00000	105.00000	0.00000	-0.66732	-0.083333	-13.777E-9	-0.0039171	78.340E-9
2	B	112.15000	105.00000	0.00000	-0.78312	-0.083333	-18.275E-9	-0.0045758	91.513E-9
2	B	117.30000	105.00000	0.00000	-0.91525	-0.083333	-24.320E-9	-0.0053637	107.27E-9
2	B	122.45000	105.00000	0.00000	-1.04804	-0.083333	-31.892E-9	-0.0062463	124.92E-9
2	B	127.60000	105.00000	0.00000	-1.16719	-0.083333	-40.672E-9	-0.0071646	143.29E-9
2	B	132.75000	105.00000	0.00000	-1.26160	-0.083333	-49.855E-9	-0.0080304	160.60E-9
2	B	137.90000	105.00000	0.00000	-1.32342	-0.083333	-58.057E-9	-0.0087323	174.64E-9
2	B	143.05000	105.00000	0.00000	-1.34747	-0.083333	-63.610E-9	-0.0091565	183.12E-9
2	B	148.20000	105.00000	0.00000	-1.33083	-0.083333	-65.231E-9	-0.0092205	184.40E-9
2	B	153.35000	105.00000	0.00000	-1.27313	-0.083333	-62.512E-9	-0.0088996	177.98E-9
2	B	158.50000	105.00000	0.00000	-1.17700	-0.083333	-55.959E-9	-0.0082330	164.65E-9
2	B	163.65000	105.00000	0.00000	-1.04865	-0.083333	-46.805E-9	-0.0073141	146.28E-9
2	B	168.80000	105.00000	0.00000	-0.89794	-0.083333	-36.707E-9	-0.0062685	125.36E-9
2	B	173.95000	105.00000	0.00000	-0.73736	-0.083333	-27.246E-9	-0.0052206	104.41E-9
2	B	179.10000	105.00000	0.00000	-0.57991	-0.083333	-19.422E-9	-0.0042633	85.263E-9
2	B	184.25000	105.00000	0.00000	-0.43633	-0.083333	-13.513E-9	-0.0034441	68.880E-9
2	B	189.40000	105.00000	0.00000	-0.31328	-0.083333	-9.3079E-9	-0.0027727	55.452E-9
2	B	194.55000	105.00000	0.00000	-0.21309	-0.083333	-6.4163E-9	-0.0022363	44.725E-9
2	B	199.70000	105.00000	0.00000	-0.13485	-0.083333	-4.4577E-9	-0.0018132	36.262E-9
2	B	204.85000	105.00000	0.00000	-0.07580	-0.083333	-3.1345E-9	-0.0014808	29.615E-9
2	B	210.00000	105.00000	0.00000	-0.03252	-0.083333	-2.2355E-9	-0.0012193	24.385E-9
2	B	107.00000	110.00000	0.00000	-0.44353	-0.083333	-9.4914E-9	-0.0031737	63.472E-9
2	B	112.15000	110.00000	0.00000	-0.51168	-0.083333	-11.962E-9	-0.0036052	72.102E-9
2	B	117.30000	110.00000	0.00000	-0.59018	-0.083333	-15.145E-9	-0.0041060	82.118E-9
2	B	122.45000	110.00000	0.00000	-0.66986	-0.083333	-18.938E-9	-0.0046485	92.968E-9
2	B	127.60000	110.00000	0.00000	-0.74211	-0.083333	-23.105E-9	-0.0051928	103.85E-9
2	B	132.75000	110.00000	0.00000	-0.79982	-0.083333	-27.234E-9	-0.0056872	113.74E-9
2	B	137.90000	110.00000	0.00000	-0.83764	-0.083333	-30.750E-9	-0.0060727	121.45E-9
2	B	143.05000	110.00000	0.00000	-0.85201	-0.083333	-33.035E-9	-0.0062935	125.87E-9
2	B	148.20000	110.00000	0.00000	-0.84105	-0.083333	-33.624E-9	-0.0063110	126.22E-9
2	B	153.35000	110.00000	0.00000	-0.80467	-0.083333	-32.359E-9	-0.0061140	122.28E-9
2	B	158.50000	110.00000	0.00000	-0.74475	-0.083333	-29.433E-9	-0.0057227	114.45E-9
2	B	163.65000	110.00000	0.00000	-0.66527	-0.083333	-25.331E-9	-0.0051839	103.68E-9
2	B	168.80000	110.00000	0.00000	-0.57211	-0.083333	-20.703E-9	-0.0045606	91.209E-9
2	B	173.95000	110.00000	0.00000	-0.47245	-0.083333	-16.178E-9	-0.0039166	78.330E-9
2	B	179.10000	110.00000	0.00000	-0.37362	-0.083333	-12.207E-9	-0.0033038	66.075E-9
2	B	184.25000	110.00000	0.00000	-0.28186	-0.083333	-8.9907E-9	-0.0027547	55.093E-9
2	B	189.40000	110.00000	0.00000	-0.20141	-0.083333	-6.5322E-9	-0.0022891	45.662E-9
2	B	194.55000	110.00000	0.00000	-0.13425	-0.083333	-4.7223E-9	-0.0018894	37.787E-9
2	B	199.70000	110.00000	0.00000	-0.08052	-0.083333	-3.4189E-9	-0.0015663	31.325E-9
2	B	204.85000	110.00000	0.00000	-0.03906	-0.083333	-2.4898E-9	-0.0013035	26.070E-9
2	B	210.00000	110.00000	0.00000	-0.00812	-0.083333	-1.8291E-9	-0.0010906	21.811E-9
2	B	107.00000	115.00000	0.00000	-0.28465	-0.083333	-6.6785E-9	-0.0025943	51.886E-9
2	B	112.15000	115.00000	0.00000	-0.32474	-0.083333	-8.0706E-9	-0.0028815	57.628E-9
2	B	117.30000	115.00000	0.00000	-0.37158	-0.083333	-9.8097E-9	-0.0032065	64.130E-9
2	B	122.45000	115.00000	0.00000	-0.41961	-0.083333	-11.805E-9	-0.0035492	70.983E-9
2	B	127.60000	115.00000	0.00000	-0.46355	-0.083333	-13.911E-9	-0.0038834	77.665E-9
2	B	132.75000	115.00000	0.00000	-0.49887	-0.083333	-15.916E-9	-0.0041778	83.554E-9
2	B	137.90000	115.00000	0.00000	-0.52206	-0.083333	-17.559E-9	-0.0043997	87.993E-9
2	B	143.05000	115.00000	0.00000	-0.53072	-0.083333	-18.585E-9	-0.0045199	90.396E-9
2	B	148.20000	115.00000	0.00000	-0.52362	-0.083333	-18.807E-9	-0.0045187	90.372E-9
2	B	153.35000	115.00000	0.00000	-0.50073	-0.083333	-18.161E-9	-0.0043911	87.819E-9
2	B	158.50000	115.00000	0.00000	-0.46328	-0.083333	-16.732E-9	-0.0041478	82.955E-9
2	B	163.65000	115.00000	0.00000	-0.41376	-0.083333	-14.725E-9	-0.0038139	76.275E-9
2	B	168.80000	115.00000	0.00000	-0.35570	-0.083333	-12.417E-9	-0.0034225	68.448E-9
2	B	173.95000	115.00000	0.00000	-0.29331	-0.083333	-10.086E-9	-0.0030086	60.170E-9
2	B	179.10000	115.00000	0.00000	-0.23086	-0.083333	-7.9448E-9	-0.0026023	52.046E-9
2	B	184.25000	115.00000	0.00000	-0.17208	-0.083333	-6.1175E-9	-0.0022252	44.502E-9
2	B	189.40000	115.00000	0.00000	-0.11964	-0.083333	-4.6402E-9	-0.0018890	37.779E-9
2	B	194.55000	115.00000	0.00000	-0.07504	-0.083333	-3.4910E-9	-0.0015979	31.958E-9
2	B	199.70000	115.00000	0.00000	-0.03869	-0.083333	-2.6196E-9	-0.0013509	27.017E-9
2	B	204.85000	115.00000	0.00000	-0.01017	-0.083333	-1.9689E-9	-0.0011437	22.874E-9
2	B	210.00000	115.00000	0.00000	0.01140	-0.083333	-1.4866E-9	-971.29E-6	19.426E-9
2	B	107.00000	120.00000	0.00000	-0.17225	-0.083333	-4.7875E-9	-0.0021385	42.770E-9
2	B	112.15000	120.00000	0.00000	-0.19568	-0.083333	-5.5906E-9	-0.0023327	46.653E-9
2	B	117.30000	120.00000	0.00000	-0.22359	-0.083333	-6.5708E-9	-0.0025477	50.954E-9
2	B	122.45000	120.00000	0.00000	-0.25254	-0.083333	-7.6640E-9	-0.0027693	55.385E-9
2	B	127.60000	120.00000	0.00000	-0.27928	-0.083333	-8.7824E-9	-0.0029803	59.604E-9
2	B	132.75000	120.00000	0.00000	-0.30090	-0.083333	-9.8142E-9	-0.0031614	63.228E-9
2	B	137.90000	120.00000	0.00000	-0.31514	-0.083333	-10.634E-9	-0.0032938	65.874E-9
2	B	143.05000	120.00000	0.00000	-0.32041	-0.083333	-11.126E-9	-0.0033610	67.218E-9
2	B	148.20000	120.00000	0.00000	-0.31588	-0.083333	-11.208E-9	-0.0033526	67.050E-9
2	B	153.35000	120.00000	0.00000	-0.30155	-0.083333	-10.855E-9	-0.0032660	65.319E-9
2	B	158.50000	120.00000	0.00000	-0.27817	-0.083333	-10.104E-9	-0.0031075	62.149E-9
2	B	163.65000	120.00000	0.00000	-0.24727	-0.083333	-9.0509E-9	-0.0028907	57.814E-9
2	B	168.80000	120.00000	0.00000	-0.21098	-0.083333	-7.8210E-9	-0.0026344	52.686E-9
2	B	173.95000	120.00000	0.00000	-0.17182	-0.083333	-6.5453E-9	-0.0023583	47.166E-9
2	B	179.10000	120.00000	0.00000	-0.13232	-0.083333	-5.3323E-9	-0.0020808	41.615E-9
2	B	184.25000	120.00000	0.00000	-0.09475	-0.083333	-4.2534E-9	-0.0018157	36.314E-9
2	B	189.40000	120.00000	0.00000	-0.06080	-0.083333	-3.3416E-9	-0.0015723	31.446E-9
2	B	194.55000	120.00000	0.00000	-0.03152	-0.083333	-2.5996E-9	-0.0013552	27.103E-9
2	B	199.70000	120.00000	0.00000	-0.00734	-0.083333	-2.0121E-9	-0.0011655	23.310E-9
2	B	204.85000	120.00000	0.00000	0.01183	-0.083333	-1.5552E-9	-0.0010022	20.043E-9
2	B	210.00000	120.00000	0.00000	0.02643	-0.083333	-1.2039E-9	-862.86E-6	17.257E-9
2	B	107.00000	125.00000	0.00000	0.09317	-0.083333	-3.4888E-9	-0.0017767	35.533E-9
2	B	112.15000	125.00000	0.00000	-0.10668	-0.083333	-3.9626E-9	-0.0019101	38.201E-9
2	B	117.30000	125.00000	0.00000	-0.12320	-0.083333	-4.5303E-9	-0.0020549	41.097E-9
2	B	122.45000	125.00000	0.00000	-0.14059	-0.083333	-5.1494E-9	-0.0022011	44.022E-9
2	B	127.60000	125.00000	0.00000	-0.15682	-0.083333	-5.7677E-9	-0.0023375	46.749E-9
2	B	132.75000	125.00000	0.00000	-0.17005	-0.083333	-6.3240E-9	-0.0024519	49.036E-9
2	B	137.90000	125.00000	0.00000	-0.17881	-0.083333	-6.7544E-9	-0.0025328	50.656E-9
2	B	143.05000	125.00000	0.00000	-0.18206	-0.083333	-7.0023E-9	-0.0025709	51.416E-9
2	B	148.20000	125.00000	0.00000	-0.17925	-0.083333	-7.0292E-9	-0.0025601	51.200E-9
2	B	153.35000	125.00000	0.00000	-0.17036	-0.083333	-6.8240E-9	-0.0024991	49.981E-9
2	B	158.50000	125.00000	0.00000	-0.15585	-0.083333	-6.4057E-9	-0.0023915	47.830E-9
2	B	163.65000	125.00000	0.00000	-0.13664	-0.083333	-5.8195E-9	-0.0022453	44.906E-9
2	B	168.80000	125.00000	0.00000	-0.11404	-0.083333	-5.1271E-9	-0.0020713	41.425E-9
2	B	173.95000	125.00000	0.00000	-0.08954	-0.083333	-4.3939E-9	-0.0018813	37.625E-9
2	B	179.10000	125.00000	0.00000	-0.06467	-0.083333	-3.6770E-9	-0.0016866	33.731E-9
2	B	184.25000	125.00000	0.00000	-0.04084	-0.083333	-3.0180E-9	-0.0014964	29.928E-9
2	B	189.40000	125.00000	0.00000	-0.01911	-0.083333	-2.4406E-9	-0.0013175	26.349E-9
2	B	194.55000	125.00000	0.00000	-0.00020	-0.083333	-1.9530E-9	-0.0011538	23.076E-9
2	B	199.70000	125.00000	0.00000	0.01553	-0.083333	-1.5525E-9	-0.0010073	20.146E-9
2	B	204.85000	125.00000	0.00000	0.02806	-0.083333	-1.2301E-9	-878.20E-6	17.564E-9
2	B	210.00000	125.00000	0.00000	0.03759	-0.083333	-973.92E-12	-765.65E-6	15.313E-9
2	B	107.00000	130.00000	0.00000	-0.03799	-0.083333	-2.5798E-9	-0.0014869	29.737E-9
2	B	112.15000	130.00000	0.00000	-0.04561	-0.083333	-2.8656E-9	-0.0015801	31.602E-9
2	B	117.30000	130.00000	0.00000	-0.05525	-0.083333	-3.2025E-9	-0.0016793	33.586E-9
2	B	122.45000	130.00000	0.00000	-0.06562	-0.083333	-3.5633E-9	-0.0017776	35.552E-9
2	B	127.60000	130.00000	0.00000	-0.07543	-0.083333	-3.9166E-9	-0.0018675	37.350E-9
2	B	132.75000	130.00000	0.00000	-0.08351	-0.083333	-4.2277E-9	-0.0019412	38.824E-9
2	B	137.90000	130.00000	0.00000	-0.08891	-0.083333	-4.4627E-9	-0.0019917	39.833E-9
2	B	143.05000	130.00000	0.00000	-0.09097	-0.083333	-4.5921E-9	-0.0020131	40.261E-9
2	B	148.20000	130.00000	0.00000	-0.08932	-0.083333	-4.5968E-9	-0.0020020	40.039E-9
2	B	153.35000	130.00000	0.00000	-0.08390	-0.083333	-4.4717E-9	-0.0019576	39.151E-9
2	B	158.50000	130.00000	0.00000	-0.07501	-0.083333	-4.2263E-9	-0.0018820	37.640E-9
2	B	163.65000	130.00000	0.00000	-0.06321	-0.083333	-3.8838E-9	-0.0017801	35.602E-9
2	B	168.80000	130.00000	0.00000	-0.04926	-0.083333	-3.4757E-9	-0.0016583	33.165E-9
2	B	173.95000	130.00000	0.00000	-0.03409	-0.083333	-3.0362E-9	-0.0015239	30.478E-9
2	B	179.10000	130.00000	0.00000	-0.01863	-0.083333	-2.5968E-9	-0.0013841	27.681E-9
2	B	184.25000	130.00000	0.00000	-0.00373	-0.083333	-2.1819E-9	-0.0012450	24.901E-9
2	B	189.40000	130.00000	0.00000	0.00991	-0.083333	-1.8075E-9	-0.0011115	22.231E-9
2	B	194.55000	130.00000	0.00000	0.02182	-0.083333	-1.4814E-9	-986.87E-6	19.737E-9
2	B	199.70000	130.00000	0.00000	0.03175	-0.083333	-1.2051E-9	-872.90E-6	17.458E-9
2	B	204.85000	130.00000	0.00000	0.03961	-0.083333	-975.86E-12	-770.41E-6	15.408E-9
2	B	210.00000	130.00000	0.00000	0.04550	-0.083333	-788.42E-12	-679.34E-6	13.587E-9
2	B	107.00000	135.00000	0.00000	0.00003	-0.083333	-1.9329E-9	-0.0012530	25.059E-9
2	B	112.15000	135.00000	0.00000	-0.00408	-0.083333	-2.1092E-9	-0.0013193	26.385E-9
2	B	117.30000	135.00000	0.00000	-0.00960	-0.083333	-2.3136E-9	-0.0013884	27.767E-9
2	B	122.45000	135.00000	0.00000	-0.01570	-0.083333	-2.5292E-9	-0.0014556	29.111E-9
2	B	127.60000	135.00000	0.00000	-0.02158	-0.083333	-2.7367E-9	-0.0015159	30.317E-9

Ref.	Name	x [m]	y [m]	z [mOD]	δz [mm]	Stress: Calc. Level [mOD]	Stress: Vertical [kN/m²]	Stress: Sum Princ. [kN/m²]	Vert. Strain [μ]
2	B	132.75000	135.00000	0.00000	-0.02651	-0.083333	-2.9160E-9	-0.0015642	31.284E-9
2	B	137.90000	135.00000	0.00000	-0.02987	-0.083333	-3.0482E-9	-0.0015960	31.920E-9
2	B	143.05000	135.00000	0.00000	-0.03123	-0.083333	-3.1174E-9	-0.0016077	32.154E-9
2	B	148.20000	135.00000	0.00000	-0.03034	-0.083333	-3.1135E-9	-0.0015972	31.943E-9
2	B	153.35000	135.00000	0.00000	-0.02716	-0.083333	-3.0337E-9	-0.0015639	31.277E-9
2	B	158.50000	135.00000	0.00000	-0.02185	-0.083333	-2.8834E-9	-0.0015092	30.184E-9
2	B	163.65000	135.00000	0.00000	-0.01474	-0.083333	-2.6747E-9	-0.0014361	28.722E-9
2	B	168.80000	135.00000	0.00000	-0.00631	-0.083333	-2.4244E-9	-0.0013485	26.971E-9
2	B	173.95000	135.00000	0.00000	0.00289	-0.083333	-2.1514E-9	-0.0012512	25.024E-9
2	B	179.10000	135.00000	0.00000	0.01228	-0.083333	-1.8733E-9	-0.0011487	22.973E-9
2	B	184.25000	135.00000	0.00000	0.02135	-0.083333	-1.6050E-9	-0.0010452	20.904E-9
2	B	189.40000	135.00000	0.00000	0.02966	-0.083333	-1.3568E-9	-944.21E-6	18.884E-9
2	B	194.55000	135.00000	0.00000	0.03688	-0.083333	-1.1349E-9	-848.22E-6	16.964E-9
2	B	199.70000	135.00000	0.00000	0.04283	-0.083333	-941.89E-12	-758.88E-6	15.177E-9
2	B	204.85000	135.00000	0.00000	0.04746	-0.083333	-777.44E-12	-677.11E-6	13.542E-9
2	B	210.00000	135.00000	0.00000	0.05078	-0.083333	-639.59E-12	-603.20E-6	12.064E-9
2	B	107.00000	140.00000	0.00000	0.02576	-0.083333	-1.4657E-9	-0.0010628	21.257E-9
2	B	112.15000	140.00000	0.00000	0.02370	-0.083333	-1.5769E-9	-0.0011108	22.215E-9
2	B	117.30000	140.00000	0.00000	0.02067	-0.083333	-1.7037E-9	-0.0011597	23.193E-9
2	B	122.45000	140.00000	0.00000	0.01715	-0.083333	-1.8353E-9	-0.0012064	24.127E-9
2	B	127.60000	140.00000	0.00000	0.01366	-0.083333	-1.9600E-9	-0.0012475	24.949E-9
2	B	132.75000	140.00000	0.00000	0.01066	-0.083333	-2.0660E-9	-0.0012796	25.591E-9
2	B	137.90000	140.00000	0.00000	0.00855	-0.083333	-2.1422E-9	-0.0012997	25.995E-9
2	B	143.05000	140.00000	0.00000	0.00759	-0.083333	-2.1795E-9	-0.0013057	26.113E-9
2	B	148.20000	140.00000	0.00000	0.00797	-0.083333	-2.1726E-9	-0.0012960	25.920E-9
2	B	153.35000	140.00000	0.00000	0.00972	-0.083333	-2.1199E-9	-0.0012705	25.410E-9
2	B	158.50000	140.00000	0.00000	0.01275	-0.083333	-2.0242E-9	-0.0012299	24.598E-9
2	B	163.65000	140.00000	0.00000	0.01686	-0.083333	-1.8922E-9	-0.0011761	23.522E-9
2	B	168.80000	140.00000	0.00000	0.02176	-0.083333	-1.7334E-9	-0.0011117	22.234E-9
2	B	173.95000	140.00000	0.00000	0.02713	-0.083333	-1.5583E-9	-0.0010397	20.793E-9
2	B	179.10000	140.00000	0.00000	0.03262	-0.083333	-1.3773E-9	-963.08E-6	19.261E-9
2	B	184.25000	140.00000	0.00000	0.03789	-0.083333	-1.1994E-9	-884.85E-6	17.697E-9
2	B	189.40000	140.00000	0.00000	0.04267	-0.083333	-1.0315E-9	-807.42E-6	16.148E-9
2	B	194.55000	140.00000	0.00000	0.04676	-0.083333	-878.04E-12	-732.72E-6	14.654E-9
2	B	199.70000	140.00000	0.00000	0.05003	-0.083333	-741.48E-12	-662.13E-6	13.242E-9
2	B	204.85000	140.00000	0.00000	0.05244	-0.083333	-622.44E-12	-596.51E-6	11.930E-9
2	B	210.00000	140.00000	0.00000	0.05399	-0.083333	-520.40E-12	-536.31E-6	10.726E-9
2	B	107.00000	145.00000	0.00000	0.04268	-0.083333	-1.1238E-9	-907.18E-6	18.143E-9
2	B	112.15000	145.00000	0.00000	0.04183	-0.083333	-1.1955E-9	-942.40E-6	18.848E-9
2	B	117.30000	145.00000	0.00000	0.04027	-0.083333	-1.2757E-9	-977.59E-6	19.552E-9
2	B	122.45000	145.00000	0.00000	0.03832	-0.083333	-1.3578E-9	-0.0010105	20.211E-9
2	B	127.60000	145.00000	0.00000	0.03628	-0.083333	-1.4343E-9	-0.0010389	20.778E-9
2	B	132.75000	145.00000	0.00000	0.03445	-0.083333	-1.4982E-9	-0.0010605	21.209E-9
2	B	137.90000	145.00000	0.00000	0.03309	-0.083333	-1.5428E-9	-0.0010733	21.465E-9
2	B	143.05000	145.00000	0.00000	0.03237	-0.083333	-1.5630E-9	-0.0010758	21.516E-9
2	B	148.20000	145.00000	0.00000	0.03241	-0.083333	-1.5555E-9	-0.0010671	21.343E-9
2	B	153.35000	145.00000	0.00000	0.03324	-0.083333	-1.5194E-9	-0.0010471	20.943E-9
2	B	158.50000	145.00000	0.00000	0.03482	-0.083333	-1.4564E-9	-0.0010163	20.326E-9
2	B	163.65000	145.00000	0.00000	0.03702	-0.083333	-1.3702E-9	-975.88E-6	19.517E-9
2	B	168.80000	145.00000	0.00000	0.03967	-0.083333	-1.2663E-9	-927.49E-6	18.550E-9
2	B	173.95000	145.00000	0.00000	0.04259	-0.083333	-1.1509E-9	-873.16E-6	17.463E-9
2	B	179.10000	145.00000	0.00000	0.04555	-0.083333	-1.0301E-9	-814.98E-6	16.300E-9
2	B	184.25000	145.00000	0.00000	0.04835	-0.083333	-909.50E-12	-754.95E-6	15.099E-9
2	B	189.40000	145.00000	0.00000	0.05083	-0.083333	-793.71E-12	-694.85E-6	13.897E-9
2	B	194.55000	145.00000	0.00000	0.05286	-0.083333	-685.90E-12	-636.13E-6	12.723E-9
2	B	199.70000	145.00000	0.00000	0.05434	-0.083333	-588.04E-12	-579.90E-6	11.598E-9
2	B	204.85000	145.00000	0.00000	0.05525	-0.083333	-501.06E-12	-526.93E-6	10.539E-9
2	B	210.00000	145.00000	0.00000	0.05559	-0.083333	-425.02E-12	-477.68E-6	9.5535E-9
2	B	107.00000	150.00000	0.00000	0.05334	-0.083333	-870.62E-12	-778.92E-6	15.578E-9
2	B	112.15000	150.00000	0.00000	0.05317	-0.083333	-917.80E-12	-805.22E-6	16.104E-9
2	B	117.30000	150.00000	0.00000	0.05248	-0.083333	-969.62E-12	-830.93E-6	16.619E-9
2	B	122.45000	150.00000	0.00000	0.05146	-0.083333	-1.0217E-9	-854.51E-6	17.090E-9
2	B	127.60000	150.00000	0.00000	0.05030	-0.083333	-1.0696E-9	-874.38E-6	17.487E-9
2	B	132.75000	150.00000	0.00000	0.04919	-0.083333	-1.1088E-9	-889.00E-6	17.780E-9
2	B	137.90000	150.00000	0.00000	0.04828	-0.083333	-1.1352E-9	-897.06E-6	17.941E-9
2	B	143.05000	150.00000	0.00000	0.04770	-0.083333	-1.1459E-9	-897.55E-6	17.951E-9
2	B	148.20000	150.00000	0.00000	0.04752	-0.083333	-1.1387E-9	-889.89E-6	17.798E-9
2	B	153.35000	150.00000	0.00000	0.04776	-0.083333	-1.1134E-9	-873.94E-6	17.479E-9
2	B	158.50000	150.00000	0.00000	0.04841	-0.083333	-1.0706E-9	-850.08E-6	17.001E-9
2	B	163.65000	150.00000	0.00000	0.04940	-0.083333	-1.0127E-9	-819.07E-6	16.381E-9
2	B	168.80000	150.00000	0.00000	0.05063	-0.083333	-942.89E-12	-782.06E-6	15.641E-9
2	B	173.95000	150.00000	0.00000	0.05199	-0.083333	-864.81E-12	-740.39E-6	14.808E-9
2	B	179.10000	150.00000	0.00000	0.05333	-0.083333	-782.27E-12	-695.50E-6	13.910E-9
2	B	184.25000	150.00000	0.00000	0.05455	-0.083333	-698.94E-12	-648.81E-6	12.976E-9
2	B	189.40000	150.00000	0.00000	0.05553	-0.083333	-617.69E-12	-601.61E-6	12.032E-9
2	B	194.55000	150.00000	0.00000	0.05620	-0.083333	-540.82E-12	-555.00E-6	11.100E-9
2	B	199.70000	150.00000	0.00000	0.05651	-0.083333	-469.86E-12	-509.86E-6	10.197E-9
2	B	204.85000	150.00000	0.00000	0.05644	-0.083333	-405.68E-12	-466.82E-6	9.3364E-9
2	B	210.00000	150.00000	0.00000	0.05598	-0.083333	-348.58E-12	-426.34E-6	8.5268E-9

Results : Consolidation : Displacement Data : Grids

None

Results : Total : Displacement Data : Grids

None

Titles

Job No.: 1157
Job Title: Highgate Schools
Sub-title: Dyne House and Island Building GMA
Calculation Heading: A2 Demo + Loading + Excav (LT)
Initials: SB
Checker:
Date Saved:
Date Checked:
Notes:
File Name: A2 Demo + Excav + Loading (LT).pdd
File Path: C:\Users\A-squared\Dropbox (A-squared)\A2-projects-1001-2000\1157 - Highgate School 2019\03 - Calculations\02 GMA - Dyne House and Island\02 Pdisp

History

Date	Time	By	Notes
02-Dec-2019	16:44	A-squared	New
02-Dec-2019	19:20	A-squared	
03-Dec-2019	12:28	A-squared	
03-Dec-2019	15:37	A-squared	
04-Dec-2019	11:44	A-squared	
04-Dec-2019	16:45	A-squared	
05-Dec-2019	11:04	A-squared	
09-Dec-2019	17:38	hamed	
13-Nov-2023	14:23	A-squared	Open

Analysis Options

General
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: -58.00 [m OD]
Displacements at load centroids: Yes
GSA piled raft data : No

Elastic
Elastic : Yes

Consolidation
Consolidation : No

Soil ProfilesZone A ST

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Bagshot Beds	-1.5000	23	44000.	44000.	0.20000	None
3	CLaygate + LC	-13.000	45	9200.0	153200.	0.50000	None

Soil ProfilesZone A LT

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Bagshot Beds	-1.5000	23	44000.	44000.	0.20000	None
3	CLaygate + LC	-13.000	45	7400.0	124400.	0.20000	None

Soil ProfilesZone B ST

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Claygate + LC	-1.0000	57	9200.0	191600.	0.50000	None

Soil ProfilesZone B LT

Layer ref.	Name	Level at top [mOD]	Number of intermediate displacement levels	Youngs Modulus : Top [kN/m²]	Youngs Modulus : Btm. [kN/m²]	Poissons ratio	Non-linear curve
1	Made Ground	0.0	5	10000.	10000.	0.20000	None
2	Claygate + LC	-1.0000	57	7400.0	155600.	0.20000	None

Soil Zones

Zone	Name	X min [m]	X max [m]	Y min [m]	Y max [m]	Profile
1	A	0.0	107.00	0.0	150.00	Zone A LT
2	B	107.00	210.00	0.0	150.00	Zone B LT

Polygonal Load Data

Load ref.	Name	Position : Level [m]	Position : Polygon : Coords. [m]	Position : Polygon : Rect. tolerance [%]	No. of Rectangles	Value : Normal (local z) [kN/m²]
1	Demolition - Island	0.00000	(51.5,94.6) (53.4,93.6) (53.3,92.1) (54.4,85.1) (54.2,85.1) (54.4,84.4) (54.5,84.3) (54.5,84.1) (54.3,83.5) (54.2,83.5) (54,82.8) (53.4,81.5) (52.4,81.9) (52.2,81.6) (52.1,81.6) (52,81.4) (49.3,82.4) (49.4,82.9) (48.7,83.2) (48.5,82.7) (45.8,83.7) (46,84.2) (45.6,84.4) (46.4,86.5) (45.1,87.3) (48.9,94.5) (50.9,93.4)	1.0000	48	-30.000
2	Demolition - Gym	0.00000	(126,51.9) (126,54) (123,54.2) (124,69.7) (127,69.4) (127,72.1) (134,71.8) (134,71.3) (137,71.1) (137,77.5) (165,75.8) (165,65.4) (161,65.7) (161,65.1) (158,65.2) (158,65.9) (151,66.2) (151,64.9) (150,65) (150,66.3) (143,66.7) (143,66.1) (140,66.3) (140,66.9) (137,67.1) (137,67.3) (134,67.5) (133,51.5)	1.0000	10	-30.000
3	Excavation - Island	-4.50000	(54.5,103) (60.2,99.7) (60.9,96.6) (59.2,93.3)	1.0000	22	-90.000

Load ref.	Name	Position : Level	Position : Polygon : Coords.	Position : Polygon : Rect. tolerance	No. of Rectangles	Value : Normal (local z)
		- -	(62.1,89.9) (60.7,88.7) (57.6,90.4) (53.4,82.7) (45.9,86.8)			
4	Excavation - DH Extension	-5.00000	(76.4,80.3) (76.4,51.6) (69.5,53.6) (62.2,55.7) (62.2,63.7) (68.6,73.7) (68.6,77.9) (67.9,78.7) (71,81.3) (71.8,80.4)	1.0000	49	-100.00
5	Excavation - Rear Block 1	-11.00000	(118,77.3) (118,54.7) (116,54.7) (110,56.3) (116,77.3)	1.0000	49	-220.00
6	Excavation - Rear Block 2	-7.00000	(167,77.3) (167,49.5) (134,49.5) (134,53.3) (118,53.3) (118,77.3)	1.0000	2	-140.00
7	Excavation - Rear Block 3	-4.00000	(167,77.3) (173,77.3) (173,49.5) (167,49.5)	1.0000	1	-80.000
8	Load - Island	-11.17000	(59.2,101) (56,95.6) (58.7,94.2) (57.7,92.2) (58,92.1) (51.4,79.9) (43.4,82.6) (44.9,85.5) (42.7,86.7) (52.7,105)	1.0000	6	24.500
9	Load - DH Front	-5.00000	(73.8,72.7) (70.8,72.7) (70.8,60) (73.8,60.1)	1.0000	1	15.000
10	Load - DH Extension	-5.00000	(76.3,72.7) (73.8,72.7) (73.8,56.5) (76.3,56.5)	1.0000	1	60.000
11	Load - Rear Block	-14.00000	(116,53.4) (109,55.5) (115,78.9) (168,78.8) (168,66.6) (171,66.6) (171,62) (172,62) (176,48.9) (173,48.9) (173,47) (131,47) (131,50.8) (115,50.8)	1.0000	12	47.000
12	Load - Bridge Link A	-18.00000	(100,78.9) (107,78.9) (107,48) (100,48.1)	1.0000	1	8.0000
13	Load - Bridge Link B	-3.00000	(107,78.9) (115,78.9) (109,55.5) (116,53.4) (115,50.8) (108,50.8) (108,48) (107,48)	1.0000	69	8.0000

Polygonal Loads' Rectangles

No.	Centre : x [m]	Centre : y [m]	Angle of local x from global X [Degrees]	Width x [m]	Depth y [m]
Load 1 : Demolition - Island					
(Edge 25 optimal)					
1	46.28927	88.95269	-20.523	1.1142	4.1287
2	47.66575	90.50634	-20.523	0.37467	8.2645
3	47.61909	89.24936	-20.523	0.40789	10.543
4	48.33815	88.63548	-20.523	1.3691	10.945
5	49.16161	88.62655	-20.523	0.17959	11.503
6	49.98822	88.61508	-20.523	1.3768	12.058
7	51.05526	88.40906	-20.523	0.76633	11.396
8	51.39469	87.57912	-20.523	0.37803	11.099
9	52.25819	85.69696	-20.523	2.5591	8.1741
10	53.13903	84.17428	-20.523	0.15847	5.5423
11	53.42806	83.88074	-20.523	0.58555	4.5515
12	53.72003	83.14914	-20.523	0.47429	3.3856
13	53.91612	82.91230	-20.523	0.059075	3.0794
14	54.38565	83.83848	-20.523	0.073150	0.69400
15	54.30533	85.19185	-20.523	0.13830	0.18441
Load 2 : Demolition - Gym					
(Edge 26 optimal)					
1	150.62768	66.38489	-93.438	0.17704	28.245
2	141.70839	66.52539	-93.438	0.60980	3.0102
3	150.53494	65.62304	-93.438	1.3476	1.5621
4	159.46607	65.45430	-93.438	0.61691	3.0199
5	151.05334	73.48160	-93.438	6.3854	28.239
6	130.69061	71.72807	-93.438	0.45596	6.4721
7	146.13911	69.43961	-93.438	2.2598	37.569
8	144.48767	67.62467	-93.438	1.5616	40.651
9	128.47248	60.83464	-93.438	13.900	9.5187
10	129.50627	52.77112	-93.438	2.0633	6.4191
Load 3 : Excavation - Island					
(Edge 2 optimal)					
1	53.05055	93.23464	-28.435	6.4322	18.121
2	56.53458	90.67276	-28.435	2.1350	16.933
3	59.80208	90.72402	-28.435	3.5504	2.6541
4	61.66756	89.74903	-28.435	0.65900	0.98897
Load 4 : Excavation - DH Extension					
(Edge 1 optimal)					
1	72.94553	75.96672	-139.25	4.0072	10.678
2	72.51362	71.28559	-139.25	2.7428	12.004
3	71.32518	64.04982	-139.25	8.5040	15.649
4	68.46187	58.62698	-139.25	2.9138	16.659
5	66.30963	58.05193	-139.25	1.0979	12.561
6	64.02105	56.72587	-139.25	4.1008	5.5490
7	75.27832	79.02167	-139.25	3.4613	3.5275
Load 5 : Excavation - Rear Block 1					
(Edge 4 optimal)					
1	115.58913	55.49416	90.021	1.6628	5.1157
2	115.69264	66.80120	90.021	20.951	4.9003
Load 6 : Excavation - Rear Block 2					
(Edge 2 optimal)					
1	142.55700	65.28095	-90.000	23.993	48.836
2	150.44528	51.37845	-90.000	3.7945	33.060
Load 7 : Excavation - Rear Block 3					
(Edge 2 optimal)					
1	170.07070	63.37838	0.0	6.1912	27.803
Load 8 : Load - Island					
(Edge 2 optimal)					
1	54.35192	100.33145	-118.80	6.6669	7.3355
2	53.59400	95.70851	-118.80	2.1656	10.461
3	50.34125	89.36606	-118.80	12.084	10.872
4	48.16223	82.69675	-118.80	1.7026	8.3311
5	45.60171	82.28726	-118.80	1.4821	4.1567
Load 9 : Load - DH Front					
(Edge 1 optimal)					
1	72.28970	66.39867	-180.00	2.9242	12.693
Load 10 : Load - DH Extension					
(Edge 2 optimal)					
1	75.04678	64.59900	-90.000	16.267	2.5900
Load 11 : Load - Rear Block					
(Edge 1 optimal)					
1	153.43589	49.83265	-90.000	1.8917	44.041
2	152.34745	47.93890	-90.000	1.8958	41.864
3	128.61912	78.87410	-90.000	0.080400	26.534
4	141.01136	72.69550	-90.000	12.277	54.794
5	140.91327	64.26555	-90.000	4.5831	59.341
6	141.29293	58.73585	-90.000	6.4763	63.211
7	143.14537	54.46150	-90.000	2.0724	61.962
8	145.08781	52.10190	-90.000	2.6468	59.433
Load 12 : Load - Bridge Link A					
(Edge 4 optimal)					
1	103.59045	63.48045	-180.00	6.8191	30.868
Load 13 : Load - Bridge Link B					
(Edge 1 optimal)					
1	107.36155	49.39555	90.000	2.7773	0.72310
2	111.18578	52.10475	90.000	2.6411	8.3715
3	109.58208	54.46150	90.000	2.0724	5.1642
4	109.53765	67.20600	90.000	23.417	5.0753

Displacement Lines

Name	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals [No.]	Calculate	Detailed Results
16S-01	86.49970	85.17730	0.00000	83.20530	80.14150	0.00000	14	Yes	Yes

Name	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals [No.]	Calculate	Detailed Results
16S-02	83.20530	80.14150	0.00000	76.63030	80.56000	0.00000	14	Yes	Yes
16S-03	76.63030	80.56000	0.00000	74.09120	81.74640	0.00000	6	Yes	Yes
16S-04	74.09120	81.74640	0.00000	78.40230	88.09530	0.00000	16	Yes	Yes
16S-05	78.40230	88.09530	0.00000	81.32480	88.63460	0.00000	6	Yes	Yes
16S-06	81.32480	88.63460	0.00000	86.49970	85.17730	0.00000	14	Yes	Yes
BS-01	41.07740	85.19800	0.00000	53.23290	80.64880	0.00000	26	Yes	Yes
BS-02	53.23290	80.64880	0.00000	42.51740	52.13290	0.00000	62	Yes	Yes
BS-03	42.51740	52.13290	0.00000	42.17240	52.11540	0.00000	2	Yes	Yes
BS-04	42.17240	52.11540	0.00000	39.63950	46.85170	0.00000	12	Yes	Yes
BS-05	39.63950	46.85170	0.00000	37.99000	47.16020	0.00000	4	Yes	Yes
BS-06	37.99000	47.16020	0.00000	36.51990	47.82810	0.00000	4	Yes	Yes
BS-07	36.51990	47.82810	0.00000	34.49770	50.18930	0.00000	8	Yes	Yes
BS-08	34.49770	50.18930	0.00000	32.12670	51.91390	0.00000	6	Yes	Yes
BS-09	32.12670	51.31390	0.00000	32.87920	53.12180	0.00000	4	Yes	Yes
BS-10	32.87920	53.12180	0.00000	31.33990	53.64740	0.00000	4	Yes	Yes
BS-11	31.33990	53.64740	0.00000	31.19190	53.16840	0.00000	2	Yes	Yes
BS-12	31.19190	53.16840	0.00000	28.24390	54.40430	0.00000	8	Yes	Yes
BS-13	28.24390	54.40430	0.00000	29.54720	57.70510	0.00000	8	Yes	Yes
BS-14	29.54720	57.70510	0.00000	31.85950	56.75830	0.00000	6	Yes	Yes
BS-15	31.85950	56.75830	0.00000	37.79640	72.67750	0.00000	34	Yes	Yes
BS-16	37.79640	72.67750	0.00000	39.20230	77.43090	0.00000	10	Yes	Yes
BS-17	39.20230	77.43090	0.00000	38.43440	77.71030	0.00000	2	Yes	Yes
BS-18	38.43440	77.71030	0.00000	41.07740	85.19800	0.00000	16	Yes	Yes
SB-01	80.55960	128.61410	0.00000	81.13390	129.59790	0.00000	4	Yes	Yes
SB-02	81.13390	129.59790	0.00000	89.14240	124.70300	0.00000	20	Yes	Yes
SB-03	89.14240	124.70300	0.00000	73.53980	100.34490	0.00000	58	Yes	Yes
SB-04	73.53980	100.34490	0.00000	65.93010	105.17790	0.00000	20	Yes	Yes
SB-05	65.93010	105.17790	0.00000	74.10680	118.07820	0.00000	32	Yes	Yes
SB-06	74.10680	118.07820	0.00000	70.98220	119.61800	0.00000	8	Yes	Yes
SB-07	70.98220	119.61800	0.00000	70.38470	118.22480	0.00000	4	Yes	Yes
SB-08	70.38470	118.22480	0.00000	44.31930	131.98290	0.00000	60	Yes	Yes
SB-09	44.31930	131.98290	0.00000	51.65870	146.07890	0.00000	32	Yes	Yes
SB-10	51.65870	146.07890	0.00000	59.61210	141.39690	0.00000	20	Yes	Yes
SB-11	59.61210	141.39690	0.00000	75.98430	132.89110	0.00000	38	Yes	Yes
SB-12	75.98430	132.89110	0.00000	76.90880	132.21500	0.00000	4	Yes	Yes
SB-13	76.90880	132.21500	0.00000	76.33510	131.08120	0.00000	4	Yes	Yes
SB-14	76.33510	131.08120	0.00000	80.55960	128.61410	0.00000	10	Yes	Yes
HL-01	50.98220	128.46600	0.00000	43.94760	114.73030	0.00000	32	Yes	Yes
HL-02	43.94760	114.73030	0.00000	37.36020	118.28250	0.00000	16	Yes	Yes
HL-03	37.36020	118.28250	0.00000	44.31930	131.98290	0.00000	32	Yes	Yes
CH-01	43.98880	114.70780	0.00000	56.08310	108.24940	0.00000	28	Yes	Yes
CH-02	56.08310	108.24940	0.00000	44.38770	86.97580	0.00000	50	Yes	Yes
CH-03	44.38770	86.97580	0.00000	25.93000	97.76960	0.00000	44	Yes	Yes
CH-04	25.93000	97.76960	0.00000	37.36040	118.28280	0.00000	48	Yes	Yes
CH-05	44.38770	86.97580	0.00000	41.03370	86.11560	0.00000	8	Yes	Yes
CH-06	41.03370	86.11560	0.00000	29.42230	92.90730	0.00000	28	Yes	Yes
CH-07	29.42230	92.90730	0.00000	24.55210	85.67300	0.00000	18	Yes	Yes
CH-08	24.55210	85.67300	0.00000	24.16950	85.90510	0.00000	2	Yes	Yes
CH-09	24.16950	85.90510	0.00000	22.25690	83.20670	0.00000	8	Yes	Yes
CH-10	22.25690	83.20670	0.00000	18.11130	85.84720	0.00000	10	Yes	Yes
CH-11	18.11130	85.84720	0.00000	25.93050	97.77050	0.00000	30	Yes	Yes
10S-01	60.26430	42.08760	0.00000	57.77080	36.14360	0.00000	14	Yes	Yes
10S-02	57.77080	36.14360	0.00000	54.91210	37.26910	0.00000	8	Yes	Yes
10S-03	54.91210	37.26910	0.00000	54.06250	35.40070	0.00000	6	Yes	Yes
10S-04	54.06250	35.40070	0.00000	55.90000	34.60740	0.00000	6	Yes	Yes
10S-05	55.90000	34.60740	0.00000	53.30950	28.60710	0.00000	14	Yes	Yes
10S-06	53.30950	28.60710	0.00000	46.58180	31.16640	0.00000	16	Yes	Yes
10S-07	46.58180	31.16640	0.00000	52.66200	44.99820	0.00000	32	Yes	Yes
10S-08	52.66200	44.99820	0.00000	60.26430	42.08760	0.00000	18	Yes	Yes
10S-09	55.90000	34.60740	0.00000	59.97500	32.99120	0.00000	10	Yes	Yes
10S-10	59.97500	32.99120	0.00000	57.49980	26.93420	0.00000	14	Yes	Yes
10S-11	57.49980	26.93420	0.00000	53.30950	28.60710	0.00000	10	Yes	Yes
10S-12	53.30950	28.60710	0.00000	55.90000	34.60740	0.00000	14	Yes	Yes
12S-01	56.42810	52.89730	0.00000	70.66640	48.88690	0.00000	30	Yes	Yes
12S-02	70.66640	48.88690	0.00000	68.32350	43.73440	0.00000	12	Yes	Yes
12S-03	68.32350	43.73440	0.00000	67.26410	44.08820	0.00000	4	Yes	Yes
12S-04	67.26410	44.08820	0.00000	65.69450	40.00190	0.00000	10	Yes	Yes
12S-05	65.69450	40.00190	0.00000	52.89570	44.95010	0.00000	28	Yes	Yes
12S-06	52.89570	44.95010	0.00000	56.42810	52.89730	0.00000	18	Yes	Yes
14S-01	92.77120	50.75620	0.00000	98.63620	50.38480	0.00000	12	Yes	Yes
14S-02	98.63620	50.38480	0.00000	98.27100	35.62610	0.00000	30	Yes	Yes
14S-03	98.27100	35.62610	0.00000	92.16740	36.00230	0.00000	14	Yes	Yes
14S-04	92.16740	36.00230	0.00000	92.40030	33.74250	0.00000	6	Yes	Yes
14S-05	92.40030	33.74250	0.00000	87.39420	33.22650	0.00000	12	Yes	Yes
14S-06	87.39420	33.22650	0.00000	84.96610	32.69190	0.00000	6	Yes	Yes
14S-07	84.96610	32.69190	0.00000	84.24980	39.01460	0.00000	14	Yes	Yes
14S-08	84.24980	39.01460	0.00000	91.78250	39.68670	0.00000	16	Yes	Yes
14S-09	91.78250	39.68670	0.00000	91.28600	45.08870	0.00000	12	Yes	Yes
14S-10	91.28600	45.08870	0.00000	92.75790	45.17660	0.00000	4	Yes	Yes
14S-11	92.75790	45.17660	0.00000	92.77120	50.75620	0.00000	12	Yes	Yes
14S-12	91.78250	39.68670	0.00000	92.16740	36.00230	0.00000	8	Yes	Yes
18S-01	81.33400	88.63190	0.00000	86.41230	96.00810	0.00000	18	Yes	Yes
18S-02	86.41230	96.00810	0.00000	92.95060	91.70430	0.00000	16	Yes	Yes
18S-03	92.95060	91.70430	0.00000	91.78190	89.93000	0.00000	6	Yes	Yes
18S-04	91.78190	89.93000	0.00000	90.32680	90.89600	0.00000	4	Yes	Yes
18S-05	90.32680	90.89600	0.00000	86.49690	85.17440	0.00000	14	Yes	Yes
20S-01	86.41230	96.00810	0.00000	84.52910	97.22690	0.00000	6	Yes	Yes
20S-02	84.52910	97.22690	0.00000	87.92950	102.39110	0.00000	14	Yes	Yes
20S-03	87.92950	102.39110	0.00000	96.34550	96.84960	0.00000	22	Yes	Yes
20S-04	96.34550	96.84960	0.00000	92.95490	91.70020	0.00000	14	Yes	Yes
20S-05	87.93150	102.38980	0.00000	89.37460	104.56500	0.00000	6	Yes	Yes
20S-06	89.37460	104.56500	0.00000	98.06690	99.48250	0.00000	22	Yes	Yes
20S-07	98.06690	99.48250	0.00000	96.33700	96.85520	0.00000	8	Yes	Yes
HT-01	89.37270	104.57010	0.00000	88.40380	105.14270	0.00000	4	Yes	Yes
HT-02	88.40380	105.14270	0.00000	96.95640	119.99620	0.00000	36	Yes	Yes
HT-03	96.95640	119.99620	0.00000	106.14990	114.69620	0.00000	22	Yes	Yes
HT-04	106.14990	114.69620	0.00000	97.55640	99.83220	0.00000	36	Yes	Yes
22S-01	111.36030	124.06920	0.00000	117.67220	121.87340	0.00000	14	Yes	Yes
22S-02	117.67220	121.87340	0.00000	113.74630	110.60680	0.00000	24	Yes	Yes
22S-03	113.74630	110.60680	0.00000	107.41530	112.81150	0.00000	14	Yes	Yes
22S-04	107.41530	112.81150	0.00000	111.36030	124.06920	0.00000	24	Yes	Yes
23K-01	126.87040	106.75440	0.00000	121.35490	108.65170	0.00000	12	Yes	Yes
23K-02	121.35490	108.65170	0.00000	124.50830	117.78880	0.00000	20	Yes	Yes
23K-03	124.50830	117.78880	0.00000	130.05210	115.90790	0.00000	12	Yes	Yes
23K-04	130.24640	116.47000	0.00000	135.14280	114.77200	0.00000	12	Yes	Yes
23K-05	135.32920	115.30920	0.00000	140.56920	113.49180	0.00000	12	Yes	Yes
23K-06	140.75790	114.06100	0.00000	145.80760	112.31000	0.00000	12	Yes	Yes
23K-07	145.92710	112.67510	0.00000	151.15830	110.86520	0.00000	12	Yes	Yes
23K-08	151.15830	110.86520	0.00000	147.93780	101.55660	0.00000	20	Yes	Yes
23K-09	147.93780	101.55660	0.00000	142.71890	103.40190	0.00000	12	Yes	Yes
23K-10	137.49760	104.66790	0.00000	142.54690	102.91530	0.00000	12	Yes	Yes
23K-11	142.54690	102.91530	0.00000	145.92710	112.67510	0.00000	22	Yes	Yes
23K-12	140.75790	114.06100	0.00000	137.34700	104.23380	0.00000	22	Yes	Yes
23K-13	137.34700	104.23380	0.00000	132.13560	106.08440	0.00000	12	Yes	Yes
23K-14	127.09450	107.39930	0.00000	132.00260	105.70020	0.00000	12	Yes	Yes
23K-15	132.00260	105.70020	0.00000	135.32920	115.30920	0.00000	22	Yes	Yes
23K-16	130.24640	116.47000	0.00000	126.87040	106.75440	0.00000	22	Yes	Yes
23K-17	150.73130	109.63110	0.00000	154.98620	108.13750	0.00000	10	Yes	Yes
23K-18	154.98620	108.13750	0.00000	153.26510	103.07420	0.00000	12	Yes	Yes
23K-19	153.26510	103.07420	0.00000	148.98040	104.57010	0.00000	10	Yes	Yes
23AB-01	147.70060	95.28400	0.00000	151.69590	95.55920	0.00000	10	Yes	Yes
23AB-02	151.69590	95.55920	0.00000	151.67850	95.77640	0.00000	2	Yes	Yes
23AB-03	151.67850	95.77640	0.00000	156.45740	96.11380	0.00000	10	Yes	Yes
23AB-04	156.45740	96.11380	0.00000	156.91140	89.68290	0.00000	14	Yes	Yes
23AB-05	156.91140	89.68290	0.00000	157.92310	89.75230	0.00000	4	Yes	Yes
23AB-06	157.92310	89.75230	0.00000	158.43810	83.37010	0.00000	14	Yes	Yes
23AB-07	158.43810	83.37010	0.00000	153.41680	82.96500	0.00000	12	Yes	Yes
23AB-08	153.41680	82.96500	0.00000	153.39420	83.24560	0.00000	2	Yes	Yes
23AB-09	153.39420	83.24560	0.00000	147.77430	82.89600	0.00000	12	Yes	Yes
23AB-10	147.77430	82.89600	0.00000	147.53430	85.93970	0.00000	8	Yes	Yes
23AB-11	147.53430	85.93970	0.00000	149.37650	86.06600	0.00000	4	Yes	Yes
23AB-12	149.37650	86.06600	0.00000	149.18030	88.92790	0.00000	6	Yes	Yes
23AB-13	149.18030	88.92790	0.00000	148.15150	88.83780	0.00000	4	Yes	Yes
23AB-14	148.15150	88.83780	0.00000	147.70060	95.28400	0.00000	14	Yes	Yes
23AB-15	149.18030	88.92790	0.00000	156.87950	89.68080	0.00000	16	Yes	Yes
28K-01	157.04370	132.95660	0.00000	166.97510	127.93910	0.00000	24	Yes	Yes
28K-02	166.97510	127.93910	0.00000	166.97510	124.18080	0.00000	8	Yes	Yes
28K-03	166.97510	124.18080	0.00000	162.93810	116.19020	0.00000	18	Yes	Yes
28K-04	162.93810	116.19020	0.00000	156.00440	119.55240	0.00000	16	Yes	Yes
28K-05	156.00440	119.55240	0.00000	159.23750	126.13830	0.00000	16	Yes	Yes
28K-06	159.23750	126.13830	0.00000	154.79550	128.31900	0.00000	10	Yes	Yes

Name	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals [No.]	Calculate	Detailed Results
28K-07	154.79550	128.31900	0.00000	157.04370	132.95660	0.00000	12	Yes	Yes

Displacement Grids

Name	Extrusion: Direction	X1 [m]	Y1 [m]	Z1 [m]	X2 [m]	Y2 [m]	Z2 [m]	Intervals Along Line [No.]	Extrusion: Distance [m]	Extrusion: Intervals Along [No.]	Calculate	Detailed Results
A	Global X	0.00000	0.00000	0.00000	-	150.00000	0.00000	30	107.00000	21	Yes	Yes
B	Global X	107.00000	0.00000	0.00000	-	150.00000	0.00000	30	103.00000	20	Yes	Yes

Titles

Job No.: 1157
Job Title: Highgate School
Sub-title: Dyne House and Island Building GMA
Calculation Heading: A2
Initials: SB
Checker:
Date Saved: 10-Sep-2024
Date Checked:
Notes:
File Name: B1 Excav + Wall Installation.xdd
File Path: C:\Users\A-squared\A-squared Dropbox\A2 matrix\A2-projects-1001-2000\1157 - Highgate School 2019\03 - Calculations\06 20240730 - 2nd update\GMA\Xdisp

History

Date	Time	By	Notes
03-Dec-2019	12:09	A-squared	New
03-Dec-2019	12:28	A-squared	
04-Dec-2019	11:33	A-squared	
04-Dec-2019	11:42	A-squared	
04-Dec-2019	12:26	A-squared	
04-Dec-2019	12:29	A-squared	
04-Dec-2019	13:16	A-squared	
04-Dec-2019	14:46	A-squared	
04-Dec-2019	15:59	A-squared	
04-Dec-2019	16:17	A-squared	
04-Dec-2019	16:25	A-squared	
04-Dec-2019	16:52	A-squared	
04-Dec-2019	17:37	A-squared	
05-Dec-2019	11:10	A-squared	
06-Dec-2019	12:23	A-squared	
09-Dec-2019	00:34	A-squared	
09-Dec-2019	17:51	hamed	
02-Aug-2024	10:28	A-squared	
09-Aug-2024	17:27	A-squared	
12-Aug-2024	17:11	A-squared	
13-Aug-2024	11:48	A-squared	
13-Aug-2024	15:37	A-squared	
09-Sep-2024	13:05	A-squared	
09-Sep-2024	14:36	A-squared	
09-Sep-2024	17:19	A-squared	
09-Sep-2024	17:41	A-squared	
10-Sep-2024	08:53	A-squared	

Displacement Lines

Ref.	Name	x1 [m]	y1 [m]	z1 [m]	x2 [m]	y2 [m]	z2 [m]	Intervals [No.]	Surface type for tunnels	Interpolate imported displacements	Calculate
1	16S-01	86.49970	85.17730	0.00000	83.20530	80.14150	0.00000	14	Surface	No	Yes
2	16S-02	83.20530	80.14150	0.00000	76.63030	80.56000	0.00000	14	Surface	No	Yes
3	16S-03	76.63030	80.56000	0.00000	74.09120	81.74640	0.00000	6	Surface	No	Yes
4	16S-04	74.09120	81.74640	0.00000	78.40230	88.09530	0.00000	16	Surface	No	Yes
5	16S-05	78.40230	88.09530	0.00000	81.32480	88.63460	0.00000	6	Surface	No	Yes
6	16S-06	81.32480	88.63460	0.00000	86.49970	85.17730	0.00000	14	Surface	No	Yes
7	BS-01	41.07740	85.19800	0.00000	53.23290	80.64880	0.00000	26	Surface	No	Yes
8	BS-02	53.23290	80.64880	0.00000	42.51740	52.13290	0.00000	62	Surface	No	Yes
9	BS-03	42.51740	52.13290	0.00000	42.17240	52.11540	0.00000	2	Surface	No	Yes
10	BS-04	42.17240	52.11540	0.00000	39.63950	46.85170	0.00000	12	Surface	No	Yes
11	BS-05	39.63950	46.85170	0.00000	37.99000	47.16020	0.00000	4	Surface	No	Yes
12	BS-06	37.99000	47.16020	0.00000	36.51990	47.82810	0.00000	4	Surface	No	Yes
13	BS-07	36.51990	47.82810	0.00000	34.49770	50.18930	0.00000	8	Surface	No	Yes
14	BS-08	34.49770	50.18930	0.00000	32.12670	51.31390	0.00000	6	Surface	No	Yes
15	BS-09	32.12670	51.31390	0.00000	32.87920	53.12180	0.00000	4	Surface	No	Yes
16	BS-10	32.87920	53.12180	0.00000	31.33990	53.64740	0.00000	4	Surface	No	Yes
17	BS-11	31.33990	53.64740	0.00000	31.19190	53.16840	0.00000	2	Surface	No	Yes
18	BS-12	31.19190	53.16840	0.00000	28.24390	54.40430	0.00000	8	Surface	No	Yes
19	BS-13	28.24390	54.40430	0.00000	29.54720	57.70510	0.00000	8	Surface	No	Yes
20	BS-14	29.54720	57.70510	0.00000	31.85950	56.75830	0.00000	6	Surface	No	Yes
21	BS-15	31.85950	56.75830	0.00000	37.79640	72.67750	0.00000	34	Surface	No	Yes
22	BS-16	37.79640	72.67750	0.00000	39.20230	77.43090	0.00000	10	Surface	No	Yes
23	BS-17	39.20230	77.43090	0.00000	38.43440	77.71030	0.00000	2	Surface	No	Yes
24	BS-18	38.43440	77.71030	0.00000	41.07740	85.19800	0.00000	16	Surface	No	Yes
25	SB-01	80.55960	128.61410	0.00000	81.13390	129.59790	0.00000	4	Surface	No	Yes
26	SB-02	81.13390	129.59790	0.00000	89.14240	124.70300	0.00000	20	Surface	No	Yes
27	SB-03	89.14240	124.70300	0.00000	73.53980	100.34490	0.00000	58	Surface	No	Yes
28	SB-04	73.53980	100.34490	0.00000	65.93010	105.17790	0.00000	20	Surface	No	Yes
29	SB-05	65.93010	105.17790	0.00000	74.10680	118.07820	0.00000	32	Surface	No	Yes
30	SB-06	74.10680	118.07820	0.00000	70.98220	119.61800	0.00000	8	Surface	No	Yes
31	SB-07	70.98220	119.61800	0.00000	70.38470	118.22480	0.00000	4	Surface	No	Yes
32	SB-08	70.38470	118.22480	0.00000	44.31930	131.98290	0.00000	60	Surface	No	Yes
33	SB-09	44.31930	131.98290	0.00000	51.65870	146.07890	0.00000	32	Surface	No	Yes
34	SB-10	51.65870	146.07890	0.00000	59.61210	141.39690	0.00000	20	Surface	No	Yes
35	SB-11	59.61210	141.39690	0.00000	75.98430	132.89110	0.00000	38	Surface	No	Yes
36	SB-12	75.98430	132.89110	0.00000	76.90880	132.21500	0.00000	4	Surface	No	Yes
37	SB-13	76.90880	132.21500	0.00000	76.33510	131.08120	0.00000	4	Surface	No	Yes
38	SB-14	76.33510	131.08120	0.00000	80.55960	128.61410	0.00000	10	Surface	No	Yes
39	HL-01	50.98220	128.46600	0.00000	43.94760	114.73030	0.00000	32	Surface	No	Yes
40	HL-02	43.94760	114.73030	0.00000	37.36020	118.28250	0.00000	16	Surface	No	Yes
41	HL-03	37.36020	118.28250	0.00000	44.31930	131.98290	0.00000	32	Surface	No	Yes
42	CH-01	43.98880	114.70780	0.00000	56.08310	108.24940	0.00000	28	Surface	No	Yes
43	CH-02	56.08310	108.24940	0.00000	44.38770	86.97580	0.00000	50	Surface	No	Yes
44	CH-03	44.38770	86.97580	0.00000	25.93000	97.76960	0.00000	44	Surface	No	Yes
45	CH-04	25.93000	97.76960	0.00000	37.36040	118.28280	0.00000	48	Surface	No	Yes
46	CH-05	44.38770	86.97580	0.00000	41.03370	86.11560	0.00000	8	Surface	No	Yes
47	CH-06	41.03370	86.11560	0.00000	29.42230	92.90730	0.00000	28	Surface	No	Yes
48	CH-07	29.42230	92.90730	0.00000	24.55210	85.67300	0.00000	18	Surface	No	Yes
49	CH-08	24.55210	85.67300	0.00000	24.16950	85.90510	0.00000	2	Surface	No	Yes
50	CH-09	24.16950	85.90510	0.00000	22.25690	83.20670	0.00000	8	Surface	No	Yes
51	CH-10	22.25690	83.20670	0.00000	18.11130	85.84720	0.00000	10	Surface	No	Yes
52	CH-11	18.11130	85.84720	0.00000	25.93050	97.77050	0.00000	30	Surface	No	Yes
53	10S-01	60.26430	42.08760	0.00000	57.77080	36.14360	0.00000	14	Surface	No	Yes
54	10S-02	57.77080	36.14360	0.00000	54.91210	37.26910	0.00000	8	Surface	No	Yes
55	10S-03	54.91210	37.26910	0.00000	54.06250	35.40070	0.00000	6	Surface	No	Yes
56	10S-04	54.06250	35.40070	0.00000	55.90000	34.60740	0.00000	6	Surface	No	Yes
57	10S-05	55.90000	34.60740	0.00000	53.30950	28.60710	0.00000	14	Surface	No	Yes
58	10S-06	53.30950	28.60710	0.00000	46.58180	31.16640	0.00000	16	Surface	No	Yes
59	10S-07	46.58180	31.16640	0.00000	52.66200	44.99820	0.00000	32	Surface	No	Yes
60	10S-08	52.66200	44.99820	0.00000	60.26430	42.08760	0.00000	18	Surface	No	Yes
61	10S-09	55.90000	34.60740	0.00000	59.97500	32.99120	0.00000	10	Surface	No	Yes
62	10S-10	59.97500	32.99120	0.00000	57.49980	26.93420	0.00000	14	Surface	No	Yes
63	10S-11	57.49980	26.93420	0.00000	53.30950	28.60710	0.00000	10	Surface	No	Yes
64	12S-01	56.42810	52.89730	0.00000	70.66640	48.88690	0.00000	30	Surface	No	Yes
65	12S-02	70.66640	48.88690	0.00000	68.32350	43.73440	0.00000	12	Surface	No	Yes
66	12S-03	68.32350	43.73440	0.00000	67.26410	44.08820	0.00000	4	Surface	No	Yes
67	12S-04	67.26410	44.08820	0.00000	65.69450	40.00190	0.00000	10	Surface	No	Yes
68	12S-05	65.69450	40.00190	0.00000	52.89570	44.95010	0.00000	28	Surface	No	Yes

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface type for tunnels	Interpolate imported displacements	Calculate
69	12S-06	52.89570	44.95010	0.00000	56.42810	52.89730	0.00000	18	Surface	No	Yes
70	14S-01	92.77120	50.75620	0.00000	98.63620	50.38480	0.00000	12	Surface	No	Yes
71	14S-02	98.63620	50.38480	0.00000	98.27100	35.62610	0.00000	30	Surface	No	Yes
72	14S-03	98.27100	35.62610	0.00000	92.16740	36.00230	0.00000	14	Surface	No	Yes
73	14S-04	92.16740	36.00230	0.00000	92.40030	33.74250	0.00000	6	Surface	No	Yes
74	14S-05	92.40030	33.74250	0.00000	87.39420	33.22650	0.00000	12	Surface	No	Yes
75	14S-06	87.39420	33.22650	0.00000	84.96610	32.69190	0.00000	6	Surface	No	Yes
76	14S-07	84.96610	32.69190	0.00000	84.24980	39.01460	0.00000	14	Surface	No	Yes
77	14S-08	84.24980	39.01460	0.00000	91.78250	39.68670	0.00000	16	Surface	No	Yes
78	14S-09	91.78250	39.68670	0.00000	91.28600	45.08870	0.00000	12	Surface	No	Yes
79	14S-10	91.28600	45.08870	0.00000	92.75790	45.17660	0.00000	4	Surface	No	Yes
80	14S-11	92.75790	45.17660	0.00000	92.77120	50.75620	0.00000	12	Surface	No	Yes
81	14S-12	91.78250	39.68670	0.00000	92.16740	36.00230	0.00000	8	Surface	No	Yes
82	18S-01	81.33400	88.63190	0.00000	86.41230	96.00810	0.00000	18	Surface	No	Yes
83	18S-02	86.41230	96.00810	0.00000	92.95060	91.70430	0.00000	16	Surface	No	Yes
84	18S-03	92.95060	91.70430	0.00000	91.78190	89.93000	0.00000	6	Surface	No	Yes
85	18S-04	91.78190	89.93000	0.00000	90.32680	90.89600	0.00000	4	Surface	No	Yes
86	18S-05	90.32680	90.89600	0.00000	86.49690	85.17440	0.00000	14	Surface	No	Yes
87	20S-01	86.41230	96.00810	0.00000	84.52910	97.22690	0.00000	6	Surface	No	Yes
88	20S-02	84.52910	97.22690	0.00000	87.92950	102.39110	0.00000	14	Surface	No	Yes
89	20S-03	87.92950	102.39110	0.00000	96.34550	96.84960	0.00000	22	Surface	No	Yes
90	20S-04	96.34550	96.84960	0.00000	92.95490	91.70020	0.00000	14	Surface	No	Yes
91	20S-05	87.93150	102.38980	0.00000	89.37460	104.56500	0.00000	6	Surface	No	Yes
92	20S-06	89.37460	104.56500	0.00000	98.06690	99.48250	0.00000	22	Surface	No	Yes
93	20S-07	98.06690	99.48250	0.00000	96.33700	96.85520	0.00000	8	Surface	No	Yes
94	HT-01	89.37270	104.57010	0.00000	88.40380	105.14270	0.00000	4	Surface	No	Yes
95	HT-02	88.40380	105.14270	0.00000	96.95640	119.99620	0.00000	36	Surface	No	Yes
96	HT-03	96.95640	119.99620	0.00000	106.14990	114.69620	0.00000	22	Surface	No	Yes
97	HT-04	106.14990	114.69620	0.00000	97.55640	99.83220	0.00000	36	Surface	No	Yes
98	22S-01	111.36030	124.06920	0.00000	117.67220	121.87340	0.00000	14	Surface	No	Yes
99	22S-02	117.67220	121.87340	0.00000	113.74630	110.60680	0.00000	24	Surface	No	Yes
100	22S-03	113.74630	110.60680	0.00000	107.41530	112.81150	0.00000	14	Surface	No	Yes
101	22S-04	107.41530	112.81150	0.00000	111.36030	124.06920	0.00000	24	Surface	No	Yes
102	23K-01	126.87040	106.75440	0.00000	121.35490	108.65170	0.00000	12	Surface	No	Yes
103	23K-02	121.35490	108.65170	0.00000	124.50830	117.78880	0.00000	20	Surface	No	Yes
104	23K-03	124.50830	117.78880	0.00000	130.05210	115.90790	0.00000	12	Surface	No	Yes
105	23K-04	130.24640	116.47000	0.00000	135.14280	114.77200	0.00000	12	Surface	No	Yes
106	23K-05	135.32920	115.30920	0.00000	140.56920	113.49180	0.00000	12	Surface	No	Yes
107	23K-06	140.75790	114.06100	0.00000	145.80760	112.31000	0.00000	12	Surface	No	Yes
108	23K-07	145.92710	112.67510	0.00000	151.15830	110.86520	0.00000	12	Surface	No	Yes
109	23K-08	151.15830	110.86520	0.00000	147.93780	101.55660	0.00000	20	Surface	No	Yes
110	23K-09	147.93780	101.55660	0.00000	142.71890	103.40190	0.00000	12	Surface	No	Yes
111	23K-10	137.49760	104.66790	0.00000	142.54690	102.91530	0.00000	12	Surface	No	Yes
112	23K-11	142.54690	102.91530	0.00000	145.92710	112.67510	0.00000	22	Surface	No	Yes
113	23K-12	140.75790	114.06100	0.00000	137.34700	104.23380	0.00000	22	Surface	No	Yes
114	23K-13	137.34700	104.23380	0.00000	132.13560	106.08440	0.00000	12	Surface	No	Yes
115	23K-14	127.09450	107.39930	0.00000	132.00260	105.70020	0.00000	12	Surface	No	Yes
116	23K-15	132.00260	105.70020	0.00000	135.32920	115.30920	0.00000	22	Surface	No	Yes
117	23K-16	130.24640	116.47000	0.00000	126.87040	106.75440	0.00000	22	Surface	No	Yes
118	23K-17	150.73130	109.63110	0.00000	154.98620	108.13750	0.00000	10	Surface	No	Yes
119	23K-18	154.98620	108.13750	0.00000	153.26510	103.07420	0.00000	12	Surface	No	Yes
120	23K-19	153.26510	103.07420	0.00000	148.98040	104.57010	0.00000	10	Surface	No	Yes
121	23AB-01	147.70060	95.28400	0.00000	151.69590	95.55920	0.00000	10	Surface	No	Yes
122	23AB-02	151.69590	95.55920	0.00000	151.67850	95.77640	0.00000	2	Surface	No	Yes
123	23AB-03	151.67850	95.77640	0.00000	156.45740	96.11380	0.00000	10	Surface	No	Yes
124	23AB-04	156.45740	96.11380	0.00000	156.91140	89.68290	0.00000	14	Surface	No	Yes
125	23AB-05	156.91140	89.68290	0.00000	157.92310	89.75230	0.00000	4	Surface	No	Yes
126	23AB-06	157.92310	89.75230	0.00000	158.43810	83.37010	0.00000	14	Surface	No	Yes
127	23AB-07	158.43810	83.37010	0.00000	153.41680	82.96500	0.00000	12	Surface	No	Yes
128	23AB-08	153.41680	82.96500	0.00000	153.39420	83.24560	0.00000	2	Surface	No	Yes
129	23AB-09	153.39420	83.24560	0.00000	147.77430	82.89600	0.00000	12	Surface	No	Yes
130	23AB-10	147.77430	82.89600	0.00000	147.53430	85.93970	0.00000	8	Surface	No	Yes
131	23AB-11	147.53430	85.93970	0.00000	149.37650	86.06600	0.00000	4	Surface	No	Yes
132	23AB-12	149.37650	86.06600	0.00000	149.18030	88.92790	0.00000	6	Surface	No	Yes
133	23AB-13	149.18030	88.92790	0.00000	148.15150	88.83780	0.00000	4	Surface	No	Yes
134	23AB-14	148.15150	88.83780	0.00000	147.70060	95.28400	0.00000	14	Surface	No	Yes
135	23AB-15	149.18030	88.92790	0.00000	156.87950	89.68080	0.00000	16	Surface	No	Yes
136	28K-01	157.04370	132.95660	0.00000	166.97510	127.93910	0.00000	24	Surface	No	Yes
137	28K-02	166.97510	127.93910	0.00000	166.97510	124.18080	0.00000	8	Surface	No	Yes
138	28K-03	166.97510	124.18080	0.00000	162.93810	116.19020	0.00000	18	Surface	No	Yes
139	28K-04	162.93810	116.19020	0.00000	156.00440	119.55240	0.00000	16	Surface	No	Yes
140	28K-05	156.00440	119.55240	0.00000	159.23750	126.13830	0.00000	16	Surface	No	Yes
141	28K-06	159.23750	126.13830	0.00000	154.79550	128.31900	0.00000	10	Surface	No	Yes
142	28K-07	154.79550	128.31900	0.00000	157.04370	132.95660	0.00000	12	Surface	No	Yes

Displacement Grids

Ref.	Name	Extrusion: Direction	Base line start: X [m]	Base line start: Y [m]	Base line start: Z(level) [m]	Base line end: X [m]	Base line end: Y [m]	Base line end: Z(level) [m]	Base line: Intervals [No.]	Extrusion: Distance [m]	Extrusion: Intervals [No.]	Surface type for tunnels	Calculate
1	A	Global X	0.00000	0.00000	0.00000	-	150.00000	0.00000	30	107.00000	21	Surface	Yes
2	B	Global X	107.00000	0.00000	0.00000	-	150.00000	0.00000	30	103.00000	20	Surface	Yes

Polygonal Excavations

Ref. 1
Excavation Name: Excavation - Island
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	54.537	102.73	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	60.192	99.670	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	60.942	96.557	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	59.195	93.331	-5.0000	Yes	No	-	-	-	-	-	-
5	62.131	89.915	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	60.731	88.712	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
7	57.609	90.405	-5.0000	Yes	No	-	-	-	-	-	-
8	53.446	82.717	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
9	45.899	86.804	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	54.537	102.73	60.192	99.670	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
2	60.192	99.670	60.942	96.557	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	60.942	96.557	59.195	93.331	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	59.195	93.331	62.131	89.915	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
5	62.131	89.915	60.731	88.712	No vertical ground movement	No horizontal ground movement
6	60.731	88.712	57.609	90.405	Exc. in front of high	Exc. in front of high

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
					stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
7	57.609	90.405	53.446	82.717	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
8	53.446	82.717	45.899	86.804	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
9	45.899	86.804	54.537	102.73	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))

Ref. 2
Excavation Name: **Excavation - DH Extension**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	70.978	81.319	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	76.429	80.337	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	76.429	51.608	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	62.210	55.687	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	62.210	63.651	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	67.943	78.704	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	70.978	81.319	76.429	80.337	No vertical ground movement	No horizontal ground movement
2	76.429	80.337	76.429	51.608	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	76.429	51.608	62.210	55.687	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	62.210	55.687	62.210	63.651	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
5	62.210	63.651	67.943	78.704	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
6	67.943	78.704	70.978	81.319	No vertical ground movement	No horizontal ground movement

Ref. 3
Excavation Name: **Excavation - Rear Block**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	116.20	77.278	-12.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	116.20	77.278	-11.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	166.98	77.282	-11.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	166.98	77.282	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	173.17	77.283	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	173.17	49.477	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
7	166.98	49.477	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
8	166.98	49.477	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
9	133.91	49.481	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
10	110.28	56.324	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
11	110.28	56.324	-12.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	116.20	77.278	116.20	77.278	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
2	116.20	77.278	166.98	77.282	Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
3	166.98	77.282	166.98	77.282	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
4	166.98	77.282	173.17	77.283	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
5	173.17	77.283	173.17	49.477	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
6	173.17	49.477	166.98	49.477	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
7	166.98	49.477	166.98	49.477	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
8	166.98	49.477	133.91	49.481	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
9	133.91	49.481	110.28	56.324	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
10	110.28	56.324	110.28	56.324	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
11	110.28	56.324	116.20	77.278	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))

Ref. 4
Excavation Name: **Installation - Island**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	54.537	102.73	-10.000	Yes	No	-	-	-	-	-	-
2	60.192	99.670	-10.000	Yes	No	-	-	-	-	-	-
3	60.942	96.557	-10.000	Yes	No	-	-	-	-	-	-
4	59.195	93.331	-10.000	Yes	No	-	-	-	-	-	-
5	62.131	89.915	-10.000	Yes	No	-	-	-	-	-	-
6	60.731	88.712	-10.000	Yes	No	-	-	-	-	-	-
7	57.609	90.405	-10.000	Yes	No	-	-	-	-	-	-
8	53.446	82.717	-10.000	Yes	No	-	-	-	-	-	-
9	45.899	86.804	-10.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	54.537	102.73	60.192	99.670	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
2	60.192	99.670	60.942	96.557	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
3	60.942	96.557	59.195	93.331	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
4	59.195	93.331	62.131	89.915	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
5	62.131	89.915	60.731	88.712	No vertical ground movement	No horizontal ground movement
6	60.731	88.712	57.609	90.405	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
7	57.609	90.405	53.446	82.717	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
8	53.446	82.717	45.899	86.804	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
9	45.899	86.804	54.537	102.73	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Ref. 5
Excavation Name: **Installation - DH Extension**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	70.978	81.319	-10.000	Yes	No	-	-	-	-	-	-
2	76.429	80.337	-10.000	Yes	No	-	-	-	-	-	-
3	76.429	51.608	-10.000	Yes	No	-	-	-	-	-	-
4	62.210	55.687	-10.000	Yes	No	-	-	-	-	-	-
5	62.210	63.651	-10.000	Yes	No	-	-	-	-	-	-
6	67.943	78.704	-10.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	70.978	81.319	76.429	80.337	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
2	76.429	80.337	76.429	51.608	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
3	76.429	51.608	62.210	55.687	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
4	62.210	55.687	62.210	63.651	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
5	62.210	63.651	67.943	78.704	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
6	67.943	78.704	70.978	81.319	No vertical ground movement	No horizontal ground movement

Ref. 6
Excavation Name: **Installation - Rear Block**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	116.20	77.278	-22.000	Yes	No	-	-	-	-	-	-
2	116.20	77.278	-15.000	Yes	No	-	-	-	-	-	-
3	166.98	77.282	-15.000	Yes	No	-	-	-	-	-	-
4	166.98	77.282	-10.000	Yes	No	-	-	-	-	-	-
5	173.17	77.283	-10.000	Yes	No	-	-	-	-	-	-
6	173.17	49.477	-10.000	Yes	No	-	-	-	-	-	-
7	166.98	49.477	-10.000	Yes	No	-	-	-	-	-	-
8	166.98	49.477	-15.000	Yes	No	-	-	-	-	-	-
9	133.91	49.481	-15.000	Yes	No	-	-	-	-	-	-
10	110.28	56.324	-15.000	Yes	No	-	-	-	-	-	-
11	110.28	56.324	-22.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	116.20	77.278	116.20	77.278	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
2	116.20	77.278	166.98	77.282	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
3	166.98	77.282	166.98	77.282	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
4	166.98	77.282	173.17	77.283	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
5	173.17	77.283	173.17	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
6	173.17	49.477	166.98	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
7	166.98	49.477	166.98	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
8	166.98	49.477	133.91	49.481	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
9	133.91	49.481	110.28	56.324	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
10	110.28	56.324	110.28	56.324	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
11	110.28	56.324	116.20	77.278	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Circular Excavations

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal

Vertical Ground Movement Curves

Curve Name: **No vertical ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = 0.0x + 0.0
Coeff. of Determination:

Curve Name: **Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.040][2.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.039][0.100,0.000,0.049][0.200,0.000,0.056][0.300,0.000,0.062]
[0.400,0.000,0.067][0.500,0.000,0.070][0.600,0.000,0.072][0.700,0.000,0.073]
[0.800,0.000,0.073][0.900,0.000,0.072][1.000,0.000,0.070][1.100,0.000,0.068]
[1.200,0.000,0.065][1.300,0.000,0.061][1.400,0.000,0.058][1.500,0.000,0.054]
[1.600,0.000,0.050][1.700,0.000,0.046][1.800,0.000,0.042][1.900,0.000,0.038]
[2.000,0.000,0.034][2.100,0.000,0.030][2.200,0.000,0.027][2.300,0.000,0.023]
[2.400,0.000,0.020][2.500,0.000,0.017][2.600,0.000,0.014][2.700,0.000,0.012]
[2.800,0.000,0.010][2.900,0.000,0.008][3.000,0.000,0.007][3.100,0.000,0.005]
[3.200,0.000,0.004][3.300,0.000,0.004][3.400,0.000,0.003][3.500,0.000,0.002]
[3.600,0.000,0.002][3.700,0.000,0.002][3.800,0.000,0.001][3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-2.6455E-3x^4 + 2.8495E-2x^3 - 1.0051E-1x^2 + 1.0569E-1x + 3.8990E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.040][2.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.039][0.100,0.000,0.049][0.200,0.000,0.056][0.300,0.000,0.062]
[0.400,0.000,0.067][0.500,0.000,0.070][0.600,0.000,0.072][0.700,0.000,0.073]
[0.800,0.000,0.073][0.900,0.000,0.072][1.000,0.000,0.070][1.100,0.000,0.068]
[1.200,0.000,0.065][1.300,0.000,0.061][1.400,0.000,0.058][1.500,0.000,0.054]
[1.600,0.000,0.050][1.700,0.000,0.046][1.800,0.000,0.042][1.900,0.000,0.038]
[2.000,0.000,0.034][2.100,0.000,0.030][2.200,0.000,0.027][2.300,0.000,0.023]
[2.400,0.000,0.020][2.500,0.000,0.017][2.600,0.000,0.014][2.700,0.000,0.012]
[2.800,0.000,0.010][2.900,0.000,0.008][3.000,0.000,0.007][3.100,0.000,0.005]
[3.200,0.000,0.004][3.300,0.000,0.004][3.400,0.000,0.003][3.500,0.000,0.002]
[3.600,0.000,0.002][3.700,0.000,0.002][3.800,0.000,0.001][3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-2.6455E-3x^4 + 2.8495E-2x^3 - 1.0051E-1x^2 + 1.0569E-1x + 3.8990E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.098][0.100,0.000,0.122][0.200,0.000,0.140][0.300,0.000,0.155]
[0.400,0.000,0.168][0.500,0.000,0.175][0.600,0.000,0.180][0.700,0.000,0.182]
[0.800,0.000,0.182][0.900,0.000,0.180][1.000,0.000,0.175][1.100,0.000,0.170]
[1.200,0.000,0.163][1.300,0.000,0.152][1.400,0.000,0.145][1.500,0.000,0.135]
[1.600,0.000,0.125][1.700,0.000,0.115][1.800,0.000,0.105][1.900,0.000,0.095]
[2.000,0.000,0.085][2.100,0.000,0.075][2.200,0.000,0.068][2.300,0.000,0.058]
[2.400,0.000,0.050][2.500,0.000,0.043][2.600,0.000,0.035][2.700,0.000,0.030]
[2.800,0.000,0.025][2.900,0.000,0.020][3.000,0.000,0.018][3.100,0.000,0.013]
[3.200,0.000,0.010][3.300,0.000,0.010][3.400,0.000,0.007][3.500,0.000,0.005]
[3.600,0.000,0.005][3.700,0.000,0.005][3.800,0.000,0.003][3.900,0.000,0.003]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-6.6137E-3x^4 + 7.1237E-2x^3 - 2.5126E-1x^2 + 2.6423E-1x + 9.7475E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,1.035][0.100,0.000,0.981][0.200,0.000,0.933][0.300,0.000,0.882]
[0.400,0.000,0.837][0.500,0.000,0.792][0.600,0.000,0.750][0.700,0.000,0.711]
[0.800,0.000,0.672][0.900,0.000,0.636][1.000,0.000,0.600][1.100,0.000,0.567]
[1.200,0.000,0.534][1.300,0.000,0.504][1.400,0.000,0.474][1.500,0.000,0.447]
[1.600,0.000,0.420][1.700,0.000,0.396][1.800,0.000,0.372][1.900,0.000,0.348]
[2.000,0.000,0.327][2.100,0.000,0.303][2.200,0.000,0.285][2.300,0.000,0.264]
[2.400,0.000,0.246][2.500,0.000,0.228][2.600,0.000,0.204][2.700,0.000,0.183]
[2.800,0.000,0.159][2.900,0.000,0.138][3.000,0.000,0.114][3.100,0.000,0.090]
[3.200,0.000,0.069][3.300,0.000,0.045][3.400,0.000,0.024][3.500,0.000,0.000]

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal

Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-1.8080E-2x^3 + 1.3803E-1x^2 - 5.5870E-1x + 1.0379$
Coeff. of Determination: 9.9993E-1

Horizontal Ground Movement Curves

Curve Name: No horizontal ground movement
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 0
y Order: 0
Polynomial: z = 0.0
Coeff. of Determination:

Curve Name: Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.038][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.011][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-4.2486E-3x^3 + 1.9096E-2x^2 - 4.6221E-2x + 4.0729E-2$
Coeff. of Determination: 1.0000

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.150][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-3.75E-2x + 1.50E-1$
Coeff. of Determination: 1.00

Curve Name: Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.038][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.011][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-4.2486E-3x^3 + 1.9096E-2x^2 - 4.6221E-2x + 4.0729E-2$
Coeff. of Determination: 1.0000

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.150][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-3.75E-2x + 1.50E-1$
Coeff. of Determination: 1.00

Curve Name: 2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.375][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-9.38E-2x + 3.75E-1$
Coeff. of Determination: 1.00

Curve Name: 3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,1.200][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-3.0E-1x + 1.2$
Coeff. of Determination: 1.0

Damage Category Strains

Ref.	Name	0 (Negligible) to 1 (Very Slight)	1 (Very Slight) to 2 (Slight)	2 (Slight) to 3 (Moderate)	3 (Moderate) to 4 (Severe)
1	Burland Strain Limits	0.0	500.00E-6	750.00E-6	0.0015000

Specific Buildings - Geometry

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start [m]	Distance Along Line: End [m]	Vertical Offsets from Line for Vertical Movement Calculations [m]	Vertical Displacement Limit Sensitivity [mm]	Damage Category Strains	Poisson's Ratio	E/G
1	16S-01	16S-01	16S-01	0.00000	6.01700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
2	16S-02	16S-02	16S-02	0.00000	6.58800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
3	16S-03	16S-03	16S-03	0.00000	2.80200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
4	16S-04	16S-04	16S-04	0.00000	7.67400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start	Distance Along Line: End	Vertical Offsets from Line for Vertical	Vertical Displacement Limit	Damage Category Strains	Poisson's Ratio	E/G
5	16S-05	16S-05	16S-05	0.00000	2.97100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
6	16S-06	16S-06	16S-06	0.00000	6.22300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
7	BS-01	BS-01	BS-01	0.00000	12.97800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
8	BS-02	BS-02	BS-02	0.00000	30.46200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
9	BS-03	BS-03	BS-03	0.00000	0.34500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
10	BS-04	BS-04	BS-04	0.00000	5.84100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
11	BS-05	BS-05	BS-05	0.00000	1.67800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
12	BS-06	BS-06	BS-06	0.00000	1.61400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
13	BS-07	BS-07	BS-07	0.00000	3.10800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
14	BS-08	BS-08	BS-08	0.00000	2.62400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
15	BS-09	BS-09	BS-09	0.00000	1.95800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
16	BS-10	BS-10	BS-10	0.00000	1.62600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
17	BS-11	BS-11	BS-11	0.00000	0.50100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
18	BS-12	BS-12	BS-12	0.00000	3.19600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
19	BS-13	BS-13	BS-13	0.00000	3.54800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
20	BS-14	BS-14	BS-14	0.00000	2.49800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
21	BS-15	BS-15	BS-15	0.00000	16.99000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
22	BS-16	BS-16	BS-16	0.00000	4.95600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
23	BS-17	BS-17	BS-17	0.00000	0.81700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
24	BS-18	BS-18	BS-18	0.00000	7.94000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
25	SB-01	SB-01	SB-01	0.00000	1.13900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
26	SB-02	SB-02	SB-02	0.00000	9.38500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
27	SB-03	SB-03	SB-03	0.00000	28.92600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
28	SB-04	SB-04	SB-04	0.00000	9.01400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
29	SB-05	SB-05	SB-05	0.00000	15.27300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
30	SB-06	SB-06	SB-06	0.00000	3.48300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
31	SB-07	SB-07	SB-07	0.00000	1.51500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
32	SB-08	SB-08	SB-08	0.00000	29.47300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
33	SB-09	SB-09	SB-09	0.00000	15.89200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
34	SB-10	SB-10	SB-10	0.00000	9.22900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
35	SB-11	SB-11	SB-11	0.00000	18.44900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
36	SB-12	SB-12	SB-12	0.00000	1.14500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
37	SB-13	SB-13	SB-13	0.00000	1.27000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
38	SB-14	SB-14	SB-14	0.00000	4.89200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
39	HL-01	HL-01	HL-01	0.00000	15.43200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
40	HL-02	HL-02	HL-02	0.00000	7.48400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
41	HL-03	HL-03	HL-03	0.00000	15.36600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
42	CH-01	CH-01	CH-01	0.00000	13.71000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
43	CH-02	CH-02	CH-02	0.00000	24.27600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
44	CH-03	CH-03	CH-03	0.00000	21.38200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
45	CH-04	CH-04	CH-04	0.00000	23.48200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
46	CH-05	CH-05	CH-05	0.00000	3.46200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
47	CH-06	CH-06	CH-06	0.00000	13.45100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
48	CH-07	CH-07	CH-07	0.00000	8.72000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
49	CH-08	CH-08	CH-08	0.00000	0.44700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
50	CH-09	CH-09	CH-09	0.00000	3.30700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
51	CH-10	CH-10	CH-10	0.00000	4.91500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
52	CH-11	CH-11	CH-11	0.00000	14.25800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
53	10S-01	10S-01	10S-01	0.00000	6.44500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
54	10S-02	10S-02	10S-02	0.00000	3.07200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
55	10S-03	10S-03	10S-03	0.00000	2.05200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
56	10S-04	10S-04	10S-04	0.00000	2.00100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
57	10S-05	10S-05	10S-05	0.00000	6.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
58	10S-06	10S-06	10S-06	0.00000	7.19800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
59	10S-07	10S-07	10S-07	0.00000	15.10900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
60	10S-08	10S-08	10S-08	0.00000	8.14000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
61	10S-09	10S-09	10S-09	0.00000	4.38300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
62	10S-10	10S-10	10S-10	0.00000	6.54300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
63	10S-11	10S-11	10S-11	0.00000	4.51100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
64	12S-01	12S-01	12S-01	0.00000	14.79200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
65	12S-02	12S-02	12S-02	0.00000	5.66000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
66	12S-03	12S-03	12S-03	0.00000	1.11600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
67	12S-04	12S-04	12S-04	0.00000	4.37700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
68	12S-05	12S-05	12S-05	0.00000	13.72200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
69	12S-06	12S-06	12S-06	0.00000	8.69600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
70	14S-01	14S-01	14S-01	0.00000	5.87600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
71	14S-02	14S-02	14S-02	0.00000	14.76300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
72	14S-03	14S-03	14S-03	0.00000	6.11500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
73	14S-04	14S-04	14S-04	0.00000	2.27100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
74	14S-05	14S-05	14S-05	0.00000	5.03200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
75	14S-06	14S-06	14S-06	0.00000	2.48600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
76	14S-07	14S-07	14S-07	0.00000	6.36300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
77	14S-08	14S-08	14S-08	0.00000	7.56200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
78	14S-09	14S-09	14S-09	0.00000	5.42400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
79	14S-10	14S-10	14S-10	0.00000	1.47400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
80	14S-11	14S-11	14S-11	0.00000	5.57900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
81	14S-12	14S-12	14S-12	0.00000	3.70400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
82	18S-01	18S-01	18S-01	0.00000	8.95500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
83	18S-02	18S-02	18S-02	0.00000	7.82700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
84	18S-03	18S-03	18S-03	0.00000	2.12400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
85	18S-04	18S-04	18S-04	0.00000	1.74600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
86	18S-05	18S-05	18S-05	0.00000	6.88500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
87	20S-01	20S-01	20S-01	0.00000	2.24300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
88	20S-02	20S-02	20S-02	0.00000	6.18300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
89	20S-03	20S-03	20S-03	0.00000	10.07600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
90	20S-04	20S-04	20S-04	0.00000	6.16500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
91	20S-05	20S-05	20S-05	0.00000	2.61000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
92	20S-06	20S-06	20S-06	0.00000	10.06900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
93	20S-07	20S-07	20S-07	0.00000	3.14500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
94	HT-01	HT-01	HT-01	0.00000	1.12500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
95	HT-02	HT-02	HT-02	0.00000	17.13900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
96	HT-03	HT-03	HT-03	0.00000	10.61100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
97	HT-04	HT-04	HT-04	0.00000	17.16900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
98	22S-01	22S-01	22S-01	0.00000	6.68200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
99	22S-02	22S-02	22S-02	0.00000	11.93100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
100	22S-03	22S-03	22S-03	0.00000	6.70300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
101	22S-04	22S-04	22S-04	0.00000	11.92800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
102	23K-01	23K-01	23K-01	0.00000	5.83200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
103	23K-02	23K-02	23K-02	0.00000	9.66500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
104	23K-03	23K-03	23K-03	0.00000	5.85400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
105	23K-04	23K-04	23K-04	0.00000	5.18200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
106	23K-05	23K-05	23K-05	0.00000	5.54600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
107	23K-06	23K-06	23K-06	0.00000	5.34400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
108	23K-07	23K-07	23K-07	0.00000	5.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
109	23K-08	23K-08	23K-08	0.00000	9.84900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
110	23K-09	23K-09	23K-09	0.00000	5.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
111	23K-10	23K-10	23K-10	0.00000	5.34400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
112	23K-11	23K-11	23K-11	0.00000	10.32800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
113	23K-12	23K-12	23K-12	0.00000	10.40200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
114	23K-13	23K-13	23K-13	0.00000	5.53000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
115	23K-14	23K-14	23K-14	0.00000	5.19300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
116	23K-15	23K-15	23K-15	0.00000	10.16800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
117	23K-16	23K-16	23K-16	0.00000	10.28500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
118	23K-17	23K-17	23K-17	0.00000	4.50900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
119	23K-18	23K-18	23K-18	0.00000	5.34700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
120	23K-19	23K-19	23K-19	0.00000	4.53800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
121	23AB-01	23AB-01	23AB-01	0.00000	4.00400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
122	23AB-02	23AB-02	23AB-02	0.00000	0.21700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
123	23AB-03	23AB-03	23AB-03	0.00000	4.79000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
124	23AB-04	23AB-04	23AB-04	0.00000	6.44600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
125	23AB-05	23AB-05	23AB-05	0.00000	1.01400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
126	23AB-06	23AB-06	23AB-06	0.00000	6.40200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
127	23AB-07	23AB-07	23AB-07	0.00000	5.03700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
128	23AB-08	23AB-08	23AB-08	0.00000	0.28100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
129	23AB-09	23AB-09	23AB-09	0.00000	5.63000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
130	23AB-10	23AB-10	23AB-10	0.00000	3.05300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
131	23AB-11	23AB-11	23AB-11	0.00000	1.84600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
132	23AB-12	23AB-12	23AB-12	0.00000	2.86800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
133	23AB-13	23AB-13	23AB-13	0.00000	1.03200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
134	23AB-14	23AB-14	23AB-14	0.00000	6.46100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start	Distance Along Line: End	Vertical Offsets from Line for Vertical	Vertical Displacement Limit	Damage Category Strains	Poisson's Ratio	E/G
135	23AB-15	23AB-15	23AB-15	0.00000	7.73500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
136	28K-01	28K-01	28K-01	0.00000	11.12600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
137	28K-02	28K-02	28K-02	0.00000	3.75800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
138	28K-03	28K-03	28K-03	0.00000	8.95200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
139	28K-04	28K-04	28K-04	0.00000	7.70500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
140	28K-05	28K-05	28K-05	0.00000	7.33600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
141	28K-06	28K-06	28K-06	0.00000	4.94800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
142	28K-07	28K-07	28K-07	0.00000	5.15300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Specific Buildings - Bending Parameters

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging: 2nd Mom. of Area (per unit width)	Hogging: Dist. of Bending Strain from N.A.	Hogging: Dist. of N.A. from Edge of Beam in Tension	Sagging: 2nd Mom. of Area (per unit width)	Sagging: Dist. of Bending Strain from N.A.	Sagging: Dist. of N.A. from Edge of Beam in Tension
			[m]		[m³]	[m]	[m]	[m³]	[m]	[m]
1	16S-01	16S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
2	16S-02	16S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
3	16S-03	16S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
4	16S-04	16S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
5	16S-05	16S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
6	16S-06	16S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
7	BS-01	BS-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
8	BS-02	BS-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
9	BS-03	BS-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
10	BS-04	BS-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
11	BS-05	BS-05	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
12	BS-06	BS-06	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
13	BS-07	BS-07	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
14	BS-08	BS-08	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
15	BS-09	BS-09	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
16	BS-10	BS-10	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
17	BS-11	BS-11	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
18	BS-12	BS-12	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
19	BS-13	BS-13	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
20	BS-14	BS-14	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
21	BS-15	BS-15	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
22	BS-16	BS-16	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
23	BS-17	BS-17	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
24	BS-18	BS-18	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
25	SB-01	SB-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
26	SB-02	SB-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
27	SB-03	SB-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
28	SB-04	SB-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
29	SB-05	SB-05	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
30	SB-06	SB-06	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
31	SB-07	SB-07	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
32	SB-08	SB-08	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
33	SB-09	SB-09	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
34	SB-10	SB-10	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
35	SB-11	SB-11	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
36	SB-12	SB-12	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
37	SB-13	SB-13	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
38	SB-14	SB-14	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
39	HL-01	HL-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
40	HL-02	HL-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
41	HL-03	HL-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
42	CH-01	CH-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
43	CH-02	CH-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
44	CH-03	CH-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
45	CH-04	CH-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
46	CH-05	CH-05	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
47	CH-06	CH-06	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
48	CH-07	CH-07	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
49	CH-08	CH-08	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
50	CH-09	CH-09	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
51	CH-10	CH-10	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
52	CH-11	CH-11	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
53	10S-01	10S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
54	10S-02	10S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
55	10S-03	10S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
56	10S-04	10S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
57	10S-05	10S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
58	10S-06	10S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
59	10S-07	10S-07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
60	10S-08	10S-08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
61	10S-09	10S-09	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
62	10S-10	10S-10	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
63	10S-11	10S-11	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
64	12S-01	12S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
65	12S-02	12S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
66	12S-03	12S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
67	12S-04	12S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
68	12S-05	12S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
69	12S-06	12S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
70	14S-01	14S-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
71	14S-02	14S-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
72	14S-03	14S-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
73	14S-04	14S-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
74	14S-05	14S-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
75	14S-06	14S-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
76	14S-07	14S-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
77	14S-08	14S-08	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
78	14S-09	14S-09	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
79	14S-10	14S-10	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
80	14S-11	14S-11	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
81	14S-12	14S-12	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
82	18S-01	18S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
83	18S-02	18S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
84	18S-03	18S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
85	18S-04	18S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
86	18S-05	18S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
87	20S-01	20S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
88	20S-02	20S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
89	20S-03	20S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
90	20S-04	20S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
91	20S-05	20S-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
92	20S-06	20S-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
93	20S-07	20S-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
94	HT-01	HT-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
95	HT-02	HT-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
96	HT-03	HT-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
97	HT-04	HT-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
98	22S-01	22S-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
99	22S-02	22S-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
100	22S-03	22S-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
101	22S-04	22S-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
102	23K-01	23K-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
103	23K-02	23K-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
104	23K-03	23K-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
105	23K-04	23K-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
106	23K-05	23K-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
107	23K-06	23K-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
108	23K-07	23K-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging: 2nd Mom. of Area	Hogging: Dist. of Bending	Hogging: Dist. of N.A. from	Sagging: 2nd Mom. of Area	Sagging: Dist. of Bending	Sagging: Dist. of N.A. from
109	23K-08	23K-08	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
110	23K-09	23K-09	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
111	23K-10	23K-10	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
112	23K-11	23K-11	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
113	23K-12	23K-12	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
114	23K-13	23K-13	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
115	23K-14	23K-14	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
116	23K-15	23K-15	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
117	23K-16	23K-16	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
118	23K-17	23K-17	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
119	23K-18	23K-18	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
120	23K-19	23K-19	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
121	23AB-01	23AB-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
122	23AB-02	23AB-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
123	23AB-03	23AB-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
124	23AB-04	23AB-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
125	23AB-05	23AB-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
126	23AB-06	23AB-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
127	23AB-07	23AB-07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
128	23AB-08	23AB-08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
129	23AB-09	23AB-09	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
130	23AB-10	23AB-10	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
131	23AB-11	23AB-11	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
132	23AB-12	23AB-12	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
133	23AB-13	23AB-13	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
134	23AB-14	23AB-14	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
135	23AB-15	23AB-15	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
136	28K-01	28K-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
137	28K-02	28K-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
138	28K-03	28K-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
139	28K-04	28K-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
140	28K-05	28K-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
141	28K-06	28K-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
142	28K-07	28K-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000

Specific Buildings - Segment Combinations

Stage: Ref.	Stage: Name	Building: Ref.	Building: Name	Sub-Building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature	Combined Segment
0	Base Model	1	16S-01	16S-01	0.0	No combined segments for this stage, specific building and offset				
		2	16S-02	16S-02	0.0	No combined segments for this stage, specific building and offset				
		3	16S-03	16S-03	0.0	No combined segments for this stage, specific building and offset				
		4	16S-04	16S-04	0.0	No combined segments for this stage, specific building and offset				
		5	16S-05	16S-05	0.0	No combined segments for this stage, specific building and offset				
		6	16S-06	16S-06	0.0	7	0.0	0.0	Hogging	0
		7	BS-01	BS-01	0.0	9	0.0	0.0	Hogging	1
					0.0	11	0.0	0.0	Hogging	1
					0.0	13	0.0	0.0	Hogging	2
					0.0	15	0.0	0.0	Hogging	2
					0.0	17	0.0	0.0	None	2
		8	BS-02	BS-02	0.0	19	0.0	0.0	None	1
					0.0	21	0.0	0.0	None	2
					0.0	23	0.0	0.0	None	3
					0.0	25	0.0	0.0	None	4
					0.0	27	0.0	0.0	None	5
					0.0	29	0.0	0.0	None	6
		9	BS-03	BS-03	0.0	No combined segments for this stage, specific building and offset				
		10	BS-04	BS-04	0.0	No combined segments for this stage, specific building and offset				
		11	BS-05	BS-05	0.0	No combined segments for this stage, specific building and offset				
		12	BS-06	BS-06	0.0	No combined segments for this stage, specific building and offset				
		13	BS-07	BS-07	0.0	No combined segments for this stage, specific building and offset				
		14	BS-08	BS-08	0.0	No combined segments for this stage, specific building and offset				
		15	BS-09	BS-09	0.0	No combined segments for this stage, specific building and offset				
		16	BS-10	BS-10	0.0	No combined segments for this stage, specific building and offset				
		17	BS-11	BS-11	0.0	No combined segments for this stage, specific building and offset				
		18	BS-12	BS-12	0.0	No combined segments for this stage, specific building and offset				
		19	BS-13	BS-13	0.0	No combined segments for this stage, specific building and offset				
		20	BS-14	BS-14	0.0	No combined segments for this stage, specific building and offset				
		21	BS-15	BS-15	0.0	No combined segments for this stage, specific building and offset				
		22	BS-16	BS-16	0.0	No combined segments for this stage, specific building and offset				
		23	BS-17	BS-17	0.0	No combined segments for this stage, specific building and offset				
		24	BS-18	BS-18	0.0	No combined segments for this stage, specific building and offset				
		25	SB-01	SB-01	0.0	No combined segments for this stage, specific building and offset				
		26	SB-02	SB-02	0.0	No combined segments for this stage, specific building and offset				
		27	SB-03	SB-03	0.0	No combined segments for this stage, specific building and offset				
		28	SB-04	SB-04	0.0	No combined segments for this stage, specific building and offset				
		29	SB-05	SB-05	0.0	No combined segments for this stage, specific building and offset				
		30	SB-06	SB-06	0.0	No combined segments for this stage, specific building and offset				
		31	SB-07	SB-07	0.0	No combined segments for this stage, specific building and offset				
		32	SB-08	SB-08	0.0	No combined segments for this stage, specific building and offset				
		33	SB-09	SB-09	0.0	No combined segments for this stage, specific building and offset				
		34	SB-10	SB-10	0.0	No combined segments for this stage, specific building and offset				
		35	SB-11	SB-11	0.0	No combined segments for this stage, specific building and offset				
		36	SB-12	SB-12	0.0	No combined segments for this stage, specific building and offset				
		37	SB-13	SB-13	0.0	No combined segments for this stage, specific building and offset				
		38	SB-14	SB-14	0.0	No combined segments for this stage, specific building and offset				
		39	HL-01	HL-01	0.0	No combined segments for this stage, specific building and offset				
		40	HL-02	HL-02	0.0	No combined segments for this stage, specific building and offset				
		41	HL-03	HL-03	0.0	No combined segments for this stage, specific building and offset				
		42	CH-01	CH-01	0.0	No combined segments for this stage, specific building and offset				
		43	CH-02	CH-02	0.0	No combined segments for this stage, specific building and offset				
		44	CH-03	CH-03	0.0	No combined segments for this stage, specific building and offset				
		45	CH-04	CH-04	0.0	No combined segments for this stage, specific building and offset				
		46	CH-05	CH-05	0.0	No combined segments for this stage, specific building and offset				
		47	CH-06	CH-06	0.0	No combined segments for this stage, specific building and offset				
		48	CH-07	CH-07	0.0	No combined segments for this stage, specific building and offset				
		49	CH-08	CH-08	0.0	No combined segments for this stage, specific building and offset				
		50	CH-09	CH-09	0.0	No combined segments for this stage, specific building and offset				
		51	CH-10	CH-10	0.0	No combined segments for this stage, specific building and offset				
		52	CH-11	CH-11	0.0	No combined segments for this stage, specific building and offset				
		53	10S-01	10S-01	0.0	No combined segments for this stage, specific building and offset				
		54	10S-02	10S-02	0.0	No combined segments for this stage, specific building and offset				
		55	10S-03	10S-03	0.0	No combined segments for this stage, specific building and offset				
		56	10S-04	10S-04	0.0	No combined segments for this stage, specific building and offset				
		57	10S-05	10S-05	0.0	No combined segments for this stage, specific building and offset				
		58	10S-06	10S-06	0.0	No combined segments for this stage, specific building and offset				
		59	10S-07	10S-07	0.0	No combined segments for this stage, specific building and offset				
		60	10S-08	10S-08	0.0	No combined segments for this stage, specific building and offset				
		61	10S-09	10S-09	0.0	No combined segments for this stage, specific building and offset				
		62	10S-10	10S-10	0.0	No combined segments for this stage, specific building and offset				
		63	10S-11	10S-11	0.0	No combined segments for this stage, specific building and offset				
		64	12S-01	12S-01	0.0	No combined segments for this stage, specific building and offset				
		65	12S-02	12S-02	0.0	No combined segments for this stage, specific building and offset				
		66	12S-03	12S-03	0.0	No combined segments for this stage, specific building and offset				
		67	12S-04	12S-04	0.0	No combined segments for this stage, specific building and offset				
		68	12S-05	12S-05	0.0	No combined segments for this stage, specific building and offset				
		69	12S-06	12S-06	0.0	No combined segments for this stage, specific building and offset				
		70	14S-01	14S-01	0.0	No combined segments for this stage, specific building and offset				
		71	14S-02	14S-02	0.0	No combined segments for this stage, specific building and offset				
		72	14S-03	14S-03	0.0	No combined segments for this stage, specific building and offset				
		73	14S-04	14S-04	0.0	No combined segments for this stage, specific building and offset				
		74	14S-05	14S-05	0.0	No combined segments for this stage, specific building and offset				
		75	14S-06	14S-06	0.0	No combined segments for this stage, specific building and offset				

Stage: Ref.	Stage: Name	Building: Ref.	Building: Name	Sub-Building Name	Vertical Offset from Line for Vertical	Segment Start Length Curvature	Combined Segment
		76	14S-07	14S-07	0.0	No combined segments for this stage, specific building and offset	
		77	14S-08	14S-08	0.0	No combined segments for this stage, specific building and offset	
		78	14S-09	14S-09	0.0	No combined segments for this stage, specific building and offset	
		79	14S-10	14S-10	0.0	No combined segments for this stage, specific building and offset	
		80	14S-11	14S-11	0.0	No combined segments for this stage, specific building and offset	
		81	14S-12	14S-12	0.0	No combined segments for this stage, specific building and offset	
		82	18S-01	18S-01	0.0	No combined segments for this stage, specific building and offset	
		83	18S-02	18S-02	0.0	No combined segments for this stage, specific building and offset	
		84	18S-03	18S-03	0.0	No combined segments for this stage, specific building and offset	
		85	18S-04	18S-04	0.0	No combined segments for this stage, specific building and offset	
		86	18S-05	18S-05	0.0	No combined segments for this stage, specific building and offset	
		87	20S-01	20S-01	0.0	No combined segments for this stage, specific building and offset	
		88	20S-02	20S-02	0.0	No combined segments for this stage, specific building and offset	
		89	20S-03	20S-03	0.0	No combined segments for this stage, specific building and offset	
		90	20S-04	20S-04	0.0	No combined segments for this stage, specific building and offset	
		91	20S-05	20S-05	0.0	No combined segments for this stage, specific building and offset	
		92	20S-06	20S-06	0.0	No combined segments for this stage, specific building and offset	
		93	20S-07	20S-07	0.0	No combined segments for this stage, specific building and offset	
		94	HT-01	HT-01	0.0	No combined segments for this stage, specific building and offset	
		95	HT-02	HT-02	0.0	No combined segments for this stage, specific building and offset	
		96	HT-03	HT-03	0.0	No combined segments for this stage, specific building and offset	
		97	HT-04	HT-04	0.0	No combined segments for this stage, specific building and offset	
		98	22S-01	22S-01	0.0	No combined segments for this stage, specific building and offset	
		99	22S-02	22S-02	0.0	No combined segments for this stage, specific building and offset	
		100	22S-03	22S-03	0.0	No combined segments for this stage, specific building and offset	
		101	22S-04	22S-04	0.0	No combined segments for this stage, specific building and offset	
		102	23K-01	23K-01	0.0	No combined segments for this stage, specific building and offset	
		103	23K-02	23K-02	0.0	No combined segments for this stage, specific building and offset	
		104	23K-03	23K-03	0.0	No combined segments for this stage, specific building and offset	
		105	23K-04	23K-04	0.0	No combined segments for this stage, specific building and offset	
		106	23K-05	23K-05	0.0	No combined segments for this stage, specific building and offset	
		107	23K-06	23K-06	0.0	No combined segments for this stage, specific building and offset	
		108	23K-07	23K-07	0.0	No combined segments for this stage, specific building and offset	
		109	23K-08	23K-08	0.0	No combined segments for this stage, specific building and offset	
		110	23K-09	23K-09	0.0	No combined segments for this stage, specific building and offset	
		111	23K-10	23K-10	0.0	No combined segments for this stage, specific building and offset	
		112	23K-11	23K-11	0.0	No combined segments for this stage, specific building and offset	
		113	23K-12	23K-12	0.0	No combined segments for this stage, specific building and offset	
		114	23K-13	23K-13	0.0	No combined segments for this stage, specific building and offset	
		115	23K-14	23K-14	0.0	No combined segments for this stage, specific building and offset	
		116	23K-15	23K-15	0.0	No combined segments for this stage, specific building and offset	
		117	23K-16	23K-16	0.0	No combined segments for this stage, specific building and offset	
		118	23K-17	23K-17	0.0	No combined segments for this stage, specific building and offset	
		119	23K-18	23K-18	0.0	No combined segments for this stage, specific building and offset	
		120	23K-19	23K-19	0.0	No combined segments for this stage, specific building and offset	
		121	23AB-01	23AB-01	0.0	No combined segments for this stage, specific building and offset	
		122	23AB-02	23AB-02	0.0	No combined segments for this stage, specific building and offset	
		123	23AB-03	23AB-03	0.0	No combined segments for this stage, specific building and offset	
		124	23AB-04	23AB-04	0.0	No combined segments for this stage, specific building and offset	
		125	23AB-05	23AB-05	0.0	No combined segments for this stage, specific building and offset	
		126	23AB-06	23AB-06	0.0	No combined segments for this stage, specific building and offset	
		127	23AB-07	23AB-07	0.0	No combined segments for this stage, specific building and offset	
		128	23AB-08	23AB-08	0.0	No combined segments for this stage, specific building and offset	
		129	23AB-09	23AB-09	0.0	No combined segments for this stage, specific building and offset	
		130	23AB-10	23AB-10	0.0	No combined segments for this stage, specific building and offset	
		131	23AB-11	23AB-11	0.0	No combined segments for this stage, specific building and offset	
		132	23AB-12	23AB-12	0.0	No combined segments for this stage, specific building and offset	
		133	23AB-13	23AB-13	0.0	No combined segments for this stage, specific building and offset	
		134	23AB-14	23AB-14	0.0	No combined segments for this stage, specific building and offset	
		135	23AB-15	23AB-15	0.0	No combined segments for this stage, specific building and offset	
		136	28K-01	28K-01	0.0	No combined segments for this stage, specific building and offset	
		137	28K-02	28K-02	0.0	No combined segments for this stage, specific building and offset	
		138	28K-03	28K-03	0.0	No combined segments for this stage, specific building and offset	
		139	28K-04	28K-04	0.0	No combined segments for this stage, specific building and offset	
		140	28K-05	28K-05	0.0	No combined segments for this stage, specific building and offset	
		141	28K-06	28K-06	0.0	No combined segments for this stage, specific building and offset	
		142	28K-07	28K-07	0.0	No combined segments for this stage, specific building and offset	

Warnings

1 Multiple excavations have been specified. Displacements resulting from each excavation are summed with no account taken of the interactions between excavations (e.g. overlapping zones of influence or 'shielding' of one excavation by another).

2 The following polygonal excavations have one or more re-entrant corners: 1, 4. The use of re-entrant corners is permitted but not recommended. CIRIA C580/C760, on which XDisp's method for modelling ground movements behind walls of excavations is based, considers only movements for points lying at right angles behind single walls. It does not consider how movements should be calculated within the zone of influence of re-entrant corners, i.e. where movements would be influenced by two walls adjacent to the re-entrant corner. By default, XDisp will merely sum the effects from both walls, making no allowance for interaction or stiffening of the corner. Please refer to help manual for artificial smoothing options. Re-entrant corners should be used with caution. Results in their vicinity should be validated independently.

Errors

None

Displacement Results - Displacement Lines

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
0	Base Model	1	16S-01	0.0	86.49970	85.17730	0.00000	9.9712	-3.5853	8.3602	-2.4585	10.307	236.81
				0.42983	86.26439	84.81760	0.00000	9.8569	-3.6111	8.4655	-2.3743	10.226	236.81
				0.85967	86.02907	84.45790	0.00000	9.7316	-3.6335	8.5751	-2.2870	10.133	236.81
				1.2895	85.79376	84.09820	0.00000	9.5947	-3.6520	8.6891	-2.1965	10.029	236.81
				1.7193	85.55844	83.73850	0.00000	9.4453	-3.6664	8.8075	-2.1028	9.9114	236.81
				2.1492	85.32313	83.37880	0.00000	9.2827	-3.6761	8.9302	-2.0056	9.7806	236.81
				2.5790	85.08781	83.01910	0.00000	9.1061	-3.6807	9.0573	-1.9050	9.6353	236.81
				3.0088	84.85250	82.65940	0.00000	8.9145	-3.6797	9.1884	-1.8010	9.4744	236.81
				3.4387	84.61719	82.29970	0.00000	8.7072	-3.6725	9.3236	-1.6935	9.2970	236.81
				3.8685	84.38187	81.94000	0.00000	8.4833	-3.6587	9.4625	-1.5825	9.1021	236.81
				4.2983	84.14656	81.58030	0.00000	8.2423	-3.6375	9.6048	-1.4683	8.8888	236.81
				4.7282	83.91124	81.22060	0.00000	7.9834	-3.6084	9.7502	-1.3509	8.6563	236.81
				5.1580	83.67593	80.86090	0.00000	7.7065	-3.5709	9.8980	-1.2307	8.4040	236.81
				5.5878	83.44061	80.50120	0.00000	7.4115	-3.5245	10.048	-1.1080	8.1317	236.81
				6.0177	83.20530	80.14150	0.00000	7.1945	-3.5033	10.159	-1.0070	7.9385	236.81
		2	16S-02	0.0	83.20530	80.14150	0.00000	7.1945	-3.5033	10.159	-7.4025	3.0392	176.36
				0.47059	82.73566	80.17139	0.00000	6.5359	-3.3872	10.067	-6.7379	2.9652	176.36
				0.94119	82.26601	80.20129	0.00000	5.9422	-3.2908	9.9733	-6.1392	2.9067	176.36
				1.4118	81.79637	80.23118	0.00000	5.3478	-3.1956	9.8758	-5.5400	2.8494	176.36
				1.8824	81.32673	80.26107	0.00000	4.7462	-3.0998	9.7715	-4.9336	2.7920	176.36
				2.3530	80.85709	80.29096	0.00000	4.1372	-3.0034	9.6571	-4.3196	2.7346	176.36
				2.8236	80.38744	80.32086	0.00000	3.5203	-2.9065	9.5294	-3.6978	2.6770	176.36
				3.2942	79.91780	80.35075	0.00000	2.9145	-2.8162	9.3772	-3.0875	2.6254	176.36
				3.7647	79.44816	80.38064	0.00000	2.3297	-2.7461	9.2040	-2.4994	2.5926	176.36
				4.2353	78.97851	80.41054	0.00000	1.7576	-2.6910	9.0073	-1.9250	2.5739	176.36
				4.7059	78.50887	80.44043	0.00000	1.2231	-2.6528	8.7694	-1.3891	2.5698	176.36
				5.1765	78.03923	80.47032	0.00000	0.76556	-2.6476	8.4794	-0.93219	2.5936	176.36
				5.6471	77.56959	80.50021	0.00000	0.48814	-2.7169	8.1159	-0.65974	2.6804	176.36
				6.1177	77.09994	80.53011	0.00000	0.75975	-3.0099	7.6143	-0.94941	2.9556	176.36

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				6.5883	76.63030	80.56000	0.00000	3.7678	-4.4978	6.6423	-4.0459	4.2494	176.36
		3	16S-03	0.0	76.63030	80.56000	0.00000	3.7678	-4.4978	6.6423	-5.3176	2.4799	154.96
				0.46710	76.20712	80.75773	0.00000	6.3028	-5.9097	5.9702	-8.2120	2.6860	154.96
				0.93420	75.78393	80.95547	0.00000	5.9071	-5.7549	5.7967	-7.7879	2.7133	154.96
				1.4013	75.36075	81.15320	0.00000	5.5132	-5.6007	5.6301	-7.3657	2.7403	154.96
				1.8684	74.93757	81.35093	0.00000	5.1213	-5.4470	5.4699	-6.9456	2.7670	154.96
				2.3355	74.51438	81.54867	0.00000	4.7297	-5.2952	5.3152	-6.5266	2.7952	154.96
				2.8026	74.09120	81.74640	0.00000	4.3316	-5.1514	5.1652	-6.1050	2.8334	154.96
		4	16S-04	0.0	74.09120	81.74640	0.00000	4.3316	-5.1514	5.1652	-1.8284	-6.4774	55.822
				0.47964	74.36064	82.14321	0.00000	4.4045	-5.0024	5.1421	-1.6642	-6.4540	55.822
				0.95928	74.63009	82.54001	0.00000	4.4741	-4.8583	5.1179	-1.5058	-6.4306	55.822
				1.4389	74.89953	82.93682	0.00000	4.5408	-4.7184	5.0923	-1.3526	-6.4072	55.822
				1.9186	75.16898	83.33362	0.00000	4.6050	-4.5824	5.0652	-1.2041	-6.3839	55.822
				2.3982	75.43842	83.73043	0.00000	4.6669	-4.4497	5.0360	-1.0596	-6.3606	55.822
				2.8778	75.70786	84.12724	0.00000	4.7268	-4.3200	5.0047	-0.91859	-6.3373	55.822
				3.3575	75.97731	84.52404	0.00000	4.4392	-4.0055	5.2459	-0.81999	-5.9227	55.822
				3.8371	76.24675	84.92085	0.00000	4.5119	-3.8890	5.1978	-0.68275	-5.9174	55.822
				4.3168	76.51619	85.31766	0.00000	4.5793	-3.7778	5.1470	-0.55286	-5.9107	55.822
				4.7964	76.78564	85.71446	0.00000	4.6427	-3.6706	5.0932	-0.42863	-5.9029	55.822
				5.2760	77.05508	86.11127	0.00000	4.7114	-3.5698	5.0349	-0.30658	-5.9031	55.822
				5.7557	77.32452	86.50807	0.00000	4.7808	-3.4724	4.9730	-0.18702	-5.9058	55.822
				6.2353	77.59397	86.90488	0.00000	4.8469	-3.3759	4.9081	-0.070094	-5.9063	55.822
				6.7150	77.86341	87.30169	0.00000	4.8385	-3.2516	4.8683	0.028010	-5.8295	55.822
				7.1946	78.13286	87.69849	0.00000	4.8295	-3.1321	4.8211	0.12183	-5.7550	55.822
				7.6743	78.40230	88.09530	0.00000	4.8426	-3.0252	4.7602	0.21765	-5.7058	55.822
		5	16S-05	0.0	78.40230	88.09530	0.00000	4.8426	-3.0252	4.7602	4.2132	-3.8538	10.455
				0.49531	78.88938	88.18518	0.00000	5.1166	-3.0339	4.7592	4.4811	-3.9121	10.455
				0.99061	79.37647	88.27507	0.00000	5.3460	-3.0144	4.7962	4.7103	-3.9345	10.455
				1.4859	79.86355	88.36495	0.00000	5.5337	-2.9714	4.8798	4.9026	-3.9263	10.455
				1.9812	80.35063	88.45483	0.00000	5.7333	-2.9314	4.9553	5.1061	-3.9231	10.455
				2.4765	80.83772	88.54472	0.00000	5.9439	-2.8949	5.0230	5.3199	-3.9255	10.455
				2.9718	81.32480	88.63460	0.00000	6.1648	-2.8619	5.0829	5.5431	-3.9331	10.455
		6	16S-06	0.0	81.32480	88.63460	0.00000	6.1648	-2.8619	5.0829	6.7159	1.0450	326.25
				0.44454	81.69444	88.38765	0.00000	6.3861	-2.8880	5.2618	6.9144	1.1462	326.25
				0.88908	82.06407	88.14070	0.00000	6.6104	-2.9126	5.4434	7.1146	1.2504	326.25
				1.3336	82.43371	87.89375	0.00000	6.8142	-2.9576	5.6724	7.3090	1.3261	326.25
				1.7782	82.80334	87.64680	0.00000	7.0253	-3.0006	5.9035	7.5084	1.4077	326.25
				2.2227	83.17298	87.39985	0.00000	7.2449	-3.0421	6.1363	7.7141	1.4952	326.25
				2.6672	83.54261	87.15290	0.00000	7.4741	-3.0828	6.3706	7.9273	1.5886	326.25
				3.1118	83.91225	86.90595	0.00000	7.7137	-3.1233	6.6064	8.1490	1.6881	326.25
				3.5563	84.28189	86.65900	0.00000	7.9497	-3.1639	6.8503	8.3678	1.7854	326.25
				4.0009	84.65152	86.41205	0.00000	8.2109	-3.2140	7.1033	8.6129	1.8889	326.25
				4.4454	85.02116	86.16510	0.00000	8.5272	-3.2767	7.3564	8.9106	2.0124	326.25
				4.8899	85.39079	85.91815	0.00000	8.8619	-3.3453	7.6081	9.2270	2.1413	326.25
				5.3345	85.76043	85.67120	0.00000	9.2164	-3.4225	7.8579	9.5647	2.2740	326.25
				5.7790	86.13006	85.42425	0.00000	9.5861	-3.5025	8.1084	9.9166	2.4130	326.25
				6.2235	86.49970	85.17730	0.00000	9.9712	-3.5853	8.3602	10.283	2.5580	326.25
		7	BS-01	0.0	41.07740	85.19800	0.00000	3.3366	1.1724	4.7496	2.7140	2.2675	339.48
				0.49919	41.54492	85.02303	0.00000	3.4132	1.5851	4.9130	2.6411	2.6809	339.48
				0.99838	42.01244	84.84806	0.00000	3.4711	2.0837	5.0703	2.5206	3.1682	339.48
				1.4976	42.47996	84.67309	0.00000	3.5057	2.6813	5.2219	2.3435	3.7399	339.48
				1.9968	42.94748	84.49812	0.00000	3.5119	3.3879	5.3681	2.1016	4.4040	339.48
				2.4959	43.41500	84.32315	0.00000	3.4854	4.2062	5.5098	1.7900	5.1610	339.48
				2.9951	43.88252	84.14818	0.00000	3.4234	5.1239	5.6473	1.4103	5.9988	339.48
				3.4943	44.35003	83.97322	0.00000	3.3269	6.1086	5.7803	0.97471	6.8872	339.48
				3.9935	44.81755	83.79825	0.00000	3.4539	6.3786	5.9270	0.99901	7.1846	339.48
				4.4927	45.28507	83.62328	0.00000	3.5891	6.6283	6.0729	1.0381	7.4658	339.48
				4.9919	45.75259	83.44831	0.00000	3.7253	6.8798	6.2175	1.0775	7.7491	339.48
				5.4911	46.22011	83.27334	0.00000	3.8625	7.1332	6.3605	1.1172	8.0345	339.48
				5.9903	46.68763	83.09837	0.00000	4.0007	7.3885	6.5020	1.1572	8.3220	339.48
				6.4894	47.15515	82.92340	0.00000	4.1399	7.6456	6.6416	1.1974	8.6116	339.48
				6.9886	47.62267	82.74843	0.00000	4.2801	7.9045	6.7794	1.2380	8.9033	339.48
				7.4878	48.09019	82.57346	0.00000	4.4445	8.1566	6.9382	1.3036	9.1969	339.48
				7.9870	48.55771	82.39849	0.00000	4.6824	8.2295	7.1236	1.5008	9.3486	339.48
				8.4862	49.02523	82.22352	0.00000	4.7527	7.9928	7.1103	1.6496	9.1516	339.48
				8.9854	49.49275	82.04855	0.00000	4.8221	7.7546	7.0931	1.7981	8.9528	339.48
				9.4846	49.96027	81.87358	0.00000	4.8906	7.5148	7.0751	1.9464	8.7522	339.48
				9.9838	50.42778	81.69862	0.00000	4.9583	7.2734	7.0593	2.0943	8.5499	339.48
				10.483	50.89530	81.52365	0.00000	5.0251	7.0304	7.0482	2.2421	8.3457	339.48
				10.982	51.36282	81.34868	0.00000	5.0910	6.7858	7.0443	2.3895	8.1398	339.48
				11.481	51.83034	81.17371	0.00000	5.1560	6.5397	7.0495	2.5367	7.9320	339.48
				11.981	52.29786	80.99874	0.00000	5.2202	6.2920	7.0657	2.6836	7.7225	339.48
				12.480	52.76538	80.82377	0.00000	6.4322	9.4611	10.340	2.7079	11.115	339.48
				12.979	53.23290	80.64880	0.00000	5.1442	8.6486	10.376	1.7864	9.9030	339.48
		8	BS-02	0.0	53.23290	80.64880	0.00000	5.1442	8.6486	10.376	-9.9054	1.7732	249.41
				0.49133	53.06007	80.18887	0.00000	5.2777	8.3131	10.132	-9.6383	2.0162	249.41
				0.98267	52.88724	79.72893	0.00000	5.2985	7.9309	9.8563	-9.2878	2.1701	249.41
				1.4740	52.71441	79.26900	0.00000	5.2537	7.5239	9.5547	-8.8910	2.2714	249.41
				1.9653	52.54158	78.80906	0.00000	5.1680	7.1033	9.2334	-8.4673	2.3391	249.41
				2.4567	52.36875	78.34913	0.00000	5.0555	6.6756	8.8975	-8.0272	2.3842	249.41
				2.9480	52.19592	77.88920	0.00000	4.9246	6.2442	8.5511	-7.5774	2.4134	249.41
				3.4393	52.02309	77.42926	0.00000	4.7808	5.8114	8.1981	-7.1217	2.4311	249.41
				3.9307	51.85025	76.96933	0.00000	4.6277	5.3785	7.8415	-6.6626	2.4400	249.41
				4.4220	51.67742	76.50940	0.00000	4.4701	4.9507	7.4840	-6.2067	2.4430	249.41
				4.9133	51.50459	76.04946	0.00000	4.3336	4.5995	7.1251	-5.8299	2.4387	249.41
				5.4047	51.33176	75.58953	0.00000	4.1838	4.2534	6.7670	-5.4532	2.4203	249.41
				5.8960	51.15893	75.12959	0.00000	4.0310	3.9089	6.4128	-5.0771	2.3984	249.41
				6.3873	50.98610	74.66966	0.00000	3.8760	3.5664	6.0632	-4.7019	2.3738	249.41
				6.8787	50.81327	74.20973	0.00000	3.7192	3.2257	5.7183	-4.3279	2.3469	249.41
				7.3700	50.64044	73.74979	0.00000	3.5593	2.8834	5.3774	-3.9511	2.3175	249.41
				7.8614	50.46761	73.28986	0.00000	3.3980	2.5425	5.0399	-3.5752	2.2865	249.41
				8.3527	50.29478	72.82992	0.00000	3.2376	2.2063	4.7052	-3.2042	2.2546	249.41
				8.8440	50.12195	72.36999	0.00000	3.0783	1.8749	4.3716	-2.8378	2.2220	249.41
				9.3354	49.94912	71.91006	0.00000	2.9201	1.5480	4.0373	-2.4762	2.1890	249.41
				9.8267	49.77629	71.45012	0.00000	2.8302	1.3491	3.8086	-2.2584	2.1748	249.41
				10.318	49.60346	70.99019	0.00000	2.7554	1.1799	3.6163	-2.0737	2.1643	249.41
				10.809	49.43063	70.53025	0.00000	2.6803	1.0115	3.4323	-1.8897	2.1531	249.41
				11.301	49.25780	70.07032	0.00000	2.6047	0.84394	3.2569	-1.7062	2.1414	249.41
				11.792	49.08496	69.61039	0.00000	2.5289	0.67684	3.0902	-1.5231	2.1292	249.41
				12.283	48.91213	69.15045	0.00000	2.4526	0.51005	2.9322	-1.3402	2.1164	249.41
				12.775	48.73930	68.69052	0.00000	2.3769	0.35511	2.7825	-1.1685	2.1001	249.41
				13.266	48.56647	68.23059	0.00000	2.3168	0.29824	2.6361	-1.0941	2.0638	249.41
				13.757	48.39364	67.77065	0.00000	2.2607	0.27527	2.4914	-1.0529	2.0194	249.41
				14.249	48.22081	67.31072	0.00000	2.1962	0.25304	2.3477	-1.0094	1.9669	249.41
				14.740	48.04798	66.85078	0.00000	2.1234	0.23052	2.2044	-0.96270	1.9066	249.41
				15.231	47.87515	66.39085	0.00000	2.0423	0.20668	2.0605	-0.91185	1.8390	249.41
				15.723	47.70232	65.93092	0.00000	1.9747	0.17658	1.9192	-0.85992	1.7864	249.41
				16.214	47.52949	65.47098	0.00000	1.9036	0.14248	1.7758	-0.80300	1.7319	249.41
				16.705	47.35666	65.01105	0.00000	1.8230	0.10469	1.6277	-0.73925	1.6697	249.41
				17.197	47.18383	64.55111	0.00000	1.7396	0.062043	1.4734	-0.67001	1.6066	249.41
				17.688	47.01100	64.09118	0.00000	1.6665	0.014162	1.3111	-0.59946	1.5550	249.41
				18.179	46.83817	63.63125	0.00000	1.6035	0.0	1.1862	-0.56406	1.5011	249.41
				18.671	46.66534	63.17131	0.00000	1.5584	0.0	1.1357	-0.54818	1.4588	249.41
				19.162	46.49250	62.71138	0.00000	1.5121	0.0	1.0863	-0.53191	1.4155	249.41
				19.653	46.31967	62.25145	0.00000	1.4647	0.0	1.0378	-0.51523	1.3711	249.41
				20.145	46.14684	61.79151	0.00000	1.4162	0.0	0.99027	-0.49814	1.3257	249.41
				20.636	45.97401	61.33158	0.00000	1.3664	0.0	0.94364	-0.48066	1.2791	249.41
				21.127	45.80118	60.87164	0.00000	1.3156	0.0	0.89790	-0.46277	1.2315	249.41
				21.619	45.62835	60.41171	0.00000	1.2636	0.0	0.85299	-0.44448	1.1828	249.41
				22.110	45.45552	59.95178	0.00000	1.2105	0.0	0.80887	-0.42579	1.1331	249.41
				22.601	45.28269	59.49184	0.00000	1.1384	0.0	0.76315	-0.40043	1.0656	249.41
				23.093	45.10986	59.03191	0.00000	1.0403	0.0	0.71490	-0.36592	0.97378	249.41
				23.584	44.93703	58.57197	0.00000	0.94621	0.0	0.66792	-0.33284	0.88574	249.41
				24.075	44.76420	58.11204	0.00000	0.85623	0.0	0.62205	-0.30119	0.80151	249.41
				24.567	44.59137	57.65211	0.00000	0.77031	0.0	0.57715	-0.27096	0.72108	249.41
				25.058	44.41854	57.19217	0.00000	0.68845	0.0	0.53308	-0.24217	0.64445	249.41
				25.549	44.24571	56.73224	0.00000	0.61065	0.0	0.48971	-0.21480	0.57163	249.41
				26.041	44.07288	56.27230	0.00000	0.53692	0.0	0.44692	-0.18887	0.50260	249.41
				26.532	43.90005	55.81237	0.00000	0.46725	0.0	0.40460	-0.16436	0.43738	249.41
				27.023	43.72721	55.35244	0.00000	0.40815	0.0044994	0.36354	-0.14778	0.38048	249.41

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				27.515	43.55438	54.89250	0.00000	0.35117	0.0092825	0.32060	-0.13221	0.32546	249.41
				28.006	43.38155	54.43257	0.00000	0.29333	0.012351	0.27497	-0.11474	0.27024	249.41
				28.497	43.20872	53.97264	0.00000	0.23483	0.013627	0.22652	-0.095359	0.21503	249.41
				28.989	43.03589	53.51270	0.00000	0.17584	0.013046	0.17508	-0.074066	0.16001	249.41
				29.480	42.86306	53.05277	0.00000	0.11652	0.010555	0.12043	-0.050868	0.10536	249.41
				29.971	42.69023	52.59283	0.00000	0.057023	0.0061125	0.062272	-0.025780	0.051228	249.41
				30.463	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0	0.0	249.41
		9	BS-03	0.0	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0	0.0	182.90
				0.17272	42.34490	52.12415	0.00000	0.0	0.0	0.0	0.0	0.0	182.90
				0.34544	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0	0.0	182.90
		10	BS-04	0.0	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				0.48678	41.96133	51.67676	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				0.97357	41.75025	51.23812	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				1.4604	41.53918	50.79948	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				1.9471	41.32810	50.36083	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				2.4339	41.11702	49.92219	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				2.9207	40.90595	49.48355	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				3.4075	40.69488	49.04491	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				3.8943	40.48380	48.60627	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				4.3811	40.27273	48.16763	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				4.8678	40.06165	47.72898	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				5.3546	39.85057	47.29034	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
				5.8414	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0	0.0	244.30
		11	BS-05	0.0	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0	0.0	169.41
				0.41953	39.22713	46.92883	0.00000	0.0	0.0	0.0	0.0	0.0	169.41
				0.83905	38.81475	47.00595	0.00000	0.0	0.0	0.0	0.0	0.0	169.41
				1.2586	38.40237	47.08308	0.00000	0.0	0.0	0.0	0.0	0.0	169.41
				1.6781	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0	0.0	169.41
		12	BS-06	0.0	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0	0.0	155.57
				0.40368	37.62248	47.32718	0.00000	0.0	0.0	0.0	0.0	0.0	155.57
				0.80735	37.25495	47.49415	0.00000	0.0	0.0	0.0	0.0	0.0	155.57
				1.2110	36.88743	47.66112	0.00000	0.0	0.0	0.0	0.0	0.0	155.57
				1.6147	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0	0.0	155.57
		13	BS-07	0.0	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				0.38860	36.26713	48.12325	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				0.77720	36.01435	48.41840	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				1.1658	35.76158	48.71355	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				1.5544	35.50880	49.00870	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				1.9430	35.25603	49.30385	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				2.3316	35.00325	49.59900	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				2.7202	34.75048	49.89415	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
				3.1088	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0	0.0	130.58
		14	BS-08	0.0	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				0.43736	34.10253	50.37673	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				0.87473	33.70737	50.56417	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				1.3121	33.31220	50.75160	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				1.7495	32.91703	50.93903	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				2.1868	32.52187	51.12647	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
				2.6242	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0	0.0	154.62
		15	BS-09	0.0	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0	0.0	67.402
				0.48956	32.31482	51.76587	0.00000	0.0	0.0	0.0	0.0	0.0	67.402
				0.97913	32.50295	52.21785	0.00000	0.0	0.0	0.0	0.0	0.0	67.402
				1.4687	32.69107	52.66983	0.00000	0.0	0.0	0.0	0.0	0.0	67.402
				1.9583	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0	0.0	67.402
		16	BS-10	0.0	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0	0.0	161.15
				0.40664	32.49437	53.25320	0.00000	0.0	0.0	0.0	0.0	0.0	161.15
				0.81328	32.10955	53.38460	0.00000	0.0	0.0	0.0	0.0	0.0	161.15
				1.2199	31.72472	53.51600	0.00000	0.0	0.0	0.0	0.0	0.0	161.15
				1.6266	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0	0.0	161.15
		17	BS-11	0.0	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0	0.0	252.83
				0.25067	31.26590	53.40790	0.00000	0.0	0.0	0.0	0.0	0.0	252.83
				0.50134	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0	0.0	252.83
		18	BS-12	0.0	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				0.39957	30.82340	53.32289	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				0.79915	30.45490	53.47737	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				1.1987	30.08640	53.63186	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				1.5983	29.71790	53.78635	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				1.9979	29.34940	53.94084	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				2.3974	28.98090	54.09533	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				2.7970	28.61240	54.24981	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
				3.1966	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0	0.0	157.25
		19	BS-13	0.0	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				0.44360	28.40681	54.81690	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				0.88720	28.56972	55.22950	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				1.3308	28.73264	55.64210	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				1.7744	28.89555	56.05470	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				2.2180	29.05846	56.46730	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				2.6616	29.22138	56.87990	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				3.1052	29.38429	57.29250	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
				3.5488	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0	0.0	68.454
		20	BS-14	0.0	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				0.41644	29.93258	57.54730	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				0.83288	30.31797	57.38950	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				1.2493	30.70335	57.23170	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				1.6658	31.08873	57.07390	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				2.0822	31.47412	56.91610	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
				2.4986	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0	0.0	337.73
		21	BS-15	0.0	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				0.49971	32.03411	57.22651	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				0.99942	32.20873	57.69472	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				1.4991	32.38334	58.16294	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				1.9988	32.55796	58.63115	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				2.4986	32.73257	59.09936	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				2.9983	32.90719	59.56757	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				3.4980	33.08180	60.03578	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				3.9977	33.25642	60.50399	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				4.4974	33.43103	60.97221	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				4.9971	33.60565	61.44042	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				5.4968	33.78026	61.90863	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				5.9965	33.95488	62.37684	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				6.4963	34.12949	62.84505	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				6.9960	34.30411	63.31326	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				7.4957	34.47872	63.78148	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				7.9954	34.65334	64.24969	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				8.4951	34.82795	64.71790	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				8.9948	35.00256	65.18611	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				9.4945	35.17718	65.65432	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				9.9942	35.35179	66.12254	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				10.494	35.52641	66.59075	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				10.994	35.70102	67.05896	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				11.493	35.87564	67.52717	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				11.993	36.05025	67.99538	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				12.493	36.22487	68.46359	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				12.993	36.39948	68.93181	0.00000	0.0	0.0	0.0	0.0	0.0	69.548
				13.492	36.57410	69.40002	0.00000	0.030898	0.057062	0.066601	0.064262	-0.0090109	69.548
				13.992	36.74871	69.86823	0.00000	0.089954	0.16613	0.18460	0.18709	-0.026234	69.548
				14.492	36.92333	70.33644	0.00000	0.14898	0.27427	0.29817	0.30904	-0.043750	69.548
				14.991	37.09794	70.80465	0.00000	0.20820	0.38160	0.40960	0.43030	-0.061731	69.548
				15.491	37.27256	71.27286	0.00000	0.26742	0.48786	0.52090	0.55056	-0.080091	69.548
				15.991	37.44717	71.74108	0.00000	0.32665	0.59297	0.63393	0.66973	-0.098862	69.548
				16.491	37.62179	72.20929	0.00000	0.38589	0.69681	0.75030	0.78773	-0.11808	69.548
				16.990	37.79640	72.67750	0.00000	0.44514	0.79928	0.87142	0.90444	-0.13779	69.548
		22	BS-16	0.0	37.79640	72.67750	0.00000	0.44514	0.79928	0.87142	0.89271	-0.20017	73.524
				0.49570	37.93699	73.15284	0.00000	0.50316	0.89586	0.99549	1.0018	-0.22842	73.524
				0.99139	38.07758	73.62818	0.00000	0.56117	0.99013	1.1260	1.1086	-0.25730	73.524
				1.4871	38.21817	74.10352	0.00000	0.63389	1.1072	1.2635	1.2415	-0.29384	73.524
				1.9828	38.35876	74.57886	0.00000	0.73335	1.2660	1.4085	1.4221	-0.34416	73.524
				2.4785	38.49935	75.05420	0.00000	0.83327	1.4206	1.5612	1.5986	-0.39613	73.524
				2.9742	38.63994	75.52954	0.00000	0.93381	1.5706	1.7216	1.7710	-0.44999	73.524
				3.4699	38.78053	76.00488	0.00000	1.0351	1.7157	1.8896	1.9389	-0.50602	73.524

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				3.9656	38.92112	76.48022	0.00000	1.1374	1.8555	2.0647	2.1019	-0.56449	73.524
				4.4613	39.06171	76.95556	0.00000	1.2409	1.9893	2.2463	2.2596	-0.62574	73.524
				4.9570	39.20230	77.43090	0.00000	1.3457	2.1166	2.4336	2.4113	-0.69014	73.524
		23	BS-17	0.0	39.20230	77.43090	0.00000	1.3457	2.1166	2.4336	-0.54090	-2.4491	160.01
				0.40858	38.81835	77.57060	0.00000	1.3284	1.9933	2.3778	-0.56675	-2.3274	160.01
				0.81715	38.43440	77.71030	0.00000	1.3076	1.8710	2.3178	-0.58907	-2.2053	160.01
		24	BS-18	0.0	38.43440	77.71030	0.00000	1.3076	1.8710	2.3178	2.1995	-0.61029	70.558
				0.49628	38.59959	78.17828	0.00000	1.4146	1.9775	2.5034	2.3356	-0.67578	70.558
				0.99256	38.76478	78.64626	0.00000	1.5233	2.0754	2.6927	2.4641	-0.74566	70.558
				1.4888	38.92996	79.11424	0.00000	1.6339	2.1636	2.8844	2.5841	-0.82053	70.558
				1.9851	39.09515	79.58222	0.00000	1.7464	2.2406	3.0771	2.6941	-0.90107	70.558
				2.4814	39.26034	80.05021	0.00000	1.8613	2.3046	3.2690	2.7927	-0.98806	70.558
				2.9777	39.42552	80.51819	0.00000	1.9786	2.3535	3.4584	2.8779	-1.0824	70.558
				3.4740	39.59071	80.98617	0.00000	2.0987	2.3850	3.6434	2.9476	-1.1852	70.558
				3.9702	39.75590	81.45415	0.00000	2.2218	2.3960	3.8219	2.9989	-1.2975	70.558
				4.4665	39.92109	81.92213	0.00000	2.3480	2.3831	3.9916	3.0287	-1.4210	70.558
				4.9628	40.08628	82.39011	0.00000	2.4778	2.3419	4.1504	3.0331	-1.5570	70.558
				5.4591	40.25146	82.85809	0.00000	2.6113	2.2676	4.2960	3.0075	-1.7076	70.558
				5.9554	40.41665	83.32608	0.00000	2.7486	2.1545	4.4261	2.9466	-1.8747	70.558
				6.4516	40.58184	83.79406	0.00000	2.8899	1.9960	4.5384	2.8441	-2.0608	70.558
				6.9479	40.74702	84.26204	0.00000	3.0353	1.7847	4.6309	2.6932	-2.2681	70.558
				7.4442	40.91221	84.73002	0.00000	3.1843	1.5128	4.7018	2.4864	-2.4992	70.558
				7.9405	41.07740	85.19800	0.00000	3.3366	1.1724	4.7496	2.2161	-2.7561	70.558
		25	SB-01	0.0	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0	0.0	59.725
				0.28479	80.70318	128.86005	0.00000	0.0	0.0	0.0	0.0	0.0	59.725
				0.56958	80.84675	129.10600	0.00000	0.0	0.0	0.0	0.0	0.0	59.725
				0.85437	80.99032	129.35195	0.00000	0.0	0.0	0.0	0.0	0.0	59.725
				1.1392	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0	0.0	59.725
		26	SB-02	0.0	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				0.46930	81.53432	129.35316	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				0.93860	81.93475	129.10841	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				1.4079	82.33517	128.86366	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				1.8772	82.73560	128.61892	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				2.3465	83.13602	128.37418	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				2.8158	83.53645	128.12943	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				3.2851	83.93688	127.88469	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				3.7544	84.33730	127.63994	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				4.2237	84.73772	127.39520	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				4.6930	85.13815	127.15045	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				5.1623	85.53857	126.90571	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				5.6316	85.93900	126.66096	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				6.1009	86.33942	126.41622	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				6.5702	86.73985	126.17147	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				7.0395	87.14028	125.92673	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				7.5088	87.54070	125.68198	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				7.9781	87.94112	125.43724	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				8.4474	88.34155	125.19249	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				8.9167	88.74197	124.94774	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
				9.3860	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0	0.0	328.57
		27	SB-03	0.0	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				0.49874	88.87339	124.28303	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				0.99747	88.60438	123.86307	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				1.4962	88.33537	123.44310	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				1.9949	88.06636	123.02313	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				2.4937	87.79735	122.60316	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				2.9924	87.52834	122.18320	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				3.4912	87.25933	121.76323	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				3.9899	86.99032	121.34326	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				4.4886	86.72131	120.92329	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				4.9874	86.45230	120.50333	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				5.4861	86.18329	120.08336	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				5.9848	85.91428	119.66339	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				6.4836	85.64527	119.24343	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				6.9823	85.37626	118.82346	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				7.4811	85.10724	118.40349	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				7.9798	84.83823	117.98352	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				8.4785	84.56922	117.56356	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				8.9773	84.30021	117.14359	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				9.4760	84.03120	116.72362	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				9.9747	83.76219	116.30366	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				10.473	83.49318	115.88369	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				10.972	83.22417	115.46372	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				11.471	82.95516	115.04375	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				11.970	82.68615	114.62379	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				12.468	82.41714	114.20382	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				12.967	82.14813	113.78385	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				13.466	81.87912	113.36388	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				13.965	81.61011	112.94392	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				14.463	81.34110	112.52395	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				14.962	81.07209	112.10398	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				15.461	80.80308	111.68402	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				15.960	80.53407	111.26405	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				16.458	80.26506	110.84408	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				16.957	79.99605	110.42411	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				17.456	79.72704	110.00415	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				17.955	79.45803	109.58418	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				18.453	79.18902	109.16421	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				18.952	78.92001	108.74424	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				19.451	78.65100	108.32428	0.00000	0.0	0.0	0.0	0.0	0.0	237.36
				19.949	78.38199	107.90431	0.00000	-0.0084796	-0.0036184	0.012042	0.0076206	-0.0051886	237.36
				20.448	78.11298	107.48434	0.00000	-0.11608	-0.047684	0.11745	0.10276	-0.072024	237.36
				20.947	77.84397	107.06438	0.00000	-0.22556	-0.089012	0.21721	0.19662	-0.14193	237.36
				21.446	77.57496	106.64441	0.00000	-0.33702	-0.12746	0.31298	0.28911	-0.21505	237.36
				21.944	77.30594	106.22444	0.00000	-0.45054	-0.16287	0.40624	0.38016	-0.29153	237.36
				22.443	77.03693	105.80447	0.00000	-0.56618	-0.19509	0.49829	0.46967	-0.37153	237.36
				22.942	76.76792	105.38451	0.00000	-0.68404	-0.22395	0.59025	0.55754	-0.45520	237.36
				23.441	76.49891	104.96454	0.00000	-0.80418	-0.24929	0.68307	0.64368	-0.54271	237.36
				23.939	76.22990	104.54457	0.00000	-0.92670	-0.27091	0.77753	0.72797	-0.63421	237.36
				24.438	75.96089	104.12461	0.00000	-1.1175	-0.34524	0.94491	0.89347	-0.75479	237.36
				24.937	75.69188	103.70464	0.00000	-1.3667	-0.46355	1.1646	1.1275	-0.90083	237.36
				25.436	75.42287	103.28467	0.00000	-1.6183	-0.57756	1.3818	1.3592	-1.0512	237.36
				25.934	75.15386	102.86470	0.00000	-1.9026	-0.71432	1.6085	1.6277	-1.2168	237.36
				26.433	74.88485	102.44474	0.00000	-2.2049	-0.85186	1.8431	1.9066	-1.3972	237.36
				26.932	74.61584	102.02477	0.00000	-2.5594	-0.99846	2.0888	2.2213	-1.6166	237.36
				27.431	74.34683	101.60480	0.00000	-2.9184	-1.1426	2.3484	2.5362	-1.8411	237.36
				27.929	74.07782	101.18483	0.00000	-3.2001	-1.2646	2.6051	2.7910	-2.0126	237.36
				28.428	73.80881	100.76487	0.00000	-3.3946	-1.3621	2.9209	2.9780	-2.1238	237.36
				28.927	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.2622	3.1516	-2.2269	237.36
		28	SB-04	0.0	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.2622	2.2391	3.1430	147.58
				0.45074	73.15931	100.58655	0.00000	-3.9283	-1.6068	3.4371	2.4546	3.4624	147.58
				0.90147	72.77883	100.82820	0.00000	-4.2937	-1.7668	3.6254	2.6773	3.7934	147.58
				1.3522	72.39835	101.06985	0.00000	-4.6103	-1.9180	3.8078	2.8635	4.0907	147.58
				1.8029	72.01786	101.31150	0.00000	-4.8122	-2.0516	3.9574	2.9623	4.3118	147.58
				2.2537	71.63737	101.55315	0.00000	-4.9354	-2.1222	4.1233	3.0284	4.4374	147.58
				2.7044	71.25689	101.79480	0.00000	-5.0400	-2.1812	4.2845	3.0850	4.5433	147.58
				3.1552	70.87641	102.03645	0.00000	-5.1373	-2.2386	4.4430	3.1365	4.6439	147.58
				3.6059	70.49592	102.27810	0.00000	-5.2417	-2.3336	4.6138	3.1737	4.7801	147.58
				4.0566	70.11543	102.51975	0.00000	-5.3560	-2.4988	4.9065	3.1815	4.9808	147.58
				4.5074	69.73495	102.76140	0.00000	-3.6702	-1.1417	3.3557	2.4860	2.9314	147.58
				4.9581	69.35447	103.00305	0.00000	-3.6949	-1.2809	3.4875	2.4323	3.0622	147.58
				5.4088	68.97398	103.24470	0.00000	-3.7008	-1.4312	3.6113	2.3567	3.1922	147.58
				5.8596	68.59349	103.48635	0.00000	-3.6869	-1.5925	3.7261	2.2585	3.3209	147.58
				6.3103	68.21301	103.72800	0.00000	-3.6524	-1.7648	3.8308	2.1370	3.4479	147.58
				6.7611	67.83253	103.96965	0.00000	-3.5966	-1.9479	3.9245	1.9917	3.5725	147.58
				7.2118	67.45204	104.21130	0.00000	-3.5191	-2.1410	4.0062	1.8228	3.6940	147.58
				7.6625	67.07155	104.45295	0.00000	-3.4199	-2.3433	4.0754	1.6306	3.8116	147.58
				8.1133	66.69107	104.69460	0.00000	-3.3034	-2.5567	4.1345	1.4178	3.9292	147.58
				8.5640	66.31059	104.93625	0.00000	-3.2358	-2.8297	4.2334	1.2143	4.1235	147.58
				9.0147	65.93010	105.17790	0.00000	-3.1525	-3.1099	4.3228	0.99385	4.3154	147.58
		29	SB-05	0.0	65.93010	105.17790	0.00000	-3.1525	-3.1099	4.3228	-4.3145	0.99776	57.632

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				0.47729	66.18562	105.58103	0.00000	-2.9647	-3.0122	4.0938	-4.1314	0.89148	57.632
				0.95459	66.44114	105.98417	0.00000	-2.7850	-2.9048	3.8613	-3.9444	0.79722	57.632
				1.4319	66.69667	106.38730	0.00000	-2.6124	-2.7894	3.6275	-3.7546	0.71317	57.632
				1.9092	66.95219	106.79044	0.00000	-2.4459	-2.6675	3.3944	-3.5625	0.63784	57.632
				2.3865	67.20771	107.19357	0.00000	-2.2849	-2.5400	3.1639	-3.3686	0.57004	57.632
				2.8638	67.46323	107.59671	0.00000	-2.1285	-2.4079	2.9377	-3.1733	0.50874	57.632
				3.3411	67.71875	107.99984	0.00000	-1.9764	-2.2717	2.7171	-2.9768	0.45309	57.632
				3.8183	67.97428	108.40297	0.00000	-1.8278	-2.1321	2.5033	-2.7794	0.40240	57.632
				4.2956	68.22980	108.80611	0.00000	-1.6825	-1.9894	2.2974	-2.5811	0.35604	57.632
				4.7729	68.48532	109.20924	0.00000	-1.5400	-1.8440	2.1001	-2.3820	0.31351	57.632
				5.2502	68.74084	109.61238	0.00000	-1.3999	-1.6961	1.9121	-2.1821	0.27436	57.632
				5.7275	68.99636	110.01551	0.00000	-1.2619	-1.5459	1.7336	-1.9813	0.23822	57.632
				6.2048	69.25188	110.41865	0.00000	-1.1257	-1.3936	1.5649	-1.7797	0.20473	57.632
				6.6821	69.50741	110.82178	0.00000	-0.99094	-1.2391	1.4059	-1.5771	0.17363	57.632
				7.1594	69.76293	111.22492	0.00000	-0.85641	-1.0813	1.2563	-1.3718	0.14447	57.632
				7.6367	70.01845	111.62805	0.00000	-0.77305	-0.98380	1.1156	-1.2448	0.12625	57.632
				8.1140	70.27397	112.03118	0.00000	-0.69022	-0.88494	0.98324	-1.1170	0.10922	57.632
				8.5913	70.52949	112.43432	0.00000	-0.60788	-0.78483	0.85820	-0.98832	0.093265	57.632
				9.0686	70.78502	112.83745	0.00000	-0.52599	-0.68358	0.73940	-0.85896	0.078301	57.632
				9.5459	71.04054	113.24059	0.00000	-0.44451	-0.58129	0.62551	-0.72895	0.064245	57.632
				10.023	71.29606	113.64372	0.00000	-0.36341	-0.47804	0.51498	-0.59832	0.051026	57.632
				10.500	71.55158	114.04686	0.00000	-0.28267	-0.37389	0.40607	-0.46713	0.038579	57.632
				10.978	71.80710	114.44999	0.00000	-0.20224	-0.26893	0.29679	-0.33542	0.026846	57.632
				11.455	72.06262	114.85312	0.00000	-0.12212	-0.16320	0.18499	-0.20323	0.015775	57.632
				11.932	72.31815	115.25626	0.00000	-0.042280	-0.056772	0.068248	-0.070586	0.0053172	57.632
				12.410	72.57367	115.65939	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				12.887	72.82919	116.06253	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				13.364	73.08471	116.46566	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				13.842	73.34023	116.86880	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				14.319	73.59576	117.27193	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				14.796	73.85128	117.67507	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
				15.273	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0	0.0	57.632
		30	SB-06	0.0	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				0.43543	73.71623	118.27067	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				0.87085	73.32565	118.46315	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				1.3063	72.93508	118.65563	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				1.7417	72.54450	118.84810	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				2.1771	72.15393	119.04057	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				2.6126	71.76335	119.23305	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				3.0480	71.37278	119.42552	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
				3.4834	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0	0.0	153.77
		31	SB-07	0.0	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0	0.0	246.79
				0.37898	70.83282	119.26970	0.00000	0.0	0.0	0.0	0.0	0.0	246.79
				0.75796	70.68345	118.92140	0.00000	0.0	0.0	0.0	0.0	0.0	246.79
				1.1369	70.53408	118.57310	0.00000	0.0	0.0	0.0	0.0	0.0	246.79
				1.5159	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0	0.0	246.79
		32	SB-08	0.0	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				0.49123	69.95028	118.45410	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				0.98245	69.51585	118.68340	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				1.4737	69.08143	118.91271	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				1.9649	68.64701	119.14201	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				2.4561	68.21258	119.37131	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				2.9474	67.77816	119.60061	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				3.4386	67.34374	119.82991	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				3.9298	66.90931	120.05921	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				4.4210	66.47489	120.28852	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				4.9123	66.04047	120.51782	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				5.4035	65.60604	120.74712	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				5.8947	65.17162	120.97642	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				6.3859	64.73720	121.20572	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				6.8772	64.30277	121.43502	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				7.3684	63.86835	121.66433	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				7.8596	63.43393	121.89363	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				8.3508	62.99950	122.12293	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				8.8421	62.56508	122.35223	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				9.3333	62.13066	122.58153	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				9.8245	61.69623	122.81083	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				10.316	61.26181	123.04014	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				10.807	60.82739	123.26944	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				11.298	60.39296	123.49874	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				11.789	59.95854	123.72804	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				12.281	59.52412	123.95734	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				12.772	59.08969	124.18664	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				13.263	58.65527	124.41595	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				13.754	58.22085	124.64525	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				14.246	57.78642	124.87455	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				14.737	57.35200	125.10385	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				15.228	56.91758	125.33315	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				15.719	56.48315	125.56245	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				16.210	56.04873	125.79175	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				16.702	55.61431	126.02106	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				17.193	55.17988	126.25036	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				17.684	54.74546	126.47966	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				18.175	54.31104	126.70896	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				18.667	53.87661	126.93826	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				19.158	53.44219	127.16756	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				19.649	53.00777	127.39687	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				20.140	52.57334	127.62617	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				20.631	52.13892	127.85547	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				21.123	51.70450	128.08477	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				21.614	51.27007	128.31407	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				22.105	50.83565	128.54337	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				22.596	50.40123	128.77268	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				23.088	49.96680	129.00198	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				23.579	49.53238	129.23128	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				24.070	49.09796	129.46058	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				24.561	48.66353	129.68988	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				25.053	48.22911	129.91918	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				25.544	47.79469	130.14849	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				26.035	47.36026	130.37779	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				26.526	46.92584	130.60709	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				27.017	46.49142	130.83639	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				27.509	46.05699	131.06569	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				28.000	45.62257	131.29500	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				28.491	45.18815	131.52430	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				28.982	44.75372	131.75360	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
				29.474	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	0.0	152.17
		33	SB-09	0.0	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				0.49663	44.54866	132.42340	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				0.99327	44.77801	132.86390	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				1.4899	45.00737	133.30440	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				1.9865	45.23672	133.74490	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				2.4832	45.46608	134.18540	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				2.9798	45.69544	134.62590	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				3.4764	45.92479	135.06640	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				3.9731	46.15415	135.50690	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				4.4697	46.38351	135.94740	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				4.9663	46.61286	136.38790	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				5.4630	46.84222	136.82840	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				5.9596	47.07158	137.26890	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				6.4562	47.30093	137.70940	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				6.9529	47.53029	138.14990	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				7.4495	47.75964	138.59040	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				7.9461	47.98900	139.03090	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				8.4428	48.21836	139.47140	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				8.9394	48.44771	139.91190	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				9.4360	48.67707	140.35240	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				9.9327	48.90642	140.79290	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				10.429	49.13578	141.23340	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				10.926	49.36514	141.67390	0.00000	0.0	0.0	0.0	0.0	0.0	62.495

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				11.423	49.59449	142.11440	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				11.919	49.82385	142.55490	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				12.416	50.05321	142.99540	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				12.912	50.28256	143.43590	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				13.409	50.51192	143.87640	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				13.906	50.74128	144.31690	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				14.402	50.97063	144.75740	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				14.899	51.19999	145.19790	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				15.396	51.42934	145.63840	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
				15.892	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0	0.0	62.495
		34	SB-10	0.0	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				0.46146	52.05637	145.84480	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				0.92292	52.45404	145.61070	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				1.3844	52.85171	145.37660	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				1.8458	53.24938	145.14250	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				2.3073	53.64705	144.90840	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				2.7688	54.04472	144.67430	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				3.2302	54.44239	144.44020	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				3.6917	54.84006	144.20610	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				4.1531	55.23773	143.97200	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				4.6146	55.63540	143.73790	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				5.0760	56.03307	143.50380	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				5.5375	56.43074	143.26970	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				5.9990	56.82841	143.03560	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				6.4604	57.22608	142.80150	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				6.9219	57.62375	142.56740	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				7.3833	58.02142	142.33330	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				7.8448	58.41909	142.09920	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				8.3063	58.81676	141.86510	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				8.7677	59.21443	141.63100	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
				9.2292	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0	0.0	329.52
		35	SB-11	0.0	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				0.48552	60.04295	141.17306	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				0.97105	60.47379	140.94923	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				1.4566	60.90464	140.72539	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				1.9421	61.33549	140.50155	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				2.4276	61.76634	140.27772	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				2.9131	62.19718	140.05388	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				3.3987	62.62803	139.83004	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				3.8842	63.05888	139.60621	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				4.3697	63.48973	139.38237	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				4.8552	63.92057	139.15853	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				5.3408	64.35142	138.93469	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				5.8263	64.78227	138.71086	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				6.3118	65.21312	138.48702	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				6.7973	65.64396	138.26318	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				7.2828	66.07481	138.03935	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				7.7684	66.50566	137.81551	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				8.2539	66.93651	137.59167	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				8.7394	67.36735	137.36784	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				9.2249	67.79820	137.14400	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				9.7105	68.22905	136.92016	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				10.196	68.65989	136.69633	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				10.682	69.09074	136.47249	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				11.167	69.52159	136.24865	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				11.653	69.95244	136.02482	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				12.138	70.38328	135.80098	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				12.624	70.81413	135.57714	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				13.109	71.24498	135.35331	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				13.595	71.67583	135.12947	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				14.080	72.10667	134.90563	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				14.566	72.53752	134.68179	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				15.051	72.96837	134.45796	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				15.537	73.39922	134.23412	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				16.022	73.83006	134.01028	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				16.508	74.26091	133.78645	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				16.993	74.69176	133.56261	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				17.479	75.12261	133.33877	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				17.964	75.55345	133.11494	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
				18.450	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0	0.0	332.55
		36	SB-12	0.0	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0	0.0	323.82
				0.28634	76.21543	132.72207	0.00000	0.0	0.0	0.0	0.0	0.0	323.82
				0.57267	76.44655	132.55305	0.00000	0.0	0.0	0.0	0.0	0.0	323.82
				0.85901	76.67767	132.38403	0.00000	0.0	0.0	0.0	0.0	0.0	323.82
				1.1453	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0	0.0	323.82
		37	SB-13	0.0	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0	0.0	243.16
				0.31767	76.76538	131.93155	0.00000	0.0	0.0	0.0	0.0	0.0	243.16
				0.63534	76.62195	131.64810	0.00000	0.0	0.0	0.0	0.0	0.0	243.16
				0.95301	76.47852	131.36465	0.00000	0.0	0.0	0.0	0.0	0.0	243.16
				1.2707	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0	0.0	243.16
		38	SB-14	0.0	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				0.48921	76.75755	130.83449	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				0.97843	77.18000	130.58778	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				1.4676	77.60245	130.34107	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				1.9569	78.02490	130.09436	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				2.4461	78.44735	129.84765	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				2.9353	78.86980	129.60094	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				3.4245	79.29225	129.35423	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				3.9137	79.71470	129.10752	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				4.4029	80.13715	128.86081	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
				4.8921	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0	0.0	329.72
		39	HL-01	0.0	50.98220	128.46600	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				0.48226	50.76237	128.03676	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				0.96452	50.54254	127.60752	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				1.4468	50.32271	127.17828	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				1.9290	50.10287	126.74904	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				2.4113	49.88304	126.31980	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				2.8936	49.66321	125.89056	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				3.3758	49.44338	125.46132	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				3.8581	49.22355	125.03208	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				4.3403	49.00372	124.60283	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				4.8226	48.78389	124.17359	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				5.3048	48.56406	123.74435	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				5.7871	48.34423	123.31511	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				6.2694	48.12439	122.88587	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				6.7516	47.90456	122.45663	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				7.2339	47.68473	122.02739	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				7.7161	47.46490	121.59815	0.00000	0.0	0.0	0.0	0.0	0.0	242.88
				8.1984	47.24507	121.16891	0.00000	0.010229	-0.022170	0.044099	0.015069	0.019210	242.88
				8.6807	47.02524	120.73967	0.00000	0.030707	-0.061861	0.11765	0.041063	0.055530	242.88
				9.1629	46.80541	120.31043	0.00000	0.053559	-0.10056	0.18800	0.065093	0.093512	242.88
				9.6452	46.58557	119.88119	0.00000	0.078803	-0.13823	0.25560	0.087114	0.13315	242.88
				10.127	46.36574	119.45195	0.00000	0.10644	-0.17482	0.32083	0.10708	0.17443	242.88
				10.610	46.14591	119.02271	0.00000	0.13648	-0.21028	0.38400	0.12495	0.21733	242.88
				11.092	45.92608	118.59347	0.00000	0.16889	-0.24457	0.44536	0.14070	0.26181	242.88
				11.574	45.70625	118.16423	0.00000	0.20364	-0.27764	0.50510	0.15428	0.30781	242.88
				12.056	45.48642	117.73498	0.00000	0.24070	-0.30943	0.56333	0.16569	0.35528	242.88
				12.538	45.26659	117.30574	0.00000	0.27998	-0.33989	0.62014	0.17490	0.40414	242.88
				13.021	45.04676	116.87650	0.00000	0.32141	-0.36899	0.67553	0.18191	0.45427	242.88
				13.503	44.82693	116.44726	0.00000	0.36488	-0.39665	0.72947	0.18672	0.50558	242.88
				13.985	44.60709	116.01802	0.00000	0.41026	-0.42284	0.78189	0.18934	0.55791	242.88
				14.468	44.38726	115.58878	0.00000	0.45740	-0.44751	0.83266	0.18981	0.61110	242.88
				14.950	44.16743	115.15954	0.00000	0.50611	-0.47060	0.88164	0.18816	0.66498	242.88
				15.432	43.94760	114.73030	0.00000	0.55618	-0.49207	0.92863	0.18444	0.71934	242.88
		40	HL-02	0.0	43.94760	114.73030	0.00000	0.55618	-0.49207	0.92863	-0.72310	0.16913	151.66
				0.46776	43.53589	114.95231	0.00000	0.50319	-0.43763	0.82005	-0.65061	0.14637	151.66
				0.93551	43.12418	115.17432	0.00000	0.44759	-0.38310	0.71508	-0.57579	0.12476	151.66
				1.4033	42.71246	115.39634	0.00000	0.38956	-0.32850	0.61301	-0.49880	0.10424	151.66
				1.8710	42.30075	115.61835	0.00000	0.32930	-0.27381	0.51296	-0.41980	0.084709	151.66
				2.3388	41.88904	115.84036	0.00000	0.26694	-0.21906	0.41391	-0.33893	0.066113	151.66

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				2.8065	41.47733	116.06238	0.00000	0.20263	-0.16424	0.31465	-0.25631	0.048383	151.66
				3.2743	41.06561	116.28439	0.00000	0.13651	-0.10936	0.21386	-0.17206	0.031464	151.66
				3.7421	40.65390	116.50640	0.00000	0.068694	-0.054427	0.11002	-0.086296	0.015301	151.66
				4.2098	40.24219	116.72841	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				4.6776	39.83047	116.95042	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				5.1453	39.41876	117.17244	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				5.6131	39.00705	117.39445	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				6.0808	38.59534	117.61646	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				6.5486	38.18362	117.83848	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				7.0164	37.77191	118.06049	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
				7.4841	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0	0.0	151.66
		41	HL-03	0.0	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				0.48020	37.57767	118.71064	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				0.96041	37.79514	119.13877	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				1.4406	38.01262	119.56691	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				1.9208	38.23009	119.99505	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				2.4010	38.44756	120.42319	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				2.8812	38.66503	120.85133	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				3.3614	38.88250	121.27946	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				3.8416	39.09998	121.70760	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				4.3218	39.31745	122.13574	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				4.8020	39.53492	122.56387	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				5.2822	39.75239	122.99201	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				5.7624	39.96986	123.42015	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				6.2427	40.18733	123.84829	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				6.7229	40.40481	124.27643	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				7.2031	40.62228	124.70456	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				7.6833	40.83975	125.13270	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				8.1635	41.05722	125.56084	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				8.6437	41.27469	125.98897	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				9.1239	41.49217	126.41711	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				9.6041	41.70964	126.84525	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				10.084	41.92711	127.27339	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				10.564	42.14458	127.70153	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				11.045	42.36205	128.12966	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				11.525	42.57952	128.55780	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				12.005	42.79700	128.98594	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				12.485	43.01447	129.41407	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				12.966	43.23194	129.84221	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				13.446	43.44941	130.27035	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				13.926	43.66688	130.69849	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				14.406	43.88436	131.12662	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				14.886	44.10183	131.55476	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
				15.367	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	0.0	63.072
		42	CH-01	0.0	43.98880	114.70780	0.00000	0.56138	-0.49754	0.93977	0.72956	-0.17445	331.90
				0.48967	44.42074	114.47714	0.00000	0.61330	-0.55433	1.0582	0.80212	-0.20008	331.90
				0.97934	44.85268	114.24649	0.00000	0.66182	-0.61100	1.1817	0.87161	-0.22721	331.90
				1.4690	45.28462	114.01583	0.00000	0.74725	-0.71044	1.3105	0.99381	-0.27470	331.90
				1.9587	45.71656	113.78517	0.00000	0.82967	-0.81322	1.4447	1.1149	-0.32654	331.90
				2.4483	46.14850	113.55451	0.00000	0.90566	-0.91642	1.5843	1.2306	-0.38177	331.90
				2.9380	46.58044	113.32386	0.00000	0.97471	-1.0202	1.7290	1.3403	-0.44075	331.90
				3.4277	47.01237	113.09320	0.00000	1.0362	-1.1246	1.8783	1.4438	-0.50391	331.90
				3.9173	47.44431	112.86254	0.00000	1.0894	-1.2298	2.0317	1.5403	-0.57171	331.90
				4.4070	47.87625	112.63189	0.00000	1.1335	-1.3361	2.1885	1.6292	-0.64464	331.90
				4.8967	48.30819	112.40123	0.00000	1.1675	-1.4434	2.3477	1.7097	-0.72328	331.90
				5.3863	48.74013	112.17057	0.00000	1.1903	-1.5519	2.5083	1.7810	-0.80825	331.90
				5.8760	49.17207	111.93991	0.00000	1.2006	-1.6617	2.6692	1.8418	-0.90026	331.90
				6.3657	49.60401	111.70926	0.00000	1.1971	-1.7730	2.8290	1.8911	-1.0001	331.90
				6.8553	50.03595	111.47860	0.00000	1.1780	-1.8857	2.9864	1.9274	-1.1085	331.90
				7.3450	50.46789	111.24794	0.00000	1.1416	-2.0000	3.1399	1.9491	-1.2265	331.90
				7.8347	50.89983	111.01729	0.00000	1.0857	-2.1158	3.2879	1.9543	-1.3550	331.90
				8.3243	51.33177	110.78663	0.00000	1.0081	-2.2332	3.4289	1.9412	-1.4951	331.90
				8.8140	51.76371	110.55597	0.00000	0.90639	-2.3521	3.5611	1.9075	-1.6478	331.90
				9.3037	52.19565	110.32531	0.00000	0.77793	-2.4723	3.6830	1.8508	-1.8143	331.90
				9.7934	52.62759	110.09466	0.00000	0.63416	-2.6410	3.8332	1.8034	-2.0309	331.90
				10.283	53.05953	109.86400	0.00000	0.46518	-2.8334	3.9916	1.7450	-2.2802	331.90
				10.773	53.49146	109.63334	0.00000	0.26459	-3.0355	4.1456	1.6633	-2.5530	331.90
				11.262	53.92340	109.40269	0.00000	0.030606	-3.2470	4.2943	1.5565	-2.8498	331.90
				11.752	54.35534	109.17203	0.00000	-0.23782	-3.4672	4.4367	1.4234	-3.1704	331.90
				12.242	54.78728	108.94137	0.00000	-0.54059	-3.6945	4.5716	1.2634	-3.5136	331.90
				12.731	55.21922	108.71071	0.00000	-0.87610	-3.9268	4.6979	1.0769	-3.8766	331.90
				13.221	55.65116	108.48006	0.00000	-1.2408	-4.1611	4.8146	0.86556	-4.2550	331.90
				13.711	56.08310	108.24940	0.00000	-1.6290	-4.3934	4.9202	0.63255	-4.6428	331.90
		43	CH-02	0.0	56.08310	108.24940	0.00000	-1.6290	-4.3934	4.9202	4.6347	0.68905	241.20
				0.48553	55.84919	107.82393	0.00000	-1.6029	-4.5494	5.0750	4.7589	0.78708	241.20
				0.97106	55.61528	107.39846	0.00000	-1.5483	-4.6950	5.2092	4.8602	0.90512	241.20
				1.4566	55.38138	106.97298	0.00000	-1.4552	-4.8254	5.3195	4.9296	1.0495	241.20
				1.9421	55.14747	106.54751	0.00000	-1.3094	-4.9337	5.4020	4.9542	1.2294	241.20
				2.4276	54.91356	106.12204	0.00000	-1.0894	-5.0092	5.4529	4.9144	1.4585	241.20
				2.9132	54.67965	105.69657	0.00000	-0.76238	-5.0356	5.4678	4.7800	1.7578	241.20
				3.3987	54.44574	105.27110	0.00000	-0.27579	-4.9865	5.4422	4.5025	2.1606	241.20
				3.8842	54.21184	104.84562	0.00000	0.45469	-4.8190	5.3712	4.0039	2.7200	241.20
				4.3698	53.97793	104.42015	0.00000	1.5793	-4.5284	5.2945	3.2074	3.5655	241.20
				4.8553	53.74402	103.99468	0.00000	3.3744	-4.3885	5.4436	2.2200	5.0712	241.20
				5.3408	53.51011	103.56921	0.00000	5.8278	-4.1009	5.6388	0.78608	7.0826	241.20
				5.8264	53.27620	103.14374	0.00000	7.2623	-3.9378	5.7828	-0.047930	8.2611	241.20
				6.3119	53.04230	102.71826	0.00000	7.3696	-3.9960	5.8366	-0.048638	8.3831	241.20
				6.7974	52.80839	102.29279	0.00000	7.4768	-4.0542	5.8905	-0.049346	8.5051	241.20
				7.2829	52.57448	101.86732	0.00000	7.5841	-4.1123	5.9444	-0.050054	8.6271	241.20
				7.7685	52.34057	101.44185	0.00000	7.6913	-4.1704	5.9984	-0.050761	8.7490	241.20
				8.2540	52.10666	101.01638	0.00000	7.7984	-4.2285	6.0525	-0.051468	8.8709	241.20
				8.7395	51.87276	100.59090	0.00000	7.9056	-4.2866	6.1066	-0.052175	8.9928	241.20
				9.2251	51.63885	100.16543	0.00000	8.0127	-4.3447	6.1607	-0.052882	9.1146	241.20
				9.7106	51.40494	99.73996	0.00000	8.1197	-4.4028	6.2149	-0.053589	9.2364	241.20
				10.196	51.17103	99.31449	0.00000	8.2268	-4.4608	6.2692	-0.054295	9.3582	241.20
				10.682	50.93712	98.88902	0.00000	8.3338	-4.5188	6.3235	-0.055001	9.4799	241.20
				11.167	50.70322	98.46354	0.00000	8.4407	-4.5768	6.3779	-0.055707	9.6016	241.20
				11.653	50.46931	98.03807	0.00000	8.5477	-4.6348	6.4323	-0.056413	9.7232	241.20
				12.138	50.23540	97.61260	0.00000	8.6546	-4.6928	6.4868	-0.057119	9.8448	241.20
				12.624	50.00149	97.18713	0.00000	8.7614	-4.7507	6.5414	-0.057824	9.9664	241.20
				13.109	49.76758	96.76166	0.00000	8.8683	-4.8086	6.5960	-0.058529	10.088	241.20
				13.595	49.53368	96.33618	0.00000	8.9751	-4.8666	6.6506	-0.059234	10.209	241.20
				14.080	49.29977	95.91071	0.00000	9.0819	-4.9245	6.7053	-0.059939	10.331	241.20
				14.566	49.06586	95.48524	0.00000	9.1886	-4.9823	6.7601	-0.060643	10.452	241.20
				15.051	48.83195	95.05977	0.00000	9.1139	-4.9418	6.7251	-0.060150	10.367	241.20
				15.537	48.59804	94.63430	0.00000	9.0032	-4.8818	6.6723	-0.059420	10.241	241.20
				16.022	48.36414	94.20882	0.00000	8.8926	-4.8218	6.6194	-0.058690	10.116	241.20
				16.508	48.13023	93.78335	0.00000	8.7820	-4.7619	6.5665	-0.057960	9.9898	241.20
				16.994	47.89632	93.35788	0.00000	8.6714	-4.7019	6.5135	-0.057230	9.8640	241.20
				17.479	47.66241	92.93241	0.00000	8.5609	-4.6420	6.4604	-0.056500	9.7382	241.20
				17.965	47.42850	92.50694	0.00000	8.4504	-4.5820	6.4073	-0.055771	9.6125	241.20
				18.450	47.19460	92.08146	0.00000	8.3399	-4.5221	6.3541	-0.055042	9.4868	241.20
				18.936	46.96069	91.65599	0.00000	8.2294	-4.4622	6.3009	-0.054313	9.3612	241.20
				19.421	46.72678	91.23052	0.00000	8.1190	-4.4024	6.2476	-0.053584	9.2356	241.20
				19.907	46.49287	90.80505	0.00000	8.0087	-4.3425	6.1942	-0.052856	9.1101	241.20
				20.392	46.25896	90.37958	0.00000	7.8983	-4.2827	6.1408	-0.052127	8.9845	241.20
				20.878	46.02506	89.95410	0.00000	7.7880	-4.2229	6.0873	-0.051399	8.8591	241.20
				21.363	45.79115	89.52863	0.00000	7.6777	-4.1631	6.0338	-0.050672	8.7336	241.20
				21.849	45.55724	89.10316	0.00000	7.5675	-4.1033	5.9802	-0.049944	8.6082	241.20
				22.334	45.32333	88.67769	0.00000	7.4573	-4.0436	5.9266	-0.049217	8.4828	241.20
				22.820	45.08942	88.25222	0.00000	7.3471	-3.9838	5.8728	-0.048489	8.3575	241.20
				23.305	44.85552	87.82674	0.00000	7.2369	-3.9241	5.8191	-0.047762	8.2322	241.20
				23.791	44.62161	87.40127	0.00000	6.9600	-3.4761	5.7357	-0.30691	7.7737	241.20
				24.276	44.38770	86.97580	0.00000	5.8986	-1.2899	5.5332	-1.7113	5.7904	241.20
		44	CH-03	0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	5.5332	-5.7430	-1.8642	149.68
				0.48596	43.96821	87.22111	0.00000	5.9739	-1.8808	5.6353	-6.1063	-1.3921	149.68
				0.97191	43.54871	87.46643	0.00000	5.9205	-2.1910	5.6816	-6.2167	-1.0974	149.68
				1.4579	43.12922	87.71174	0.00000	5.8016	-2.3534	5.6813	-6.1961	-0.89712	149.68
				1.9438	42.70973	87.95705	0.00000	5.6467	-2.4304	5.6407	-6.1013	-0.75251	149.68
				2.4298	42.29023	88.20237	0.00000	5.4711	-2.4543	5.5653	-5.9618	-0.64325	149.68

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				2.9157	41.87074	88.44768	0.00000	5.2834	-2.4435	5.4595	-5.7943	-0.55778	149.68
				3.4017	41.45125	88.69300	0.00000	5.0886	-2.4092	5.3275	-5.6089	-0.48905	149.68
				3.8876	41.03175	88.93831	0.00000	4.8900	-2.3585	5.1730	-5.4118	-0.43255	149.68
				4.3736	40.61226	89.18362	0.00000	4.6896	-2.2962	4.9996	-5.2073	-0.38523	149.68
				4.8596	40.19277	89.42894	0.00000	4.4888	-2.2253	4.8105	-4.9982	-0.34498	149.68
				5.3455	39.77327	89.67425	0.00000	4.2883	-2.1483	4.6088	-4.7863	-0.31029	149.68
				5.8315	39.35378	89.91956	0.00000	4.0890	-2.0668	4.3973	-4.5731	-0.28004	149.68
				6.3174	38.93429	90.16488	0.00000	3.8910	-1.9819	4.1787	-4.3593	-0.25339	149.68
				6.8034	38.51480	90.41019	0.00000	3.6947	-1.8945	3.9552	-4.1458	-0.22971	149.68
				7.2893	38.09530	90.65550	0.00000	3.5002	-1.8053	3.7293	-3.9328	-0.20848	149.68
				7.7753	37.67581	90.90082	0.00000	3.3074	-1.7148	3.5028	-3.7207	-0.18932	149.68
				8.2613	37.25632	91.14613	0.00000	3.1165	-1.6233	3.2777	-3.5097	-0.17191	149.68
				8.7472	36.83682	91.39145	0.00000	2.9272	-1.5311	3.0555	-3.2998	-0.15598	149.68
				9.2332	36.41733	91.63676	0.00000	2.7396	-1.4383	2.8377	-3.0910	-0.14134	149.68
				9.7191	35.99784	91.88207	0.00000	2.5534	-1.3452	2.6256	-2.8833	-0.12779	149.68
				10.205	35.57834	92.12739	0.00000	2.3686	-1.2517	2.4201	-2.6765	-0.11520	149.68
				10.691	35.15885	92.37270	0.00000	2.1850	-1.1579	2.2222	-2.4707	-0.10344	149.68
				11.177	34.73936	92.61801	0.00000	2.0023	-1.0639	2.0324	-2.2655	-0.092407	149.68
				11.663	34.31986	92.86333	0.00000	1.8205	-0.96958	1.8514	-2.0609	-0.082007	149.68
				12.149	33.90037	93.10864	0.00000	1.6392	-0.87498	1.6793	-1.8567	-0.072164	149.68
				12.635	33.48088	93.35395	0.00000	1.4583	-0.78003	1.5163	-1.6526	-0.062810	149.68
				13.121	33.06138	93.59927	0.00000	1.2776	-0.68468	1.3622	-1.4485	-0.053886	149.68
				13.607	32.64189	93.84458	0.00000	1.0964	-0.58864	1.2168	-1.2436	-0.045323	149.68
				14.093	32.22240	94.08990	0.00000	0.99036	-0.53251	1.0795	-1.1237	-0.040260	149.68
				14.579	31.80290	94.33521	0.00000	0.88415	-0.47606	0.94975	-1.0036	-0.035373	149.68
				15.065	31.38341	94.58052	0.00000	0.77777	-0.41933	0.82659	-0.88308	-0.030646	149.68
				15.551	30.96392	94.82584	0.00000	0.67123	-0.36233	0.70897	-0.76234	-0.026066	149.68
				16.037	30.54442	95.07115	0.00000	0.56454	-0.30509	0.59565	-0.64135	-0.021619	149.68
				16.523	30.12493	95.31646	0.00000	0.45772	-0.24763	0.48517	-0.52013	-0.017296	149.68
				17.008	29.70544	95.56178	0.00000	0.35078	-0.18997	0.37590	-0.39870	-0.013086	149.68
				17.494	29.28595	95.80709	0.00000	0.24372	-0.13212	0.26601	-0.27708	-0.0089811	149.68
				17.980	28.86645	96.05240	0.00000	0.13659	-0.074065	0.15349	-0.15530	-0.0050179	149.68
				18.466	28.44696	96.29772	0.00000	0.029313	-0.015895	0.036086	-0.033328	-0.0010769	149.68
				18.952	28.02747	96.54303	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
				19.438	27.60797	96.78835	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
				19.924	27.18848	97.03366	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
				20.410	26.76899	97.27897	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
				20.896	26.34949	97.52429	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
				21.382	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0	0.0	149.68
		45	CH-04	0.0	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				0.48923	26.16813	98.19696	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				0.97845	26.40627	98.62432	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				1.4677	26.64440	99.05168	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				1.9569	26.88253	99.47903	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				2.4461	27.12067	99.90639	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				2.9354	27.35880	100.33375	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				3.4246	27.59693	100.76111	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				3.9138	27.83507	101.18847	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				4.4030	28.07320	101.61583	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				4.8923	28.31133	102.04318	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				5.3815	28.54947	102.47054	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				5.8707	28.78760	102.89790	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				6.3599	29.02573	103.32526	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				6.8492	29.26387	103.75262	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				7.3384	29.50200	104.17997	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				7.8276	29.74013	104.60733	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				8.3169	29.97827	105.03469	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				8.8061	30.21640	105.46205	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				9.2953	30.45453	105.88941	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				9.7845	30.69267	106.31677	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				10.274	30.93080	106.74412	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				10.763	31.16893	107.17148	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				11.252	31.40707	107.59884	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				11.741	31.64520	108.02620	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				12.231	31.88333	108.45356	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				12.720	32.12147	108.88092	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				13.209	32.35960	109.30827	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				13.698	32.59773	109.73563	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				14.188	32.83587	110.16299	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				14.677	33.07400	110.59035	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				15.166	33.31213	111.01771	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				15.655	33.55027	111.44507	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				16.144	33.78840	111.87242	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				16.634	34.02653	112.29978	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				17.123	34.26467	112.72714	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				17.612	34.50280	113.15450	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				18.101	34.74093	113.58186	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				18.591	34.97907	114.00922	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				19.080	35.21720	114.43657	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				19.569	35.45533	114.86393	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				20.058	35.69347	115.29129	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				20.548	35.93160	115.71865	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				21.037	36.16973	116.14601	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				21.526	36.40787	116.57337	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				22.015	36.64600	117.00072	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				22.504	36.88413	117.42808	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				22.994	37.12227	117.85544	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
				23.483	37.36040	118.28280	0.00000	0.0	0.0	0.0	0.0	0.0	60.872
		46	CH-05	0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	5.5332	-5.3932	2.7148	194.38
				0.43282	43.96845	86.86828	0.00000	5.4594	-0.73469	5.5047	-5.1058	2.0679	194.38
				0.86564	43.54920	86.76075	0.00000	5.1174	-0.39034	5.4645	-4.8600	1.6494	194.38
				1.2985	43.12995	86.65323	0.00000	4.8311	-0.16291	5.4082	-4.6392	1.3580	194.38
				1.7313	42.71070	86.54570	0.00000	4.5803	-0.0063192	5.3350	-4.4352	1.1440	194.38
				2.1641	42.29145	86.43818	0.00000	4.3540	0.10444	5.2452	-4.2434	0.98048	194.38
				2.5969	41.87220	86.33065	0.00000	4.1454	0.18403	5.1399	-4.0612	0.85158	194.38
				3.0297	41.45295	86.22312	0.00000	3.9505	0.24157	5.0206	-3.8867	0.74742	194.38
				3.4626	41.03370	86.11560	0.00000	3.7665	0.28302	4.8887	-3.7187	0.66156	194.38
		47	CH-06	0.0	41.03370	86.11560	0.00000	3.7665	0.28302	4.8887	-3.1083	-2.1460	149.68
				0.48042	40.61901	86.35816	0.00000	3.7571	0.0036583	4.8091	-3.2412	-1.9001	149.68
				0.96085	40.20431	86.60072	0.00000	3.7193	-0.22004	4.7076	-3.3215	-1.6879	149.68
				1.4413	39.78962	86.84328	0.00000	3.6587	-0.39768	4.5865	-3.3589	-1.5040	149.68
				1.9217	39.37493	87.08584	0.00000	3.5799	-0.53721	4.4481	-3.3613	-1.3437	149.68
				2.4021	38.96024	87.32840	0.00000	3.4864	-0.64518	4.2949	-3.3352	-1.2034	149.68
				2.8825	38.54554	87.57096	0.00000	3.3812	-0.72689	4.1294	-3.2856	-1.0797	149.68
				3.3630	38.13085	87.81352	0.00000	3.2666	-0.78669	3.9537	-3.2169	-0.97022	149.68
				3.8434	37.71616	88.05609	0.00000	3.1444	-0.82812	3.7702	-3.1323	-0.87276	149.68
				4.3238	37.30146	88.29865	0.00000	3.0160	-0.85404	3.5810	-3.0346	-0.78557	149.68
				4.8042	36.88677	88.54121	0.00000	2.8827	-0.86684	3.3880	-2.9260	-0.70721	149.68
				5.2846	36.47208	88.78377	0.00000	2.7453	-0.86845	3.1930	-2.8082	-0.63645	149.68
				5.7651	36.05739	89.02633	0.00000	2.6046	-0.86048	2.9978	-2.6827	-0.57228	149.68
				6.2455	35.64269	89.26889	0.00000	2.4611	-0.84426	2.8038	-2.5506	-0.51383	149.68
				6.7259	35.22800	89.51145	0.00000	2.3153	-0.82088	2.6125	-2.4130	-0.46039	149.68
				7.2063	34.81331	89.75401	0.00000	2.1675	-0.79127	2.4250	-2.2704	-0.41133	149.68
				7.6868	34.39861	89.99657	0.00000	2.0179	-0.75618	2.2423	-2.1236	-0.36612	149.68
				8.1672	33.98392	90.23913	0.00000	1.8669	-0.71625	2.0653	-1.9731	-0.32430	149.68
				8.6476	33.56923	90.48169	0.00000	1.7143	-0.67202	1.8947	-1.8191	-0.28548	149.68
				9.1280	33.15454	90.72425	0.00000	1.5605	-0.62391	1.7310	-1.6620	-0.24931	149.68
				9.6085	32.73984	90.96681	0.00000	1.4052	-0.57229	1.5745	-1.5019	-0.21550	149.68
				10.089	32.32515	91.20938	0.00000	1.2487	-0.51747	1.4253	-1.3391	-0.18378	149.68
				10.569	31.91046	91.45194	0.00000	1.0907	-0.45968	1.2835	-1.1736	-0.15391	149.68
				11.050	31.49576	91.69450	0.00000	0.96044	-0.41064	1.1487	-1.0364	-0.13046	149.68
				11.530	31.08107	91.93706	0.00000	0.86916	-0.37557	1.0207	-0.93986	-0.11464	149.68
				12.011	30.66638	92.17962	0.00000	0.77690	-0.33902	0.89887	-0.84178	-0.099615	149.68
				12.491	30.25169	92.42218	0.00000	0.68376	-0.30111	0.78241	-0.74224	-0.085315	149.68
				12.971	29.83699	92.66474	0.00000	0.58980	-0.26194	0.67043	-0.64136	-0.071683	149.68
				13.452	29.42230	92.90730	0.00000	0.49510	-0.22163	0.56182	-0.53926	-0.058665	149.68
		48	CH-07	0.0	29.42230	92.90730	0.00000	0.49510	-0.22163	0.56182	-0.092640	0.53447	236.05
				0.48449	29.15173	92.50539	0.00000	0.46323	-0.19833	0.53388	-0.094169	0.49502	236.05
				0.96899	28.88117	92.10349	0.00000	0.42978	-0.17548	0.50336	-0.094441	0.45452	236.05
				1.4535	28.61060	91.70158	0.00000	0.39491	-0.15329	0.47031	-0.093381	0.41320	236.05

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				1.9380	28.34003	91.29968	0.00000	0.35877	-0.13192	0.43479	-0.090923	0.37129	236.05
				2.4225	28.06947	90.89777	0.00000	0.32152	-0.11156	0.39683	-0.087008	0.32901	236.05
				2.9070	27.79890	90.49587	0.00000	0.28327	-0.092344	0.35644	-0.081590	0.28655	236.05
				3.3915	27.52833	90.09396	0.00000	0.24417	-0.074415	0.31360	-0.074625	0.24410	236.05
				3.8760	27.25777	89.69206	0.00000	0.20433	-0.057893	0.26826	-0.066082	0.20183	236.05
				4.3604	26.98720	89.29015	0.00000	0.16386	-0.042884	0.22031	-0.055937	0.15988	236.05
				4.8449	26.71663	88.88824	0.00000	0.12288	-0.029479	0.16964	-0.044170	0.11840	236.05
				5.3294	26.44607	88.48634	0.00000	0.081480	-0.017757	0.11605	-0.030772	0.077507	236.05
				5.8139	26.17550	88.08443	0.00000	0.039743	-0.0077833	0.059312	-0.015738	0.037315	236.05
				6.2984	25.90493	87.68253	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
				6.7829	25.63437	87.28062	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
				7.2674	25.36380	86.87872	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
				7.7519	25.09323	86.47681	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
				8.2364	24.82267	86.07491	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
				8.7209	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0	0.0	236.05
		49	CH-08	0.0	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0	0.0	148.76
				0.22375	24.36080	85.78905	0.00000	0.0	0.0	0.0	0.0	0.0	148.76
				0.44750	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0	0.0	148.76
		50	CH-09	0.0	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				0.41343	23.93042	85.56780	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				0.82687	23.69135	85.23050	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				1.2403	23.45228	84.89320	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				1.6537	23.21320	84.55590	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				2.0672	22.97413	84.21860	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				2.4806	22.73505	83.88130	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				2.8940	22.49598	83.54400	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
				3.3075	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0	0.0	234.67
		51	CH-10	0.0	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				0.49151	21.84234	83.47075	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				0.98302	21.42778	83.73480	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				1.4745	21.01322	83.99885	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				1.9660	20.59866	84.26290	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				2.4576	20.18410	84.52695	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				2.9491	19.76954	84.79100	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				3.4406	19.35498	85.05505	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				3.9321	18.94042	85.31910	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				4.4236	18.52586	85.58315	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
				4.9151	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0	0.0	147.51
		52	CH-11	0.0	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				0.47528	18.37194	86.24464	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				0.95057	18.63258	86.64209	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				1.4259	18.89322	87.03953	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				1.9011	19.15386	87.43697	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				2.3764	19.41450	87.83442	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				2.8517	19.67514	88.23186	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				3.3270	19.93578	88.62930	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				3.8023	20.19642	89.02675	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				4.2776	20.45706	89.42419	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				4.7528	20.71770	89.82163	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				5.2281	20.97834	90.21908	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				5.7034	21.23898	90.61652	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				6.1787	21.49962	91.01396	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				6.6540	21.76026	91.41141	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				7.1293	22.02090	91.80885	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				7.6045	22.28154	92.20629	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				8.0798	22.54218	92.60374	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				8.5551	22.80282	93.00118	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				9.0304	23.06346	93.39862	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				9.5057	23.32410	93.79607	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				9.9810	23.58474	94.19351	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				10.456	23.84538	94.59095	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				10.932	24.10602	94.98840	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				11.407	24.36666	95.38584	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				11.882	24.62730	95.78328	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				12.357	24.88794	96.18073	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				12.833	25.14858	96.57817	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				13.308	25.40922	96.97561	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				13.783	25.66986	97.37306	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
				14.259	25.93050	97.77050	0.00000	0.0	0.0	0.0	0.0	0.0	56.743
		53	10S-01	0.0	60.26430	42.08760	0.00000	0.59562	2.0766	1.7357	-2.1453	-0.25406	247.24
				0.46208	60.08619	41.66303	0.00000	0.53428	1.8627	1.5697	-1.9244	-0.22790	247.24
				0.92083	59.90809	41.23846	0.00000	0.47326	1.6500	1.4135	-1.7046	-0.20187	247.24
				1.3812	59.72998	40.81389	0.00000	0.41250	1.4382	1.2669	-1.4858	-0.17596	247.24
				1.8417	59.55187	40.38931	0.00000	0.37252	1.2988	1.1292	-1.3418	-0.15890	247.24
				2.3021	59.37376	39.96474	0.00000	0.33435	1.1657	0.99971	-1.2043	-0.14262	247.24
				2.7625	59.19566	39.54017	0.00000	0.29636	1.0333	0.87749	-1.0675	-0.12641	247.24
				3.2229	59.01755	39.11560	0.00000	0.25857	0.90148	0.76151	-0.93132	-0.11029	247.24
				3.6833	58.83944	38.69103	0.00000	0.22096	0.77036	0.65053	-0.79586	-0.094250	247.24
				4.1437	58.66134	38.26646	0.00000	0.18354	0.63989	0.54316	-0.66107	-0.078288	247.24
				4.6042	58.48323	37.84189	0.00000	0.14630	0.51008	0.43786	-0.52696	-0.062406	247.24
				5.0646	58.30512	37.41731	0.00000	0.10926	0.38092	0.33291	-0.39353	-0.046604	247.24
				5.5250	58.12701	36.99274	0.00000	0.072399	0.25242	0.22645	-0.26077	-0.030882	247.24
				5.9854	57.94891	36.56817	0.00000	0.035729	0.12457	0.11648	-0.12869	-0.015240	247.24
				6.4458	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0	0.0	247.24
		54	10S-02	0.0	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0	0.0	158.51
				0.38404	57.41346	36.28429	0.00000	0.0021292	0.0074234	0.010297	738.30E-6	-0.0076873	158.51
				0.76807	57.05613	36.42498	0.00000	0.0049053	0.017102	0.019626	0.0017009	-0.017710	158.51
				1.1521	56.69879	36.56566	0.00000	0.0075969	0.026408	0.028833	0.0026057	-0.027355	158.51
				1.5361	56.34145	36.70635	0.00000	0.010313	0.034323	0.037008	0.0029783	-0.035715	158.51
				1.9202	55.98411	36.84704	0.00000	0.012571	0.040065	0.043275	0.0029808	-0.041885	158.51
				2.3042	55.62678	36.98772	0.00000	0.014325	0.043730	0.047654	0.0026907	-0.045938	158.51
				2.6882	55.26944	37.12841	0.00000	0.015531	0.045417	0.050159	0.0021868	-0.047950	158.51
				3.0723	54.91210	37.26910	0.00000	0.016143	0.045229	0.050801	0.0015482	-0.047999	158.51
		55	10S-03	0.0	54.91210	37.26910	0.00000	0.016143	0.045229	0.050801	-0.047855	-0.0040266	245.55
				0.34208	54.77050	36.95770	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
				0.68417	54.62890	36.64630	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
				1.0262	54.48730	36.33490	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
				1.3683	54.34570	36.02350	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
				1.7104	54.20410	35.71210	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
				2.0525	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0	0.0	245.55
		56	10S-04	0.0	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				0.33357	54.36875	35.26848	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				0.66714	54.67500	35.13627	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				1.0007	54.98125	35.00405	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				1.3343	55.28750	34.87183	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				1.6679	55.59375	34.73962	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
				2.0014	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	0.0	336.65
		57	10S-05	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				0.46683	55.71496	34.17881	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				0.93366	55.52993	33.75021	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				1.4005	55.34489	33.32162	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				1.8673	55.15986	32.89303	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				2.3341	54.97482	32.46444	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				2.8010	54.78979	32.03584	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				3.2678	54.60475	31.60725	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				3.7346	54.41971	31.17866	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				4.2015	54.23468	30.75006	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				4.6683	54.04964	30.32147	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				5.1351	53.86461	29.89288	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				5.6020	53.67957	29.46429	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				6.0688	53.49454	29.03569	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
				6.5356	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	0.0	246.65
		58	10S-06	0.0	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				0.44988	52.88902	28.76706	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				0.89976	52.46854	28.92701	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				1.3496	52.04806	29.08697	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				1.7995	51.62758	29.24692	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				2.2494	51.20709	29.40688	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				2.6993	50.78661	29.56684	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				3.1491	50.36613	29.72679	0.00000	0.0	0.0	0.0	0.0	0.0	159.17

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				3.5990	49.94565	29.88675	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				4.0489	49.52517	30.04671	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				4.4988	49.10469	30.20666	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				4.9487	48.68421	30.36662	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				5.3985	48.26373	30.52658	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				5.8484	47.84324	30.68653	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				6.2983	47.42276	30.84649	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				6.7482	47.00228	31.00644	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
				7.1981	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0	0.0	159.17
		59	10S-07	0.0	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				0.47216	46.77181	31.59864	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				0.94432	46.96181	32.03089	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				1.4165	47.15182	32.46313	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				1.8886	47.34183	32.89538	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				2.3608	47.53183	33.32762	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				2.8330	47.72184	33.75986	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				3.3051	47.91184	34.19211	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				3.7773	48.10185	34.62435	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				4.2495	48.29186	35.05659	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				4.7216	48.48186	35.48884	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				5.1938	48.67187	35.92108	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				5.6659	48.86187	36.35332	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				6.1381	49.05188	36.78557	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				6.6103	49.24189	37.21781	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				7.0824	49.43189	37.65006	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				7.5546	49.62190	38.08230	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				8.0268	49.81191	38.51454	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				8.4989	50.00191	38.94679	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				8.9711	50.19192	39.37903	0.00000	0.0	0.0	0.0	0.0	0.0	66.271
				9.4432	50.38193	39.81127	0.00000	0.022707	0.035521	0.053065	0.041656	-0.0064932	66.271
				9.9154	50.57193	40.24352	0.00000	0.074565	0.11519	0.16296	0.13546	-0.021908	66.271
				10.388	50.76194	40.67576	0.00000	0.12690	0.19346	0.26862	0.22817	-0.038318	66.271
				10.860	50.95194	41.10801	0.00000	0.17973	0.27022	0.37187	0.31971	-0.055795	66.271
				11.332	51.14195	41.54025	0.00000	0.23312	0.34538	0.47436	0.40999	-0.074419	66.271
				11.804	51.33196	41.97249	0.00000	0.28708	0.41880	0.57754	0.49892	-0.094277	66.271
				12.276	51.52196	42.40474	0.00000	0.34168	0.49036	0.68273	0.58640	-0.11546	66.271
				12.748	51.71197	42.83698	0.00000	0.39696	0.55989	0.79104	0.67230	-0.13809	66.271
				13.221	51.90198	43.26922	0.00000	0.45297	0.62724	0.90343	0.75650	-0.16226	66.271
				13.693	52.09198	43.70147	0.00000	0.50978	0.69223	1.0207	0.83885	-0.18812	66.271
				14.165	52.28199	44.13371	0.00000	0.56746	0.75464	1.1434	0.91920	-0.21580	66.271
				14.637	52.47199	44.56596	0.00000	0.64741	0.84015	1.2721	1.0296	-0.25458	66.271
				15.109	52.66200	44.99820	0.00000	0.74914	0.94610	1.4069	1.1676	-0.30508	66.271
		60	10S-08	0.0	52.66200	44.99820	0.00000	0.74914	0.94610	1.4069	0.36135	1.1514	339.05
				0.45225	53.08435	44.83650	0.00000	0.76217	1.0323	1.4581	0.34269	1.2366	339.05
				0.90449	53.50670	44.67480	0.00000	0.77032	1.1193	1.5065	0.31920	1.3207	339.05
				1.3567	53.92905	44.51310	0.00000	0.77372	1.2065	1.5516	0.29119	1.4034	339.05
				1.8090	54.35140	44.35140	0.00000	0.77253	1.2934	1.5932	0.25901	1.4841	339.05
				2.2612	54.77375	44.18970	0.00000	0.76695	1.3794	1.6309	0.22305	1.5624	339.05
				2.7135	55.19610	44.02800	0.00000	0.75720	1.4638	1.6645	0.18377	1.6378	339.05
				3.1657	55.61845	43.86630	0.00000	0.74352	1.5459	1.6935	0.14164	1.7096	339.05
				3.6180	56.04080	43.70460	0.00000	0.72622	1.6250	1.7178	0.097178	1.7773	339.05
				4.0702	56.46315	43.54290	0.00000	0.70558	1.7004	1.7371	0.050949	1.8403	339.05
				4.5225	56.88550	43.38120	0.00000	0.68196	1.7714	1.7512	0.0035241	1.8981	339.05
				4.9747	57.30785	43.21950	0.00000	0.65570	1.8371	1.7600	-0.044499	1.9501	339.05
				5.4270	57.73020	43.05780	0.00000	0.62716	1.8969	1.7632	-0.092514	1.9957	339.05
				5.8792	58.15255	42.89610	0.00000	0.59674	1.9500	1.7609	-0.13991	2.0344	339.05
				6.3314	58.57490	42.73440	0.00000	0.57141	1.9922	1.7540	-0.17867	2.0648	339.05
				6.7837	58.99725	42.57270	0.00000	0.57766	2.0140	1.7498	-0.18063	2.0874	339.05
				7.2359	59.41960	42.41100	0.00000	0.58378	2.0353	1.7453	-0.18254	2.1095	339.05
				7.6882	59.84195	42.24930	0.00000	0.58976	2.0562	1.7406	-0.18441	2.1311	339.05
				8.1404	60.26430	42.08760	0.00000	0.59562	2.0766	1.7357	-0.18624	2.1523	339.05
		61	10S-09	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				0.43838	56.30750	34.44578	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				0.87676	56.71500	34.28416	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				1.3151	57.12250	34.12254	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				1.7535	57.53000	33.96092	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				2.1919	57.93750	33.79930	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				2.6303	58.34500	33.63768	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				3.0687	58.75250	33.47606	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				3.5070	59.16000	33.31444	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				3.9454	59.56750	33.15282	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
				4.3838	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0	0.0	338.37
		62	10S-10	0.0	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				0.46737	59.79820	32.55856	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				0.93475	59.62140	32.12591	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				1.4021	59.44460	31.69327	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				1.8695	59.26780	31.26063	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				2.3369	59.09100	30.82799	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				2.8042	58.91420	30.39534	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				3.2716	58.73740	29.96270	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				3.7390	58.56060	29.53006	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				4.2064	58.38380	29.09741	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				4.6737	58.20700	28.66477	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				5.1411	58.03020	28.23213	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				5.6085	57.85340	27.79949	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				6.0759	57.67660	27.36684	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
				6.5432	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0	0.0	247.77
		63	10S-11	0.0	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				0.45119	57.08077	27.10149	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				0.90238	56.66174	27.26878	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				1.3536	56.24271	27.43607	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				1.8048	55.82368	27.60336	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				2.2559	55.40465	27.77065	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				2.7071	54.98562	27.93794	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				3.1583	54.56659	28.10523	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				3.6095	54.14756	28.27252	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				4.0607	53.72853	28.43981	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
				4.5119	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	0.0	158.24
		64	12S-01	0.0	56.42810	52.89730	0.00000	3.7909	1.5989	4.6775	3.2154	2.5668	344.27
				0.49308	56.90271	52.76362	0.00000	3.7190	1.8576	4.7862	3.0761	2.7963	344.27
				0.98615	57.37732	52.62994	0.00000	3.6014	2.1529	4.8736	2.8828	3.0487	344.27
				1.4792	57.85193	52.49626	0.00000	3.4320	2.4884	4.9381	2.6289	3.3257	344.27
				1.9723	58.32654	52.36258	0.00000	3.3011	2.9388	5.0725	2.3807	3.7237	344.27
				2.4654	58.80115	52.22890	0.00000	3.1467	3.4618	5.2196	2.0903	4.1852	344.27
				2.9585	59.27576	52.09522	0.00000	2.9461	4.0392	5.3583	1.7407	4.6866	344.27
				3.4515	59.75037	51.96154	0.00000	2.7001	4.6635	5.4880	1.3346	5.2209	344.27
				3.9446	60.22498	51.82786	0.00000	2.4132	5.3210	5.6077	0.88019	5.7759	344.27
				4.4377	60.69959	51.69418	0.00000	2.0940	5.9912	5.7158	0.39122	6.3346	344.27
				4.9308	61.17420	51.56050	0.00000	1.8622	6.4925	5.8037	0.032250	6.7542	344.27
				5.4238	61.64881	51.42682	0.00000	1.8920	6.5965	5.8697	0.032767	6.8624	344.27
				5.9169	62.12342	51.29314	0.00000	1.9219	6.7006	5.9358	0.033284	6.9707	344.27
				6.4100	62.59803	51.15946	0.00000	1.9663	6.8006	6.0170	0.048955	7.0790	344.27
				6.9031	63.07264	51.02578	0.00000	2.1873	6.8508	6.1218	0.24800	7.1872	344.27
				7.3962	63.54725	50.89210	0.00000	2.4062	6.9016	6.2218	0.44492	7.2955	344.27
				7.8892	64.02186	50.75842	0.00000	2.6229	6.9530	6.3178	0.63964	7.4037	344.27
				8.3823	64.49647	50.62474	0.00000	2.8376	7.0051	6.4103	0.83211	7.5120	344.27
				8.8754	64.97108	50.49106	0.00000	3.0500	7.0578	6.4999	1.0223	7.6204	344.27
				9.3685	65.44569	50.35738	0.00000	3.2601	7.1112	6.5872	1.2100	7.7288	344.27
				9.8615	65.92030	50.22370	0.00000	3.4679	7.1654	6.6728	1.3954	7.8372	344.27
				10.355	66.39491	50.09002	0.00000	3.6733	7.2202	6.7572	1.5782	7.9456	344.27
				10.848	66.86952	49.95634	0.00000	3.8761	7.2757	6.8584	1.7584	8.0541	344.27
				11.341	67.34413	49.82266	0.00000	4.0765	7.3320	7.0071	1.9360	8.1626	344.27
				11.834	67.81874	49.68898	0.00000	4.2742	7.3891	7.1552	2.1108	8.2712	344.27
				12.327	68.29335	49.55530	0.00000	4.4467	7.3684	7.2530	2.2824	8.2980	344.27
				12.820	68.76796	49.42162	0.00000	4.5605	7.1538	7.2271	2.4502	8.1223	344.27
				13.313	69.24257	49.28794	0.00000	4.6715	6.9400	7.2015	2.6150	7.9465	344.27
				13.806	69.71718	49.15426	0.00000	4.7795	6.7269	7.1765	2.7767	7.7707	344.27
				14.299	70.19179	49.02058	0.00000	4.8844	6.5146	7.1524	2.9353	7.5949	344.27
				14.792	70.66640	48.88690	0.00000	4.9862	6.3032	7.1293	3.0905	7.4189	344.27
		65	12S-02	0.0	70.66640	48.88690	0.00000	4.9862	6.3032	7.1293	-7.8018	1.9299	245.55

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				0.47168	70.47116	48.45752	0.00000	4.7728	6.0815	6.9367	-7.5116	1.8274	245.55
				0.94336	70.27592	48.02815	0.00000	4.5622	5.8634	6.7194	-7.2259	1.7260	245.55
				1.4150	70.08067	47.59877	0.00000	4.3543	5.6487	6.4808	-6.9444	1.6256	245.55
				1.8867	69.88543	47.16940	0.00000	4.1491	5.4371	6.2240	-6.6668	1.5264	245.55
				2.3584	69.69019	46.74002	0.00000	3.9466	5.2283	5.9522	-6.3930	1.4284	245.55
				2.8301	69.49495	46.31065	0.00000	3.7466	5.0222	5.6682	-6.1226	1.3317	245.55
				3.3018	69.29971	45.88128	0.00000	3.5491	4.8184	5.3748	-5.8553	1.2363	245.55
				3.7734	69.10447	45.45190	0.00000	3.3540	4.6168	5.0746	-5.5910	1.1422	245.55
				4.2451	68.90922	45.02253	0.00000	3.1613	4.4170	4.7701	-5.3294	1.0495	245.55
				4.7168	68.71398	44.59315	0.00000	2.9710	4.2188	4.4634	-5.0702	0.95824	245.55
				5.1885	68.51874	44.16378	0.00000	2.7829	4.0220	4.1567	-4.8132	0.86847	245.55
				5.6602	68.32350	43.73440	0.00000	2.5970	3.8263	3.8519	-4.5581	0.78023	245.55
		66	12S-03	0.0	68.32350	43.73440	0.00000	2.5970	3.8263	3.8519	-1.2512	-4.4519	161.53
				0.27923	68.05865	43.82285	0.00000	2.5480	3.9143	3.8576	-1.1769	-4.5199	161.53
				0.55846	67.79380	43.91130	0.00000	2.4980	4.0028	3.8877	-1.1015	-4.5879	161.53
				0.83769	67.52895	43.99975	0.00000	2.4471	4.0917	3.9177	-1.0250	-4.6561	161.53
				1.1169	67.26410	44.08820	0.00000	2.3951	4.1810	3.9477	-0.94734	-4.7244	161.53
		67	12S-04	0.0	67.26410	44.08820	0.00000	2.3951	4.1810	3.9477	-4.7618	0.73662	248.99
				0.43774	67.10714	43.67957	0.00000	2.2285	3.9795	3.6889	-4.5139	0.65339	248.99
				0.87548	66.95018	43.27094	0.00000	2.0636	3.7791	3.4349	-4.2678	0.57129	248.99
				1.3132	66.79322	42.86231	0.00000	1.9003	3.5797	3.1868	-4.0231	0.49035	248.99
				1.7510	66.63626	42.45368	0.00000	1.7386	3.3811	2.9456	-3.7796	0.41060	248.99
				2.1887	66.47930	42.04505	0.00000	1.5783	3.1830	2.7122	-3.5372	0.33206	248.99
				2.6264	66.32234	41.63642	0.00000	1.4195	2.9852	2.4874	-3.2957	0.25475	248.99
				3.0642	66.16538	41.22779	0.00000	1.2622	2.7875	2.2716	-3.0547	0.17871	248.99
				3.5019	66.00842	40.81916	0.00000	1.1061	2.5898	2.0651	-2.8142	0.10394	248.99
				3.9396	65.85146	40.41053	0.00000	0.95137	2.3918	1.8682	-2.5739	0.030482	248.99
				4.3774	65.69450	40.00190	0.00000	0.79785	2.1933	1.6809	-2.3335	-0.041657	248.99
		68	12S-05	0.0	65.69450	40.00190	0.00000	0.79785	2.1933	1.6809	0.046740	-2.3335	158.86
				0.49007	65.23740	40.17862	0.00000	0.69885	2.2672	1.6800	0.16573	-2.3667	158.86
				0.98014	64.78030	40.35534	0.00000	0.64952	2.2645	1.6700	0.21077	-2.3464	158.86
				1.4702	64.32320	40.53206	0.00000	0.64494	2.2486	1.6781	0.20929	-2.3298	158.86
				1.9603	63.86610	40.70879	0.00000	0.64020	2.2321	1.6859	0.20775	-2.3127	158.86
				2.4504	63.40900	40.88551	0.00000	0.63531	2.2150	1.6936	0.20616	-2.2950	158.86
				2.9404	62.95190	41.06223	0.00000	0.63025	2.1973	1.7011	0.20452	-2.2768	158.86
				3.4305	62.49480	41.23895	0.00000	0.62503	2.1791	1.7084	0.20283	-2.2579	158.86
				3.9206	62.03770	41.41567	0.00000	0.61965	2.1604	1.7154	0.20108	-2.2385	158.86
				4.4107	61.58060	41.59239	0.00000	0.61411	2.1411	1.7222	0.19928	-2.2185	158.86
				4.9007	61.12350	41.76911	0.00000	0.60841	2.1212	1.7288	0.19743	-2.1979	158.86
				5.3908	60.66640	41.94584	0.00000	0.60255	2.1008	1.7351	0.19553	-2.1767	158.86
				5.8809	60.20930	42.12256	0.00000	0.59653	2.0798	1.7412	0.19358	-2.1550	158.86
				6.3709	59.75220	42.29928	0.00000	0.59034	2.0582	1.7471	0.19157	-2.1326	158.86
				6.8610	59.29510	42.47600	0.00000	0.58400	2.0361	1.7526	0.18951	-2.1097	158.86
				7.3511	58.83800	42.65272	0.00000	0.57750	2.0134	1.7580	0.18740	-2.0862	158.86
				7.8412	58.38090	42.82944	0.00000	0.58252	1.9834	1.7645	0.17190	-2.0600	158.86
				8.3312	57.92380	43.00616	0.00000	0.61673	1.9300	1.7705	0.12072	-2.0225	158.86
				8.8213	57.46670	43.18289	0.00000	0.64895	1.8683	1.7700	0.068421	-1.9766	158.86
				9.3114	57.00960	43.35961	0.00000	0.67868	1.7992	1.7629	0.015781	-1.9229	158.86
				9.8014	56.55250	43.53633	0.00000	0.70546	1.7237	1.7494	-0.036420	-1.8621	158.86
				10.292	56.09540	43.71305	0.00000	0.72882	1.6427	1.7297	-0.087413	-1.7950	158.86
				10.782	55.63830	43.88977	0.00000	0.74833	1.5572	1.7041	-0.13645	-1.7223	158.86
				11.272	55.18120	44.06649	0.00000	0.76359	1.4681	1.6729	-0.18282	-1.6447	158.86
				11.762	54.72410	44.24321	0.00000	0.77423	1.3763	1.6364	-0.22584	-1.5629	158.86
				12.252	54.26700	44.41994	0.00000	0.77993	1.2827	1.5949	-0.26491	-1.4777	158.86
				12.742	53.80990	44.59666	0.00000	0.78042	1.1882	1.5489	-0.29945	-1.3897	158.86
				13.232	53.35280	44.77338	0.00000	0.77545	1.0935	1.4989	-0.32897	-1.2995	158.86
				13.722	52.89570	44.95010	0.00000	0.76483	0.99927	1.4452	-0.35303	-1.2078	158.86
		69	12S-06	0.0	52.89570	44.95010	0.00000	0.76483	0.99927	1.4452	1.2238	-0.29303	66.036
				0.48316	53.09194	45.39161	0.00000	0.87030	1.1067	1.5929	1.3648	-0.34577	66.036
				0.96632	53.28819	45.83312	0.00000	0.97830	1.2093	1.7473	1.5024	-0.40280	66.036
				1.4495	53.48443	46.27463	0.00000	1.0892	1.3066	1.9082	1.6364	-0.46461	66.036
				1.9326	53.68068	46.71614	0.00000	1.2034	1.3981	2.0752	1.7664	-0.53176	66.036
				2.4158	53.87692	47.15766	0.00000	1.3213	1.4833	2.2476	1.8921	-0.60489	66.036
				2.8990	54.07317	47.59917	0.00000	1.4434	1.5614	2.4246	2.0130	-0.68475	66.036
				3.3821	54.26941	48.04068	0.00000	1.5702	1.6315	2.6053	2.1286	-0.77216	66.036
				3.8653	54.46566	48.48219	0.00000	1.7023	1.6927	2.7886	2.2382	-0.86809	66.036
				4.3484	54.66190	48.92370	0.00000	1.8405	1.7436	2.9731	2.3408	-0.97365	66.036
				4.8316	54.85814	49.36521	0.00000	1.9854	1.7829	3.1574	2.4356	-1.0901	66.036
				5.3148	55.05439	49.80672	0.00000	2.1379	1.8087	3.3400	2.5212	-1.2189	66.036
				5.7979	55.25063	50.24823	0.00000	2.2989	1.8192	3.5192	2.5962	-1.3618	66.036
				6.2811	55.44688	50.68974	0.00000	2.4809	1.8204	3.7025	2.6711	-1.5276	66.036
				6.7642	55.64312	51.13126	0.00000	2.6999	1.8207	3.9023	2.7604	-1.7276	66.036
				7.2474	55.83937	51.57277	0.00000	2.9378	1.8021	4.1009	2.8400	-1.9525	66.036
				7.7306	56.03561	52.01428	0.00000	3.1970	1.7615	4.2970	2.9082	-2.2060	66.036
				8.2137	56.23186	52.45579	0.00000	3.4804	1.6951	4.4896	2.9626	-2.4919	66.036
				8.6969	56.42810	52.89730	0.00000	3.7909	1.5989	4.6775	3.0009	-2.8147	66.036
		70	14S-01	0.0	92.77120	50.75620	0.00000	11.119	-1.2854	11.043	11.178	-0.58016	356.38
				0.48973	93.25995	50.72525	0.00000	11.306	-1.1601	11.137	11.356	-0.44324	356.38
				0.97946	93.74870	50.69430	0.00000	11.480	-1.0253	11.227	11.522	-0.29772	356.38
				1.4692	94.23745	50.66335	0.00000	11.641	-0.88035	11.311	11.673	-0.14292	356.38
				1.9589	94.72620	50.63240	0.00000	11.786	-0.72442	11.387	11.809	0.021913	356.38
				2.4486	95.21495	50.60145	0.00000	11.916	-0.55660	11.452	11.928	0.19760	356.38
				2.9384	95.70370	50.57050	0.00000	12.029	-0.37592	11.504	12.029	0.38503	356.38
				3.4281	96.19245	50.53955	0.00000	12.122	-0.18128	11.539	12.110	0.58519	356.38
				3.9178	96.68120	50.50860	0.00000	12.140	0.029700	11.622	12.114	0.79685	356.38
				4.4076	97.16995	50.47765	0.00000	12.094	0.25802	11.743	12.053	1.0218	356.38
				4.8973	97.65870	50.44670	0.00000	12.023	0.50418	11.847	11.967	1.2630	356.38
				5.3870	98.14745	50.41575	0.00000	11.926	0.76974	11.933	11.854	1.5219	356.38
				5.8767	98.63620	50.38480	0.00000	11.800	1.0564	12.001	11.709	1.8000	356.38
		71	14S-02	0.0	98.63620	50.38480	0.00000	11.800	1.0564	12.001	-1.3480	11.770	268.58
				0.49211	98.62403	49.89284	0.00000	11.106	1.3565	11.510	-1.6308	11.069	268.58
				0.98421	98.61185	49.40089	0.00000	10.649	1.6572	11.184	-1.9202	10.605	268.58
				1.4763	98.59968	48.90893	0.00000	10.226	1.9320	10.867	-2.1844	10.176	268.58
				1.9684	98.58751	48.41697	0.00000	9.8149	2.1784	10.543	-2.4205	9.7580	268.58
				2.4605	98.57533	47.92502	0.00000	9.4149	2.3969	10.212	-2.6290	9.3527	268.58
				2.9526	98.56316	47.43306	0.00000	9.0264	2.5881	9.8745	-2.8106	8.9597	268.58
				3.4448	98.55099	46.94110	0.00000	8.6495	2.7528	9.5328	-2.9659	8.5788	268.58
				3.9369	98.53881	46.44915	0.00000	8.2839	2.8917	9.1875	-3.0958	8.2099	268.58
				4.4290	98.52664	45.95719	0.00000	7.9295	3.0059	8.8398	-3.2011	7.8527	268.58
				4.9211	98.51447	45.46523	0.00000	7.5859	3.0961	8.4908	-3.2828	7.5070	268.58
				5.4132	98.50229	44.97328	0.00000	7.2529	3.1635	8.1416	-3.3419	7.1725	268.58
				5.9053	98.49012	44.48132	0.00000	6.9302	3.2088	7.7936	-3.3793	6.8487	268.58
				6.3974	98.47795	43.98936	0.00000	6.6173	3.2332	7.4479	-3.3959	6.5353	268.58
				6.8895	98.46577	43.49741	0.00000	6.3140	3.2374	7.1055	-3.3927	6.2320	268.58
				7.3816	98.45360	43.00545	0.00000	6.0199	3.2226	6.7677	-3.3705	5.9383	268.58
				7.8737	98.44143	42.51349	0.00000	5.7345	3.1895	6.4354	-3.3304	5.6539	268.58
				8.3658	98.42925	42.02154	0.00000	5.4576	3.1390	6.1096	-3.2731	5.3783	268.58
				8.8579	98.41708	41.52958	0.00000	5.1887	3.0720	5.7912	-3.1994	5.1111	268.58
				9.3500	98.40491	41.03762	0.00000	4.9275	2.9892	5.4809	-3.1102	4.8520	268.58
				9.8421	98.39273	40.54567	0.00000	4.6736	2.8915	5.1796	-3.0062	4.6006	268.58
				10.334	98.38056	40.05371	0.00000	4.4267	2.7794	4.8878	-2.8880	4.3566	268.58
				10.826	98.36839	39.56175	0.00000	4.1864	2.6537	4.6059	-2.7565	4.1195	268.58
				11.318	98.35621	39.06980	0.00000	3.9524	2.5150	4.3343	-2.6120	3.8890	268.58
				11.811	98.34404	38.57784	0.00000	3.7244	2.3640	4.0732	-2.4554	3.6648	268.58
				12.303	98.33187	38.08588	0.00000	3.5021	2.2011	3.8228	-2.2871	3.4466	268.58
				12.795	98.31969	37.59393	0.00000	3.2853	2.0269	3.5828	-2.1076	3.2341	268.58
				13.287	98.30752	37.10197	0.00000	3.0786	1.8597	3.3532	-1.9353	3.0317	268.58
				13.779	98.29535	36.61001	0.00000	2.8891	1.7243	3.1336	-1.7952	2.8456	268.58
				14.271	98.28317	36.11806	0.00000	2.7045	1.5804	2.9233	-1.6468	2.6646	268.58
				14.763	98.27100	35.62610	0.00000	2.5248	1.4283	2.7218	-1.4903	2.4887	268.58
		72	14S-03	0.0	98.27100	35.62610	0.00000	2.5248	1.4283	2.7218	-2.4321	-1.5809	176.47
				0.43680	97.83503	35.65297	0.00000	2.5962	1.2708	2.7305	-2.5131	-1.4281	176.47
				0.87360	97.39906	35.67984	0.00000	2.6623	1.1154	2.7352	-2.5887	-1.2771	176.47
				1.3104	96.96309	35.70671	0.00000	2.7233	0.96236	2.7357	-2.6589	-1.1281	176.47
				1.7472	96.52711	35.73359	0.00000	2.7790	0.81181	2.7321	-2.7238	-0.98124	176.47
				2.1840	96.09114	35.76046	0.00000	2.8295	0.66386	2.7243	-2.7833	-0.83667	176.47
				2.6208	95.65517	35.78733	0.00000	2.8749	0.51861	2.7123	-2.8376	-0.69449	176.47
				3.0576	95.21920	35.81420	0.00000	2.9152	0.37615	2.6959	-2.8865	-0.55477	176.47
				3.4944	94.78323	35.84107	0.00000	2.9503	0.23656	2.6752	-2.9302	-0.41762	176.47
				3.9312	94.34726	35.86794	0.00000	2.9805	0.099922	2.6500	-2.9687	-0.28309	176.47

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				4.3680	93.91129	35.89481	0.00000	3.0056	-0.033715	2.6202	-3.0020	-0.15125	176.47
				4.8048	93.47531	35.92169	0.00000	3.0259	-0.16430	2.5857	-3.0303	-0.022158	176.47
				5.2416	93.03934	35.94856	0.00000	3.0413	-0.29180	2.5463	-3.0535	0.10415	176.47
				5.6784	92.60337	35.97543	0.00000	3.0519	-0.41618	2.5019	-3.0717	0.22764	176.47
				6.1152	92.16740	36.00230	0.00000	3.0578	-0.53741	2.4524	-3.0851	0.34828	176.47
		73	14S-04	0.0	92.16740	36.00230	0.00000	3.0578	-0.53741	2.4524	0.84806	2.9866	275.88
				0.37863	92.20622	35.62567	0.00000	2.9168	-0.60276	2.3133	0.89861	2.8396	275.88
				0.75726	92.24503	35.24903	0.00000	2.7776	-0.67259	2.1732	0.95381	2.6940	275.88
				1.1359	92.28385	34.87240	0.00000	2.6406	-0.74556	2.0254	1.0123	2.5503	275.88
				1.5145	92.32267	34.49577	0.00000	2.5364	-0.71612	1.9071	0.97237	2.4496	275.88
				1.8931	92.36148	34.11913	0.00000	2.4349	-0.68746	1.7906	0.93346	2.3515	275.88
				2.2718	92.40030	33.74250	0.00000	2.3361	-0.65957	1.6757	0.89559	2.2562	275.88
		74	14S-05	0.0	92.40030	33.74250	0.00000	2.3361	-0.65957	1.6757	-2.2562	0.89562	185.88
				0.41939	91.98313	33.69950	0.00000	2.3513	-0.66386	1.6266	-2.2708	0.90145	185.88
				0.83877	91.56595	33.65650	0.00000	2.3624	-0.66700	1.5750	-2.2816	0.90570	185.88
				1.2582	91.14878	33.61350	0.00000	2.3695	-0.66900	1.5210	-2.2884	0.90842	185.88
				1.6775	90.73160	33.57050	0.00000	2.3726	-0.66990	1.4649	-2.2915	0.90964	185.88
				2.0969	90.31442	33.52750	0.00000	2.3720	-0.66970	1.4508	-2.2908	0.90937	185.88
				2.5163	89.89725	33.48450	0.00000	2.3675	-0.66844	1.4344	-2.2865	0.90765	185.88
				2.9357	89.48007	33.44150	0.00000	2.3593	-0.66613	1.4159	-2.2786	0.90452	185.88
				3.3551	89.06290	33.39850	0.00000	2.3475	-0.66279	1.3954	-2.2672	0.89999	185.88
				3.7745	88.64572	33.35550	0.00000	2.3321	-0.65846	1.3730	-2.2523	0.89410	185.88
				4.1939	88.22855	33.31250	0.00000	2.3133	-0.65313	1.3489	-2.2341	0.88688	185.88
				4.6132	87.81137	33.26950	0.00000	2.2910	-0.64685	1.3233	-2.2126	0.87834	185.88
				5.0326	87.39420	33.22650	0.00000	2.2654	-0.63962	1.2961	-2.1879	0.86852	185.88
		75	14S-06	0.0	87.39420	33.22650	0.00000	2.2654	-0.63962	1.2961	-2.0749	1.1118	192.42
				0.41438	86.98952	33.13740	0.00000	2.2262	-0.62855	1.2610	-2.0390	1.0925	192.42
				0.82875	86.58483	33.04830	0.00000	2.1946	-0.61963	1.2250	-2.0100	1.0770	192.42
				1.2431	86.18015	32.95920	0.00000	2.1698	-0.61261	1.1884	-1.9873	1.0648	192.42
				1.6575	85.77547	32.87010	0.00000	2.1428	-0.60500	1.1512	-1.9626	1.0516	192.42
				2.0719	85.37078	32.78100	0.00000	2.1138	-0.59681	1.1135	-1.9360	1.0374	192.42
				2.4863	84.96610	32.69190	0.00000	2.0828	-0.58806	1.0755	-1.9076	1.0221	192.42
		76	14S-07	0.0	84.96610	32.69190	0.00000	2.0828	-0.58806	1.0755	-0.81878	-2.0034	96.463
				0.45451	84.91494	33.14352	0.00000	2.1666	-0.61173	1.1358	-0.85174	-2.0840	96.463
				0.90902	84.86377	33.59514	0.00000	2.2488	-0.62465	1.2258	-0.87383	-2.1642	96.463
				1.3635	84.81261	34.04676	0.00000	2.3224	-0.60592	1.3884	-0.86350	-2.2394	96.463
				1.8180	84.76144	34.49839	0.00000	2.3969	-0.58867	1.5500	-0.85475	-2.3154	96.463
				2.2726	84.71028	34.95001	0.00000	2.4722	-0.57298	1.7117	-0.84763	-2.3920	96.463
				2.7271	84.65911	35.40163	0.00000	2.5482	-0.55891	1.8744	-0.84221	-2.4691	96.463
				3.1816	84.60795	35.85325	0.00000	2.6377	-0.55016	2.0389	-0.84359	-2.5590	96.463
				3.6361	84.55679	36.30487	0.00000	2.7315	-0.54422	2.2060	-0.84825	-2.6529	96.463
				4.0906	84.50562	36.75649	0.00000	2.8261	-0.54023	2.3761	-0.85493	-2.7473	96.463
				4.5451	84.45446	37.20811	0.00000	2.9214	-0.53828	2.5499	-0.86372	-2.8422	96.463
				4.9996	84.40329	37.65974	0.00000	3.0172	-0.53846	2.7276	-0.87468	-2.9374	96.463
				5.4541	84.35213	38.11136	0.00000	3.1134	-0.54088	2.9097	-0.88791	-3.0327	96.463
				5.9086	84.30096	38.56298	0.00000	3.2099	-0.54565	3.0963	-0.90352	-3.1280	96.463
				6.3631	84.24980	39.01460	0.00000	3.2964	-0.53533	3.2874	-0.90301	-3.2152	96.463
		77	14S-08	0.0	84.24980	39.01460	0.00000	3.2964	-0.53533	3.2874	3.2358	-0.82617	5.0987
				0.47266	84.72059	39.05661	0.00000	3.3772	-0.61248	3.3029	3.3094	-0.91019	5.0987
				0.94533	85.19139	39.09861	0.00000	3.4467	-0.66968	3.3160	3.3735	-0.97334	5.0987
				1.4180	85.66218	39.14062	0.00000	3.5147	-0.72440	3.3268	3.4364	-1.0339	5.0987
				1.8907	86.13297	39.18263	0.00000	3.5782	-0.77253	3.3802	3.4954	-1.0875	5.0987
				2.3633	86.60377	39.22463	0.00000	3.6392	-0.81683	3.4349	3.5522	-1.1370	5.0987
				2.8360	87.07456	39.26664	0.00000	3.6989	-0.85926	3.4871	3.6079	-1.1846	5.0987
				3.3086	87.54536	39.30864	0.00000	3.7573	-0.89974	3.5368	3.6625	-1.2301	5.0987
				3.7813	88.01615	39.35065	0.00000	3.8141	-0.93798	3.5889	3.7156	-1.2732	5.0987
				4.2540	88.48694	39.39266	0.00000	3.9037	-0.85457	3.6570	3.8123	-1.1981	5.0987
				4.7266	88.95774	39.43466	0.00000	3.9920	-0.76610	3.7185	3.9081	-1.1178	5.0987
				5.1993	89.42853	39.47667	0.00000	4.0788	-0.67243	3.7740	4.0029	-1.0323	5.0987
				5.6720	89.89933	39.51868	0.00000	4.1638	-0.57339	3.8235	4.0964	-0.94117	5.0987
				6.1446	90.37012	39.56068	0.00000	4.2469	-0.46883	3.8674	4.1884	-0.84440	5.0987
				6.6173	90.84091	39.60269	0.00000	4.3276	-0.35860	3.9057	4.2786	-0.74178	5.0987
				7.0900	91.31171	39.64469	0.00000	4.4058	-0.24253	3.9382	4.3668	-0.63312	5.0987
				7.5626	91.78250	39.68670	0.00000	4.4811	-0.12046	3.9649	4.4526	-0.51822	5.0987
		78	14S-09	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	3.9649	-0.53008	-4.4512	95.251
				0.45206	91.74112	40.13687	0.00000	4.6418	-0.089190	4.2110	-0.51366	-4.6142	95.251
				0.90413	91.69975	40.58703	0.00000	4.8042	-0.066521	4.4572	-0.50594	-4.7779	95.251
				1.3562	91.65838	41.03720	0.00000	4.9680	-0.052546	4.7039	-0.50702	-4.9424	95.251
				1.8083	91.61700	41.48737	0.00000	5.1333	-0.047345	4.9512	-0.51697	-5.1075	95.251
				2.2603	91.57563	41.93753	0.00000	5.3001	-0.050983	5.1993	-0.53586	-5.2732	95.251
				2.7124	91.53425	42.38770	0.00000	5.4683	-0.063508	5.4481	-0.56372	-5.4395	95.251
				3.1644	91.49287	42.83787	0.00000	5.6378	-0.084948	5.6977	-0.60058	-5.6063	95.251
				3.6165	91.45150	43.28803	0.00000	5.8085	-0.11531	5.9478	-0.64645	-5.7736	95.251
				4.0686	91.41012	43.73820	0.00000	5.9806	-0.15458	6.1983	-0.70130	-5.9413	95.251
				4.5206	91.36875	44.18837	0.00000	6.1550	-0.19847	6.4489	-0.76097	-6.1110	95.251
				4.9727	91.32738	44.63853	0.00000	6.3345	-0.23719	6.6991	-0.81596	-6.2862	95.251
				5.4248	91.28600	45.08870	0.00000	6.5147	-0.28607	6.9487	-0.88112	-6.4612	95.251
		79	14S-10	0.0	91.28600	45.08870	0.00000	6.5147	-0.28607	6.9487	6.4861	-0.67392	3.4176
				0.36863	91.65398	45.11068	0.00000	6.6270	-0.17838	6.9994	6.6046	-0.57311	3.4176
				0.73726	92.02195	45.13265	0.00000	6.7375	-0.065489	7.0512	6.7216	-0.46701	3.4176
				1.1059	92.38993	45.15463	0.00000	6.8458	0.052771	7.1039	6.8367	-0.35542	3.4176
				1.4745	92.75790	45.17660	0.00000	6.9517	0.17659	7.1573	6.9499	-0.23813	3.4176
		80	14S-11	0.0	92.75790	45.17660	0.00000	6.9517	0.17659	7.1573	0.19316	-6.9513	89.863
				0.46497	92.75901	45.64157	0.00000	7.1759	0.011668	7.4330	0.13379	-7.1756	89.863
				0.92994	92.76012	46.10653	0.00000	7.4035	0.044195	7.7074	0.061843	-7.4034	89.863
				1.3949	92.76122	46.57150	0.00000	7.6344	-0.040806	7.9801	-0.022608	-7.6345	89.863
				1.8599	92.76233	47.03647	0.00000	7.9850	-0.13745	8.3181	-0.11842	-7.9853	89.863
				2.3248	92.76344	47.50143	0.00000	8.3496	-0.24508	8.6609	-0.22518	-8.3501	89.863
				2.7898	92.76455	47.96640	0.00000	8.7224	-0.36353	9.0044	-0.34274	-8.7232	89.863
				3.2548	92.76566	48.43137	0.00000	9.1032	-0.49257	9.3481	-0.47087	-9.1043	89.863
				3.7197	92.76677	48.89633	0.00000	9.4918	-0.63195	9.6912	-0.60932	-9.4933	89.863
				4.1847	92.76788	49.36130	0.00000	9.8881	-0.78132	10.033	-0.75775	-9.8899	89.863
				4.6497	92.76898	49.82627	0.00000	10.292	-0.94032	10.373	-0.91579	-10.294	89.863
				5.1146	92.77009	50.29123	0.00000	10.702	-1.1085	10.710	-1.0830	-10.705	89.863
				5.5796	92.77120	50.75620	0.00000	11.119	-1.2854	11.043	-1.2589	-11.122	89.863
		81	14S-12	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	3.9649	0.58540	4.4443	275.96
				0.46306	91.83061	39.22615	0.00000	4.3189	-0.15976	3.7128	0.60763	4.2789	275.96
				0.92611	91.87873	38.76560	0.00000	4.1498	-0.20281	3.4792	0.63289	4.1063	275.96
				1.3892	91.92684	38.30505	0.00000	3.9607	-0.24044	3.3049	0.65066	3.9143	275.96
				1.8522	91.97495	37.84450	0.00000	3.7744	-0.28547	3.1324	0.67609	3.7243	275.96
				2.3153	92.02306	37.38395	0.00000	3.5910	-0.33780	2.9614	0.70908	3.5365	275.96
				2.7783	92.07117	36.92340	0.00000	3.4105	-0.39731	2.7913	0.74951	3.3507	275.96
				3.2414	92.11929	36.46285	0.00000	3.2327	-0.46389	2.6219	0.79727	3.1670	275.96
				3.7045	92.16740	36.00230	0.00000	3.0578	-0.53741	2.4524	0.85222	2.9854	275.96
		82	18S-01	0.0	81.33400	88.63190	0.00000	6.1698	-2.8620	5.0859	1.1414	-6.7048	55.454
				0.49752	81.61613	89.04169	0.00000	6.2437	-2.7857	4.9616	1.2462	-6.7224	55.454
				0.99503	81.89826	89.45148	0.00000	6.3137	-2.7089	4.8308	1.3491	-6.7366	55.454
				1.4926	82.18038	89.86127	0.00000	6.3758	-2.6348	4.6988	1.4453	-6.7456	55.454
				1.9901	82.46251	90.27106	0.00000	6.4135	-2.5771	4.5945	1.5142	-6.7440	55.454
				2.4876	82.74464	90.68084	0.00000	6.4450	-2.5201	4.4882	1.5791	-6.7376	55.454
				2.9851	83.02677	91.09063	0.00000	6.4704	-2.4635	4.3800	1.6401	-6.7264	55.454
				3.4826	83.30889	91.50042	0.00000	6.4899	-2.4070	4.2701	1.6977	-6.7104	55.454
				3.9801	83.59102	91.91021	0.00000	6.5036	-2.3503	4.1586	1.7522	-6.6896	55.454
				4.4777	83.87315	92.32000	0.00000	6.5118	-2.2932	4.0455	1.8039	-6.6640	55.454
				4.9752	84.15528	92.72979	0.00000	6.5147	-2.2354	3.9310	1.8531	-6.6336	55.454
				5.4727	84.43741	93.13958	0.00000	6.5063	-2.1876	3.8150	1.8877	-6.5996	55.454
				5.9702	84.71953	93.54937	0.00000	6.4640	-2.1903	3.6974	1.8615	-6.5662	55.454
				6.4677	85.00166	93.95916	0.00000	6.4168	-2.1916	3.5782	1.8336	-6.5281	55.454
				6.9652	85.28379	94.36894	0.00000	6.3650	-2.1916	3.4571	1.8042	-6.4854	55.454
				7.4628	85.56592	94.77873	0.00000	6.3086	-2.1903	3.3340	1.7733	-6.4383	55.454
				7.9603	85.84804	95.18852	0.00000	6.2480	-2.1877	3.2087	1.7411	-6.3869	55.454
				8.4578	86.13017	95.59831	0.00000	6.1832	-2.1838	3.0808	1.7076	-6.3313	55.454
				8.9553	86.41230	96.00810	0.00000	6.1145	-2.1786	2.9501	1.6729	-6.2717	55.454
		83	18S-02	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	2.9501	6.3052	1.5421	326.65
				0.48923	86.82094	95.73911	0.00000	6.3478	-2.2694	3.1395	6.5500	1.5945	326.65
				0.97846	87.22959	95.47012	0.00000	6.5821	-2.3602	3.3345	6.7957	1.6475	326.65
				1.4677	87.63823	95.20114	0.00000	6.8178	-2.4510	3.5352	7.0424	1.7012	326.65
				1.9569	88.04688	94.93215	0.00000	7.0549	-2.5419	3.7418	7.2904	1.7557	326.65
				2.4461	88.45552	94.66316	0.00000	7.3315	-2.6434	3.9543	7.5773	1.8230	326.65
				2.9354	88.86416	94.39418	0.00000	7.6367	-2.7525	4.1729	7.8922	1.8997	326.65

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				3.4246	89.27281	94.12519	0.00000	7.9438	-2.8617	4.3976	8.2088	1.9774	326.65
				3.9138	89.68145	93.85620	0.00000	8.2532	-2.9709	4.6283	8.5272	2.0562	326.65
				4.4031	90.09009	93.58721	0.00000	8.5649	-3.0802	4.8652	8.8477	2.1364	326.65
				4.8923	90.49874	93.31822	0.00000	8.8792	-3.1895	5.1081	9.1703	2.2178	326.65
				5.3815	90.90738	93.04924	0.00000	9.1963	-3.2990	5.3653	9.4953	2.3007	326.65
				5.8707	91.31602	92.78025	0.00000	9.5162	-3.4085	5.6413	9.8228	2.3851	326.65
				6.3600	91.72467	92.51126	0.00000	9.8383	-3.5182	5.9230	10.152	2.4706	326.65
				6.8492	92.13331	92.24228	0.00000	10.164	-3.6280	6.2099	10.485	2.5580	326.65
				7.3384	92.54196	91.97329	0.00000	10.494	-3.7380	6.5018	10.821	2.6475	326.65
				7.8276	92.95060	91.70430	0.00000	10.821	-3.8481	6.8091	11.155	2.7355	326.65
		84	18S-03	0.0	92.95060	91.70430	0.00000	10.821	-3.8481	6.8091	-2.7389	11.154	236.63
				0.35410	92.75582	91.40858	0.00000	10.950	-3.8572	6.9422	-2.8021	11.266	236.63
				0.70821	92.56103	91.11287	0.00000	11.067	-3.8651	7.0812	-2.8600	11.369	236.63
				1.0623	92.36625	90.81715	0.00000	11.180	-3.8720	7.2154	-2.9164	11.467	236.63
				1.4164	92.17147	90.52143	0.00000	11.289	-3.8779	7.3452	-2.9711	11.560	236.63
				1.7705	91.97668	90.22572	0.00000	11.392	-3.8826	7.4708	-3.0239	11.649	236.63
				2.1246	91.78190	89.93000	0.00000	11.490	-3.8863	7.5924	-3.0748	11.733	236.63
		85	18S-04	0.0	91.78190	89.93000	0.00000	11.490	-3.8863	7.5924	-11.722	-3.1171	146.42
				0.43664	91.41813	90.17150	0.00000	11.159	-3.7861	7.3095	-11.390	-3.0173	146.42
				0.87328	91.05435	90.41300	0.00000	10.832	-3.6862	7.0316	-11.063	-2.9202	146.42
				1.3099	90.69057	90.65450	0.00000	10.511	-3.5864	6.7589	-10.741	-2.8257	146.42
				1.7466	90.32680	90.89600	0.00000	10.195	-3.4868	6.4914	-10.422	-2.7338	146.42
		86	18S-05	0.0	90.32680	90.89600	0.00000	10.195	-3.4868	6.4914	-2.7735	10.412	236.20
				0.49179	90.05324	90.48731	0.00000	10.294	-3.4880	6.6435	-2.8277	10.495	236.20
				0.98359	89.77967	90.07863	0.00000	10.384	-3.4873	6.7910	-2.8780	10.569	236.20
				1.4754	89.50611	89.66994	0.00000	10.462	-3.4845	6.9344	-2.9239	10.632	236.20
				1.9672	89.23254	89.26126	0.00000	10.529	-3.4798	7.0743	-2.9653	10.686	236.20
				2.4590	88.95898	88.85257	0.00000	10.585	-3.4731	7.2111	-3.0018	10.728	236.20
				2.9508	88.68541	88.44389	0.00000	10.592	-3.4876	7.3453	-2.9934	10.742	236.20
				3.4426	88.41185	88.03520	0.00000	10.569	-3.5086	7.4774	-2.9633	10.734	236.20
				3.9344	88.13829	87.62651	0.00000	10.531	-3.5258	7.6078	-2.9281	10.713	236.20
				4.4261	87.86472	87.21783	0.00000	10.478	-3.5394	7.7372	-2.8873	10.676	236.20
				4.9179	87.59116	86.80914	0.00000	10.409	-3.5490	7.8663	-2.8406	10.624	236.20
				5.4097	87.31759	86.40046	0.00000	10.322	-3.5545	7.9943	-2.7877	10.555	236.20
				5.9015	87.04403	85.99177	0.00000	10.217	-3.5558	8.1216	-2.7282	10.468	236.20
				6.3933	86.77046	85.58309	0.00000	10.092	-3.5530	8.2483	-2.6615	10.363	236.20
				6.8851	86.49690	85.17440	0.00000	9.9695	-3.5454	8.3607	-2.5661	10.279	236.20
		87	20S-01	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	2.9501	-6.3169	-1.4932	147.09
				0.37387	86.09843	96.21123	0.00000	5.9373	-2.1093	2.8097	-6.1305	-1.4551	147.09
				0.74773	85.78457	96.41437	0.00000	5.7605	-2.0399	2.6724	-5.9444	-1.4173	147.09
				1.1216	85.47070	96.61750	0.00000	5.5840	-1.9706	2.5380	-5.7586	-1.3796	147.09
				1.4955	85.15683	96.82063	0.00000	5.4079	-1.9013	2.4064	-5.5730	-1.3421	147.09
				1.8693	84.84297	97.02377	0.00000	5.2320	-1.8319	2.2776	-5.3877	-1.3048	147.09
				2.2432	84.52910	97.22690	0.00000	5.0562	-1.7626	2.1513	-5.2024	-1.2674	147.09
		88	20S-02	0.0	84.52910	97.22690	0.00000	5.0562	-1.7626	2.1513	1.3085	-5.1922	56.637
				0.44166	84.77199	97.59577	0.00000	5.0010	-1.7557	2.0412	1.2840	-5.1424	56.637
				0.88331	85.01487	97.96464	0.00000	4.9438	-1.7478	1.9290	1.2591	-5.0902	56.637
				1.3250	85.25776	98.33351	0.00000	4.8826	-1.7389	1.8232	1.2329	-5.0343	56.637
				1.7666	85.50064	98.70239	0.00000	4.8030	-1.7291	1.7981	1.1973	-4.9624	56.637
				2.2083	85.74353	99.07126	0.00000	4.7212	-1.7183	1.7715	1.1613	-4.8881	56.637
				2.6499	85.98641	99.44013	0.00000	4.6374	-1.7065	1.7436	1.1250	-4.8117	56.637
				3.0916	86.22930	99.80900	0.00000	4.5518	-1.6939	1.7144	1.0885	-4.7332	56.637
				3.5332	86.47219	100.17787	0.00000	4.4644	-1.6802	1.6840	1.0518	-4.6527	56.637
				3.9749	86.71507	100.54674	0.00000	4.3753	-1.6656	1.6525	1.0150	-4.5703	56.637
				4.4166	86.95796	100.91561	0.00000	4.2848	-1.6501	1.6200	0.97823	-4.4862	56.637
				4.8582	87.20084	101.28449	0.00000	4.1930	-1.6337	1.5865	0.94146	-4.4004	56.637
				5.2999	87.44373	101.65336	0.00000	4.0999	-1.6163	1.5521	0.90480	-4.3131	56.637
				5.7415	87.68661	102.02223	0.00000	4.0058	-1.5980	1.5169	0.86832	-4.2244	56.637
				6.1832	87.92950	102.39110	0.00000	3.9107	-1.5788	1.4810	0.83208	-4.1345	56.637
		89	20S-03	0.0	87.92950	102.39110	0.00000	3.9107	-1.5788	1.4810	4.1345	0.83206	326.64
				0.45803	88.31205	102.13921	0.00000	4.0734	-1.6615	1.5918	4.3158	0.85246	326.64
				0.91605	88.69459	101.88733	0.00000	4.2348	-1.7441	1.7068	4.4961	0.87219	326.64
				1.3741	89.07714	101.63544	0.00000	4.3949	-1.8267	1.8262	4.6752	0.89123	326.64
				1.8321	89.45968	101.38355	0.00000	4.5535	-1.9093	1.9501	4.8531	0.90955	326.64
				2.2901	89.84223	101.13167	0.00000	4.7107	-1.9917	2.0787	5.0298	0.92712	326.64
				2.7482	90.22477	100.87978	0.00000	4.8664	-2.0742	2.2120	5.2051	0.94391	326.64
				3.2062	90.60732	100.62790	0.00000	5.0206	-2.1565	2.3502	5.3792	0.95989	326.64
				3.6642	90.98986	100.37601	0.00000	5.1731	-2.2388	2.4933	5.5518	0.97504	326.64
				4.1222	91.37241	100.12412	0.00000	5.3239	-2.3210	2.6414	5.7230	0.98931	326.64
				4.5803	91.75495	99.87224	0.00000	5.4730	-2.4032	2.7944	5.8927	1.0027	326.64
				5.0383	92.13750	99.62035	0.00000	5.6410	-2.4911	2.9524	6.0814	1.0216	326.64
				5.4963	92.52005	99.36846	0.00000	5.8347	-2.5868	3.1153	6.2958	1.0483	326.64
				5.9543	92.90259	99.11658	0.00000	6.0262	-2.6823	3.2831	6.5082	1.0738	326.64
				6.4124	93.28514	98.86469	0.00000	6.2154	-2.7776	3.4556	6.7187	1.0982	326.64
				6.8704	93.66768	98.61280	0.00000	6.4022	-2.8728	3.6328	6.9270	1.1214	326.64
				7.3284	94.05023	98.36092	0.00000	6.5864	-2.9679	3.8145	7.1332	1.1434	326.64
				7.7864	94.43277	98.10903	0.00000	6.7682	-3.0628	4.0005	7.3371	1.1640	326.64
				8.2445	94.81532	97.85715	0.00000	6.9472	-3.1575	4.2150	7.5388	1.1834	326.64
				8.7025	95.19786	97.60526	0.00000	7.1235	-3.2521	4.4437	7.7380	1.2014	326.64
				9.1605	95.58041	97.35337	0.00000	7.2970	-3.3465	4.6764	7.9348	1.2179	326.64
				9.6185	95.96295	97.10149	0.00000	7.4674	-3.4407	4.9130	8.1290	1.2329	326.64
				10.077	96.34550	96.84960	0.00000	7.6347	-3.5348	5.1531	8.3205	1.2463	326.64
		90	20S-04	0.0	96.34550	96.84960	0.00000	7.6347	-3.5348	5.1531	-1.2463	8.3205	236.64
				0.44039	96.10331	96.48179	0.00000	7.8732	-3.5664	5.2924	-1.3511	8.5370	236.64
				0.88078	95.86113	96.11397	0.00000	8.1114	-3.5966	5.4294	-1.4569	8.7527	236.64
				1.3212	95.61894	95.74616	0.00000	8.3492	-3.6256	5.5639	-1.5634	8.9671	236.64
				1.7616	95.37676	95.37834	0.00000	8.5860	-3.6532	5.6957	-1.6706	9.1801	236.64
				2.2019	95.13457	95.01053	0.00000	8.8216	-3.6795	5.8246	-1.7782	9.3913	236.64
				2.6423	94.89239	94.64271	0.00000	9.0555	-3.7043	5.9503	-1.8861	9.6004	236.64
				3.0827	94.65020	94.27490	0.00000	9.2875	-3.7277	6.0725	-1.9942	9.8070	236.64
				3.5231	94.40801	93.90709	0.00000	9.5172	-3.7497	6.1911	-2.1021	10.011	236.64
				3.9635	94.16583	93.53927	0.00000	9.7442	-3.7702	6.3058	-2.2098	10.212	236.64
				4.4039	93.92364	93.17146	0.00000	9.9681	-3.7891	6.4164	-2.3171	10.409	236.64
				4.8443	93.68146	92.80364	0.00000	10.188	-3.8066	6.5227	-2.4238	10.603	236.64
				5.2847	93.43927	92.43583	0.00000	10.405	-3.8225	6.6244	-2.5296	10.793	236.64
				5.7250	93.19709	92.06801	0.00000	10.618	-3.8368	6.7214	-2.6345	10.978	236.64
				6.1654	92.95490	91.70020	0.00000	10.825	-3.8495	6.8134	-2.7382	11.158	236.64
		91	20S-05	0.0	87.93150	102.38980	0.00000	3.9116	-1.5792	1.4815	0.84650	-4.1325	56.438
				0.43506	88.17202	102.75233	0.00000	3.8176	-1.5597	1.4458	0.81085	-4.0434	56.438
				0.87012	88.41253	103.11487	0.00000	3.7230	-1.5392	1.4096	0.77554	-3.9533	56.438
				1.3052	88.65305	103.47740	0.00000	3.6277	-1.5179	1.3728	0.74064	-3.8621	56.438
				1.7402	88.89357	103.83993	0.00000	3.5321	-1.4958	1.3356	0.70621	-3.7702	56.438
				2.1753	89.13408	104.20247	0.00000	3.4360	-1.4728	1.2980	0.67230	-3.6774	56.438
				2.6104	89.37460	104.56500	0.00000	3.3398	-1.4489	1.2602	0.63897	-3.5841	56.438
		92	20S-06	0.0	89.37460	104.56500	0.00000	3.3398	-1.4489	1.2602	3.6145	0.43499	329.68
				0.45769	89.76970	104.33398	0.00000	3.4718	-1.5285	1.3526	3.7686	0.43294	329.68
				0.91538	90.16481	104.10295	0.00000	3.6015	-1.6079	1.4479	3.9207	0.42984	329.68
				1.3731	90.55991	103.87193	0.00000	3.7288	-1.6872	1.5462	4.0706	0.42565	329.68
				1.8308	90.95502	103.64091	0.00000	3.8537	-1.7664	1.6476	4.2183	0.42033	329.68
				2.2884	91.35012	103.40989	0.00000	3.9760	-1.8454	1.7523	4.3638	0.41384	329.68
				2.7461	91.74523	103.17886	0.00000	4.0957	-1.9243	1.8601	4.5069	0.40615	329.68
				3.2038	92.14033	102.94784	0.00000	4.2126	-2.0030	1.9713	4.6476	0.39719	329.68
				3.6615	92.53544	102.71682	0.00000	4.3267	-2.0816	2.0858	4.7858	0.38694	329.68
				4.1192	92.93054	102.48580	0.00000	4.4378	-2.1600	2.2035	4.9213	0.37534	329.68
				4.5769	93.32565	102.25477	0.00000	4.5459	-2.2383	2.3246	5.0541	0.36235	329.68
				5.0346	93.72075	102.02375	0.00000	4.6508	-2.3164	2.4488	5.1841	0.34790	329.68
				5.4923	94.11585	101.79273	0.00000	4.7557	-2.3952	2.5761	5.3144	0.33280	329.68
				5.9500	94.51096	101.56170	0.00000	4.8954	-2.4846	2.7064	5.4802	0.32613	329.68
				6.4076	94.90606	101.33068	0.00000	5.0311	-2.5737	2.8396	5.6423	0.31770	329.68
				6.8653	95.30117	101.09966	0.00000	5.1626	-2.6625	2.9755	5.8005	0.30744	329.68
				7.3230	95.69627	100.86864	0.00000	5.2896	-2.7509	3.1139	5.9549	0.29529	329.68
				7.7807	96.09138	100.63761	0.00000	5.4122	-2.8389	3.2546	6.1051	0.28118	329.68
				8.2384	96.48648	100.40659	0.00000	5.5300	-2.9265	3.3974	6.2510	0.26502	329.68
				8.6961	96.88159	100.17557	0.00000	5.6430	-3.0137	3.5458	6.3926	0.24675	329.68
				9.1538	97.27669	99.94455	0.00000	5.7509	-3.1005	3.7318	6.5296	0.22627	329.68
				9.6115	97.67180	99.71352	0.00000	5.8536	-3.1869	3.9198	6.6618	0.20350	329.68
				10.069	98.06690	99.48250	0.00000	5.9508	-3.2729	4.1092	6.7891	0.17834	329.68
		93	20S-07	0.0	98.06690	99.48250	0.00000	5.9508	-3.2729	4.1092	-0.53894	6.7700	236.64
				0.39321	97.85066	99.15409	0.00000	6.1567	-3.3085	4.2418	-0.62248	6.9616	236.64
				0.78642	97.63443	98.82568	0.00000	6.3642	-3.3432	4.3740	-0.70758	7.1540	236.64

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				1.1796	97.41819	98.49726	0.00000	6.5731	-3.3771	4.5054	-0.79416	7.3471	236.64
				1.5728	97.20195	98.16885	0.00000	6.7832	-3.4101	4.6361	-0.88213	7.5407	236.64
				1.9660	96.98571	97.84044	0.00000	6.9942	-3.4422	4.7658	-0.97139	7.7346	236.64
				2.3593	96.76947	97.51202	0.00000	7.2060	-3.4733	4.8945	-1.0618	7.9286	236.64
				2.7525	96.55324	97.18361	0.00000	7.4183	-3.5035	5.0218	-1.1534	8.1226	236.64
				3.1457	96.33700	96.85520	0.00000	7.6310	-3.5327	5.1477	-1.2460	8.3162	236.64
		94	HT-01	0.0	89.37270	104.57010	0.00000	3.3378	-1.4480	1.2590	-3.6102	-0.45160	149.42
				0.28136	89.13047	104.71325	0.00000	3.2552	-1.3989	1.2034	-3.5141	-0.45183	149.42
				0.56273	88.88825	104.85640	0.00000	3.1718	-1.3498	1.1489	-3.4174	-0.45168	149.42
				0.84409	88.64603	104.99955	0.00000	3.0877	-1.3007	1.0952	-3.3199	-0.45116	149.42
				1.1255	88.40380	105.14270	0.00000	3.0027	-1.2515	1.0425	-3.2218	-0.45028	149.42
		95	HT-02	0.0	88.40380	105.14270	0.00000	3.0027	-1.2515	1.0425	0.41376	-3.2267	60.067
				0.47611	88.64137	105.55530	0.00000	2.8987	-1.2200	1.0017	0.38913	-3.1208	60.067
				0.95221	88.87894	105.96789	0.00000	2.7951	-1.1876	0.96105	0.36551	-3.0148	60.067
				1.4283	89.11652	106.38049	0.00000	2.6919	-1.1543	0.92051	0.34294	-2.9088	60.067
				1.9044	89.35409	106.79309	0.00000	2.5895	-1.1200	0.88018	0.32148	-2.8030	60.067
				2.3805	89.59166	107.20569	0.00000	2.4878	-1.0849	0.84009	0.30117	-2.6973	60.067
				2.8566	89.82923	107.61828	0.00000	2.3869	-1.0489	0.80030	0.28206	-2.5919	60.067
				3.3327	90.06681	108.03088	0.00000	2.2870	-1.0120	0.76084	0.26419	-2.4869	60.067
				3.8088	90.30438	108.44348	0.00000	2.1882	-0.97426	0.72174	0.24760	-2.3825	60.067
				4.2850	90.54195	108.85608	0.00000	2.0906	-0.93567	0.68304	0.23233	-2.2786	60.067
				4.7611	90.77952	109.26867	0.00000	1.9942	-0.89624	0.64475	0.21841	-2.1754	60.067
				5.2372	91.01709	109.68127	0.00000	1.8992	-0.85599	0.60690	0.20588	-2.0730	60.067
				5.7133	91.25467	110.09387	0.00000	1.8056	-0.81493	0.56949	0.19477	-1.9714	60.067
				6.1894	91.49224	110.50646	0.00000	1.7245	-0.77794	0.53428	0.18634	-1.8826	60.067
				6.6655	91.72981	110.91906	0.00000	1.6469	-0.74083	0.49980	0.17976	-1.7968	60.067
				7.1416	91.96738	111.33166	0.00000	1.5700	-0.70233	0.46559	0.17475	-1.7110	60.067
				7.6177	92.20496	111.74426	0.00000	1.4939	-0.66244	0.43164	0.17135	-1.6252	60.067
				8.0938	92.44253	112.15685	0.00000	1.4186	-0.62117	0.39792	0.16957	-1.5393	60.067
				8.5699	92.68010	112.56945	0.00000	1.3443	-0.57851	0.36441	0.16943	-1.4536	60.067
				9.0460	92.91767	112.98205	0.00000	1.2708	-0.53447	0.33105	0.17096	-1.3680	60.067
				9.5221	93.15524	113.39464	0.00000	1.1984	-0.48906	0.29780	0.17418	-1.2826	60.067
				9.9982	93.39282	113.80724	0.00000	1.1270	-0.44227	0.26460	0.17909	-1.1974	60.067
				10.474	93.63039	114.21984	0.00000	1.0566	-0.39411	0.23140	0.18571	-1.1124	60.067
				10.950	93.86796	114.63244	0.00000	0.98738	-0.34459	0.19811	0.19407	-1.0276	60.067
				11.427	94.10553	115.04503	0.00000	0.91924	-0.29372	0.16466	0.20415	-0.94319	60.067
				11.903	94.34311	115.45763	0.00000	0.85226	-0.24150	0.13094	0.21599	-0.85908	60.067
				12.379	94.58068	115.87023	0.00000	0.78647	-0.22205	0.11920	0.20001	-0.79237	60.067
				12.855	94.81825	116.28283	0.00000	0.72190	-0.20382	0.11179	0.18359	-0.72730	60.067
				13.331	95.05582	116.69542	0.00000	0.65855	-0.18594	0.10442	0.16748	-0.66349	60.067
				13.807	95.29339	117.10802	0.00000	0.59647	-0.16841	0.097045	0.15169	-0.60094	60.067
				14.283	95.53097	117.52062	0.00000	0.53567	-0.15124	0.089636	0.13623	-0.53968	60.067
				14.759	95.76854	117.93321	0.00000	0.47616	-0.13444	0.082153	0.12109	-0.47973	60.067
				15.235	96.00611	118.34581	0.00000	0.41797	-0.11801	0.074556	0.10629	-0.42110	60.067
				15.712	96.24368	118.75841	0.00000	0.36110	-0.10195	0.066805	0.091832	-0.36381	60.067
				16.188	96.48126	119.17101	0.00000	0.30558	-0.086278	0.058861	0.077713	-0.30787	60.067
				16.664	96.71883	119.58360	0.00000	0.25142	-0.070985	0.050682	0.063938	-0.25330	60.067
				17.140	96.95640	119.99620	0.00000	0.19861	-0.056077	0.042228	0.050510	-0.20010	60.067
		96	HT-03	0.0	96.95640	119.99620	0.00000	0.19861	-0.056077	0.042228	0.20008	0.050615	330.04
				0.48235	97.37429	119.75529	0.00000	0.26241	-0.074089	0.051875	0.26434	0.066872	330.04
				0.96471	97.79217	119.51438	0.00000	0.32389	-0.091447	0.060284	0.32627	0.082540	330.04
				1.4471	98.21006	119.27347	0.00000	0.38301	-0.10814	0.067636	0.38583	0.097606	330.04
				1.9294	98.62795	119.03256	0.00000	0.43973	-0.12415	0.074099	0.44296	0.11206	330.04
				2.4118	99.04583	118.79165	0.00000	0.49399	-0.13947	0.079825	0.49763	0.12589	330.04
				2.8941	99.46372	118.55075	0.00000	0.54576	-0.15409	0.084952	0.54978	0.13908	330.04
				3.3765	99.88160	118.30984	0.00000	0.59498	-0.16799	0.089601	0.59936	0.15162	330.04
				3.8588	100.29949	118.06893	0.00000	0.64161	-0.22048	0.11895	0.66598	0.12943	330.04
				4.3412	100.71738	117.82802	0.00000	0.68560	-0.30131	0.15663	0.74445	0.081380	330.04
				4.8235	101.13526	117.58711	0.00000	0.72689	-0.38232	0.19208	0.82069	0.031817	330.04
				5.3059	101.55315	117.34620	0.00000	0.76544	-0.46353	0.22549	0.89464	-0.019280	330.04
				5.7883	101.97104	117.10529	0.00000	0.80120	-0.54492	0.25706	0.96627	-0.071933	330.04
				6.2706	102.38892	116.86438	0.00000	0.83410	-0.62649	0.28696	1.0355	-0.12617	330.04
				6.7530	102.80681	116.62347	0.00000	0.86412	-0.70825	0.31533	1.1024	-0.18201	330.04
				7.2353	103.22470	116.38256	0.00000	0.89118	-0.79018	0.34233	1.1667	-0.23948	330.04
				7.7177	103.64258	116.14165	0.00000	0.91524	-0.87229	0.36807	1.2286	-0.29860	330.04
				8.2000	104.06047	115.90075	0.00000	0.93625	-0.95458	0.39267	1.2879	-0.35940	330.04
				8.6824	104.47835	115.65984	0.00000	0.95415	-1.0370	0.41622	1.3446	-0.42189	330.04
				9.1647	104.89624	115.41893	0.00000	0.96889	-1.1197	0.43880	1.3986	-0.48611	330.04
				9.6471	105.31413	115.17802	0.00000	0.98042	-1.2024	0.46048	1.4499	-0.55207	330.04
				10.129	105.73201	114.93711	0.00000	0.98869	-1.2854	0.48131	1.4985	-0.61979	330.04
				10.612	106.14990	114.69620	0.00000	0.99364	-1.3685	0.50134	1.5443	-0.68929	330.04
		97	HT-04	0.0	106.14990	114.69620	0.00000	0.99364	-1.3685	0.50134	0.68739	1.5452	239.97
				0.47693	105.91119	114.28331	0.00000	1.0641	-1.4454	0.54268	0.71874	1.6447	239.97
				0.95385	105.67248	113.87042	0.00000	1.1373	-1.5209	0.58636	0.74740	1.7458	239.97
				1.4308	105.43377	113.45753	0.00000	1.2133	-1.5947	0.63250	0.77331	1.8485	239.97
				1.9077	105.19507	113.04464	0.00000	1.2919	-1.6669	0.68124	0.79645	1.9528	239.97
				2.3846	104.95636	112.63176	0.00000	1.3734	-1.7375	0.73267	0.81676	2.0586	239.97
				2.8616	104.71765	112.21887	0.00000	1.4577	-1.8063	0.78690	0.83420	2.1660	239.97
				3.3385	104.47894	111.80598	0.00000	1.5448	-1.8735	0.84399	0.84875	2.2751	239.97
				3.8154	104.24023	111.39309	0.00000	1.6347	-1.9389	0.90402	0.86036	2.3857	239.97
				4.2923	104.00153	110.98020	0.00000	1.7276	-2.0026	0.96705	0.86900	2.4979	239.97
				4.7693	103.76282	110.56731	0.00000	1.8233	-2.0644	1.0331	0.87463	2.6118	239.97
				5.2462	103.52411	110.15442	0.00000	1.9220	-2.1244	1.1023	0.87721	2.7272	239.97
				5.7231	103.28540	109.74153	0.00000	2.0235	-2.1826	1.1745	0.87672	2.8443	239.97
				6.2000	103.04669	109.32864	0.00000	2.1281	-2.2389	1.2499	0.87313	2.9629	239.97
				6.6770	102.80798	108.91576	0.00000	2.2355	-2.2932	1.3283	0.86640	3.0831	239.97
				7.1539	102.56928	108.50287	0.00000	2.3459	-2.3456	1.4099	0.85652	3.2050	239.97
				7.6308	102.33057	108.08998	0.00000	2.4593	-2.3961	1.4945	0.84345	3.3283	239.97
				8.1078	102.09186	107.67709	0.00000	2.5756	-2.4445	1.5822	0.82719	3.4533	239.97
				8.5847	101.85315	107.26420	0.00000	2.6948	-2.4910	1.6728	0.80771	3.5797	239.97
				9.0616	101.61444	106.85131	0.00000	2.8202	-2.5363	1.7664	0.78415	3.7110	239.97
				9.5385	101.37573	106.43842	0.00000	2.9615	-2.5832	1.8629	0.75404	3.8568	239.97
				10.015	101.13702	106.02553	0.00000	3.1062	-2.6281	1.9622	0.72054	4.0045	239.97
				10.492	100.89832	105.61264	0.00000	3.2542	-2.6711	2.0642	0.68365	4.1542	239.97
				10.969	100.65961	105.19976	0.00000	3.4056	-2.7121	2.1687	0.64337	4.3058	239.97
				11.446	100.42090	104.78687	0.00000	3.5603	-2.7511	2.2758	0.59972	4.4592	239.97
				11.923	100.18219	104.37398	0.00000	3.7182	-2.7881	2.3853	0.55271	4.6144	239.97
				12.400	99.94348	103.96109	0.00000	3.8792	-2.8230	2.4971	0.50235	4.7713	239.97
				12.877	99.70477	103.54820	0.00000	4.0433	-2.8559	2.6109	0.44868	4.9298	239.97
				13.354	99.46607	103.13531	0.00000	4.2103	-2.8866	2.7268	0.39173	5.0898	239.97
				13.831	99.22736	102.72242	0.00000	4.3802	-2.9153	2.8445	0.33153	5.2512	239.97
				14.308	98.98865	102.30953	0.00000	4.5529	-2.9419	2.9638	0.26814	5.4140	239.97
				14.785	98.74994	101.89664	0.00000	4.7281	-2.9664	3.0847	0.20160	5.5780	239.97
				15.262	98.51123	101.48376	0.00000	4.9059	-2.9887	3.2088	0.13197	5.7431	239.97
				15.739	98.27253	101.07087	0.00000	5.0860	-3.0090	3.3510	0.059328	5.9091	239.97
				16.216	98.03382	100.65798	0.00000	5.3140	-3.0548	3.5111	-0.015094	6.1294	239.97
				16.692	97.79511	100.24509	0.00000	5.5532	-3.1042	3.6748	-0.092066	6.3612	239.97
				17.169	97.55640	99.83220	0.00000	5.7958	-3.1525	3.8389	-0.17169	6.5955	239.97
		98	22S-01	0.0	111.36030	124.06920	0.00000	0.040412	-0.011410	0.0089679	0.041917	0.0025016	340.82
				0.47735	111.81115	123.91236	0.00000	0.044480	-0.012559	0.0094327	0.046137	0.0027535	340.82
				0.95470	112.26200	123.75551	0.00000	0.046852	-0.013228	0.0095619	0.048597	0.0029003	340.82
				1.4321	112.71285	123.59867	0.00000	0.047553	-0.013426	0.0093841	0.049324	0.0029437	340.82
				1.9094	113.16370	123.44183	0.00000	0.046611	-0.013160	0.0089248	0.048347	0.0028853	340.82
				2.3868	113.61455	123.28499	0.00000	0.044055	-0.012439	0.0082068	0.045696	0.0027272	340.82
				2.8641	114.06540	123.12814	0.00000	0.039918	-0.011270	0.0072506	0.041405	0.0024710	340.82
				3.3415	114.51625	122.97130	0.00000	0.034231	-0.0096648	0.0060742	0.035506	0.0021190	340.82
				3.8188	114.96710	122.81446	0.00000	0.027031	-0.0076319	0.0046938	0.028038	0.0016733	340.82
				4.2962	115.41795	122.65761	0.00000	0.018354	-0.0051822	0.0031236	0.019038	0.0011362	340.82
				4.7735	115.86880	122.50077	0.00000	0.0082402	-0.0023265	0.0013763	0.0085471	510.09E-6	340.82
				5.2509	116.31965	122.34393	0.00000	0.0	0.0	0.0	0.0	0.0	340.82
				5.7282	116.77050	122.18709	0.00000	0.0	0.0	0.0	0.0	0.0	340.82
				6.2056	117.22135	122.03024	0.00000	0.0	0.0	0.0	0.0	0.0	340.82
				6.6829	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0	0.0	340.82
		99	22S-02	0.0	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0	0.0	250.79
				0.49713	117.50862	121.40396	0.00000	0.0	0.0	0.0	0.0	0.0	250.79
				0.99425	117.34504	120.93452	0.00000	8.0710E-6	-0.095302	0.025979	0.089993	0.031367	250.79
				1.4914	117.18146	120.46507	0.00000	19.062E-6	-0.22508	0.048972	0.21254	0.074082	250.79
				1.9885	117.01788	119.99563	0.00000	30.000E-6	-0.35424	0.069033	0.33450	0.11659	250.79
				2.4856	116.85430	119.52619	0.00000	40.884E-6	-0.48276	0.086664	0.45587	0.15889	250.79
				2.9828	116.69073	119.05675	0.00000	51.716E-6	-0.61066	0.10235	0.57664	0.20099	250.79

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				3.4799	116.52715	118.58731	0.00000	62.495E-6	-0.73794	0.11655	0.69682	0.24288	250.79
				3.9770	116.36357	118.11787	0.00000	73.220E-6	-0.86458	0.12970	0.81641	0.28456	250.79
				4.4741	116.19999	117.64843	0.00000	83.892E-6	-0.99060	0.14222	0.93541	0.32604	250.79
				4.9713	116.03641	117.17898	0.00000	0.013459	-1.1182	0.15871	1.0515	0.38066	250.79
				5.4684	115.87283	116.70954	0.00000	0.028957	-1.2451	0.17635	1.1663	0.43706	250.79
				5.9655	115.70925	116.24010	0.00000	0.046433	-1.3713	0.19551	1.2797	0.49508	250.79
				6.4626	115.54567	115.77066	0.00000	0.065955	-1.4967	0.21659	1.3917	0.55478	250.79
				6.9598	115.38209	115.30122	0.00000	0.087594	-1.6213	0.23999	1.5022	0.61622	250.79
				7.4569	115.21851	114.83178	0.00000	0.11142	-1.7451	0.26608	1.6113	0.67945	250.79
				7.9540	115.05493	114.36233	0.00000	0.13752	-1.8680	0.29522	1.7187	0.74453	250.79
				8.4511	114.89135	113.89289	0.00000	0.16596	-1.9900	0.32775	1.8246	0.81154	250.79
				8.9483	114.72778	113.42345	0.00000	0.19683	-2.1111	0.36400	1.9288	0.88054	250.79
				9.4454	114.56420	112.95401	0.00000	0.23023	-2.2313	0.40428	2.0313	0.95161	250.79
				9.9425	114.40062	112.48457	0.00000	0.26623	-2.3504	0.44887	2.1319	1.0248	250.79
				10.440	114.23704	112.01513	0.00000	0.30494	-2.4686	0.49806	2.2307	1.1002	250.79
				10.937	114.07346	111.54568	0.00000	0.34646	-2.5856	0.55209	2.3276	1.1780	250.79
				11.434	113.90988	111.07624	0.00000	0.39088	-2.7015	0.61122	2.4225	1.2581	250.79
				11.931	113.74630	110.60680	0.00000	0.43833	-2.8163	0.67567	2.5153	1.3406	250.79
		100	22S-03	0.0	113.74630	110.60680	0.00000	0.43833	-2.8163	0.67567	-1.3402	2.5155	160.80
				0.47885	113.29409	110.76428	0.00000	0.50950	-2.7532	0.68682	-1.3866	2.4325	160.80
				0.95770	112.84187	110.92176	0.00000	0.57748	-2.6893	0.69614	-1.4298	2.3498	160.80
				1.4365	112.38966	111.07924	0.00000	0.64223	-2.6249	0.70367	-1.4698	2.2677	160.80
				1.9154	111.93744	111.23671	0.00000	0.70370	-2.5599	0.70944	-1.5064	2.1861	160.80
				2.3942	111.48523	111.39419	0.00000	0.76183	-2.4944	0.71350	-1.5398	2.1051	160.80
				2.8731	111.03301	111.55167	0.00000	0.81658	-2.4284	0.71590	-1.5698	2.0248	160.80
				3.3519	110.58080	111.70915	0.00000	0.86793	-2.3620	0.71668	-1.5964	1.9452	160.80
				3.8308	110.12859	111.86663	0.00000	0.91584	-2.2951	0.71590	-1.6197	1.8663	160.80
				4.3096	109.67637	112.02411	0.00000	0.96029	-2.2279	0.71361	-1.6396	1.7882	160.80
				4.7885	109.22416	112.18159	0.00000	1.0013	-2.1604	0.70985	-1.6561	1.7109	160.80
				5.2673	108.77194	112.33906	0.00000	1.0387	-2.0925	0.70469	-1.6691	1.6345	160.80
				5.7462	108.31973	112.49654	0.00000	1.0727	-2.0244	0.69816	-1.6788	1.5590	160.80
				6.2250	107.86751	112.65402	0.00000	1.1032	-1.9561	0.69033	-1.6851	1.4845	160.80
				6.7039	107.41530	112.81150	0.00000	1.1301	-1.8875	0.68124	-1.6880	1.4108	160.80
		101	22S-04	0.0	107.41530	112.81150	0.00000	1.1301	-1.8875	0.68124	-1.4075	-1.6907	70.688
				0.49704	107.57968	113.28057	0.00000	1.0557	-1.7910	0.62548	-1.3410	-1.5886	70.688
				0.99408	107.74405	113.74964	0.00000	0.98440	-1.6931	0.57356	-1.2722	-1.4889	70.688
				1.4911	107.90842	114.21871	0.00000	0.91601	-1.5938	0.52523	-1.2012	-1.3916	70.688
				1.9882	108.07280	114.68778	0.00000	0.85050	-1.4933	0.48022	-1.1280	-1.2965	70.688
				2.4852	108.23718	115.15685	0.00000	0.78779	-1.3915	0.43824	-1.0527	-1.2037	70.688
				2.9822	108.40155	115.62592	0.00000	0.72781	-1.2885	0.39900	-0.97533	-1.1130	70.688
				3.4793	108.56592	116.09500	0.00000	0.67047	-1.1843	0.36218	-0.89596	-1.0244	70.688
				3.9763	108.73030	116.56407	0.00000	0.61572	-1.0790	0.32745	-0.81464	-0.93791	70.688
				4.4733	108.89468	117.03314	0.00000	0.56348	-0.97251	0.29446	-0.73144	-0.85339	70.688
				4.9704	109.05905	117.50221	0.00000	0.51369	-0.86494	0.26284	-0.64639	-0.77083	70.688
				5.4674	109.22342	117.97128	0.00000	0.46628	-0.75632	0.23221	-0.55956	-0.69016	70.688
				5.9645	109.38780	118.44035	0.00000	0.42118	-0.64667	0.20216	-0.47099	-0.61134	70.688
				6.4615	109.55218	118.90942	0.00000	0.37835	-0.53601	0.17229	-0.38073	-0.53432	70.688
				6.9585	109.71655	119.37849	0.00000	0.33771	-0.42438	0.14215	-0.28892	-0.45905	70.688
				7.4556	109.88092	119.84756	0.00000	0.29921	-0.31181	0.11128	-0.19531	-0.38549	70.688
				7.9526	110.04530	120.31663	0.00000	0.26280	-0.19831	0.079233	-0.10025	-0.31359	70.688
				8.4496	110.20968	120.78570	0.00000	0.22841	-0.083923	0.045507	-0.0036620	-0.24332	70.688
				8.9467	110.37405	121.25477	0.00000	0.19602	-0.055343	0.030031	0.012595	-0.20329	70.688
				9.4437	110.53842	121.72385	0.00000	0.16555	-0.046740	0.026443	0.010637	-0.17169	70.688
				9.9408	110.70280	122.19292	0.00000	0.13695	-0.038667	0.022942	0.0087999	-0.14203	70.688
				10.438	110.86718	122.66199	0.00000	0.11019	-0.031111	0.019482	0.0070802	-0.11428	70.688
				10.935	111.03155	123.13106	0.00000	0.085208	-0.024058	0.016022	0.0054750	-0.088369	70.688
				11.432	111.19592	123.60013	0.00000	0.061963	-0.017495	0.012526	0.0039814	-0.064262	70.688
				11.929	111.36030	124.06920	0.00000	0.040412	-0.011410	0.0089679	0.0025967	-0.041911	70.688
		102	23K-01	0.0	126.87040	106.75440	0.00000	389.31E-6	-4.5970	1.2559	-1.4957	4.3469	161.02
				0.48596	126.41078	106.91251	0.00000	382.79E-6	-4.5200	1.1876	-1.4707	4.2740	161.02
				0.97212	125.95115	107.07062	0.00000	376.32E-6	-4.4436	1.1201	-1.4458	4.2018	161.02
				1.4582	125.49152	107.22872	0.00000	369.90E-6	-4.3677	1.0536	-1.4211	4.1301	161.02
				1.9442	125.03190	107.38683	0.00000	363.53E-6	-4.2925	1.0096	-1.3966	4.0589	161.02
				2.4303	124.57228	107.54494	0.00000	357.20E-6	-4.2179	0.97650	-1.3724	3.9884	161.02
				2.9164	124.11265	107.70305	0.00000	350.93E-6	-4.1438	0.94423	-1.3483	3.9184	161.02
				3.4024	123.65302	107.86116	0.00000	344.71E-6	-4.0704	0.91282	-1.3244	3.8489	161.02
				3.8885	123.19340	108.01927	0.00000	338.54E-6	-3.9975	0.88225	-1.3007	3.7800	161.02
				4.3745	122.73378	108.17738	0.00000	332.42E-6	-3.9253	0.85252	-1.2771	3.7117	161.02
				4.8606	122.27415	108.33548	0.00000	326.35E-6	-3.8536	0.82360	-1.2538	3.6439	161.02
				5.3466	121.81453	108.49359	0.00000	320.33E-6	-3.7825	0.79550	-1.2307	3.5767	161.02
				5.8327	121.35490	108.65170	0.00000	314.37E-6	-3.7120	0.76820	-1.2078	3.5101	161.02
		103	23K-02	0.0	121.35490	108.65170	0.00000	314.37E-6	-3.7120	0.76820	-3.5088	-1.2113	70.959
				0.48330	121.51257	109.10856	0.00000	303.66E-6	-3.5856	0.70829	-3.3893	-1.1700	70.959
				0.96659	121.67024	109.56541	0.00000	292.89E-6	-3.4585	0.65227	-3.2692	-1.1286	70.959
				1.4499	121.82791	110.02227	0.00000	282.08E-6	-3.3309	0.60009	-3.1485	-1.0869	70.959
				1.9332	121.98558	110.47912	0.00000	271.22E-6	-3.2026	0.55167	-3.0273	-1.0451	70.959
				2.4165	122.14325	110.93597	0.00000	260.31E-6	-3.0738	0.50692	-2.9055	-1.0030	70.959
				2.8998	122.30092	111.39283	0.00000	249.35E-6	-2.9444	0.46571	-2.7832	-0.96081	70.959
				3.3831	122.45859	111.84969	0.00000	238.35E-6	-2.8144	0.42793	-2.6603	-0.91838	70.959
				3.8664	122.61626	112.30654	0.00000	227.29E-6	-2.6838	0.39343	-2.5369	-0.87577	70.959
				4.3497	122.77393	112.76340	0.00000	216.18E-6	-2.5526	0.36203	-2.4129	-0.83296	70.959
				4.8330	122.93160	113.22025	0.00000	205.02E-6	-2.4209	0.33355	-2.2883	-0.78997	70.959
				5.3163	123.08927	113.67710	0.00000	193.81E-6	-2.2885	0.30780	-2.1632	-0.74678	70.959
				5.7996	123.24694	114.13396	0.00000	182.55E-6	-2.1556	0.28455	-2.0376	-0.70340	70.959
				6.2829	123.40461	114.59081	0.00000	171.24E-6	-2.0220	0.26355	-1.9113	-0.65982	70.959
				6.7662	123.56228	115.04767	0.00000	159.88E-6	-1.8879	0.24456	-1.7846	-0.61606	70.959
				7.2495	123.71995	115.50453	0.00000	148.48E-6	-1.7532	0.22728	-1.6572	-0.57210	70.959
				7.7328	123.87762	115.96138	0.00000	137.02E-6	-1.6179	0.21143	-1.5293	-0.52795	70.959
				8.2161	124.03529	116.41823	0.00000	125.51E-6	-1.4820	0.19669	-1.4009	-0.48361	70.959
				8.6994	124.19296	116.87509	0.00000	113.95E-6	-1.3455	0.18272	-1.2719	-0.43908	70.959
				9.1826	124.35063	117.33194	0.00000	102.34E-6	-1.2085	0.16916	-1.1423	-0.39435	70.959
				9.6659	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.15564	-1.0122	-0.34943	70.959
		104	23K-03	0.0	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.15564	0.34414	-1.0140	341.26
				0.48785	124.97028	117.63206	0.00000	95.345E-6	-1.1258	0.16140	0.36181	-1.0661	341.26
				0.97570	125.43227	117.47532	0.00000	100.05E-6	-1.1814	0.16721	0.37967	-1.1187	341.26
				1.4635	125.89425	117.31857	0.00000	104.81E-6	-1.2376	0.17306	0.39772	-1.1719	341.26
				1.9514	126.35623	117.16183	0.00000	109.62E-6	-1.2943	0.17899	0.41596	-1.2257	341.26
				2.4392	126.81822	117.00509	0.00000	114.47E-6	-1.3517	0.18501	0.43440	-1.2800	341.26
				2.9271	127.28020	116.84835	0.00000	119.38E-6	-1.4096	0.19113	0.45302	-1.3349	341.26
				3.4149	127.74218	116.69161	0.00000	124.34E-6	-1.4682	0.19737	0.47183	-1.3903	341.26
				3.9028	128.20417	116.53487	0.00000	129.34E-6	-1.5273	0.20375	0.49083	-1.4463	341.26
				4.3906	128.66615	116.37812	0.00000	134.40E-6	-1.5870	0.21028	0.51002	-1.5028	341.26
				4.8785	129.12813	116.22138	0.00000	139.51E-6	-1.6473	0.21698	0.52941	-1.5599	341.26
				5.3663	129.59012	116.06464	0.00000	144.67E-6	-1.7082	0.22387	0.54898	-1.6176	341.26
				5.8542	130.05210	115.90790	0.00000	149.88E-6	-1.7697	0.23097	0.56874	-1.6758	341.26
		105	23K-04	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.21127	0.52054	-1.5006	340.87
				0.43187	130.65443	116.32850	0.00000	139.17E-6	-1.6433	0.21731	0.53856	-1.5526	340.87
				0.86374	131.06247	116.18700	0.00000	143.87E-6	-1.6988	0.22349	0.55674	-1.6050	340.87
				1.2956	131.47050	116.04550	0.00000	148.61E-6	-1.7547	0.22984	0.57507	-1.6578	340.87
				1.7275	131.87853	115.90400	0.00000	153.38E-6	-1.8111	0.23635	0.59355	-1.7111	340.87
				2.1594	132.28657	115.76250	0.00000	158.20E-6	-1.8680	0.24305	0.61219	-1.7649	340.87
				2.5912	132.69460	115.62100	0.00000	163.06E-6	-1.9254	0.24994	0.63099	-1.8190	340.87
				3.0231	133.10263	115.47950	0.00000	167.95E-6	-1.9832	0.25704	0.64994	-1.8737	340.87
				3.4550	133.51067	115.33800	0.00000	172.89E-6	-2.0415	0.26436	0.66904	-1.9287	340.87
				3.8868	133.91870	115.19650	0.00000	177.87E-6	-2.1003	0.27192	0.68830	-1.9843	340.87
				4.3187	134.32673	115.05500	0.00000	182.88E-6	-2.1595	0.27973	0.70772	-2.0402	340.87
				4.7506	134.73477	114.91350	0.00000	187.94E-6	-2.2192	0.28779	0.72729	-2.0966	340.87
				5.1825	135.14280	114.77200	0.00000	193.04E-6	-2.2794	0.29613	0.74701	-2.1535	340.87
		106	23K-05	0.0	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.27137	0.68691	-1.9800	340.87
				0.46218	135.76587	115.15775	0.00000	182.91E-6	-2.1599	0.27966	0.70792	-2.0405	340.87
				0.92437	136.20253	115.00630	0.00000	188.39E-6	-2.2245	0.28824	0.72910	-2.1016	340.87
				1.3866	136.63920	114.85485	0.00000	193.91E-6	-2.2897	0.29713	0.75046	-2.1632	340.87
				1.8487	137.07587	114.70340	0.00000	199.47E-6	-2.3554	0.30635	0.77200	-2.2253	340.87
				2.3109	137.51253	114.55195	0.00000	205.08E-6	-2.4216	0.31591	0.79372	-2.2879	340.87
				2.7731	137.94920	114.40050	0.00000	210.74E-6	-2.4884	0.32582	0.81561	-2.3510	340.87
				3.2353	138.38587	114.24905	0.00000	216.44E-6	-2.5557	0.33611	0.83768	-2.4146	340.87
				3.6975	138.82253	114.09760	0.00000	222.19E-6	-2.6236	0.34679	0.85992	-2.4787	340.87
				4.1597	139.25920	113.94615	0.00000	227.98E-6	-2.6920	0.35788	0.88235	-2.5433	340.87
				4.6218	139.69587	113.79470	0.00000	233.82E-6	-2.7610	0.36939	0.90495	-2.6085	340.87
				5.0840	140.13253	113.64325	0.00000	239.71E-6	-2.8305	0.38133	0.92772	-2.6741	340.87

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				5.5462	140.56920	113.49180	0.00000	245.64E-6	-2.9005	0.39374	0.95068	-2.7403	340.87
		107	23K-06	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.35658	0.88284	-2.5453	340.88
				0.44539	141.17871	113.91508	0.00000	233.84E-6	-2.7612	0.36754	0.90484	-2.6087	340.88
				0.89078	141.59952	113.76917	0.00000	238.53E-6	-2.8165	0.37725	0.92296	-2.6610	340.88
				1.3362	142.02033	113.62325	0.00000	243.16E-6	-2.8712	0.38720	0.94089	-2.7127	340.88
				1.7816	142.44113	113.47733	0.00000	247.80E-6	-2.9260	0.39750	0.95883	-2.7644	340.88
				2.2269	142.86194	113.33142	0.00000	252.43E-6	-2.9807	0.40814	0.97676	-2.8161	340.88
				2.6723	143.28275	113.18550	0.00000	257.07E-6	-3.0354	0.41913	0.99470	-2.8678	340.88
				3.1177	143.70356	113.03958	0.00000	261.70E-6	-3.0902	0.43049	1.0126	-2.9195	340.88
				3.5631	144.12437	112.89367	0.00000	266.34E-6	-3.1449	0.44222	1.0306	-2.9712	340.88
				4.0085	144.54518	112.74775	0.00000	270.97E-6	-3.1996	0.45433	1.0485	-3.0230	340.88
				4.4539	144.96598	112.60183	0.00000	275.61E-6	-3.2544	0.46684	1.0664	-3.0747	340.88
				4.8993	145.38679	112.45592	0.00000	280.24E-6	-3.3091	0.47974	1.0844	-3.1264	340.88
				5.3447	145.80760	112.31000	0.00000	284.88E-6	-3.3638	0.49306	1.1023	-3.1781	340.88
		108	23K-07	0.0	145.92710	112.67510	0.00000	273.28E-6	-3.2269	0.46052	1.0553	-3.0495	340.92
				0.46129	146.36303	112.52428	0.00000	278.07E-6	-3.2835	0.47366	1.0738	-3.1029	340.92
				0.92257	146.79897	112.37345	0.00000	282.86E-6	-3.3401	0.48723	1.0924	-3.1564	340.92
				1.3839	147.23490	112.22262	0.00000	287.65E-6	-3.3966	0.50124	1.1109	-3.2098	340.92
				1.8451	147.67083	112.07180	0.00000	292.45E-6	-3.4532	0.51570	1.1294	-3.2633	340.92
				2.3064	148.10677	111.92097	0.00000	297.24E-6	-3.5098	0.53062	1.1479	-3.3168	340.92
				2.7677	148.54270	111.77015	0.00000	302.03E-6	-3.5663	0.54601	1.1664	-3.3702	340.92
				3.2290	148.97863	111.61933	0.00000	306.82E-6	-3.6229	0.56187	1.1849	-3.4237	340.92
				3.6903	149.41457	111.46850	0.00000	311.61E-6	-3.6795	0.57821	1.2034	-3.4772	340.92
				4.1516	149.85050	111.31768	0.00000	316.40E-6	-3.7361	0.59505	1.2219	-3.5306	340.92
				4.6129	150.28643	111.16685	0.00000	321.19E-6	-3.7926	0.61238	1.2404	-3.5841	340.92
				5.0742	150.72237	111.01602	0.00000	325.98E-6	-3.8492	0.63022	1.2589	-3.6375	340.92
				5.5354	151.15830	110.86520	0.00000	330.77E-6	-3.9058	0.64857	1.2774	-3.6910	340.92
		109	23K-08	0.0	151.15830	110.86520	0.00000	330.77E-6	-3.9058	0.64857	3.6910	1.2773	250.92
				0.49250	150.99728	110.39977	0.00000	345.55E-6	-4.0803	0.70847	3.8559	1.3344	250.92
				0.98500	150.83625	109.93434	0.00000	360.34E-6	-4.2548	0.77349	4.0209	1.3915	250.92
				1.4775	150.67523	109.46891	0.00000	375.12E-6	-4.4294	0.84377	4.1858	1.4486	250.92
				1.9700	150.51420	109.00348	0.00000	389.90E-6	-4.6039	0.91946	4.3507	1.5056	250.92
				2.4625	150.35317	108.53805	0.00000	404.68E-6	-4.7784	1.0007	4.5157	1.5627	250.92
				2.9550	150.19215	108.07262	0.00000	419.46E-6	-4.9530	1.0875	4.6806	1.6198	250.92
				3.4475	150.03113	107.60719	0.00000	434.24E-6	-5.1275	1.1800	4.8455	1.6769	250.92
				3.9400	149.87010	107.14176	0.00000	449.02E-6	-5.3020	1.3059	5.0105	1.7340	250.92
				4.4325	149.70908	106.67633	0.00000	463.80E-6	-5.4766	1.5029	5.1754	1.7910	250.92
				4.9250	149.54805	106.21090	0.00000	478.58E-6	-5.6511	1.7057	5.3403	1.8481	250.92
				5.4175	149.38702	105.74547	0.00000	493.36E-6	-5.8256	1.9142	5.5053	1.9052	250.92
				5.9100	149.22600	105.28004	0.00000	508.14E-6	-6.0001	2.1283	5.6702	1.9623	250.92
				6.4025	149.06498	104.81461	0.00000	522.92E-6	-6.1747	2.3481	5.8351	2.0193	250.92
				6.8950	148.90395	104.34918	0.00000	537.70E-6	-6.3492	2.5734	6.0001	2.0764	250.92
				7.3875	148.74293	103.88375	0.00000	552.48E-6	-6.5237	2.8041	6.1650	2.1335	250.92
				7.8800	148.58190	103.41832	0.00000	567.27E-6	-6.6983	3.0401	6.3299	2.1906	250.92
				8.3725	148.42087	102.95289	0.00000	582.05E-6	-6.8728	3.2812	6.4949	2.2477	250.92
				8.8650	148.25985	102.48746	0.00000	596.83E-6	-7.0473	3.5272	6.6598	2.3047	250.92
				9.3575	148.09883	102.02203	0.00000	611.61E-6	-7.2219	3.7779	6.8248	2.3618	250.92
				9.8500	147.93780	101.55660	0.00000	626.39E-6	-7.3964	4.0332	6.9897	2.4189	250.92
		110	23K-09	0.0	147.93780	101.55660	0.00000	626.39E-6	-7.3964	4.0332	-2.4662	6.9731	160.53
				0.46129	147.50289	101.71037	0.00000	621.50E-6	-7.3387	3.9484	-2.4470	6.9187	160.53
				0.92259	147.06798	101.86415	0.00000	616.62E-6	-7.2810	3.8640	-2.4278	6.8644	160.53
				1.3839	146.63308	102.01793	0.00000	611.73E-6	-7.2234	3.7801	-2.4085	6.8100	160.53
				1.8452	146.19817	102.17170	0.00000	606.85E-6	-7.1657	3.6967	-2.3893	6.7556	160.53
				2.3065	145.76326	102.32547	0.00000	601.97E-6	-7.1080	3.6138	-2.3701	6.7012	160.53
				2.7678	145.32835	102.47925	0.00000	597.08E-6	-7.0503	3.5314	-2.3508	6.6469	160.53
				3.2291	144.89344	102.63303	0.00000	592.20E-6	-6.9927	3.4496	-2.3316	6.5925	160.53
				3.6904	144.45853	102.78680	0.00000	587.31E-6	-6.9350	3.3682	-2.3124	6.5381	160.53
				4.1516	144.02362	102.94057	0.00000	582.43E-6	-6.8773	3.2874	-2.2931	6.4837	160.53
				4.6129	143.58872	103.09435	0.00000	577.54E-6	-6.8196	3.2071	-2.2739	6.4294	160.53
				5.0742	143.15381	103.24813	0.00000	572.66E-6	-6.7619	3.1274	-2.2547	6.3750	160.53
				5.5355	142.71890	103.40190	0.00000	567.77E-6	-6.7043	3.0482	-2.2354	6.3206	160.53
		111	23K-10	0.0	137.49760	104.66790	0.00000	506.30E-6	-5.9784	2.3417	1.9608	-5.6477	340.86
				0.44540	137.91837	104.52185	0.00000	513.19E-6	-6.0597	2.4196	1.9875	-5.7245	340.86
				0.89080	138.33915	104.37580	0.00000	520.12E-6	-6.1416	2.4983	2.0144	-5.8019	340.86
				1.3362	138.75993	104.22975	0.00000	527.10E-6	-6.2240	2.5780	2.0414	-5.8797	340.86
				1.7816	139.18070	104.08370	0.00000	534.11E-6	-6.3068	2.6586	2.0686	-5.9579	340.86
				2.2270	139.60147	103.93765	0.00000	541.18E-6	-6.3902	2.7401	2.0959	-6.0367	340.86
				2.6724	140.02225	103.79160	0.00000	548.28E-6	-6.4741	2.8225	2.1234	-6.1159	340.86
				3.1178	140.44303	103.64555	0.00000	555.42E-6	-6.5584	2.9058	2.1511	-6.1956	340.86
				3.5632	140.86380	103.49950	0.00000	562.61E-6	-6.6433	2.9900	2.1789	-6.2758	340.86
				4.0086	141.28457	103.35345	0.00000	569.31E-6	-6.7224	3.0731	2.2049	-6.3505	340.86
				4.4541	141.70535	103.20740	0.00000	573.95E-6	-6.7772	3.1484	2.2228	-6.4023	340.86
				4.8994	142.12613	103.06135	0.00000	578.59E-6	-6.8320	3.2243	2.2408	-6.4540	340.86
				5.3448	142.54690	102.91530	0.00000	583.23E-6	-6.8867	3.3006	2.2588	-6.5058	340.86
		112	23K-11	0.0	142.54690	102.91530	0.00000	583.23E-6	-6.8867	3.3006	-6.5073	-2.2544	70.897
				0.46948	142.70055	103.35893	0.00000	569.14E-6	-6.7204	3.0703	-6.3501	-2.1999	70.897
				0.93896	142.85419	103.80255	0.00000	555.05E-6	-6.5540	2.8446	-6.1929	-2.1454	70.897
				1.4084	143.00784	104.24618	0.00000	540.96E-6	-6.3877	2.6238	-6.0357	-2.0910	70.897
				1.8779	143.16148	104.68981	0.00000	526.87E-6	-6.2213	2.4078	-5.8785	-2.0365	70.897
				2.3474	143.31513	105.13344	0.00000	512.78E-6	-6.0550	2.1967	-5.7214	-1.9821	70.897
				2.8169	143.46877	105.57706	0.00000	498.70E-6	-5.8886	1.9908	-5.5642	-1.9276	70.897
				3.2864	143.62242	106.02069	0.00000	484.61E-6	-5.7222	1.7900	-5.4070	-1.8732	70.897
				3.7558	143.77606	106.46432	0.00000	470.52E-6	-5.5559	1.5944	-5.2498	-1.8187	70.897
				4.2253	143.92971	106.90795	0.00000	456.43E-6	-5.3895	1.4040	-5.0926	-1.7642	70.897
				4.6948	144.08335	107.35157	0.00000	442.34E-6	-5.2232	1.2331	-4.9354	-1.7098	70.897
				5.1643	144.23700	107.79520	0.00000	428.25E-6	-5.0568	1.1418	-4.7782	-1.6553	70.897
				5.6338	144.39065	108.23883	0.00000	414.17E-6	-4.8905	1.0557	-4.6210	-1.6009	70.897
				6.1032	144.54429	108.68245	0.00000	400.08E-6	-4.7241	0.97479	-4.4638	-1.5464	70.897
				6.5727	144.69794	109.12608	0.00000	385.99E-6	-4.5578	0.89891	-4.3066	-1.4920	70.897
				7.0422	144.85158	109.56971	0.00000	371.90E-6	-4.3914	0.82802	-4.1495	-1.4375	70.897
				7.5117	145.00523	110.01334	0.00000	357.81E-6	-4.2250	0.76202	-3.9923	-1.3831	70.897
				7.9812	145.15887	110.45696	0.00000	343.72E-6	-4.0587	0.70077	-3.8351	-1.3286	70.897
				8.4507	145.31252	110.90059	0.00000	329.64E-6	-3.8923	0.64416	-3.6779	-1.2741	70.897
				8.9201	145.46616	111.34422	0.00000	315.55E-6	-3.7260	0.59201	-3.5207	-1.2197	70.897
				9.3896	145.61981	111.78785	0.00000	301.46E-6	-3.5596	0.54415	-3.3635	-1.1652	70.897
				9.8591	145.77345	112.23147	0.00000	287.37E-6	-3.3933	0.50039	-3.2063	-1.1108	70.897
				10.329	145.92710	112.67510	0.00000	273.28E-6	-3.2269	0.46052	-3.0491	-1.0563	70.897
		113	23K-12	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.35658	2.5451	0.88360	250.86
				0.47283	140.60286	113.61431	0.00000	241.86E-6	-2.8559	0.38530	2.6980	0.93668	250.86
				0.94566	140.44782	113.16762	0.00000	255.52E-6	-3.0172	0.41705	2.8503	0.98958	250.86
				1.4185	140.29278	112.72093	0.00000	269.13E-6	-3.1779	0.45207	3.0021	1.0423	250.86
				1.8913	140.13774	112.27424	0.00000	282.70E-6	-3.3381	0.49061	3.1534	1.0948	250.86
				2.3642	139.98270	111.82755	0.00000	296.21E-6	-3.4977	0.53288	3.3042	1.1472	250.86
				2.8370	139.82765	111.38085	0.00000	309.68E-6	-3.6567	0.57908	3.4544	1.1993	250.86
				3.3098	139.67261	110.93416	0.00000	323.10E-6	-3.8152	0.62937	3.6041	1.2513	250.86
				3.7827	139.51757	110.48747	0.00000	336.47E-6	-3.9730	0.68393	3.7533	1.3031	250.86
				4.2555	139.36253	110.04078	0.00000	349.79E-6	-4.1304	0.74288	3.9019	1.3547	250.86
				4.7283	139.20749	109.59409	0.00000	363.07E-6	-4.2871	0.80634	4.0500	1.4061	250.86
				5.2012	139.05245	109.14740	0.00000	376.30E-6	-4.4433	0.87440	4.1975	1.4573	250.86
				5.6740	138.89741	108.70071	0.00000	389.48E-6	-4.5989	0.94715	4.3446	1.5084	250.86
				6.1468	138.74237	108.25402	0.00000	402.61E-6	-4.7540	1.0246	4.4910	1.5592	250.86
				6.6197	138.58733	107.80733	0.00000	415.69E-6	-4.9085	1.1069	4.6370	1.6099	250.86
				7.0925	138.43229	107.36064	0.00000	428.73E-6	-5.0624	1.1940	4.7824	1.6604	250.86
				7.5653	138.27725	106.91395	0.00000	441.72E-6	-5.2158	1.3590	4.9273	1.7107	250.86
				8.0382	138.12220	106.46725	0.00000	454.66E-6	-5.3686	1.5450	5.0716	1.7608	250.86
				8.5110	137.96716	106.02056	0.00000	467.55E-6	-5.5208	1.7357	5.2154	1.8107	250.86
				8.9838	137.81212	105.57387	0.00000	480.39E-6	-5.6725	1.9312	5.3587	1.8605	250.86
				9.4567	137.65708	105.12718	0.00000	493.19E-6	-5.8236	2.1313	5.5015	1.9100	250.86
				9.9295	137.50204	104.68049	0.00000	505.94E-6	-5.9741	2.3359	5.6437	1.9594	250.86
				10.402	137.34700	104.23380	0.00000	518.64E-6	-6.1241	2.5449	5.7854	2.0086	250.86
		114	23K-13	0.0	137.34700	104.23380	0.00000	518.64E-6	-6.1241	2.5449	-2.0498	5.7709	160.45
				0.46085	136.91272	104.38802	0.00000	511.41E-6	-6.0387	2.4617	-2.0212	5.6904	160.45
				0.92170	136.47843	104.54223	0.00000	504.23E-6	-5.9539	2.3795	-1.9929	5.6105	160.45
				1.3826	136.04415	104.69645	0.00000	497.09E-6	-5.8697	2.2983	-1.9647	5.5311	160.45
				1.8434	135.60987	104.85067	0.00000	490.00E-6	-5.7859	2.2181	-1.9366	5.4522	160.45
				2.3043	135.17558	105.00488	0.00000	482.96E-6	-5.7027	2.1389	-1.9088	5.3738	160.45
				2.7651	134.74130	105.15910	0.00000	475.96E-6	-5.6201	2.0606	-1.8811	5.2959	160.45
				3.2260	134.30702	105.31332	0.00000	469.01E-6	-5.5380	1.9833	-1.8537	5.2186	160.45
				3.6868	133.87273	105.46753	0.00000	462.10E-6	-5.4565	1.9069	-1.8264	5.1418	160.45
				4.1477	133.43845	105.62175	0.00000	455.24E-6	-5.3755	1.8315	-1.7993	5.0654	160.45

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				4.6085	133.00417	105.77597	0.00000	448.43E-6	-5.2951	1.7571	-1.7723	4.9896	160.45
				5.0694	132.96988	105.93018	0.00000	441.66E-6	-5.2152	1.6836	-1.7456	4.9143	160.45
				5.5302	132.13560	106.08440	0.00000	434.94E-6	-5.1358	1.6110	-1.7190	4.8396	160.45
		115	23K-14	0.0	127.09450	107.39930	0.00000	373.10E-6	-4.4056	1.0350	1.4416	-4.1631	340.91
				0.43282	127.50351	107.25771	0.00000	378.89E-6	-4.4740	1.0702	1.4639	-4.2277	340.91
				0.86565	127.91252	107.11612	0.00000	384.72E-6	-4.5428	1.1302	1.4865	-4.2927	340.91
				1.2985	128.32153	106.97452	0.00000	390.59E-6	-4.6121	1.1910	1.5092	-4.3582	340.91
				1.7313	128.73053	106.83293	0.00000	396.50E-6	-4.6819	1.2525	1.5320	-4.4242	340.91
				2.1641	129.13954	106.69134	0.00000	402.45E-6	-4.7521	1.3148	1.5550	-4.4905	340.91
				2.5969	129.54855	106.54975	0.00000	408.44E-6	-4.8229	1.3778	1.5781	-4.5574	340.91
				3.0298	129.95756	106.40816	0.00000	414.47E-6	-4.8941	1.4416	1.6014	-4.6247	340.91
				3.4626	130.36657	106.26657	0.00000	420.54E-6	-4.9658	1.5062	1.6249	-4.6924	340.91
				3.8954	130.77558	106.12497	0.00000	426.65E-6	-5.0379	1.5715	1.6485	-4.7606	340.91
				4.3282	131.18458	105.98338	0.00000	432.80E-6	-5.1105	1.6376	1.6722	-4.8292	340.91
				4.7611	131.59359	105.84179	0.00000	438.99E-6	-5.1836	1.7044	1.6962	-4.8983	340.91
				5.1939	132.00260	105.70020	0.00000	445.22E-6	-5.2572	1.7721	1.7202	-4.9678	340.91
		116	23K-15	0.0	132.00260	105.70020	0.00000	445.22E-6	-5.2572	1.7721	-4.9678	-1.7203	70.904
				0.46221	132.15381	106.13697	0.00000	433.53E-6	-5.1192	1.5892	-4.8373	-1.6751	70.904
				0.92441	132.30502	106.57375	0.00000	421.80E-6	-4.9806	1.4104	-4.7064	-1.6298	70.904
				1.3866	132.45623	107.01052	0.00000	410.02E-6	-4.8415	1.2359	-4.5749	-1.5843	70.904
				1.8488	132.60744	107.44729	0.00000	398.19E-6	-4.7018	1.0993	-4.4430	-1.5386	70.904
				2.3110	132.75865	107.88406	0.00000	386.32E-6	-4.5616	1.0207	-4.3105	-1.4927	70.904
				2.7732	132.90985	108.32084	0.00000	374.40E-6	-4.4209	0.94634	-4.1775	-1.4466	70.904
				3.2354	133.06106	108.75761	0.00000	362.43E-6	-4.2796	0.87624	-4.0440	-1.4004	70.904
				3.6976	133.21227	109.19438	0.00000	350.42E-6	-4.1378	0.81036	-3.9100	-1.3540	70.904
				4.1599	133.36348	109.63115	0.00000	338.37E-6	-3.9954	0.74864	-3.7755	-1.3074	70.904
				4.6221	133.51469	110.06793	0.00000	326.27E-6	-3.8525	0.69101	-3.6404	-1.2607	70.904
				5.0843	133.66590	110.50470	0.00000	314.12E-6	-3.7091	0.63740	-3.5049	-1.2137	70.904
				5.5465	133.81711	110.94147	0.00000	301.93E-6	-3.5651	0.58770	-3.3689	-1.1666	70.904
				6.0087	133.96832	111.37825	0.00000	289.69E-6	-3.4206	0.54179	-3.2323	-1.1193	70.904
				6.4709	134.11953	111.81502	0.00000	277.40E-6	-3.2756	0.49955	-3.0952	-1.0719	70.904
				6.9331	134.27074	112.25179	0.00000	265.07E-6	-3.1300	0.46081	-2.9577	-1.0242	70.904
				7.3953	134.42195	112.68856	0.00000	252.70E-6	-2.9839	0.42540	-2.8196	-0.97640	70.904
				7.8575	134.57315	113.12534	0.00000	240.28E-6	-2.8372	0.39315	-2.6810	-0.92841	70.904
				8.3197	134.72436	113.56211	0.00000	227.81E-6	-2.6900	0.36384	-2.5419	-0.88024	70.904
				8.7819	134.87557	113.99888	0.00000	215.30E-6	-2.5422	0.33726	-2.4023	-0.83189	70.904
				9.2441	135.02678	114.43565	0.00000	202.74E-6	-2.3940	0.31316	-2.2622	-0.78337	70.904
				9.7063	135.17799	114.87243	0.00000	190.14E-6	-2.2451	0.29129	-2.1215	-0.73467	70.904
				10.169	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.27137	-1.9804	-0.68579	70.904
		117	23K-16	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.21127	1.5003	0.52147	250.84
				0.46752	130.09295	116.02838	0.00000	146.59E-6	-1.7309	0.22661	1.6350	0.56828	250.84
				0.93504	129.93949	115.58676	0.00000	158.61E-6	-1.8729	0.24302	1.7691	0.61490	250.84
				1.4026	129.78604	115.14515	0.00000	170.59E-6	-2.0144	0.26083	1.9027	0.66134	250.84
				1.8701	129.63258	114.70353	0.00000	182.53E-6	-2.1553	0.28032	2.0358	0.70761	250.84
				2.3376	129.47913	114.26191	0.00000	194.41E-6	-2.2956	0.30178	2.1684	0.75369	250.84
				2.8051	129.32567	113.82029	0.00000	206.25E-6	-2.4354	0.32546	2.3004	0.79958	250.84
				3.2726	129.17222	113.37867	0.00000	218.05E-6	-2.5747	0.35160	2.4320	0.84530	250.84
				3.7402	129.01876	112.93705	0.00000	229.79E-6	-2.7134	0.38044	2.5630	0.89083	250.84
				4.2077	128.86531	112.49544	0.00000	241.49E-6	-2.8515	0.41217	2.6935	0.93619	250.84
				4.6752	128.71185	112.05382	0.00000	253.14E-6	-2.9891	0.44698	2.8234	0.98136	250.84
				5.1427	128.55840	111.61220	0.00000	264.75E-6	-3.1261	0.48505	2.9529	1.0263	250.84
				5.6102	128.40495	111.17058	0.00000	276.31E-6	-3.2626	0.52653	3.0818	1.0712	250.84
				6.0778	128.25149	110.72896	0.00000	287.82E-6	-3.3986	0.57156	3.2102	1.1158	250.84
				6.5453	128.09804	110.28735	0.00000	299.28E-6	-3.5339	0.62027	3.3380	1.1602	250.84
				7.0128	127.94458	109.84573	0.00000	310.70E-6	-3.6687	0.67274	3.4654	1.2045	250.84
				7.4803	127.79113	109.40411	0.00000	322.07E-6	-3.8030	0.72908	3.5922	1.2486	250.84
				7.9478	127.63767	108.96249	0.00000	333.40E-6	-3.9367	0.78935	3.7185	1.2925	250.84
				8.4154	127.48422	108.52087	0.00000	344.67E-6	-4.0699	0.85361	3.8443	1.3362	250.84
				8.8829	127.33076	108.07925	0.00000	355.90E-6	-4.2025	0.92190	3.9695	1.3797	250.84
				9.3504	127.17731	107.63764	0.00000	367.09E-6	-4.3345	0.99424	4.0943	1.4231	250.84
				9.8179	127.02385	107.19602	0.00000	378.22E-6	-4.4660	1.0872	4.2185	1.4663	250.84
				10.285	126.87040	106.75440	0.00000	389.31E-6	-4.5970	1.2559	4.3422	1.5092	250.84
		118	23K-17	0.0	150.73130	109.63110	0.00000	369.97E-6	-4.3686	0.81867	1.4473	-4.1218	340.66
				0.45094	151.15679	109.48174	0.00000	374.71E-6	-4.4246	0.84177	1.4658	-4.1747	340.66
				0.90189	151.58228	109.33238	0.00000	379.45E-6	-4.4806	0.86542	1.4844	-4.2276	340.66
				1.3528	152.00777	109.18302	0.00000	384.20E-6	-4.5366	0.88963	1.5030	-4.2804	340.66
				1.8038	152.43326	109.03366	0.00000	388.94E-6	-4.5926	0.91441	1.5215	-4.3333	340.66
				2.2547	152.85875	108.88430	0.00000	393.69E-6	-4.6487	0.93976	1.5401	-4.3861	340.66
				2.7057	153.28424	108.73494	0.00000	398.43E-6	-4.7047	0.96567	1.5586	-4.4390	340.66
				3.1566	153.70973	108.58558	0.00000	403.18E-6	-4.7607	0.99216	1.5772	-4.4919	340.66
				3.6075	154.13522	108.43622	0.00000	407.92E-6	-4.8167	1.0192	1.5958	-4.5447	340.66
				4.0585	154.56071	108.28686	0.00000	412.67E-6	-4.8728	1.0469	1.6143	-4.5976	340.66
				4.5094	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.0751	1.6329	-4.6504	340.66
		119	23K-18	0.0	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.0751	4.6664	1.5866	251.23
				0.44565	154.84277	107.71556	0.00000	430.81E-6	-5.0870	1.1580	4.8162	1.6376	251.23
				0.89130	154.69935	107.29362	0.00000	444.21E-6	-5.2452	1.2456	4.9660	1.6885	251.23
				1.3370	154.55593	106.87168	0.00000	457.61E-6	-5.4034	1.4197	5.1158	1.7394	251.23
				1.7826	154.41250	106.44973	0.00000	471.01E-6	-5.5617	1.6011	5.2656	1.7904	251.23
				2.2283	154.26907	106.02779	0.00000	484.41E-6	-5.7199	1.7872	5.4154	1.8413	251.23
				2.6739	154.12565	105.60585	0.00000	497.81E-6	-5.8781	1.9780	5.5652	1.8922	251.23
				3.1196	153.98222	105.18391	0.00000	511.21E-6	-6.0363	2.1735	5.7150	1.9432	251.23
				3.5652	153.83880	104.76197	0.00000	524.61E-6	-6.1946	2.3735	5.8648	1.9941	251.23
				4.0109	153.69537	104.34002	0.00000	538.01E-6	-6.3528	2.5781	6.0146	2.0450	251.23
				4.4565	153.55195	103.91808	0.00000	551.41E-6	-6.5110	2.7871	6.1644	2.0960	251.23
				4.9022	153.40852	103.49614	0.00000	564.81E-6	-6.6692	3.0005	6.3142	2.1469	251.23
				5.3478	153.26510	103.07420	0.00000	578.21E-6	-6.8275	3.2180	6.4640	2.1978	251.23
		120	23K-19	0.0	153.26510	103.07420	0.00000	578.21E-6	-6.8275	3.2180	-2.2510	6.4457	160.75
				0.45383	152.83663	103.22379	0.00000	573.45E-6	-6.7713	3.1404	-2.2325	6.3927	160.75
				0.90766	152.40816	103.37338	0.00000	568.70E-6	-6.7152	3.0633	-2.2140	6.3398	160.75
				1.3615	151.97969	103.52297	0.00000	563.95E-6	-6.6591	2.9867	-2.1955	6.2868	160.75
				1.8153	151.55122	103.67256	0.00000	559.20E-6	-6.6030	2.9106	-2.1770	6.2338	160.75
				2.2692	151.12275	103.82215	0.00000	554.45E-6	-6.5469	2.8351	-2.1585	6.1809	160.75
				2.7230	150.69428	103.97174	0.00000	549.70E-6	-6.4908	2.7602	-2.1400	6.1279	160.75
				3.1768	150.26581	104.12133	0.00000	544.94E-6	-6.4347	2.6857	-2.1215	6.0749	160.75
				3.6307	149.83734	104.27092	0.00000	540.19E-6	-6.3786	2.6119	-2.1030	6.0219	160.75
				4.0845	149.40887	104.42051	0.00000	535.44E-6	-6.3225	2.5385	-2.0845	5.9690	160.75
				4.5383	148.98040	104.57010	0.00000	530.69E-6	-6.2664	2.4658	-2.0660	5.9160	160.75
		121	23AB-01	0.0	147.70060	95.28400	0.00000	894.39E-6	-10.561	7.7552	-0.72483	-10.536	3.9404
				0.40048	148.10013	95.31152	0.00000	893.08E-6	-10.545	7.7385	-0.72377	-10.521	3.9404
				0.80095	148.49966	95.33904	0.00000	891.77E-6	-10.530	7.7218	-0.72271	-10.505	3.9404
				1.2014	148.89919	95.36656	0.00000	890.46E-6	-10.515	7.7051	-0.72165	-10.490	3.9404
				1.6019	149.29872	95.39408	0.00000	889.15E-6	-10.499	7.6884	-0.72059	-10.474	3.9404
				2.0024	149.69825	95.42160	0.00000	887.84E-6	-10.484	7.6717	-0.71953	-10.459	3.9404
				2.4029	150.09778	95.44912	0.00000	886.54E-6	-10.468	7.6550	-0.71847	-10.444	3.9404
				2.8033	150.49731	95.47664	0.00000	885.23E-6	-10.453	7.6383	-0.71741	-10.428	3.9404
				3.2038	150.89684	95.50416	0.00000	883.92E-6	-10.437	7.6216	-0.71635	-10.413	3.9404
				3.6043	151.29637	95.53168	0.00000	882.62E-6	-10.422	7.6049	-0.71529	-10.397	3.9404
				4.0048	151.69590	95.55920	0.00000	881.31E-6	-10.407	7.5881	-0.71424	-10.382	3.9404
		122	23AB-02	0.0	151.69590	95.55920	0.00000	881.31E-6	-10.407	7.5881	-10.373	0.83013	94.580
				0.10895	151.68720	95.66780	0.00000	876.15E-6	-10.346	7.5220	-10.313	0.82527	94.580
				0.21790	151.67850	95.77640	0.00000	871.00E-6	-10.285	7.4559	-10.252	0.82042	94.580
		123	23AB-03	0.0	151.67850	95.77640	0.00000	871.00E-6	-10.285	7.4559	-0.72345	-10.259	4.0385
				0.47908	152.15639	95.81014	0.00000	869.40E-6	-10.266	7.4354	-0.72212	-10.240	4.0385
				0.95816	152.63428	95.84388	0.00000	867.80E-6	-10.247	7.4148	-0.72080	-10.222	4.0385
				1.4372	153.11217	95.87762	0.00000	866.20E-6	-10.228	7.3943	-0.71947	-10.203	4.0385
				1.9163	153.59006	95.91136	0.00000	864.61E-6	-10.209	7.3738	-0.71814	-10.184	4.0385
				2.3954	154.06795	95.94510	0.00000	863.01E-6	-10.190	7.3532	-0.71682	-10.165	4.0385
				2.8745	154.54584	95.97884	0.00000	861.41E-6	-10.172	7.3327	-0.71549	-10.146	4.0385
				3.3536	155.02373	96.01258	0.00000	859.82E-6	-10.153	7.3121	-0.71417	-10.128	4.0385
				3.8326	155.50162	96.04632	0.00000	858.22E-6	-10.134	7.2916	-0.71284	-10.109	4.0385
				4.3117	155.97951	96.08006	0.00000	856.63E-6	-10.115	7.2710	-0.71152	-10.090	4.0385
				4.7908	156.45740	96.11380	0.00000	855.03E-6	-10.096	7.2505	-0.71019	-10.071	4.0385
		124	23AB-04	0.0	156.45740	96.11380	0.00000	855.03E-6	-10.096	7.2505	10.071	-0.71014	274.04
				0.46049	156.48983	95.65445	0.00000	876.80E-6	-10.353	7.5304	10.328	-0.72822	274.04
				0.92099	156.52226	95.19510	0.00000	898.66E-6	-10.611	7.8096	10.585	-0.74637	274.04
				1.3815	156.55469	94.73575	0.00000	920.60E-6	-10.870	8.0874	10.844	-0.76459	274.04
				1.8420	156.58711	94.27640	0.00000	942.65E-6	-11.131	8.3634	11.103	-0.78290	274.04
				2.3025	156.61954	93.81705	0.00000	964.80E-6	-11.392	8.6370	11.364	-0.80131	274.04
				2.7630	156.65197	93.35770	0.00000	987.08E-6	-11.655	8.9076	11.627	-0.81981	274.04
				3.2235	156.68440	92.89835	0.00000	0.0010095	-11.920	9.1745	11.891	-0.83842	274.04

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				3.6839	156.71683	92.43900	0.00000	0.0010320	-12.186	9.4372	12.156	-0.85715	274.04
				4.1444	156.74926	91.97965	0.00000	0.0010547	-12.454	9.6949	12.423	-0.87599	274.04
				4.6049	156.78169	91.52030	0.00000	0.0010776	-12.724	9.9470	12.693	-0.89497	274.04
				5.0654	156.81411	91.06095	0.00000	0.0011006	-12.996	10.193	12.964	-0.91409	274.04
				5.5259	156.84654	90.60160	0.00000	0.0011238	-13.270	10.432	13.237	-0.93335	274.04
				5.9864	156.87897	90.14225	0.00000	0.0011472	-13.546	10.663	13.512	-0.95277	274.04
				6.4469	156.91140	89.68290	0.00000	0.0011707	-13.824	10.885	13.790	-0.97235	274.04
		125	23AB-05	0.0	156.91140	89.68290	0.00000	0.0011707	-13.824	10.885	-0.94491	-13.792	3.9242
				0.25352	157.16432	89.70025	0.00000	0.0011699	-13.814	10.877	-0.94419	-13.781	3.9242
				0.50704	157.41725	89.71760	0.00000	0.0011690	-13.803	10.869	-0.94347	-13.771	3.9242
				0.76056	157.67018	89.73495	0.00000	0.0011681	-13.793	10.860	-0.94275	-13.760	3.9242
				1.0141	157.92310	89.75230	0.00000	0.0011672	-13.782	10.852	-0.94203	-13.750	3.9242
		126	23AB-06	0.0	157.92310	89.75230	0.00000	0.0011672	-13.782	10.852	13.737	-1.1073	274.61
				0.45735	157.95989	89.29643	0.00000	0.0011907	-14.060	11.085	14.015	-1.1297	274.61
				0.91471	157.99667	88.84056	0.00000	0.0012145	-14.341	11.268	14.295	-1.1523	274.61
				1.3721	158.03346	88.38469	0.00000	0.0012385	-14.624	11.461	14.577	-1.1750	274.61
				1.8294	158.07024	87.92881	0.00000	0.0012627	-14.910	11.642	14.862	-1.1980	274.61
				2.2868	158.10703	87.47294	0.00000	0.0012872	-15.199	11.810	15.150	-1.2212	274.61
				2.7441	158.14381	87.01707	0.00000	0.0013119	-15.491	11.966	15.441	-1.2446	274.61
				3.2015	158.18060	86.56120	0.00000	0.0013368	-15.785	12.107	15.734	-1.2683	274.61
				3.6588	158.21739	86.10533	0.00000	0.0013621	-16.083	12.234	16.031	-1.2922	274.61
				4.1162	158.25417	85.64946	0.00000	0.0013875	-16.384	12.344	16.331	-1.3164	274.61
				4.5735	158.29096	85.19359	0.00000	0.0014133	-16.688	12.438	16.634	-1.3409	274.61
				5.0309	158.32774	84.73771	0.00000	0.0014394	-16.996	12.513	16.941	-1.3656	274.61
				5.4882	158.36453	84.28184	0.00000	0.0014657	-17.307	12.570	17.251	-1.3906	274.61
				5.9456	158.40131	83.82597	0.00000	0.0014924	-17.622	12.607	17.565	-1.4159	274.61
				6.4029	158.43810	83.37010	0.00000	0.0015194	-17.941	12.623	17.883	-1.4415	274.61
		127	23AB-07	0.0	158.43810	83.37010	0.00000	0.0015194	-17.941	12.623	1.4412	17.883	184.61
				0.41980	158.01966	83.33634	0.00000	0.0015214	-17.965	12.624	1.4431	17.907	184.61
				0.83960	157.60122	83.30258	0.00000	0.0015234	-17.988	12.624	1.4450	17.930	184.61
				1.2594	157.18277	83.26882	0.00000	0.0015254	-18.012	12.624	1.4469	17.954	184.61
				1.6792	156.76433	83.23507	0.00000	0.0015274	-18.036	12.624	1.4488	17.978	184.61
				2.0990	156.34589	83.20131	0.00000	0.0015295	-18.060	12.624	1.4508	18.001	184.61
				2.5188	155.92745	83.16755	0.00000	0.0015315	-18.084	12.624	1.4527	18.025	184.61
				2.9386	155.50901	83.13379	0.00000	0.0015335	-18.107	12.623	1.4546	18.049	184.61
				3.3584	155.09057	83.10003	0.00000	0.0015355	-18.131	12.623	1.4565	18.073	184.61
				3.7782	154.67212	83.06628	0.00000	0.0015375	-18.155	12.622	1.4584	18.097	184.61
				4.1980	154.25368	83.03252	0.00000	0.0015396	-18.179	12.621	1.4603	18.120	184.61
				4.6178	153.83524	82.99876	0.00000	0.0015416	-18.203	12.620	1.4623	18.144	184.61
				5.0376	153.41680	82.96500	0.00000	0.0015436	-18.227	12.619	1.4642	18.168	184.61
		128	23AB-08	0.0	153.41680	82.96500	0.00000	0.0015436	-18.227	12.619	-18.168	1.4618	94.605
				0.14075	153.40550	83.10530	0.00000	0.0015352	-18.128	12.623	-18.069	1.4538	94.605
				0.28151	153.39420	83.24560	0.00000	0.0015268	-18.028	12.624	-17.970	1.4458	94.605
		129	23AB-09	0.0	153.39420	83.24560	0.00000	0.0015268	-18.028	12.624	1.1178	17.994	183.56
				0.46923	152.92588	83.21647	0.00000	0.0015285	-18.049	12.624	1.1191	18.014	183.56
				0.93846	152.45755	83.18733	0.00000	0.0015303	-18.069	12.624	1.1204	18.035	183.56
				1.4077	151.98923	83.15820	0.00000	0.0015320	-18.090	12.624	1.1216	18.055	183.56
				1.8769	151.52090	83.12907	0.00000	0.0015338	-18.111	12.623	1.1229	18.076	183.56
				2.3462	151.05258	83.09993	0.00000	0.0015355	-18.131	12.623	1.1242	18.096	183.56
				2.8154	150.58425	83.07080	0.00000	0.0015372	-18.152	12.622	1.1255	18.117	183.56
				3.2846	150.11593	83.04167	0.00000	0.0015390	-18.172	12.622	1.1267	18.137	183.56
				3.7538	149.64760	83.01253	0.00000	0.0015407	-18.193	12.621	1.1280	18.158	183.56
				4.2231	149.17928	82.98340	0.00000	0.0015425	-18.214	12.620	1.1293	18.179	183.56
				4.6923	148.71095	82.95427	0.00000	0.0015442	-18.234	12.619	1.1306	18.199	183.56
				5.1615	148.24263	82.92513	0.00000	0.0015460	-18.255	12.618	1.1319	18.220	183.56
				5.6308	147.77430	82.89600	0.00000	0.0015478	-18.276	12.617	1.1332	18.241	183.56
		130	23AB-10	0.0	147.77430	82.89600	0.00000	0.0015478	-18.276	12.617	-18.219	1.4351	94.509
				0.38164	147.74430	83.27646	0.00000	0.0015249	-18.006	12.624	-17.951	1.4139	94.509
				0.76329	147.71430	83.65693	0.00000	0.0015023	-17.739	12.616	-17.685	1.3930	94.509
				1.1449	147.68430	84.03739	0.00000	0.0014799	-17.475	12.593	-17.421	1.3722	94.509
				1.5266	147.65430	84.41785	0.00000	0.0014578	-17.214	12.555	-17.160	1.3517	94.509
				1.9082	147.62430	84.79831	0.00000	0.0014358	-16.954	12.504	-16.902	1.3313	94.509
				2.2899	147.59430	85.17878	0.00000	0.0014141	-16.698	12.440	-16.646	1.3112	94.509
				2.6715	147.56430	85.55924	0.00000	0.0013926	-16.444	12.364	-16.393	1.2912	94.509
				3.0531	147.53430	85.93970	0.00000	0.0013712	-16.192	12.275	-16.142	1.2714	94.509
		131	23AB-11	0.0	147.53430	85.93970	0.00000	0.0013712	-16.192	12.275	-1.1061	-16.154	3.9220
				0.46163	147.99485	85.97128	0.00000	0.0013695	-16.171	12.268	-1.1047	-16.133	3.9220
				0.92326	148.45540	86.00285	0.00000	0.0013677	-16.150	12.260	-1.1033	-16.112	3.9220
				1.3849	148.91595	86.03442	0.00000	0.0013660	-16.129	12.252	-1.1019	-16.092	3.9220
				1.8465	149.37650	86.06600	0.00000	0.0013642	-16.109	12.244	-1.1004	-16.071	3.9220
		132	23AB-12	0.0	149.37650	86.06600	0.00000	0.0013642	-16.109	12.244	-16.071	1.1004	93.922
				0.47810	149.34380	86.54298	0.00000	0.0013378	-15.797	12.112	-15.760	1.0791	93.922
				0.95621	149.31110	87.01997	0.00000	0.0013117	-15.488	11.965	-15.452	1.0580	93.922
				1.4343	149.27840	87.49695	0.00000	0.0012859	-15.183	11.802	-15.148	1.0372	93.922
				1.9124	149.24570	87.97393	0.00000	0.0012603	-14.881	11.624	-14.847	1.0166	93.922
				2.3905	149.21300	88.45092	0.00000	0.0012350	-14.583	11.433	-14.549	0.99615	93.922
				2.8686	149.18030	88.92790	0.00000	0.0012099	-14.287	11.230	-14.253	0.97593	93.922
		133	23AB-13	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	11.230	1.2452	14.232	185.01
				0.25818	148.92310	88.90537	0.00000	0.0012111	-14.301	11.240	1.2464	14.246	185.01
				0.51637	148.66590	88.88285	0.00000	0.0012123	-14.314	11.249	1.2476	14.260	185.01
				0.77455	148.40870	88.86033	0.00000	0.0012134	-14.328	11.259	1.2489	14.274	185.01
				1.0327	148.15150	88.83780	0.00000	0.0012146	-14.342	11.269	1.2501	14.288	185.01
		134	23AB-14	0.0	148.15150	88.83780	0.00000	0.0012146	-14.342	11.269	-14.307	0.99956	94.001
				0.46157	148.11929	89.29824	0.00000	0.0011906	-14.059	11.064	-14.025	0.97980	94.001
				0.92314	148.08709	89.75869	0.00000	0.0011668	-13.778	10.849	-13.744	0.96021	94.001
				1.3847	148.05488	90.21913	0.00000	0.0011432	-13.499	10.624	-13.466	0.94079	94.001
				1.8463	148.02267	90.67957	0.00000	0.0011198	-13.223	10.391	-13.191	0.92153	94.001
				2.3078	147.99046	91.14001	0.00000	0.0010966	-12.949	10.151	-12.917	0.90243	94.001
				2.7694	147.95826	91.60046	0.00000	0.0010735	-12.676	9.9031	-12.646	0.88346	94.001
				3.2310	147.92605	92.06090	0.00000	0.0010507	-12.406	9.6493	-12.376	0.86464	94.001
				3.6925	147.89384	92.52134	0.00000	0.0010280	-12.138	9.3900	-12.109	0.84594	94.001
				4.1541	147.86164	92.98179	0.00000	0.0010054	-11.871	9.1259	-11.843	0.82736	94.001
				4.6157	147.82943	93.44223	0.00000	982.94E-6	-11.607	8.8577	-11.578	0.80890	94.001
				5.0772	147.79722	93.90267	0.00000	960.63E-6	-11.343	8.5858	-11.316	0.79054	94.001
				5.5388	147.76501	94.36311	0.00000	938.44E-6	-11.081	8.3111	-11.054	0.77228	94.001
				6.0004	147.73281	94.82356	0.00000	916.37E-6	-10.820	8.0340	-10.794	0.75411	94.001
				6.4620	147.70060	95.28400	0.00000	894.39E-6	-10.561	7.7552	-10.535	0.73602	94.001
		135	23AB-15	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	11.230	-1.3892	-14.219	5.5852
				0.48350	149.66150	88.97496	0.00000	0.0012075	-14.258	11.209	-1.3864	-14.190	5.5852
				0.96699	150.14270	89.02201	0.00000	0.0012050	-14.229	11.188	-1.3836	-14.161	5.5852
				1.4505	150.62390	89.06907	0.00000	0.0012025	-14.200	11.167	-1.3808	-14.132	5.5852
				1.9340	151.10510	89.11612	0.00000	0.0012001	-14.171	11.146	-1.3780	-14.104	5.5852
				2.4175	151.58630	89.16318	0.00000	0.0011976	-14.142	11.125	-1.3752	-14.075	5.5852
				2.9010	152.06750	89.21024	0.00000	0.0011952	-14.113	11.104	-1.3724	-14.046	5.5852
				3.3845	152.54870	89.25729	0.00000	0.0011928	-14.084	11.083	-1.3695	-14.017	5.5852
				3.8680	153.02990	89.30435	0.00000	0.0011903	-14.055	11.061	-1.3667	-13.989	5.5852
				4.3515	153.51110	89.35141	0.00000	0.0011879	-14.026	11.040	-1.3639	-13.960	5.5852
				4.8350	153.99230	89.39846	0.00000	0.0011854	-13.998	11.018	-1.3611	-13.931	5.5852
				5.3184	154.47350	89.44552	0.00000	0.0011830	-13.969	10.996	-1.3583	-13.903	5.5852
				5.8019	154.95470	89.49258	0.00000	0.0011806	-13.940	10.974	-1.3556	-13.874	5.5852
				6.2854	155.43590	89.53963	0.00000	0.0011781	-13.911	10.952	-1.3528	-13.846	5.5852
				6.7689	155.91710	89.58669	0.00000	0.0011757	-13.883	10.930	-1.3500	-13.817	5.5852
				7.2524	156.39830	89.63374	0.00000	0.0011733	-13.854	10.908	-1.3472	-13.788	5.5852
				7.7359	156.87950	89.68080	0.00000	0.0011709	-13.825	10.886	-1.3444	-13.760	5.5852
		136	28K-01	0.0	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				0.46362	157.45751	132.74754	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				0.92724	157.87132	132.53848	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				1.3909	158.28512	132.32941	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				1.8545	158.69893	132.12035	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				2.3181	159.11274	131.91129	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				2.7817	159.52655	131.70222	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				3.2453	159.94036	131.49316	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				3.7090	160.35417	131.28410	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				4.1726	160.76798	131.07504	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				4.6362	161.18178	130.86597	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				5.0998	161.59559	130.65691	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				5.5635	162.00940	130.44785	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				6.0271	162.42321	130.23879	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				6.4907	162.83702	130.02973	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				6.9543	163.25082	129.82066	0.00000	0.0	0.0	0.0	0.0	0.0	333.20

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]
				7.4179	163.66463	129.61160	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				7.8816	164.07844	129.40254	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				8.3452	164.49225	129.19348	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				8.8088	164.90606	128.98441	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				9.2724	165.31987	128.77535	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				9.7360	165.73368	128.56629	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				10.200	166.14748	128.35722	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				10.663	166.56129	128.14816	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
				11.127	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0	0.0	333.20
		137	28K-02	0.0	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				0.46979	166.97510	127.46931	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				0.93957	166.97510	126.99953	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				1.4094	166.97510	126.52974	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				1.8791	166.97510	126.05995	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				2.3489	166.97510	125.59016	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				2.8187	166.97510	125.12037	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				3.2885	166.97510	124.65059	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
				3.7583	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0	0.0	270.00
		138	28K-03	0.0	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				0.49736	166.75082	123.73688	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				0.99472	166.52654	123.29296	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				1.4921	166.30227	122.84903	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				1.9894	166.07799	122.40511	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				2.4868	165.85371	121.96119	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				2.9842	165.62943	121.51727	0.00000	0.0	0.0	0.0	0.0	0.0	243.20
				3.4815	165.40516	121.07334	0.00000	6.6222E-6	-0.078195	0.025326	0.069791	0.035267	243.20
				3.9789	165.18088	120.62942	0.00000	20.720E-6	-0.24466	0.056114	0.21836	0.11034	243.20
				4.4762	164.95660	120.18550	0.00000	34.817E-6	-0.41112	0.083271	0.36693	0.18542	243.20
				4.9736	164.73232	119.74158	0.00000	48.914E-6	-0.57758	0.10736	0.51550	0.26050	243.20
				5.4710	164.50804	119.29766	0.00000	63.012E-6	-0.74404	0.12893	0.66407	0.33557	243.20
				5.9683	164.28377	118.85373	0.00000	77.109E-6	-0.91050	0.14850	0.81264	0.41065	243.20
				6.4657	164.05949	118.40981	0.00000	91.206E-6	-1.0770	0.16659	0.96121	0.48572	243.20
				6.9630	163.83521	117.96589	0.00000	105.30E-6	-1.2434	0.18368	1.1098	0.56080	243.20
				7.4604	163.61093	117.52197	0.00000	119.40E-6	-1.4099	0.20024	1.2584	0.63588	243.20
				7.9578	163.38666	117.07804	0.00000	133.50E-6	-1.5764	0.21672	1.4069	0.71095	243.20
				8.4551	163.16238	116.63412	0.00000	147.60E-6	-1.7428	0.23357	1.5555	0.78603	243.20
				8.9525	162.93810	116.19020	0.00000	161.69E-6	-1.9093	0.25119	1.7041	0.86111	243.20
		139	28K-04	0.0	162.93810	116.19020	0.00000	161.69E-6	-1.9093	0.25119	-0.83319	1.7179	154.13
				0.48162	162.50474	116.40034	0.00000	155.02E-6	-1.8305	0.24272	-0.79880	1.6470	154.13
				0.96323	162.07139	116.61048	0.00000	148.34E-6	-1.7516	0.23448	-0.76441	1.5761	154.13
				1.4449	161.63803	116.82061	0.00000	141.67E-6	-1.6728	0.22642	-0.73001	1.5051	154.13
				1.9265	161.20468	117.03075	0.00000	134.99E-6	-1.5940	0.21849	-0.69562	1.4342	154.13
				2.4081	160.77132	117.24089	0.00000	128.32E-6	-1.5152	0.21065	-0.66122	1.3633	154.13
				2.8897	160.33796	117.45103	0.00000	121.65E-6	-1.4364	0.20286	-0.62683	1.2924	154.13
				3.3713	159.90461	117.66116	0.00000	114.97E-6	-1.3576	0.19506	-0.59244	1.2215	154.13
				3.8529	159.47125	117.87130	0.00000	108.30E-6	-1.2788	0.18722	-0.55804	1.1506	154.13
				4.3346	159.03789	118.08144	0.00000	101.62E-6	-1.1999	0.17928	-0.52365	1.0797	154.13
				4.8162	158.60454	118.29158	0.00000	94.947E-6	-1.1211	0.17120	-0.48925	1.0087	154.13
				5.2978	158.17118	118.50171	0.00000	88.272E-6	-1.0423	0.16292	-0.45486	0.93783	154.13
				5.7794	157.73782	118.71185	0.00000	81.598E-6	-0.96351	0.15440	-0.42047	0.86692	154.13
				6.2610	157.30447	118.92199	0.00000	74.923E-6	-0.88469	0.14558	-0.38607	0.79601	154.13
				6.7426	156.87111	119.13213	0.00000	68.248E-6	-0.80588	0.13641	-0.35168	0.72509	154.13
				7.2243	156.43776	119.34226	0.00000	61.574E-6	-0.72706	0.12683	-0.31728	0.65418	154.13
				7.7059	156.00440	119.55240	0.00000	54.899E-6	-0.64825	0.11680	-0.28289	0.58326	154.13
		140	28K-05	0.0	156.00440	119.55240	0.00000	54.899E-6	-0.64825	0.11680	-0.58189	-0.28572	63.853
				0.45854	156.20647	119.96402	0.00000	41.827E-6	-0.49390	0.095600	-0.44334	-0.21769	63.853
				0.91709	156.40854	120.37564	0.00000	28.756E-6	-0.33955	0.072003	-0.30479	-0.14966	63.853
				1.3756	156.61061	120.78726	0.00000	15.684E-6	-0.18520	0.045563	-0.16624	-0.081627	63.853
				1.8342	156.81268	121.19888	0.00000	2.6125E-6	-0.030849	0.015826	-0.027691	-0.013597	63.853
				2.2927	157.01474	121.61049	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				2.7513	157.21681	122.02211	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				3.2098	157.41888	122.43373	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				3.6683	157.62095	122.84535	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				4.1269	157.82302	123.25697	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				4.5854	158.02509	123.66859	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				5.0440	158.22716	124.08021	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				5.5025	158.42923	124.49183	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				5.9611	158.63129	124.90344	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				6.4196	158.83336	125.31506	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				6.8781	159.03543	125.72668	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
				7.3367	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0	0.0	63.853
		141	28K-06	0.0	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				0.49484	158.79330	126.35637	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				0.98968	158.34910	126.57444	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				1.4845	157.90490	126.79251	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				1.9794	157.46070	127.01058	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				2.4742	157.01650	127.22865	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				2.9690	156.57230	127.44672	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				3.4639	156.12810	127.66479	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				3.9587	155.68390	127.88286	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				4.4536	155.23970	128.10093	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
				4.9484	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0	0.0	153.85
		142	28K-07	0.0	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				0.42948	154.98285	128.70547	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				0.85897	155.17020	129.09193	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				1.2885	155.35755	129.47840	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				1.7179	155.54490	129.86487	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				2.1474	155.73225	130.25133	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				2.5769	155.91960	130.63780	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				3.0064	156.10695	131.02427	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				3.4359	156.29430	131.41073	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				3.8654	156.48165	131.79720	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				4.2948	156.66900	132.18367	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				4.7243	156.85635	132.57013	0.00000	0.0	0.0	0.0	0.0	0.0	64.137
				5.1538	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0	0.0	64.137

Displacement Results - Displacement Grids

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
0	Base Model	1	A	0.00000	0.00000	0.00000	0.0	0.0	0.0
				5.09524	0.00000	0.00000	0.0	0.0	0.0
				10.19048	0.00000	0.00000	0.0	0.0	0.0
				15.28571	0.00000	0.00000	0.0	0.0	0.0
				20.38095	0.00000	0.00000	0.0	0.0	0.0
				25.47619	0.00000	0.00000	0.0	0.0	0.0
				30.57143	0.00000	0.00000	0.0	0.0	0.0
				35.66667	0.00000	0.00000	0.0	0.0	0.0
				40.76190	0.00000	0.00000	0.0	0.0	0.0
				45.85714	0.00000	0.00000	0.0	0.0	0.0
				50.95238	0.00000	0.00000	0.0	0.0	0.0
				56.04762	0.00000	0.00000	0.0	0.0	0.0
				61.14286	0.00000	0.00000	0.0	0.0	0.0
				66.23810	0.00000	0.00000	0.0	0.0	0.0
				71.33333	0.00000	0.00000	0.0	0.0	0.0
				76.42857	0.00000	0.00000	0.0	0.0	0.0
				81.52381	0.00000	0.00000	0.0	0.0	0.0
				86.61905	0.00000	0.00000	0.0	0.0	0.0
				91.71429	0.00000	0.00000	0.0	0.0	0.0
				96.80952	0.00000	0.00000	0.0	0.0	0.0
				101.90476	0.00000	0.00000	0.0	0.0	0.0
				107.00000	0.00000	0.00000	0.0	0.0	0.0
				0.00000	5.00000	0.00000	0.0	0.0	0.0
				5.09524	5.00000	0.00000	0.0	0.0	0.0
				10.19048	5.00000	0.00000	0.0	0.0	0.0
				15.28571	5.00000	0.00000	0.0	0.0	0.0

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				20.38095	5.00000	0.00000	0.0	0.0	0.0
				25.47619	5.00000	0.00000	0.0	0.0	0.0
				30.57143	5.00000	0.00000	0.0	0.0	0.0
				35.66667	5.00000	0.00000	0.0	0.0	0.0
				40.76190	5.00000	0.00000	0.0	0.0	0.0
				45.85714	5.00000	0.00000	0.0	0.0	0.0
				50.95238	5.00000	0.00000	0.0	0.0	0.0
				56.04762	5.00000	0.00000	0.0	0.0	0.0
				61.14286	5.00000	0.00000	0.0	0.0	0.0
				66.23810	5.00000	0.00000	0.0	0.0	0.0
				71.33333	5.00000	0.00000	0.0	0.0	0.0
				76.42857	5.00000	0.00000	0.0	0.0	0.0
				81.52381	5.00000	0.00000	0.0	0.0	0.0
				86.61905	5.00000	0.00000	0.0	0.0	0.0
				91.71429	5.00000	0.00000	0.0	0.0	0.0
				96.80952	5.00000	0.00000	0.0	0.0	0.0
				101.90476	5.00000	0.00000	0.0	0.0	0.0
				107.00000	5.00000	0.00000	0.0	0.0	0.0
				0.00000	10.00000	0.00000	0.0	0.0	0.0
				5.09524	10.00000	0.00000	0.0	0.0	0.0
				10.19048	10.00000	0.00000	0.0	0.0	0.0
				15.28571	10.00000	0.00000	0.0	0.0	0.0
				20.38095	10.00000	0.00000	0.0	0.0	0.0
				25.47619	10.00000	0.00000	0.0	0.0	0.0
				30.57143	10.00000	0.00000	0.0	0.0	0.0
				35.66667	10.00000	0.00000	0.0	0.0	0.0
				40.76190	10.00000	0.00000	0.0	0.0	0.0
				45.85714	10.00000	0.00000	0.0	0.0	0.0
				50.95238	10.00000	0.00000	0.0	0.0	0.0
				56.04762	10.00000	0.00000	0.0	0.0	0.0
				61.14286	10.00000	0.00000	0.0	0.0	0.0
				66.23810	10.00000	0.00000	0.0	0.0	0.0
				71.33333	10.00000	0.00000	0.0	0.0	0.0
				76.42857	10.00000	0.00000	0.0	0.0	0.0
				81.52381	10.00000	0.00000	0.0	0.0	0.0
				86.61905	10.00000	0.00000	0.0	0.0	0.0
				91.71429	10.00000	0.00000	0.0	0.0	0.0
				96.80952	10.00000	0.00000	0.0	0.0	0.0
				101.90476	10.00000	0.00000	0.0	0.0	0.0
				107.00000	10.00000	0.00000	0.0	0.0	0.0
				0.00000	15.00000	0.00000	0.0	0.0	0.0
				5.09524	15.00000	0.00000	0.0	0.0	0.0
				10.19048	15.00000	0.00000	0.0	0.0	0.0
				15.28571	15.00000	0.00000	0.0	0.0	0.0
				20.38095	15.00000	0.00000	0.0	0.0	0.0
				25.47619	15.00000	0.00000	0.0	0.0	0.0
				30.57143	15.00000	0.00000	0.0	0.0	0.0
				35.66667	15.00000	0.00000	0.0	0.0	0.0
				40.76190	15.00000	0.00000	0.0	0.0	0.0
				45.85714	15.00000	0.00000	0.0	0.0	0.0
				50.95238	15.00000	0.00000	0.0	0.0	0.0
				56.04762	15.00000	0.00000	0.0	0.0	0.0
				61.14286	15.00000	0.00000	0.0	0.0	0.0
				66.23810	15.00000	0.00000	0.0	0.0	0.0
				71.33333	15.00000	0.00000	0.0	0.0	0.0
				76.42857	15.00000	0.00000	0.0	0.0	0.0
				81.52381	15.00000	0.00000	0.0	0.0	0.0
				86.61905	15.00000	0.00000	0.026199	-0.0073971	0.0073898
				91.71429	15.00000	0.00000	0.10968	-0.030966	0.018487
				96.80952	15.00000	0.00000	0.043797	-0.012366	0.0085568
				101.90476	15.00000	0.00000	0.0	0.0	0.0
				107.00000	15.00000	0.00000	0.0	0.0	0.0
				0.00000	20.00000	0.00000	0.0	0.0	0.0
				5.09524	20.00000	0.00000	0.0	0.0	0.0
				10.19048	20.00000	0.00000	0.0	0.0	0.0
				15.28571	20.00000	0.00000	0.0	0.0	0.0
				20.38095	20.00000	0.00000	0.0	0.0	0.0
				25.47619	20.00000	0.00000	0.0	0.0	0.0
				30.57143	20.00000	0.00000	0.0	0.0	0.0
				35.66667	20.00000	0.00000	0.0	0.0	0.0
				40.76190	20.00000	0.00000	0.0	0.0	0.0
				45.85714	20.00000	0.00000	0.0	0.0	0.0
				50.95238	20.00000	0.00000	0.0	0.0	0.0
				56.04762	20.00000	0.00000	0.0	0.0	0.0
				61.14286	20.00000	0.00000	0.0	0.0	0.0
				66.23810	20.00000	0.00000	0.0	0.0	0.0
				71.33333	20.00000	0.00000	0.0	0.0	0.0
				76.42857	20.00000	0.00000	0.0	0.0	0.0
				81.52381	20.00000	0.00000	0.18747	-0.052930	0.036275
				86.61905	20.00000	0.00000	0.39786	-0.11233	0.081096
				91.71429	20.00000	0.00000	0.39802	-0.11238	0.13198
				96.80952	20.00000	0.00000	0.19672	-0.055542	0.078255
				101.90476	20.00000	0.00000	0.0	0.0	0.0
				107.00000	20.00000	0.00000	0.0	0.0	0.0
				0.00000	25.00000	0.00000	0.0	0.0	0.0
				5.09524	25.00000	0.00000	0.0	0.0	0.0
				10.19048	25.00000	0.00000	0.0	0.0	0.0
				15.28571	25.00000	0.00000	0.0	0.0	0.0
				20.38095	25.00000	0.00000	0.0	0.0	0.0
				25.47619	25.00000	0.00000	0.0	0.0	0.0
				30.57143	25.00000	0.00000	0.0	0.0	0.0
				35.66667	25.00000	0.00000	0.0	0.0	0.0
				40.76190	25.00000	0.00000	0.0	0.0	0.0
				45.85714	25.00000	0.00000	0.0	0.0	0.0
				50.95238	25.00000	0.00000	0.0	0.0	0.0
				56.04762	25.00000	0.00000	0.0	0.0	0.0
				61.14286	25.00000	0.00000	0.0	0.0	0.0
				66.23810	25.00000	0.00000	0.0	0.0	0.0
				71.33333	25.00000	0.00000	0.0	0.0	0.0
				76.42857	25.00000	0.00000	0.29476	-0.083223	0.055260
				81.52381	25.00000	0.00000	0.73095	-0.20638	0.18713
				86.61905	25.00000	0.00000	0.92455	-0.26104	0.35342
				91.71429	25.00000	0.00000	0.84991	-0.23997	0.39519
				96.80952	25.00000	0.00000	0.50082	-0.14140	0.26645
				101.90476	25.00000	0.00000	0.0	0.0	0.0
				107.00000	25.00000	0.00000	0.0	0.0	0.0
				0.00000	30.00000	0.00000	0.0	0.0	0.0
				5.09524	30.00000	0.00000	0.0	0.0	0.0
				10.19048	30.00000	0.00000	0.0	0.0	0.0
				15.28571	30.00000	0.00000	0.0	0.0	0.0
				20.38095	30.00000	0.00000	0.0	0.0	0.0
				25.47619	30.00000	0.00000	0.0	0.0	0.0
				30.57143	30.00000	0.00000	0.0	0.0	0.0
				35.66667	30.00000	0.00000	0.0	0.0	0.0
				40.76190	30.00000	0.00000	0.0	0.0	0.0
				45.85714	30.00000	0.00000	0.0	0.0	0.0
				50.95238	30.00000	0.00000	0.0	0.0	0.0
				56.04762	30.00000	0.00000	0.0	0.0	0.0
				61.14286	30.00000	0.00000	0.0	0.0	0.0
				66.23810	30.00000	0.00000	0.0	0.0	0.0
				71.33333	30.00000	0.00000	0.19879	-0.056125	0.043799
				76.42857	30.00000	0.00000	0.93040	-0.26269	0.21882
				81.52381	30.00000	0.00000	1.4297	-0.40366	0.55821
				86.61905	30.00000	0.00000	1.6441	-0.46419	0.81247
				91.71429	30.00000	0.00000	1.5497	-0.43753	0.89455
				96.80952	30.00000	0.00000	1.0929	-0.30856	0.75881
				101.90476	30.00000	0.00000	0.23522	0.17355	0.63471
				107.00000	30.00000	0.00000	0.36773	1.2699	0.96576
				0.00000	35.00000	0.00000	0.0	0.0	0.0
				5.09524	35.00000	0.00000	0.0	0.0	0.0

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				10.19048	35.00000	0.00000	0.0	0.0	0.0
				15.28571	35.00000	0.00000	0.0	0.0	0.0
				20.38095	35.00000	0.00000	0.0	0.0	0.0
				25.47619	35.00000	0.00000	0.0	0.0	0.0
				30.57143	35.00000	0.00000	0.0	0.0	0.0
				35.66667	35.00000	0.00000	0.0	0.0	0.0
				40.76190	35.00000	0.00000	0.0	0.0	0.0
				45.85714	35.00000	0.00000	0.0	0.0	0.0
				50.95238	35.00000	0.00000	0.0	0.0	0.0
				56.04762	35.00000	0.00000	0.0	0.0	0.0
				61.14286	35.00000	0.00000	0.0	0.0	0.0
				66.23810	35.00000	0.00000	0.10996	0.38337	0.30809
				71.33333	35.00000	0.00000	0.97966	0.30792	0.72585
				76.42857	35.00000	0.00000	1.7595	0.071180	1.3678
				81.52381	35.00000	0.00000	2.2644	-0.33147	1.6944
				86.61905	35.00000	0.00000	2.6458	-0.70868	1.6765
				91.71429	35.00000	0.00000	2.7092	-0.76492	2.0118
				96.80952	35.00000	0.00000	2.4800	0.70576	2.4596
				101.90476	35.00000	0.00000	1.6042	2.6288	2.3257
				107.00000	35.00000	0.00000	1.3392	4.6246	2.4847
				0.00000	40.00000	0.00000	0.0	0.0	0.0
				5.09524	40.00000	0.00000	0.0	0.0	0.0
				10.19048	40.00000	0.00000	0.0	0.0	0.0
				15.28571	40.00000	0.00000	0.0	0.0	0.0
				20.38095	40.00000	0.00000	0.0	0.0	0.0
				25.47619	40.00000	0.00000	0.0	0.0	0.0
				30.57143	40.00000	0.00000	0.0	0.0	0.0
				35.66667	40.00000	0.00000	0.0	0.0	0.0
				40.76190	40.00000	0.00000	0.0	0.0	0.0
				45.85714	40.00000	0.00000	0.0	0.0	0.0
				50.95238	40.00000	0.00000	0.076218	0.12418	0.17004
				56.04762	40.00000	0.00000	0.26737	0.75399	0.73880
				61.14286	40.00000	0.00000	0.40650	1.4173	1.1649
				66.23810	40.00000	0.00000	0.95226	2.1590	1.7491
				71.33333	40.00000	0.00000	2.2374	1.7180	2.4510
				76.42857	40.00000	0.00000	2.8934	1.1056	3.3585
				81.52381	40.00000	0.00000	3.0557	0.078473	3.7010
				86.61905	40.00000	0.00000	3.8310	-0.85891	3.8230
				91.71429	40.00000	0.00000	4.5877	-0.10787	4.1359
				96.80952	40.00000	0.00000	4.5882	1.8966	4.7029
				101.90476	40.00000	0.00000	3.6028	5.0043	5.0264
				107.00000	40.00000	0.00000	2.4083	8.3165	5.2594
				0.00000	45.00000	0.00000	0.0	0.0	0.0
				5.09524	45.00000	0.00000	0.0	0.0	0.0
				10.19048	45.00000	0.00000	0.0	0.0	0.0
				15.28571	45.00000	0.00000	0.0	0.0	0.0
				20.38095	45.00000	0.00000	0.0	0.0	0.0
				25.47619	45.00000	0.00000	0.0	0.0	0.0
				30.57143	45.00000	0.00000	0.0	0.0	0.0
				35.66667	45.00000	0.00000	0.0	0.0	0.0
				40.76190	45.00000	0.00000	0.0	0.0	0.0
				45.85714	45.00000	0.00000	0.071868	0.044234	0.11465
				50.95238	45.00000	0.00000	0.57913	0.59864	1.0580
				56.04762	45.00000	0.00000	0.96466	1.9341	2.1370
				61.14286	45.00000	0.00000	1.0054	3.5054	3.0716
				66.23810	45.00000	0.00000	2.2872	4.6458	4.3108
				71.33333	45.00000	0.00000	3.8223	3.9344	5.1520
				76.42857	45.00000	0.00000	4.3352	2.4710	5.9796
				81.52381	45.00000	0.00000	4.0220	0.0092943	6.2791
				86.61905	45.00000	0.00000	5.1136	-0.86762	6.6300
				91.71429	45.00000	0.00000	6.5949	-0.14918	6.9426
				96.80952	45.00000	0.00000	7.4120	2.0706	7.7139
				101.90476	45.00000	0.00000	6.4338	5.9777	8.8804
				107.00000	45.00000	0.00000	3.4324	11.831	9.1362
				0.00000	50.00000	0.00000	0.0	0.0	0.0
				5.09524	50.00000	0.00000	0.0	0.0	0.0
				10.19048	50.00000	0.00000	0.0	0.0	0.0
				15.28571	50.00000	0.00000	0.0	0.0	0.0
				20.38095	50.00000	0.00000	0.0	0.0	0.0
				25.47619	50.00000	0.00000	0.0	0.0	0.0
				30.57143	50.00000	0.00000	0.0	0.0	0.0
				35.66667	50.00000	0.00000	0.0	0.0	0.0
				40.76190	50.00000	0.00000	0.0	0.0	0.0
				45.85714	50.00000	0.00000	0.54979	0.14779	0.62295
				50.95238	50.00000	0.00000	1.6264	0.71719	1.9898
				56.04762	50.00000	0.00000	2.2692	2.2282	3.7588
				61.14286	50.00000	0.00000	1.6432	5.7290	5.3282
				66.23810	50.00000	0.00000	3.5713	7.1302	6.6943
				71.33333	50.00000	0.00000	5.6042	6.8507	7.4931
				76.42857	50.00000	0.00000	5.8935	4.2532	7.7372
				81.52381	50.00000	0.00000	3.2923	-1.3525	8.9210
				86.61905	50.00000	0.00000	6.7369	-1.8365	9.5047
				91.71429	50.00000	0.00000	10.009	-1.2464	10.285
				96.80952	50.00000	0.00000	11.503	0.35750	11.201
				101.90476	50.00000	0.00000	10.829	3.9970	12.601
				107.00000	50.00000	0.00000	6.9743	12.610	13.186
				0.00000	55.00000	0.00000	0.0	0.0	0.0
				5.09524	55.00000	0.00000	0.0	0.0	0.0
				10.19048	55.00000	0.00000	0.0	0.0	0.0
				15.28571	55.00000	0.00000	0.0	0.0	0.0
				20.38095	55.00000	0.00000	0.0	0.0	0.0
				25.47619	55.00000	0.00000	0.0	0.0	0.0
				30.57143	55.00000	0.00000	0.0	0.0	0.0
				35.66667	55.00000	0.00000	0.0	0.0	0.0
				40.76190	55.00000	0.00000	0.0	0.0	0.0
				45.85714	55.00000	0.00000	0.96141	0.025056	0.86110
				50.95238	55.00000	0.00000	2.9304	0.11813	2.6230
				56.04762	55.00000	0.00000	5.1822	0.40363	5.0001
				61.14286	55.00000	0.00000	5.3116	3.2565	5.5548
				66.23810	55.00000	0.00000	Point lies within an excavation.		
				71.33333	55.00000	0.00000	Point lies within an excavation.		
				76.42857	55.00000	0.00000	6.4008	-1.8072	3.0384
				81.52381	55.00000	0.00000	3.3907	-2.6032	10.713
				86.61905	55.00000	0.00000	8.9232	-3.0098	11.727
				91.71429	55.00000	0.00000	14.114	-3.1359	13.431
				96.80952	55.00000	0.00000	18.192	-3.0238	15.646
				101.90476	55.00000	0.00000	20.506	-2.2965	17.500
				107.00000	55.00000	0.00000	18.769	1.7576	15.432
				0.00000	60.00000	0.00000	0.0	0.0	0.0
				5.09524	60.00000	0.00000	0.0	0.0	0.0
				10.19048	60.00000	0.00000	0.0	0.0	0.0
				15.28571	60.00000	0.00000	0.0	0.0	0.0
				20.38095	60.00000	0.00000	0.0	0.0	0.0
				25.47619	60.00000	0.00000	0.0	0.0	0.0
				30.57143	60.00000	0.00000	0.0	0.0	0.0
				35.66667	60.00000	0.00000	0.0	0.0	0.0
				40.76190	60.00000	0.00000	0.0	0.0	0.0
				45.85714	60.00000	0.00000	1.3590	0.0	0.91630
				50.95238	60.00000	0.00000	3.9410	0.0	2.9759
				56.04762	60.00000	0.00000	7.0064	0.0	5.9386
				61.14286	60.00000	0.00000	10.656	0.0	6.6304
				66.23810	60.00000	0.00000	Point lies within an excavation.		
				71.33333	60.00000	0.00000	Point lies within an excavation.		
				76.42857	60.00000	0.00000	7.3180	-2.0662	3.3756
				81.52381	60.00000	0.00000	4.0690	-3.0414	11.990
				86.61905	60.00000	0.00000	10.787	-3.9900	13.308
				91.71429	60.00000	0.00000	17.606	-5.1168	15.738
				96.80952	60.00000	0.00000	24.271	-6.8044	19.192
				101.90476	60.00000	0.00000	30.138	-8.5093	22.503
				107.00000	60.00000	0.00000	36.626	-10.341	22.550

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				0.00000	65.00000	0.00000	0.0	0.0	0.0
				5.09524	65.00000	0.00000	0.0	0.0	0.0
				10.19048	65.00000	0.00000	0.0	0.0	0.0
				15.28571	65.00000	0.00000	0.0	0.0	0.0
				20.38095	65.00000	0.00000	0.0	0.0	0.0
				25.47619	65.00000	0.00000	0.0	0.0	0.0
				30.57143	65.00000	0.00000	0.0	0.0	0.0
				35.66667	65.00000	0.00000	0.0	0.0	0.0
				40.76190	65.00000	0.00000	0.0	0.0	0.0
				45.85714	65.00000	0.00000	1.2758	0.056602	1.0627
				50.95238	65.00000	0.00000	3.6095	-0.036881	3.3012
				56.04762	65.00000	0.00000	6.1197	-1.0499	6.0155
				61.14286	65.00000	0.00000	9.2098	-3.4386	6.7628
				66.23810	65.00000	0.00000	Point lies within an excavation.		
				71.33333	65.00000	0.00000	Point lies within an excavation.		
				76.42857	65.00000	0.00000	7.7514	-2.1885	3.3398
				81.52381	65.00000	0.00000	4.0760	-3.2901	12.628
				86.61905	65.00000	0.00000	11.963	-4.6379	13.955
				91.71429	65.00000	0.00000	19.951	-6.1170	16.781
				96.80952	65.00000	0.00000	27.429	-7.7443	20.943
				101.90476	65.00000	0.00000	33.777	-9.5366	25.212
				107.00000	65.00000	0.00000	40.770	-11.511	26.252
				0.00000	70.00000	0.00000	0.0	0.0	0.0
				5.09524	70.00000	0.00000	0.0	0.0	0.0
				10.19048	70.00000	0.00000	0.0	0.0	0.0
				15.28571	70.00000	0.00000	0.0	0.0	0.0
				20.38095	70.00000	0.00000	0.0	0.0	0.0
				25.47619	70.00000	0.00000	0.0	0.0	0.0
				30.57143	70.00000	0.00000	0.0	0.0	0.0
				35.66667	70.00000	0.00000	0.039150	0.068162	0.083270
				40.76190	70.00000	0.00000	0.46511	0.85897	0.68197
				45.85714	70.00000	0.00000	1.4815	0.96155	1.9007
				50.95238	70.00000	0.00000	3.2486	0.54468	4.0173
				56.04762	70.00000	0.00000	5.1958	-0.67259	6.7133
				61.14286	70.00000	0.00000	7.8773	-2.3497	8.2866
				66.23810	70.00000	0.00000	Point lies within an excavation.		
				71.33333	70.00000	0.00000	Point lies within an excavation.		
				76.42857	70.00000	0.00000	8.3512	-2.3579	3.0247
				81.52381	70.00000	0.00000	5.4656	-3.6010	12.170
				86.61905	70.00000	0.00000	13.830	-5.1113	13.839
				91.71429	70.00000	0.00000	22.278	-6.7481	17.254
				96.80952	70.00000	0.00000	30.207	-8.5286	22.236
				101.90476	70.00000	0.00000	37.081	-10.469	27.559
				107.00000	70.00000	0.00000	41.751	-11.788	28.171
				0.00000	75.00000	0.00000	0.0	0.0	0.0
				5.09524	75.00000	0.00000	0.0	0.0	0.0
				10.19048	75.00000	0.00000	0.0	0.0	0.0
				15.28571	75.00000	0.00000	0.0	0.0	0.0
				20.38095	75.00000	0.00000	0.0	0.0	0.0
				25.47619	75.00000	0.00000	0.0	0.0	0.0
				30.57143	75.00000	0.00000	0.080811	0.080700	0.15771
				35.66667	75.00000	0.00000	0.53265	0.74464	1.0339
				40.76190	75.00000	0.00000	1.1522	2.1279	2.0081
				45.85714	75.00000	0.00000	2.1808	3.5140	3.4939
				50.95238	75.00000	0.00000	3.9568	3.8309	6.2287
				56.04762	75.00000	0.00000	4.2646	1.9035	8.6290
				61.14286	75.00000	0.00000	5.7308	-0.31998	9.9429
				66.23810	75.00000	0.00000	9.7450	-3.1059	7.7406
				71.33333	75.00000	0.00000	Point lies within an excavation.		
				76.42857	75.00000	0.00000	8.7369	-2.4668	2.6551
				81.52381	75.00000	0.00000	6.7812	-3.8118	11.388
				86.61905	75.00000	0.00000	14.872	-5.2998	13.124
				91.71429	75.00000	0.00000	21.802	-6.5629	16.056
				96.80952	75.00000	0.00000	27.534	-7.7740	20.011
				101.90476	75.00000	0.00000	31.699	-8.9500	24.072
				107.00000	75.00000	0.00000	35.800	-10.108	25.613
				0.00000	80.00000	0.00000	0.0	0.0	0.0
				5.09524	80.00000	0.00000	0.0	0.0	0.0
				10.19048	80.00000	0.00000	0.0	0.0	0.0
				15.28571	80.00000	0.00000	0.0	0.0	0.0
				20.38095	80.00000	0.00000	0.0	0.0	0.0
				25.47619	80.00000	0.00000	0.0	0.0	0.0
				30.57143	80.00000	0.00000	0.40632	0.21896	0.73031
				35.66667	80.00000	0.00000	1.2514	1.0505	2.0547
				40.76190	80.00000	0.00000	2.0356	3.0741	3.7573
				45.85714	80.00000	0.00000	3.1920	5.8950	5.7693
				50.95238	80.00000	0.00000	4.6564	5.8604	6.8925
				56.04762	80.00000	0.00000	1.1518	5.4724	11.495
				61.14286	80.00000	0.00000	2.5846	1.9740	11.649
				66.23810	80.00000	0.00000	0.93235	0.48226	5.3553
				71.33333	80.00000	0.00000	Point lies within an excavation.		
				76.42857	80.00000	0.00000	7.4991	-2.1857	2.1853
				81.52381	80.00000	0.00000	5.1006	-3.1766	9.8907
				86.61905	80.00000	0.00000	11.764	-4.3166	10.963
				91.71429	80.00000	0.00000	17.986	-5.4348	13.293
				96.80952	80.00000	0.00000	23.009	-6.4964	16.711
				101.90476	80.00000	0.00000	26.628	-7.5182	20.617
				107.00000	80.00000	0.00000	29.930	-8.5495	22.596
				0.00000	85.00000	0.00000	0.0	0.0	0.0
				5.09524	85.00000	0.00000	0.0	0.0	0.0
				10.19048	85.00000	0.00000	0.0	0.0	0.0
				15.28571	85.00000	0.00000	0.0	0.0	0.0
				20.38095	85.00000	0.00000	0.0	0.0	0.0
				25.47619	85.00000	0.00000	0.0	0.0	0.0
				30.57143	85.00000	0.00000	0.67358	0.015203	1.0609
				35.66667	85.00000	0.00000	1.9564	0.23024	2.7345
				40.76190	85.00000	0.00000	3.2079	1.2149	4.6458
				45.85714	85.00000	0.00000	4.0160	7.4167	6.0055
				50.95238	85.00000	0.00000	Point lies within an excavation.		
				56.04762	85.00000	0.00000	-3.5182	10.683	14.128
				61.14286	85.00000	0.00000	-4.0135	5.9118	9.7997
				66.23810	85.00000	0.00000	-4.0377	2.1863	3.6041
				71.33333	85.00000	0.00000	1.1890	-3.3185	3.9406
				76.42857	85.00000	0.00000	4.6544	-3.8984	5.1855
				81.52381	85.00000	0.00000	6.5831	-3.3470	6.7725
				86.61905	85.00000	0.00000	10.126	-3.6279	8.4916
				91.71429	85.00000	0.00000	14.709	-4.4708	10.640
				96.80952	85.00000	0.00000	18.144	-5.5545	13.384
				101.90476	85.00000	0.00000	19.314	-6.6875	16.070
				107.00000	85.00000	0.00000	17.350	-7.8755	16.249
				0.00000	90.00000	0.00000	0.0	0.0	0.0
				5.09524	90.00000	0.00000	0.0	0.0	0.0
				10.19048	90.00000	0.00000	0.0	0.0	0.0
				15.28571	90.00000	0.00000	0.0	0.0	0.0
				20.38095	90.00000	0.00000	0.0	0.0	0.0
				25.47619	90.00000	0.00000	0.0	0.0	0.0
				30.57143	90.00000	0.00000	0.80782	-0.26640	1.0204
				35.66667	90.00000	0.00000	2.4883	-0.99399	2.7513
				40.76190	90.00000	0.00000	4.7993	-2.6023	4.9979
				45.85714	90.00000	0.00000	7.6751	-4.1617	6.1190
				50.95238	90.00000	0.00000	Point lies within an excavation.		
				56.04762	90.00000	0.00000	Point lies within an excavation.		
				61.14286	90.00000	0.00000	Point lies within an excavation.		
				66.23810	90.00000	0.00000	-7.7424	0.56691	8.3999
				71.33333	90.00000	0.00000	-3.4280	-0.94698	6.2731
				76.42857	90.00000	0.00000	2.3792	-2.2268	4.5959
				81.52381	90.00000	0.00000	6.0166	-2.6165	4.5382
				86.61905	90.00000	0.00000	8.5892	-2.9663	5.8496
				91.71429	90.00000	0.00000	11.412	-3.8643	7.5234
				96.80952	90.00000	0.00000	13.044	-4.7640	9.7066

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				101.90476	90.00000	0.00000	12.745	-5.7203	11.423
				107.00000	90.00000	0.00000	9.9044	-6.7198	11.367
				0.00000	95.00000	0.00000	0.0	0.0	0.0
				5.09524	95.00000	0.00000	0.0	0.0	0.0
				10.19048	95.00000	0.00000	0.0	0.0	0.0
				15.28571	95.00000	0.00000	0.0	0.0	0.0
				20.38095	95.00000	0.00000	0.0	0.0	0.0
				25.47619	95.00000	0.00000	0.0	0.0	0.0
				30.57143	95.00000	0.00000	0.57631	-0.31043	0.60880
				35.66667	95.00000	0.00000	2.0959	-1.1365	1.9779
				40.76190	95.00000	0.00000	4.3435	-2.3552	4.2855
				45.85714	95.00000	0.00000	7.1473	-3.8755	6.6017
				50.95238	95.00000	0.00000	Point lies within an excavation.		
				56.04762	95.00000	0.00000	Point lies within an excavation.		
				61.14286	95.00000	0.00000	-16.456	-1.2290	13.516
				66.23810	95.00000	0.00000	-10.382	-2.2198	11.400
				71.33333	95.00000	0.00000	-5.3947	-1.4586	6.5964
				76.42857	95.00000	0.00000	0.67604	-1.2722	3.5356
				81.52381	95.00000	0.00000	4.7624	-1.5439	2.4990
				86.61905	95.00000	0.00000	6.5758	-2.3238	3.4367
				91.71429	95.00000	0.00000	8.2440	-3.1506	4.6257
				96.80952	95.00000	0.00000	8.9081	-3.9183	6.3669
				101.90476	95.00000	0.00000	8.1181	-4.5194	7.4662
				107.00000	95.00000	0.00000	6.3791	-5.7544	7.9934
				0.00000	100.00000	0.00000	0.0	0.0	0.0
				5.09524	100.00000	0.00000	0.0	0.0	0.0
				10.19048	100.00000	0.00000	0.0	0.0	0.0
				15.28571	100.00000	0.00000	0.0	0.0	0.0
				20.38095	100.00000	0.00000	0.0	0.0	0.0
				25.47619	100.00000	0.00000	0.0	0.0	0.0
				30.57143	100.00000	0.00000	0.064122	-0.034769	0.064806
				35.66667	100.00000	0.00000	1.4218	-0.77092	1.2104
				40.76190	100.00000	0.00000	3.6993	-2.0059	3.2288
				45.85714	100.00000	0.00000	5.6807	-3.0803	5.5842
				50.95238	100.00000	0.00000	7.7901	-4.2240	6.3240
				56.04762	100.00000	0.00000	Point lies within an excavation.		
				61.14286	100.00000	0.00000	-8.5706	-2.8564	6.0631
				66.23810	100.00000	0.00000	-6.6901	-1.6110	5.9593
				71.33333	100.00000	0.00000	-5.6945	-2.5269	5.1258
				76.42857	100.00000	0.00000	-0.59017	-0.97977	1.8964
				81.52381	100.00000	0.00000	3.0901	-1.0043	0.82563
				86.61905	100.00000	0.00000	4.5691	-1.7228	1.7492
				91.71429	100.00000	0.00000	5.4121	-2.3802	2.7458
				96.80952	100.00000	0.00000	5.7411	-3.0367	3.6169
				101.90476	100.00000	0.00000	5.3238	-3.7650	4.4917
				107.00000	100.00000	0.00000	4.1408	-4.6041	4.9387
				0.00000	105.00000	0.00000	0.0	0.0	0.0
				5.09524	105.00000	0.00000	0.0	0.0	0.0
				10.19048	105.00000	0.00000	0.0	0.0	0.0
				15.28571	105.00000	0.00000	0.0	0.0	0.0
				20.38095	105.00000	0.00000	0.0	0.0	0.0
				25.47619	105.00000	0.00000	0.0	0.0	0.0
				30.57143	105.00000	0.00000	0.0	0.0	0.0
				35.66667	105.00000	0.00000	0.71092	-0.38548	0.57251
				40.76190	105.00000	0.00000	2.1628	-1.1727	1.9214
				45.85714	105.00000	0.00000	3.8525	-2.0889	3.9181
				50.95238	105.00000	0.00000	5.2266	-3.0942	5.5234
				56.04762	105.00000	0.00000	-3.5547	-6.5595	5.9291
				61.14286	105.00000	0.00000	-3.4570	-6.3792	6.1565
				66.23810	105.00000	0.00000	-3.2132	-2.8863	4.2462
				71.33333	105.00000	0.00000	-2.3142	-1.0515	2.2227
				76.42857	105.00000	0.00000	-0.81763	-0.25598	0.69648
				81.52381	105.00000	0.00000	1.4968	-0.42261	0.23002
				86.61905	105.00000	0.00000	2.7436	-1.0557	0.85046
				91.71429	105.00000	0.00000	3.4227	-1.6487	1.4460
				96.80952	105.00000	0.00000	3.5387	-2.2152	1.9449
				101.90476	105.00000	0.00000	3.3892	-2.9208	2.2828
				107.00000	105.00000	0.00000	2.6250	-3.5874	2.4037
				0.00000	110.00000	0.00000	0.0	0.0	0.0
				5.09524	110.00000	0.00000	0.0	0.0	0.0
				10.19048	110.00000	0.00000	0.0	0.0	0.0
				15.28571	110.00000	0.00000	0.0	0.0	0.0
				20.38095	110.00000	0.00000	0.0	0.0	0.0
				25.47619	110.00000	0.00000	0.0	0.0	0.0
				30.57143	110.00000	0.00000	0.0	0.0	0.0
				35.66667	110.00000	0.00000	0.0	0.0	0.0
				40.76190	110.00000	0.00000	0.98739	-0.53539	1.0608
				45.85714	110.00000	0.00000	1.9867	-1.4104	2.4970
				50.95238	110.00000	0.00000	1.3915	-2.3538	3.7043
				56.04762	110.00000	0.00000	-1.1120	-3.5642	4.1783
				61.14286	110.00000	0.00000	-2.1952	-4.0509	3.8081
				66.23810	110.00000	0.00000	-1.4866	-2.5746	2.4257
				71.33333	110.00000	0.00000	-0.90230	-0.86152	1.1902
				76.42857	110.00000	0.00000	-0.16678	-0.10283	0.19006
				81.52381	110.00000	0.00000	0.11761	-0.033205	0.034957
				86.61905	110.00000	0.00000	1.2357	-0.34889	0.18539
				91.71429	110.00000	0.00000	1.8743	-0.87835	0.61608
				96.80952	110.00000	0.00000	2.1810	-1.4420	0.93581
				101.90476	110.00000	0.00000	2.0715	-1.9899	1.1117
				107.00000	110.00000	0.00000	1.5710	-2.4862	1.0953
				0.00000	115.00000	0.00000	0.0	0.0	0.0
				5.09524	115.00000	0.00000	0.0	0.0	0.0
				10.19048	115.00000	0.00000	0.0	0.0	0.0
				15.28571	115.00000	0.00000	0.0	0.0	0.0
				20.38095	115.00000	0.00000	0.0	0.0	0.0
				25.47619	115.00000	0.00000	0.0	0.0	0.0
				30.57143	115.00000	0.00000	0.0	0.0	0.0
				35.66667	115.00000	0.00000	0.0	0.0	0.0
				40.76190	115.00000	0.00000	0.25990	-0.18965	0.36396
				45.85714	115.00000	0.00000	0.56728	-0.61706	1.1807
				50.95238	115.00000	0.00000	0.34503	-1.1921	1.8310
				56.04762	115.00000	0.00000	-0.41459	-1.7191	2.0512
				61.14286	115.00000	0.00000	-0.81397	-1.5067	1.5531
				66.23810	115.00000	0.00000	-0.60684	-1.1198	0.90323
				71.33333	115.00000	0.00000	-0.17159	-0.24584	0.26165
				76.42857	115.00000	0.00000	0.0	0.0	0.0
				81.52381	115.00000	0.00000	0.0	0.0	0.0
				86.61905	115.00000	0.00000	0.017096	-0.0048268	0.011553
				91.71429	115.00000	0.00000	0.71314	-0.20135	0.11589
				96.80952	115.00000	0.00000	1.0852	-0.54999	0.30934
				101.90476	115.00000	0.00000	1.1353	-0.98634	0.45505
				107.00000	115.00000	0.00000	0.89771	-1.3542	0.46673
				0.00000	120.00000	0.00000	0.0	0.0	0.0
				5.09524	120.00000	0.00000	0.0	0.0	0.0
				10.19048	120.00000	0.00000	0.0	0.0	0.0
				15.28571	120.00000	0.00000	0.0	0.0	0.0
				20.38095	120.00000	0.00000	0.0	0.0	0.0
				25.47619	120.00000	0.00000	0.0	0.0	0.0
				30.57143	120.00000	0.00000	0.0	0.0	0.0
				35.66667	120.00000	0.00000	0.0	0.0	0.0
				40.76190	120.00000	0.00000	0.0	0.0	0.0
				45.85714	120.00000	0.00000	0.053389	-0.084719	0.16062
				50.95238	120.00000	0.00000	0.049497	-0.32453	0.53349
				56.04762	120.00000	0.00000	-0.10041	-0.45903	0.60904
				61.14286	120.00000	0.00000	-0.14140	-0.31071	0.35649
				66.23810	120.00000	0.00000	0.0	0.0	0.0
				71.33333	120.00000	0.00000	0.0	0.0	0.0
				76.42857	120.00000	0.00000	0.0	0.0	0.0
				81.52381	120.00000	0.00000	0.0	0.0	0.0
				86.61905	120.00000	0.00000	0.0	0.0	0.0

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				91.71429	120.00000	0.00000	0.0	0.0	0.0
				96.80952	120.00000	0.00000	0.18878	-0.053302	0.040695
				101.90476	120.00000	0.00000	0.38963	-0.11001	0.063844
				107.00000	120.00000	0.00000	0.37296	-0.17080	0.082700
				0.00000	125.00000	0.00000	0.0	0.0	0.0
				5.09524	125.00000	0.00000	0.0	0.0	0.0
				10.19048	125.00000	0.00000	0.0	0.0	0.0
				15.28571	125.00000	0.00000	0.0	0.0	0.0
				20.38095	125.00000	0.00000	0.0	0.0	0.0
				25.47619	125.00000	0.00000	0.0	0.0	0.0
				30.57143	125.00000	0.00000	0.0	0.0	0.0
				35.66667	125.00000	0.00000	0.0	0.0	0.0
				40.76190	125.00000	0.00000	0.0	0.0	0.0
				45.85714	125.00000	0.00000	0.0	0.0	0.0
				50.95238	125.00000	0.00000	0.0	0.0	0.0
				56.04762	125.00000	0.00000	0.0	0.0	0.0
				61.14286	125.00000	0.00000	0.0	0.0	0.0
				66.23810	125.00000	0.00000	0.0	0.0	0.0
				71.33333	125.00000	0.00000	0.0	0.0	0.0
				76.42857	125.00000	0.00000	0.0	0.0	0.0
				81.52381	125.00000	0.00000	0.0	0.0	0.0
				86.61905	125.00000	0.00000	0.0	0.0	0.0
				91.71429	125.00000	0.00000	0.0	0.0	0.0
				96.80952	125.00000	0.00000	0.0	0.0	0.0
				101.90476	125.00000	0.00000	0.0	0.0	0.0
				107.00000	125.00000	0.00000	0.0	0.0	0.0
				0.00000	130.00000	0.00000	0.0	0.0	0.0
				5.09524	130.00000	0.00000	0.0	0.0	0.0
				10.19048	130.00000	0.00000	0.0	0.0	0.0
				15.28571	130.00000	0.00000	0.0	0.0	0.0
				20.38095	130.00000	0.00000	0.0	0.0	0.0
				25.47619	130.00000	0.00000	0.0	0.0	0.0
				30.57143	130.00000	0.00000	0.0	0.0	0.0
				35.66667	130.00000	0.00000	0.0	0.0	0.0
				40.76190	130.00000	0.00000	0.0	0.0	0.0
				45.85714	130.00000	0.00000	0.0	0.0	0.0
				50.95238	130.00000	0.00000	0.0	0.0	0.0
				56.04762	130.00000	0.00000	0.0	0.0	0.0
				61.14286	130.00000	0.00000	0.0	0.0	0.0
				66.23810	130.00000	0.00000	0.0	0.0	0.0
				71.33333	130.00000	0.00000	0.0	0.0	0.0
				76.42857	130.00000	0.00000	0.0	0.0	0.0
				81.52381	130.00000	0.00000	0.0	0.0	0.0
				86.61905	130.00000	0.00000	0.0	0.0	0.0
				91.71429	130.00000	0.00000	0.0	0.0	0.0
				96.80952	130.00000	0.00000	0.0	0.0	0.0
				101.90476	130.00000	0.00000	0.0	0.0	0.0
				107.00000	130.00000	0.00000	0.0	0.0	0.0
				0.00000	135.00000	0.00000	0.0	0.0	0.0
				5.09524	135.00000	0.00000	0.0	0.0	0.0
				10.19048	135.00000	0.00000	0.0	0.0	0.0
				15.28571	135.00000	0.00000	0.0	0.0	0.0
				20.38095	135.00000	0.00000	0.0	0.0	0.0
				25.47619	135.00000	0.00000	0.0	0.0	0.0
				30.57143	135.00000	0.00000	0.0	0.0	0.0
				35.66667	135.00000	0.00000	0.0	0.0	0.0
				40.76190	135.00000	0.00000	0.0	0.0	0.0
				45.85714	135.00000	0.00000	0.0	0.0	0.0
				50.95238	135.00000	0.00000	0.0	0.0	0.0
				56.04762	135.00000	0.00000	0.0	0.0	0.0
				61.14286	135.00000	0.00000	0.0	0.0	0.0
				66.23810	135.00000	0.00000	0.0	0.0	0.0
				71.33333	135.00000	0.00000	0.0	0.0	0.0
				76.42857	135.00000	0.00000	0.0	0.0	0.0
				81.52381	135.00000	0.00000	0.0	0.0	0.0
				86.61905	135.00000	0.00000	0.0	0.0	0.0
				91.71429	135.00000	0.00000	0.0	0.0	0.0
				96.80952	135.00000	0.00000	0.0	0.0	0.0
				101.90476	135.00000	0.00000	0.0	0.0	0.0
				107.00000	135.00000	0.00000	0.0	0.0	0.0
				0.00000	140.00000	0.00000	0.0	0.0	0.0
				5.09524	140.00000	0.00000	0.0	0.0	0.0
				10.19048	140.00000	0.00000	0.0	0.0	0.0
				15.28571	140.00000	0.00000	0.0	0.0	0.0
				20.38095	140.00000	0.00000	0.0	0.0	0.0
				25.47619	140.00000	0.00000	0.0	0.0	0.0
				30.57143	140.00000	0.00000	0.0	0.0	0.0
				35.66667	140.00000	0.00000	0.0	0.0	0.0
				40.76190	140.00000	0.00000	0.0	0.0	0.0
				45.85714	140.00000	0.00000	0.0	0.0	0.0
				50.95238	140.00000	0.00000	0.0	0.0	0.0
				56.04762	140.00000	0.00000	0.0	0.0	0.0
				61.14286	140.00000	0.00000	0.0	0.0	0.0
				66.23810	140.00000	0.00000	0.0	0.0	0.0
				71.33333	140.00000	0.00000	0.0	0.0	0.0
				76.42857	140.00000	0.00000	0.0	0.0	0.0
				81.52381	140.00000	0.00000	0.0	0.0	0.0
				86.61905	140.00000	0.00000	0.0	0.0	0.0
				91.71429	140.00000	0.00000	0.0	0.0	0.0
				96.80952	140.00000	0.00000	0.0	0.0	0.0
				101.90476	140.00000	0.00000	0.0	0.0	0.0
				107.00000	140.00000	0.00000	0.0	0.0	0.0
				0.00000	145.00000	0.00000	0.0	0.0	0.0
				5.09524	145.00000	0.00000	0.0	0.0	0.0
				10.19048	145.00000	0.00000	0.0	0.0	0.0
				15.28571	145.00000	0.00000	0.0	0.0	0.0
				20.38095	145.00000	0.00000	0.0	0.0	0.0
				25.47619	145.00000	0.00000	0.0	0.0	0.0
				30.57143	145.00000	0.00000	0.0	0.0	0.0
				35.66667	145.00000	0.00000	0.0	0.0	0.0
				40.76190	145.00000	0.00000	0.0	0.0	0.0
				45.85714	145.00000	0.00000	0.0	0.0	0.0
				50.95238	145.00000	0.00000	0.0	0.0	0.0
				56.04762	145.00000	0.00000	0.0	0.0	0.0
				61.14286	145.00000	0.00000	0.0	0.0	0.0
				66.23810	145.00000	0.00000	0.0	0.0	0.0
				71.33333	145.00000	0.00000	0.0	0.0	0.0
				76.42857	145.00000	0.00000	0.0	0.0	0.0
				81.52381	145.00000	0.00000	0.0	0.0	0.0
				86.61905	145.00000	0.00000	0.0	0.0	0.0
				91.71429	145.00000	0.00000	0.0	0.0	0.0
				96.80952	145.00000	0.00000	0.0	0.0	0.0
				101.90476	145.00000	0.00000	0.0	0.0	0.0
				107.00000	145.00000	0.00000	0.0	0.0	0.0
				0.00000	150.00000	0.00000	0.0	0.0	0.0
				5.09524	150.00000	0.00000	0.0	0.0	0.0
				10.19048	150.00000	0.00000	0.0	0.0	0.0
				15.28571	150.00000	0.00000	0.0	0.0	0.0
				20.38095	150.00000	0.00000	0.0	0.0	0.0
				25.47619	150.00000	0.00000	0.0	0.0	0.0
				30.57143	150.00000	0.00000	0.0	0.0	0.0
				35.66667	150.00000	0.00000	0.0	0.0	0.0
				40.76190	150.00000	0.00000	0.0	0.0	0.0
				45.85714	150.00000	0.00000	0.0	0.0	0.0
				50.95238	150.00000	0.00000	0.0	0.0	0.0
				56.04762	150.00000	0.00000	0.0	0.0	0.0
				61.14286	150.00000	0.00000	0.0	0.0	0.0
				66.23810	150.00000	0.00000	0.0	0.0	0.0
				71.33333	150.00000	0.00000	0.0	0.0	0.0
				76.42857	150.00000	0.00000	0.0	0.0	0.0

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				81.52381	150.00000	0.00000	0.0	0.0	0.0
				86.61905	150.00000	0.00000	0.0	0.0	0.0
				91.71429	150.00000	0.00000	0.0	0.0	0.0
				96.80952	150.00000	0.00000	0.0	0.0	0.0
				101.90476	150.00000	0.00000	0.0	0.0	0.0
				107.00000	150.00000	0.00000	0.0	0.0	0.0
		2	B	107.00000	0.00000	0.00000	0.0	0.0	0.0
				112.15000	0.00000	0.00000	0.0	0.0	0.0
				117.30000	0.00000	0.00000	0.0	0.0	0.0
				122.45000	0.00000	0.00000	0.0	0.0	0.0
				127.60000	0.00000	0.00000	0.0	0.0	0.0
				132.75000	0.00000	0.00000	0.0	0.0	0.0
				137.90000	0.00000	0.00000	0.0	0.0	0.0
				143.05000	0.00000	0.00000	0.0	0.0	0.0
				148.20000	0.00000	0.00000	0.0	0.0	0.0
				153.35000	0.00000	0.00000	0.0	0.0	0.0
				158.50000	0.00000	0.00000	0.0	0.0	0.0
				163.65000	0.00000	0.00000	0.0	0.0	0.0
				168.80000	0.00000	0.00000	0.0	0.0	0.0
				173.95000	0.00000	0.00000	0.0	0.0	0.0
				179.10000	0.00000	0.00000	0.0	0.0	0.0
				184.25000	0.00000	0.00000	0.0	0.0	0.0
				189.40000	0.00000	0.00000	0.0	0.0	0.0
				194.55000	0.00000	0.00000	0.0	0.0	0.0
				199.70000	0.00000	0.00000	0.0	0.0	0.0
				204.85000	0.00000	0.00000	0.0	0.0	0.0
				210.00000	0.00000	0.00000	0.0	0.0	0.0
				107.00000	5.00000	0.00000	0.0	0.0	0.0
				112.15000	5.00000	0.00000	0.0	0.0	0.0
				117.30000	5.00000	0.00000	0.0	0.0	0.0
				122.45000	5.00000	0.00000	0.0	0.0	0.0
				127.60000	5.00000	0.00000	0.0	0.0	0.0
				132.75000	5.00000	0.00000	0.0	0.0	0.0
				137.90000	5.00000	0.00000	0.0	0.0	0.0
				143.05000	5.00000	0.00000	0.0	0.0	0.0
				148.20000	5.00000	0.00000	0.0	0.0	0.0
				153.35000	5.00000	0.00000	0.0	0.0	0.0
				158.50000	5.00000	0.00000	0.0	0.0	0.0
				163.65000	5.00000	0.00000	0.0	0.0	0.0
				168.80000	5.00000	0.00000	0.0	0.0	0.0
				173.95000	5.00000	0.00000	0.0	0.0	0.0
				179.10000	5.00000	0.00000	0.0	0.0	0.0
				184.25000	5.00000	0.00000	0.0	0.0	0.0
				189.40000	5.00000	0.00000	0.0	0.0	0.0
				194.55000	5.00000	0.00000	0.0	0.0	0.0
				199.70000	5.00000	0.00000	0.0	0.0	0.0
				204.85000	5.00000	0.00000	0.0	0.0	0.0
				210.00000	5.00000	0.00000	0.0	0.0	0.0
				107.00000	10.00000	0.00000	0.0	0.0	0.0
				112.15000	10.00000	0.00000	0.0	0.0	0.0
				117.30000	10.00000	0.00000	0.0	0.0	0.0
				122.45000	10.00000	0.00000	0.0	0.0	0.0
				127.60000	10.00000	0.00000	0.0	0.0	0.0
				132.75000	10.00000	0.00000	0.0	0.0	0.0
				137.90000	10.00000	0.00000	0.0	0.0	0.0
				143.05000	10.00000	0.00000	0.0	0.0	0.0
				148.20000	10.00000	0.00000	0.0	0.0	0.0
				153.35000	10.00000	0.00000	0.0	0.0	0.0
				158.50000	10.00000	0.00000	0.0	0.0	0.0
				163.65000	10.00000	0.00000	0.0	0.0	0.0
				168.80000	10.00000	0.00000	0.0	0.0	0.0
				173.95000	10.00000	0.00000	0.0	0.0	0.0
				179.10000	10.00000	0.00000	0.0	0.0	0.0
				184.25000	10.00000	0.00000	0.0	0.0	0.0
				189.40000	10.00000	0.00000	0.0	0.0	0.0
				194.55000	10.00000	0.00000	0.0	0.0	0.0
				199.70000	10.00000	0.00000	0.0	0.0	0.0
				204.85000	10.00000	0.00000	0.0	0.0	0.0
				210.00000	10.00000	0.00000	0.0	0.0	0.0
				107.00000	15.00000	0.00000	0.0	0.0	0.0
				112.15000	15.00000	0.00000	0.0	0.0	0.0
				117.30000	15.00000	0.00000	0.0	0.0	0.0
				122.45000	15.00000	0.00000	0.0	0.0	0.0
				127.60000	15.00000	0.00000	0.0	0.0	0.0
				132.75000	15.00000	0.00000	0.0	0.0	0.0
				137.90000	15.00000	0.00000	0.0	0.0	0.0
				143.05000	15.00000	0.00000	0.0	0.0	0.0
				148.20000	15.00000	0.00000	0.0	0.0	0.0
				153.35000	15.00000	0.00000	0.0	0.0	0.0
				158.50000	15.00000	0.00000	0.0	0.0	0.0
				163.65000	15.00000	0.00000	0.0	0.0	0.0
				168.80000	15.00000	0.00000	0.0	0.0	0.0
				173.95000	15.00000	0.00000	0.0	0.0	0.0
				179.10000	15.00000	0.00000	0.0	0.0	0.0
				184.25000	15.00000	0.00000	0.0	0.0	0.0
				189.40000	15.00000	0.00000	0.0	0.0	0.0
				194.55000	15.00000	0.00000	0.0	0.0	0.0
				199.70000	15.00000	0.00000	0.0	0.0	0.0
				204.85000	15.00000	0.00000	0.0	0.0	0.0
				210.00000	15.00000	0.00000	0.0	0.0	0.0
				107.00000	20.00000	0.00000	0.0	0.0	0.0
				112.15000	20.00000	0.00000	0.0	0.0	0.0
				117.30000	20.00000	0.00000	0.0	0.0	0.0
				122.45000	20.00000	0.00000	0.0	0.0	0.0
				127.60000	20.00000	0.00000	0.0	0.0	0.0
				132.75000	20.00000	0.00000	0.0	0.0	0.099172
				137.90000	20.00000	0.00000	0.0	0.0	0.10386
				143.05000	20.00000	0.00000	0.0	0.0	0.10400
				148.20000	20.00000	0.00000	0.0	0.0	0.10413
				153.35000	20.00000	0.00000	0.0	0.0	0.10427
				158.50000	20.00000	0.00000	0.0	0.0	0.10440
				163.65000	20.00000	0.00000	0.0	0.0	0.10453
				168.80000	20.00000	0.00000	0.0	0.0	0.0
				173.95000	20.00000	0.00000	0.0	0.0	0.0
				179.10000	20.00000	0.00000	0.0	0.0	0.0
				184.25000	20.00000	0.00000	0.0	0.0	0.0
				189.40000	20.00000	0.00000	0.0	0.0	0.0
				194.55000	20.00000	0.00000	0.0	0.0	0.0
				199.70000	20.00000	0.00000	0.0	0.0	0.0
				204.85000	20.00000	0.00000	0.0	0.0	0.0
				210.00000	20.00000	0.00000	0.0	0.0	0.0
				107.00000	25.00000	0.00000	0.0	0.0	0.0
				112.15000	25.00000	0.00000	0.0	0.0	0.086281
				117.30000	25.00000	0.00000	0.0	0.0	0.37278
				122.45000	25.00000	0.00000	0.32487	1.1219	0.86012
				127.60000	25.00000	0.00000	0.59477	2.2965	1.2695
				132.75000	25.00000	0.00000	0.13962	3.0259	1.4947
				137.90000	25.00000	0.00000	409.84E-6	3.1512	1.5138
				143.05000	25.00000	0.00000	417.84E-6	3.2127	1.5219
				148.20000	25.00000	0.00000	425.83E-6	3.2741	1.5300
				153.35000	25.00000	0.00000	429.36E-6	3.3012	1.5337
				158.50000	25.00000	0.00000	429.43E-6	3.3018	1.5339
				163.65000	25.00000	0.00000	429.51E-6	3.3024	1.5341
				168.80000	25.00000	0.00000	0.0	0.0	0.0
				173.95000	25.00000	0.00000	0.0	0.0	0.0
				179.10000	25.00000	0.00000	0.0	0.0	0.0
				184.25000	25.00000	0.00000	0.0	0.0	0.0
				189.40000	25.00000	0.00000	0.0	0.0	0.0
				194.55000	25.00000	0.00000	0.0	0.0	0.0
				199.70000	25.00000	0.00000	0.0	0.0	0.0

Highgate School
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A2

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				204.85000	25.00000	0.00000	0.0	0.0	0.0
				210.00000	25.00000	0.00000	0.0	0.0	0.0
				107.00000	30.00000	0.00000	0.36773	1.2699	0.96576
				112.15000	30.00000	0.00000	0.77156	2.6644	1.4119
				117.30000	30.00000	0.00000	1.2066	4.1667	1.9100
				122.45000	30.00000	0.00000	1.5694	5.4197	2.4723
				127.60000	30.00000	0.00000	1.9548	6.7504	3.1789
				132.75000	30.00000	0.00000	0.45761	7.8498	3.7378
				137.90000	30.00000	0.00000	0.0010624	8.1686	3.8094
				143.05000	30.00000	0.00000	0.0010817	8.3166	3.8428
				148.20000	30.00000	0.00000	0.0011009	8.4646	3.8762
				153.35000	30.00000	0.00000	0.0011093	8.5295	3.8910
				158.50000	30.00000	0.00000	0.0011094	8.5301	3.8915
				163.65000	30.00000	0.00000	0.0011095	8.5308	3.8919
				168.80000	30.00000	0.00000	0.0	0.0	0.10462
				173.95000	30.00000	0.00000	0.0	0.0	0.10147
				179.10000	30.00000	0.00000	0.0	0.0	0.0
				184.25000	30.00000	0.00000	0.0	0.0	0.0
				189.40000	30.00000	0.00000	0.0	0.0	0.0
				194.55000	30.00000	0.00000	0.0	0.0	0.0
				199.70000	30.00000	0.00000	0.0	0.0	0.0
				204.85000	30.00000	0.00000	0.0	0.0	0.0
				210.00000	30.00000	0.00000	0.0	0.0	0.0
				107.00000	35.00000	0.00000	1.3392	4.6246	2.4847
				112.15000	35.00000	0.00000	1.9656	6.7877	3.3764
				117.30000	35.00000	0.00000	2.6635	9.1979	4.5909
				122.45000	35.00000	0.00000	3.0438	10.511	5.7515
				127.60000	35.00000	0.00000	3.4098	11.775	7.0546
				132.75000	35.00000	0.00000	1.0284	13.020	8.1171
				137.90000	35.00000	0.00000	0.0017711	13.617	8.3411
				143.05000	35.00000	0.00000	0.0018016	13.852	8.4430
				148.20000	35.00000	0.00000	0.0018321	14.086	8.5449
				153.35000	35.00000	0.00000	0.0018454	14.189	8.5897
				158.50000	35.00000	0.00000	0.0018455	14.190	8.5904
				163.65000	35.00000	0.00000	0.0018456	14.190	8.5911
				168.80000	35.00000	0.00000	0.0	5.9838	1.1046
				173.95000	35.00000	0.00000	-0.10342	3.8224	1.1004
				179.10000	35.00000	0.00000	-0.29503	1.1008	0.87085
				184.25000	35.00000	0.00000	0.0	0.0	0.35347
				189.40000	35.00000	0.00000	0.0	0.0	0.0
				194.55000	35.00000	0.00000	0.0	0.0	0.0
				199.70000	35.00000	0.00000	0.0	0.0	0.0
				204.85000	35.00000	0.00000	0.0	0.0	0.0
				210.00000	35.00000	0.00000	0.0	0.0	0.0
				107.00000	40.00000	0.00000	2.4083	8.3165	5.2594
				112.15000	40.00000	0.00000	3.1954	11.035	7.0470
				117.30000	40.00000	0.00000	4.0860	14.110	9.2988
				122.45000	40.00000	0.00000	4.5741	15.796	11.059
				127.60000	40.00000	0.00000	4.9312	17.029	12.558
				132.75000	40.00000	0.00000	2.2210	18.191	13.578
				137.90000	40.00000	0.00000	0.0025092	19.293	14.076
				143.05000	40.00000	0.00000	0.0025509	19.614	14.270
				148.20000	40.00000	0.00000	0.0025927	19.935	14.463
				153.35000	40.00000	0.00000	0.0026109	20.075	14.547
				158.50000	40.00000	0.00000	0.0026110	20.075	14.548
				163.65000	40.00000	0.00000	0.0026111	20.076	14.549
				168.80000	40.00000	0.00000	0.0	21.935	12.866
				173.95000	40.00000	0.00000	-0.60065	13.998	9.0720
				179.10000	40.00000	0.00000	-3.0579	6.3002	5.7227
				184.25000	40.00000	0.00000	-1.6669	1.2887	1.0834
				189.40000	40.00000	0.00000	0.0	0.0	0.24051
				194.55000	40.00000	0.00000	0.0	0.0	0.0
				199.70000	40.00000	0.00000	0.0	0.0	0.0
				204.85000	40.00000	0.00000	0.0	0.0	0.0
				210.00000	40.00000	0.00000	0.0	0.0	0.0
				107.00000	45.00000	0.00000	3.4324	11.831	9.1362
				112.15000	45.00000	0.00000	4.3853	15.144	11.656
				117.30000	45.00000	0.00000	5.4502	18.821	14.436
				122.45000	45.00000	0.00000	6.1950	21.393	16.332
				127.60000	45.00000	0.00000	6.5537	22.632	16.962
				132.75000	45.00000	0.00000	6.2066	23.824	16.961
				137.90000	45.00000	0.00000	0.0032952	25.336	17.220
				143.05000	45.00000	0.00000	0.0033482	25.743	17.454
				148.20000	45.00000	0.00000	0.0034012	26.151	17.688
				153.35000	45.00000	0.00000	0.0034243	26.329	17.790
				158.50000	45.00000	0.00000	0.0034244	26.329	17.790
				163.65000	45.00000	0.00000	0.0034245	26.330	17.790
				168.80000	45.00000	0.00000	0.0	38.237	26.520
				173.95000	45.00000	0.00000	-2.2252	22.672	17.763
				179.10000	45.00000	0.00000	-9.6573	6.1839	10.617
				184.25000	45.00000	0.00000	-6.6707	1.7792	4.8832
				189.40000	45.00000	0.00000	0.0	0.0	0.63206
				194.55000	45.00000	0.00000	0.0	0.0	0.0
				199.70000	45.00000	0.00000	0.0	0.0	0.0
				204.85000	45.00000	0.00000	0.0	0.0	0.0
				210.00000	45.00000	0.00000	0.0	0.0	0.0
				107.00000	50.00000	0.00000	6.9743	12.610	13.186
				112.15000	50.00000	0.00000	5.5703	19.236	14.646
				117.30000	50.00000	0.00000	6.8197	23.551	16.476
				122.45000	50.00000	0.00000	7.9417	27.425	17.005
				127.60000	50.00000	0.00000	8.3122	28.704	15.074
				132.75000	50.00000	0.00000	Point lies within an excavation.		
				137.90000	50.00000	0.00000	Point lies within an excavation.		
				143.05000	50.00000	0.00000	Point lies within an excavation.		
				148.20000	50.00000	0.00000	Point lies within an excavation.		
				153.35000	50.00000	0.00000	Point lies within an excavation.		
				158.50000	50.00000	0.00000	Point lies within an excavation.		
				163.65000	50.00000	0.00000	Point lies within an excavation.		
				168.80000	50.00000	0.00000	Point lies within an excavation.		
				173.95000	50.00000	0.00000	-35.775	0.0	30.102
				179.10000	50.00000	0.00000	-23.423	0.0	15.843
				184.25000	50.00000	0.00000	-11.683	0.0	6.8441
				189.40000	50.00000	0.00000	-0.42235	0.0	0.75326
				194.55000	50.00000	0.00000	0.0	0.0	0.0
				199.70000	50.00000	0.00000	0.0	0.0	0.0
				204.85000	50.00000	0.00000	0.0	0.0	0.0
				210.00000	50.00000	0.00000	0.0	0.0	0.0
				107.00000	55.00000	0.00000	18.769	1.7576	15.432
				112.15000	55.00000	0.00000	6.7851	23.431	12.130
				117.30000	55.00000	0.00000	Point lies within an excavation.		
				122.45000	55.00000	0.00000	Point lies within an excavation.		
				127.60000	55.00000	0.00000	Point lies within an excavation.		
				132.75000	55.00000	0.00000	Point lies within an excavation.		
				137.90000	55.00000	0.00000	Point lies within an excavation.		
				143.05000	55.00000	0.00000	Point lies within an excavation.		
				148.20000	55.00000	0.00000	Point lies within an excavation.		
				153.35000	55.00000	0.00000	Point lies within an excavation.		
				158.50000	55.00000	0.00000	Point lies within an excavation.		
				163.65000	55.00000	0.00000	Point lies within an excavation.		
				168.80000	55.00000	0.00000	Point lies within an excavation.		
				173.95000	55.00000	0.00000	-41.349	0.0	34.669
				179.10000	55.00000	0.00000	-27.163	0.0	18.109
				184.25000	55.00000	0.00000	-13.590	0.0	7.7242
				189.40000	55.00000	0.00000	-0.49580	0.0	0.75326
				194.55000	55.00000	0.00000	0.0	0.0	0.0
				199.70000	55.00000	0.00000	0.0	0.0	0.0
				204.85000	55.00000	0.00000	0.0	0.0	0.0
				210.00000	55.00000	0.00000	0.0	0.0	0.0
				107.00000	60.00000	0.00000	36.626	-10.341	22.550
				112.15000	60.00000	0.00000	Point lies within an excavation.		

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				117.30000	60.00000	0.00000	Point lies within an excavation.		
				122.45000	60.00000	0.00000	Point lies within an excavation.		
				127.60000	60.00000	0.00000	Point lies within an excavation.		
				132.75000	60.00000	0.00000	Point lies within an excavation.		
				137.90000	60.00000	0.00000	Point lies within an excavation.		
				143.05000	60.00000	0.00000	Point lies within an excavation.		
				148.20000	60.00000	0.00000	Point lies within an excavation.		
				153.35000	60.00000	0.00000	Point lies within an excavation.		
				158.50000	60.00000	0.00000	Point lies within an excavation.		
				163.65000	60.00000	0.00000	Point lies within an excavation.		
				168.80000	60.00000	0.00000	Point lies within an excavation.		
				173.95000	60.00000	0.00000	-46.923	0.0	39.236
				179.10000	60.00000	0.00000	-30.904	0.0	20.375
				184.25000	60.00000	0.00000	-15.497	0.0	8.6044
				189.40000	60.00000	0.00000	-0.56925	0.0	0.75326
				194.55000	60.00000	0.00000	0.0	0.0	0.0
				199.70000	60.00000	0.00000	0.0	0.0	0.0
				204.85000	60.00000	0.00000	0.0	0.0	0.0
				210.00000	60.00000	0.00000	0.0	0.0	0.0
				107.00000	65.00000	0.00000	40.770	-11.511	26.252
				112.15000	65.00000	0.00000	48.553	-13.709	21.001
				117.30000	65.00000	0.00000	Point lies within an excavation.		
				122.45000	65.00000	0.00000	Point lies within an excavation.		
				127.60000	65.00000	0.00000	Point lies within an excavation.		
				132.75000	65.00000	0.00000	Point lies within an excavation.		
				137.90000	65.00000	0.00000	Point lies within an excavation.		
				143.05000	65.00000	0.00000	Point lies within an excavation.		
				148.20000	65.00000	0.00000	Point lies within an excavation.		
				153.35000	65.00000	0.00000	Point lies within an excavation.		
				158.50000	65.00000	0.00000	Point lies within an excavation.		
				163.65000	65.00000	0.00000	Point lies within an excavation.		
				168.80000	65.00000	0.00000	Point lies within an excavation.		
				173.95000	65.00000	0.00000	-48.885	0.0	40.843
				179.10000	65.00000	0.00000	-32.220	0.0	21.173
				184.25000	65.00000	0.00000	-16.168	0.0	8.9141
				189.40000	65.00000	0.00000	-0.59510	0.0	0.75326
				194.55000	65.00000	0.00000	0.0	0.0	0.0
				199.70000	65.00000	0.00000	0.0	0.0	0.0
				204.85000	65.00000	0.00000	0.0	0.0	0.0
				210.00000	65.00000	0.00000	0.0	0.0	0.0
				107.00000	70.00000	0.00000	41.751	-11.788	28.171
				112.15000	70.00000	0.00000	46.481	-13.124	23.335
				117.30000	70.00000	0.00000	Point lies within an excavation.		
				122.45000	70.00000	0.00000	Point lies within an excavation.		
				127.60000	70.00000	0.00000	Point lies within an excavation.		
				132.75000	70.00000	0.00000	Point lies within an excavation.		
				137.90000	70.00000	0.00000	Point lies within an excavation.		
				143.05000	70.00000	0.00000	Point lies within an excavation.		
				148.20000	70.00000	0.00000	Point lies within an excavation.		
				153.35000	70.00000	0.00000	Point lies within an excavation.		
				158.50000	70.00000	0.00000	Point lies within an excavation.		
				163.65000	70.00000	0.00000	Point lies within an excavation.		
				168.80000	70.00000	0.00000	Point lies within an excavation.		
				173.95000	70.00000	0.00000	-43.309	0.0	36.275
				179.10000	70.00000	0.00000	-28.479	0.0	18.906
				184.25000	70.00000	0.00000	-14.261	0.0	8.0338
				189.40000	70.00000	0.00000	-0.52163	0.0	0.75326
				194.55000	70.00000	0.00000	0.0	0.0	0.0
				199.70000	70.00000	0.00000	0.0	0.0	0.0
				204.85000	70.00000	0.00000	0.0	0.0	0.0
				210.00000	70.00000	0.00000	0.0	0.0	0.0
				107.00000	75.00000	0.00000	35.800	-10.108	25.613
				112.15000	75.00000	0.00000	39.939	-11.276	22.954
				117.30000	75.00000	0.00000	Point lies within an excavation.		
				122.45000	75.00000	0.00000	Point lies within an excavation.		
				127.60000	75.00000	0.00000	Point lies within an excavation.		
				132.75000	75.00000	0.00000	Point lies within an excavation.		
				137.90000	75.00000	0.00000	Point lies within an excavation.		
				143.05000	75.00000	0.00000	Point lies within an excavation.		
				148.20000	75.00000	0.00000	Point lies within an excavation.		
				153.35000	75.00000	0.00000	Point lies within an excavation.		
				158.50000	75.00000	0.00000	Point lies within an excavation.		
				163.65000	75.00000	0.00000	Point lies within an excavation.		
				168.80000	75.00000	0.00000	Point lies within an excavation.		
				173.95000	75.00000	0.00000	-37.734	0.0	31.708
				179.10000	75.00000	0.00000	-24.738	0.0	16.640
				184.25000	75.00000	0.00000	-12.353	0.0	7.1535
				189.40000	75.00000	0.00000	-0.44817	0.0	0.75326
				194.55000	75.00000	0.00000	0.0	0.0	0.0
				199.70000	75.00000	0.00000	0.0	0.0	0.0
				204.85000	75.00000	0.00000	0.0	0.0	0.0
				210.00000	75.00000	0.00000	0.0	0.0	0.0
				107.00000	80.00000	0.00000	29.930	-8.5495	22.596
				112.15000	80.00000	0.00000	25.083	-10.198	18.618
				117.30000	80.00000	0.00000	0.0013883	-16.393	10.290
				122.45000	80.00000	0.00000	0.0014618	-17.261	10.657
				127.60000	80.00000	0.00000	0.0015354	-18.129	11.023
				132.75000	80.00000	0.00000	0.0016089	-18.998	11.389
				137.90000	80.00000	0.00000	0.0016824	-19.866	11.755
				143.05000	80.00000	0.00000	0.0017295	-20.422	11.990
				148.20000	80.00000	0.00000	0.0017296	-20.423	11.990
				153.35000	80.00000	0.00000	0.0017296	-20.423	11.990
				158.50000	80.00000	0.00000	0.0017296	-20.423	11.989
				163.65000	80.00000	0.00000	0.0017296	-20.424	11.989
				168.80000	80.00000	0.00000	0.0064130	-44.116	33.195
				173.95000	80.00000	0.00000	-4.1682	-23.612	21.283
				179.10000	80.00000	0.00000	-14.369	-4.5433	12.806
				184.25000	80.00000	0.00000	-8.7202	-1.2541	5.8753
				189.40000	80.00000	0.00000	0.0	0.0	0.70810
				194.55000	80.00000	0.00000	0.0	0.0	0.0
				199.70000	80.00000	0.00000	0.0	0.0	0.0
				204.85000	80.00000	0.00000	0.0	0.0	0.0
				210.00000	80.00000	0.00000	0.0	0.0	0.0
				107.00000	85.00000	0.00000	17.350	-7.8755	16.249
				112.15000	85.00000	0.00000	9.7493	-9.9324	13.328
				117.30000	85.00000	0.00000	0.0011244	-13.277	10.386
				122.45000	85.00000	0.00000	0.0011890	-14.040	10.835
				127.60000	85.00000	0.00000	0.0012536	-14.803	11.285
				132.75000	85.00000	0.00000	0.0013182	-15.566	11.734
				137.90000	85.00000	0.00000	0.0013829	-16.329	12.184
				143.05000	85.00000	0.00000	0.0014243	-16.818	12.472
				148.20000	85.00000	0.00000	0.0014243	-16.818	12.472
				153.35000	85.00000	0.00000	0.0014243	-16.818	12.472
				158.50000	85.00000	0.00000	0.0014243	-16.819	12.472
				163.65000	85.00000	0.00000	0.0014244	-16.819	12.472
				168.80000	85.00000	0.00000	0.0040142	-27.614	17.078
				173.95000	85.00000	0.00000	-0.93051	-17.386	11.865
				179.10000	85.00000	0.00000	-4.6100	-7.0025	7.4504
				184.25000	85.00000	0.00000	-3.1982	-1.8073	2.4251
				189.40000	85.00000	0.00000	0.0	0.0	0.40508
				194.55000	85.00000	0.00000	0.0	0.0	0.0
				199.70000	85.00000	0.00000	0.0	0.0	0.0
				204.85000	85.00000	0.00000	0.0	0.0	0.0
				210.00000	85.00000	0.00000	0.0	0.0	0.0
				107.00000	90.00000	0.00000	9.9044	-6.7198	11.367
				112.15000	90.00000	0.00000	5.3149	-8.8323	10.515
				117.30000	90.00000	0.00000	895.83E-6	-10.578	8.8379
				122.45000	90.00000	0.00000	951.55E-6	-11.236	9.2459
				127.60000	90.00000	0.00000	0.0010073	-11.894	9.6541
				132.75000	90.00000	0.00000	0.0010630	-12.552	10.062

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				137.90000	90.00000	0.00000	0.0011187	-13.210	10.470
				143.05000	90.00000	0.00000	0.0011544	-13.631	10.732
				148.20000	90.00000	0.00000	0.0011544	-13.631	10.732
				153.35000	90.00000	0.00000	0.0011544	-13.632	10.732
				158.50000	90.00000	0.00000	0.0011545	-13.632	10.732
				163.65000	90.00000	0.00000	0.0011545	-13.632	10.733
				168.80000	90.00000	0.00000	0.0016828	-11.576	5.3622
				173.95000	90.00000	0.00000	-0.23268	-7.4569	3.9817
				179.10000	90.00000	0.00000	-1.0511	-3.2761	1.6603
				184.25000	90.00000	0.00000	0.0	0.0	0.62614
				189.40000	90.00000	0.00000	0.0	0.0	0.0
				194.55000	90.00000	0.00000	0.0	0.0	0.0
				199.70000	90.00000	0.00000	0.0	0.0	0.0
				204.85000	90.00000	0.00000	0.0	0.0	0.0
				210.00000	90.00000	0.00000	0.0	0.0	0.0
				107.00000	95.00000	0.00000	6.3791	-5.7544	7.9934
				112.15000	95.00000	0.00000	3.2254	-7.1449	7.5380
				117.30000	95.00000	0.00000	690.68E-6	-8.1555	6.5025
				122.45000	95.00000	0.00000	737.48E-6	-8.7082	6.8095
				127.60000	95.00000	0.00000	784.29E-6	-9.2609	7.1164
				132.75000	95.00000	0.00000	831.11E-6	-9.8137	7.4234
				137.90000	95.00000	0.00000	877.92E-6	-10.366	7.7304
				143.05000	95.00000	0.00000	907.92E-6	-10.721	7.9271
				148.20000	95.00000	0.00000	907.93E-6	-10.721	7.9274
				153.35000	95.00000	0.00000	907.95E-6	-10.721	7.9276
				158.50000	95.00000	0.00000	907.97E-6	-10.721	7.9279
				163.65000	95.00000	0.00000	907.99E-6	-10.722	7.9281
				168.80000	95.00000	0.00000	0.0	0.0	0.45645
				173.95000	95.00000	0.00000	0.0	0.0	0.45312
				179.10000	95.00000	0.00000	0.0	0.0	0.26313
				184.25000	95.00000	0.00000	0.0	0.0	0.0
				189.40000	95.00000	0.00000	0.0	0.0	0.0
				194.55000	95.00000	0.00000	0.0	0.0	0.0
				199.70000	95.00000	0.00000	0.0	0.0	0.0
				204.85000	95.00000	0.00000	0.0	0.0	0.0
				210.00000	95.00000	0.00000	0.0	0.0	0.0
				107.00000	100.00000	0.00000	4.1408	-4.6041	4.9387
				112.15000	100.00000	0.00000	2.0392	-5.3585	4.6796
				117.30000	100.00000	0.00000	499.93E-6	-5.9031	4.0149
				122.45000	100.00000	0.00000	537.82E-6	-6.3506	4.2091
				127.60000	100.00000	0.00000	575.72E-6	-6.7982	4.4033
				132.75000	100.00000	0.00000	613.63E-6	-7.2457	4.5975
				137.90000	100.00000	0.00000	651.53E-6	-7.6932	4.7917
				143.05000	100.00000	0.00000	675.81E-6	-7.9800	4.9162
				148.20000	100.00000	0.00000	675.82E-6	-7.9801	4.9165
				153.35000	100.00000	0.00000	675.84E-6	-7.9803	4.9167
				158.50000	100.00000	0.00000	675.85E-6	-7.9804	4.9169
				163.65000	100.00000	0.00000	675.86E-6	-7.9806	4.9172
				168.80000	100.00000	0.00000	0.0	0.0	0.0
				173.95000	100.00000	0.00000	0.0	0.0	0.0
				179.10000	100.00000	0.00000	0.0	0.0	0.0
				184.25000	100.00000	0.00000	0.0	0.0	0.0
				189.40000	100.00000	0.00000	0.0	0.0	0.0
				194.55000	100.00000	0.00000	0.0	0.0	0.0
				199.70000	100.00000	0.00000	0.0	0.0	0.0
				204.85000	100.00000	0.00000	0.0	0.0	0.0
				210.00000	100.00000	0.00000	0.0	0.0	0.0
				107.00000	105.00000	0.00000	2.6250	-3.5874	2.4037
				112.15000	105.00000	0.00000	1.2824	-4.1421	2.2299
				117.30000	105.00000	0.00000	382.45E-6	-4.5160	1.7895
				122.45000	105.00000	0.00000	411.45E-6	-4.8584	1.8908
				127.60000	105.00000	0.00000	440.44E-6	-5.2008	1.9921
				132.75000	105.00000	0.00000	469.44E-6	-5.5432	2.0934
				137.90000	105.00000	0.00000	498.44E-6	-5.8856	2.1947
				143.05000	105.00000	0.00000	517.02E-6	-6.1050	2.2597
				148.20000	105.00000	0.00000	517.03E-6	-6.1051	2.2599
				153.35000	105.00000	0.00000	517.05E-6	-6.1053	2.2601
				158.50000	105.00000	0.00000	517.06E-6	-6.1054	2.2603
				163.65000	105.00000	0.00000	517.07E-6	-6.1056	2.2605
				168.80000	105.00000	0.00000	0.0	0.0	0.0
				173.95000	105.00000	0.00000	0.0	0.0	0.0
				179.10000	105.00000	0.00000	0.0	0.0	0.0
				184.25000	105.00000	0.00000	0.0	0.0	0.0
				189.40000	105.00000	0.00000	0.0	0.0	0.0
				194.55000	105.00000	0.00000	0.0	0.0	0.0
				199.70000	105.00000	0.00000	0.0	0.0	0.0
				204.85000	105.00000	0.00000	0.0	0.0	0.0
				210.00000	105.00000	0.00000	0.0	0.0	0.0
				107.00000	110.00000	0.00000	1.5710	-2.4862	1.0953
				112.15000	110.00000	0.00000	0.75807	-2.8829	0.86251
				117.30000	110.00000	0.00000	264.98E-6	-3.1289	0.56493
				122.45000	110.00000	0.00000	285.07E-6	-3.3661	0.60779
				127.60000	110.00000	0.00000	305.16E-6	-3.6034	0.65066
				132.75000	110.00000	0.00000	325.26E-6	-3.8407	0.69354
				137.90000	110.00000	0.00000	345.36E-6	-4.0780	0.73642
				143.05000	110.00000	0.00000	358.23E-6	-4.2300	0.76391
				148.20000	110.00000	0.00000	358.24E-6	-4.2301	0.76397
				153.35000	110.00000	0.00000	358.26E-6	-4.2303	0.76403
				158.50000	110.00000	0.00000	358.27E-6	-4.2304	0.76409
				163.65000	110.00000	0.00000	358.28E-6	-4.2306	0.76415
				168.80000	110.00000	0.00000	0.0	0.0	0.0
				173.95000	110.00000	0.00000	0.0	0.0	0.0
				179.10000	110.00000	0.00000	0.0	0.0	0.0
				184.25000	110.00000	0.00000	0.0	0.0	0.0
				189.40000	110.00000	0.00000	0.0	0.0	0.0
				194.55000	110.00000	0.00000	0.0	0.0	0.0
				199.70000	110.00000	0.00000	0.0	0.0	0.0
				204.85000	110.00000	0.00000	0.0	0.0	0.0
				210.00000	110.00000	0.00000	0.0	0.0	0.0
				107.00000	115.00000	0.00000	0.89771	-1.3542	0.46673
				112.15000	115.00000	0.00000	0.44020	-1.6157	0.36147
				117.30000	115.00000	0.00000	147.50E-6	-1.7417	0.22569
				122.45000	115.00000	0.00000	158.69E-6	-1.8738	0.24281
				127.60000	115.00000	0.00000	169.88E-6	-2.0060	0.25993
				132.75000	115.00000	0.00000	181.07E-6	-2.1381	0.27706
				137.90000	115.00000	0.00000	192.27E-6	-2.2703	0.29419
				143.05000	115.00000	0.00000	199.44E-6	-2.3550	0.30516
				148.20000	115.00000	0.00000	199.45E-6	-2.3551	0.30519
				153.35000	115.00000	0.00000	199.47E-6	-2.3553	0.30521
				158.50000	115.00000	0.00000	199.48E-6	-2.3555	0.30523
				163.65000	115.00000	0.00000	199.49E-6	-2.3556	0.30525
				168.80000	115.00000	0.00000	0.0	0.0	0.0
				173.95000	115.00000	0.00000	0.0	0.0	0.0
				179.10000	115.00000	0.00000	0.0	0.0	0.0
				184.25000	115.00000	0.00000	0.0	0.0	0.0
				189.40000	115.00000	0.00000	0.0	0.0	0.0
				194.55000	115.00000	0.00000	0.0	0.0	0.0
				199.70000	115.00000	0.00000	0.0	0.0	0.0
				204.85000	115.00000	0.00000	0.0	0.0	0.0
				210.00000	115.00000	0.00000	0.0	0.0	0.0
				107.00000	120.00000	0.00000	0.37296	-0.17080	0.082700
				112.15000	120.00000	0.00000	0.19660	-0.32616	0.098138
				117.30000	120.00000	0.00000	30.023E-6	-0.35451	0.069145
				122.45000	120.00000	0.00000	32.309E-6	-0.38151	0.074404
				127.60000	120.00000	0.00000	34.597E-6	-0.40852	0.079665
				132.75000	120.00000	0.00000	36.886E-6	-0.43555	0.084930
				137.90000	120.00000	0.00000	39.177E-6	-0.46260	0.090197
				143.05000	120.00000	0.00000	40.650E-6	-0.47999	0.093579
				148.20000	120.00000	0.00000	40.663E-6	-0.48015	0.093603
				153.35000	120.00000	0.00000	40.677E-6	-0.48031	0.093626

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				158.50000	120.00000	0.00000	40.691E-6	-0.48048	0.093650
				163.65000	120.00000	0.00000	40.705E-6	-0.48064	0.093673
				168.80000	120.00000	0.00000	0.0	0.0	0.0
				173.95000	120.00000	0.00000	0.0	0.0	0.0
				179.10000	120.00000	0.00000	0.0	0.0	0.0
				184.25000	120.00000	0.00000	0.0	0.0	0.0
				189.40000	120.00000	0.00000	0.0	0.0	0.0
				194.55000	120.00000	0.00000	0.0	0.0	0.0
				199.70000	120.00000	0.00000	0.0	0.0	0.0
				204.85000	120.00000	0.00000	0.0	0.0	0.0
				210.00000	120.00000	0.00000	0.0	0.0	0.0
				107.00000	125.00000	0.00000	0.0	0.0	0.0
				112.15000	125.00000	0.00000	0.0036728	-0.0010370	0.0017760
				117.30000	125.00000	0.00000	0.0	0.0	0.0
				122.45000	125.00000	0.00000	0.0	0.0	0.0
				127.60000	125.00000	0.00000	0.0	0.0	0.0
				132.75000	125.00000	0.00000	0.0	0.0	0.0
				137.90000	125.00000	0.00000	0.0	0.0	0.0
				143.05000	125.00000	0.00000	0.0	0.0	0.0
				148.20000	125.00000	0.00000	0.0	0.0	0.0
				153.35000	125.00000	0.00000	0.0	0.0	0.0
				158.50000	125.00000	0.00000	0.0	0.0	0.0
				163.65000	125.00000	0.00000	0.0	0.0	0.0
				168.80000	125.00000	0.00000	0.0	0.0	0.0
				173.95000	125.00000	0.00000	0.0	0.0	0.0
				179.10000	125.00000	0.00000	0.0	0.0	0.0
				184.25000	125.00000	0.00000	0.0	0.0	0.0
				189.40000	125.00000	0.00000	0.0	0.0	0.0
				194.55000	125.00000	0.00000	0.0	0.0	0.0
				199.70000	125.00000	0.00000	0.0	0.0	0.0
				204.85000	125.00000	0.00000	0.0	0.0	0.0
				210.00000	125.00000	0.00000	0.0	0.0	0.0
				107.00000	130.00000	0.00000	0.0	0.0	0.0
				112.15000	130.00000	0.00000	0.0	0.0	0.0
				117.30000	130.00000	0.00000	0.0	0.0	0.0
				122.45000	130.00000	0.00000	0.0	0.0	0.0
				127.60000	130.00000	0.00000	0.0	0.0	0.0
				132.75000	130.00000	0.00000	0.0	0.0	0.0
				137.90000	130.00000	0.00000	0.0	0.0	0.0
				143.05000	130.00000	0.00000	0.0	0.0	0.0
				148.20000	130.00000	0.00000	0.0	0.0	0.0
				153.35000	130.00000	0.00000	0.0	0.0	0.0
				158.50000	130.00000	0.00000	0.0	0.0	0.0
				163.65000	130.00000	0.00000	0.0	0.0	0.0
				168.80000	130.00000	0.00000	0.0	0.0	0.0
				173.95000	130.00000	0.00000	0.0	0.0	0.0
				179.10000	130.00000	0.00000	0.0	0.0	0.0
				184.25000	130.00000	0.00000	0.0	0.0	0.0
				189.40000	130.00000	0.00000	0.0	0.0	0.0
				194.55000	130.00000	0.00000	0.0	0.0	0.0
				199.70000	130.00000	0.00000	0.0	0.0	0.0
				204.85000	130.00000	0.00000	0.0	0.0	0.0
				210.00000	130.00000	0.00000	0.0	0.0	0.0
				107.00000	135.00000	0.00000	0.0	0.0	0.0
				112.15000	135.00000	0.00000	0.0	0.0	0.0
				117.30000	135.00000	0.00000	0.0	0.0	0.0
				122.45000	135.00000	0.00000	0.0	0.0	0.0
				127.60000	135.00000	0.00000	0.0	0.0	0.0
				132.75000	135.00000	0.00000	0.0	0.0	0.0
				137.90000	135.00000	0.00000	0.0	0.0	0.0
				143.05000	135.00000	0.00000	0.0	0.0	0.0
				148.20000	135.00000	0.00000	0.0	0.0	0.0
				153.35000	135.00000	0.00000	0.0	0.0	0.0
				158.50000	135.00000	0.00000	0.0	0.0	0.0
				163.65000	135.00000	0.00000	0.0	0.0	0.0
				168.80000	135.00000	0.00000	0.0	0.0	0.0
				173.95000	135.00000	0.00000	0.0	0.0	0.0
				179.10000	135.00000	0.00000	0.0	0.0	0.0
				184.25000	135.00000	0.00000	0.0	0.0	0.0
				189.40000	135.00000	0.00000	0.0	0.0	0.0
				194.55000	135.00000	0.00000	0.0	0.0	0.0
				199.70000	135.00000	0.00000	0.0	0.0	0.0
				204.85000	135.00000	0.00000	0.0	0.0	0.0
				210.00000	135.00000	0.00000	0.0	0.0	0.0
				107.00000	140.00000	0.00000	0.0	0.0	0.0
				112.15000	140.00000	0.00000	0.0	0.0	0.0
				117.30000	140.00000	0.00000	0.0	0.0	0.0
				122.45000	140.00000	0.00000	0.0	0.0	0.0
				127.60000	140.00000	0.00000	0.0	0.0	0.0
				132.75000	140.00000	0.00000	0.0	0.0	0.0
				137.90000	140.00000	0.00000	0.0	0.0	0.0
				143.05000	140.00000	0.00000	0.0	0.0	0.0
				148.20000	140.00000	0.00000	0.0	0.0	0.0
				153.35000	140.00000	0.00000	0.0	0.0	0.0
				158.50000	140.00000	0.00000	0.0	0.0	0.0
				163.65000	140.00000	0.00000	0.0	0.0	0.0
				168.80000	140.00000	0.00000	0.0	0.0	0.0
				173.95000	140.00000	0.00000	0.0	0.0	0.0
				179.10000	140.00000	0.00000	0.0	0.0	0.0
				184.25000	140.00000	0.00000	0.0	0.0	0.0
				189.40000	140.00000	0.00000	0.0	0.0	0.0
				194.55000	140.00000	0.00000	0.0	0.0	0.0
				199.70000	140.00000	0.00000	0.0	0.0	0.0
				204.85000	140.00000	0.00000	0.0	0.0	0.0
				210.00000	140.00000	0.00000	0.0	0.0	0.0
				107.00000	145.00000	0.00000	0.0	0.0	0.0
				112.15000	145.00000	0.00000	0.0	0.0	0.0
				117.30000	145.00000	0.00000	0.0	0.0	0.0
				122.45000	145.00000	0.00000	0.0	0.0	0.0
				127.60000	145.00000	0.00000	0.0	0.0	0.0
				132.75000	145.00000	0.00000	0.0	0.0	0.0
				137.90000	145.00000	0.00000	0.0	0.0	0.0
				143.05000	145.00000	0.00000	0.0	0.0	0.0
				148.20000	145.00000	0.00000	0.0	0.0	0.0
				153.35000	145.00000	0.00000	0.0	0.0	0.0
				158.50000	145.00000	0.00000	0.0	0.0	0.0
				163.65000	145.00000	0.00000	0.0	0.0	0.0
				168.80000	145.00000	0.00000	0.0	0.0	0.0
				173.95000	145.00000	0.00000	0.0	0.0	0.0
				179.10000	145.00000	0.00000	0.0	0.0	0.0
				184.25000	145.00000	0.00000	0.0	0.0	0.0
				189.40000	145.00000	0.00000	0.0	0.0	0.0
				194.55000	145.00000	0.00000	0.0	0.0	0.0
				199.70000	145.00000	0.00000	0.0	0.0	0.0
				204.85000	145.00000	0.00000	0.0	0.0	0.0
				210.00000	145.00000	0.00000	0.0	0.0	0.0
				107.00000	150.00000	0.00000	0.0	0.0	0.0
				112.15000	150.00000	0.00000	0.0	0.0	0.0
				117.30000	150.00000	0.00000	0.0	0.0	0.0
				122.45000	150.00000	0.00000	0.0	0.0	0.0
				127.60000	150.00000	0.00000	0.0	0.0	0.0
				132.75000	150.00000	0.00000	0.0	0.0	0.0
				137.90000	150.00000	0.00000	0.0	0.0	0.0
				143.05000	150.00000	0.00000	0.0	0.0	0.0
				148.20000	150.00000	0.00000	0.0	0.0	0.0
				153.35000	150.00000	0.00000	0.0	0.0	0.0
				158.50000	150.00000	0.00000	0.0	0.0	0.0
				163.65000	150.00000	0.00000	0.0	0.0	0.0
				168.80000	150.00000	0.00000	0.0	0.0	0.0
				173.95000	150.00000	0.00000	0.0	0.0	0.0

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				179.10000	150.00000	0.00000	0.0	0.0	0.0
				184.25000	150.00000	0.00000	0.0	0.0	0.0
				189.40000	150.00000	0.00000	0.0	0.0	0.0
				194.55000	150.00000	0.00000	0.0	0.0	0.0
				199.70000	150.00000	0.00000	0.0	0.0	0.0
				204.85000	150.00000	0.00000	0.0	0.0	0.0
				210.00000	150.00000	0.00000	0.0	0.0	0.0

Specific Building Damage Results - Horizontal Displacements

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
0	Base Model	1	16S-01	16S-01	0.0	86.49970	85.17730	0.00000	9.9712	-3.5853	-2.4585	10.307
					0.42983	86.26439	84.81760	0.00000	9.8569	-3.6111	-2.3743	10.226
					0.85967	86.02907	84.45790	0.00000	9.7316	-3.6335	-2.2870	10.133
					1.2895	85.79376	84.09820	0.00000	9.5947	-3.6520	-2.1965	10.029
					1.7193	85.55844	83.73850	0.00000	9.4453	-3.6664	-2.1028	9.9114
					2.1492	85.32313	83.37880	0.00000	9.2827	-3.6761	-2.0056	9.7806
					2.5790	85.08781	83.01910	0.00000	9.1061	-3.6807	-1.9050	9.6353
					3.0088	84.85250	82.65940	0.00000	8.9145	-3.6797	-1.8010	9.4744
					3.4387	84.61719	82.29970	0.00000	8.7072	-3.6725	-1.6935	9.2970
					3.8685	84.38187	81.94000	0.00000	8.4833	-3.6587	-1.5825	9.1021
					4.2983	84.14656	81.58030	0.00000	8.2423	-3.6375	-1.4683	8.8888
					4.7282	83.91124	81.22060	0.00000	7.9834	-3.6084	-1.3509	8.6563
					5.1580	83.67593	80.86090	0.00000	7.7065	-3.5709	-1.2307	8.4040
					5.5878	83.44061	80.50120	0.00000	7.4115	-3.5245	-1.1080	8.1317
					6.0177	83.20530	80.14150	0.00000	7.1945	-3.5033	-1.0070	7.9385
		2	16S-02	16S-02	0.0	83.20530	80.14150	0.00000	7.1945	-3.5033	-7.4025	3.0392
					0.47059	82.73566	80.17139	0.00000	6.5359	-3.3872	-6.7379	2.9652
					0.94119	82.26601	80.20129	0.00000	5.9422	-3.2908	-6.1392	2.9067
					1.4118	81.79637	80.23118	0.00000	5.3478	-3.1956	-5.5400	2.8494
					1.8824	81.32673	80.26107	0.00000	4.7462	-3.0998	-4.9336	2.7920
					2.3530	80.85709	80.29096	0.00000	4.1372	-3.0034	-4.3196	2.7346
					2.8236	80.38744	80.32086	0.00000	3.5203	-2.9065	-3.6978	2.6770
					3.2942	79.91780	80.35075	0.00000	2.9145	-2.8162	-3.0875	2.6254
					3.7647	79.44816	80.38064	0.00000	2.3297	-2.7461	-2.4994	2.5926
					4.2353	78.97851	80.41054	0.00000	1.7576	-2.6910	-1.9250	2.5739
					4.7059	78.50887	80.44043	0.00000	1.2231	-2.6528	-1.3891	2.5698
					5.1765	78.03923	80.47032	0.00000	0.76556	-2.6476	-0.93219	2.5936
					5.6471	77.56959	80.50021	0.00000	0.48814	-2.7169	-0.65974	2.6804
					6.1177	77.09994	80.53011	0.00000	0.75975	-3.0099	-0.94941	2.9556
					6.5883	76.63030	80.56000	0.00000	3.7678	-4.4978	-4.0459	4.2494
		3	16S-03	16S-03	0.0	76.63030	80.56000	0.00000	3.7678	-4.4978	-5.3176	2.4799
					0.46710	76.20712	80.75773	0.00000	6.3028	-5.9097	-8.2120	2.6860
					0.93420	75.78393	80.95547	0.00000	5.9071	-5.7549	-7.7879	2.7133
					1.4013	75.36075	81.15320	0.00000	5.5132	-5.6007	-7.3657	2.7403
					1.8684	74.93757	81.35093	0.00000	5.1213	-5.4470	-6.9456	2.7670
					2.3355	74.51438	81.54867	0.00000	4.7297	-5.2952	-6.5266	2.7952
					2.8026	74.09120	81.74640	0.00000	4.3316	-5.1514	-6.1050	2.8334
		4	16S-04	16S-04	0.0	74.09120	81.74640	0.00000	4.3316	-5.1514	-1.8284	-6.4774
					0.47644	74.36064	82.14321	0.00000	4.4045	-5.0024	-1.6642	-6.4540
					0.95928	74.63009	82.54001	0.00000	4.4741	-4.8583	-1.5058	-6.4306
					1.4389	74.89953	82.93682	0.00000	4.5408	-4.7184	-1.3526	-6.4072
					1.9186	75.16898	83.33362	0.00000	4.6050	-4.5824	-1.2041	-6.3839
					2.3982	75.43842	83.73043	0.00000	4.6669	-4.4497	-1.0596	-6.3606
					2.8778	75.70786	84.12724	0.00000	4.7268	-4.3200	-0.91859	-6.3373
					3.3575	75.97731	84.52404	0.00000	4.4392	-4.0055	-0.81999	-5.9227
					3.8371	76.24675	84.92085	0.00000	4.5119	-3.8890	-0.68275	-5.9174
					4.3168	76.51619	85.31766	0.00000	4.5793	-3.7778	-0.55286	-5.9107
					4.7964	76.78564	85.71446	0.00000	4.6427	-3.6706	-0.42863	-5.9029
					5.2760	77.05508	86.11127	0.00000	4.7114	-3.5698	-0.30658	-5.9031
					5.7557	77.32452	86.50807	0.00000	4.7808	-3.4724	-0.18702	-5.9058
					6.2353	77.59397	86.90488	0.00000	4.8469	-3.3759	-0.070094	-5.9063
					6.7150	77.86341	87.30169	0.00000	4.8385	-3.2516	0.028010	-5.8295
					7.1946	78.13286	87.69849	0.00000	4.8295	-3.1321	0.12183	-5.7550
					7.6743	78.40230	88.09530	0.00000	4.8426	-3.0252	0.21765	-5.7058
		5	16S-05	16S-05	0.0	78.40230	88.09530	0.00000	4.8426	-3.0252	4.2132	-3.8538
					0.49531	78.88938	88.18518	0.00000	5.1166	-3.0339	4.4811	-3.9121
					0.99061	79.37647	88.27507	0.00000	5.3460	-3.0144	4.7103	-3.9345
					1.4859	79.86355	88.36495	0.00000	5.5337	-2.9714	4.9026	-3.9263
					1.9812	80.35063	88.45483	0.00000	5.7333	-2.9314	5.1061	-3.9231
					2.4765	80.83772	88.54472	0.00000	5.9439	-2.8949	5.3199	-3.9255
					2.9718	81.32480	88.63460	0.00000	6.1648	-2.8619	5.5431	-3.9331
		6	16S-06	16S-06	0.0	81.32480	88.63460	0.00000	6.1648	-2.8619	6.7159	1.0450
					0.44454	81.69444	88.38765	0.00000	6.3861	-2.8880	6.9144	1.1462
					0.88908	82.06407	88.14070	0.00000	6.6104	-2.9126	7.1146	1.2504
					1.3336	82.43371	87.89375	0.00000	6.8142	-2.9576	7.3090	1.3261
					1.7782	82.80334	87.64680	0.00000	7.0253	-3.0006	7.5084	1.4077
					2.2227	83.17298	87.39985	0.00000	7.2449	-3.0421	7.7141	1.4952
					2.6672	83.54261	87.15290	0.00000	7.4741	-3.0828	7.9273	1.5886
					3.1118	83.91225	86.90595	0.00000	7.7137	-3.1233	8.1490	1.6881
					3.5563	84.28189	86.65900	0.00000	7.9497	-3.1639	8.3678	1.7854
					4.0009	84.65152	86.41205	0.00000	8.2109	-3.2140	8.6129	1.8889
					4.4454	85.02116	86.16510	0.00000	8.5272	-3.2767	8.9106	2.0124
					4.8899	85.39079	85.91815	0.00000	8.8619	-3.3453	9.2270	2.1413
					5.3345	85.76043	85.67120	0.00000	9.2164	-3.4225	9.5647	2.2740
					5.7790	86.13006	85.42425	0.00000	9.5861	-3.5025	9.9166	2.4130
					6.2235	86.49970	85.17730	0.00000	9.9712	-3.5853	10.283	2.5580
		7	BS-01	BS-01	0.0	41.07740	85.19800	0.00000	3.3366	1.1724	2.7140	2.2675
					0.49919	41.54492	85.02303	0.00000	3.4132	1.5851	2.6411	2.6809
					0.99838	42.01244	84.84806	0.00000	3.4711	2.0837	2.5206	3.1682
					1.4976	42.47996	84.67309	0.00000	3.5057	2.6813	2.3435	3.7399
					1.9968	42.94748	84.49812	0.00000	3.5119	3.3879	2.1016	4.4040
					2.4959	43.41500	84.32315	0.00000	3.4854	4.2062	1.7900	5.1610
					2.9951	43.88252	84.14818	0.00000	3.4234	5.1239	1.4103	5.9988
					3.4943	44.35003	83.97322	0.00000	3.3269	6.1086	0.97471	6.8872
					3.9935	44.81755	83.79825	0.00000	3.4539	6.3786	0.99901	7.1846
					4.4927	45.28507	83.62328	0.00000	3.5891	6.6283	1.0381	7.4658
					4.9919	45.75259	83.44831	0.00000	3.7253	6.8798	1.0775	7.7491
					5.4911	46.22011	83.27334	0.00000	3.8625	7.1332	1.1172	8.0345
					5.9903	46.68763	83.09837	0.00000	4.0007	7.3885	1.1572	8.3220
					6.4894	47.15515	82.92340	0.00000	4.1399	7.6456	1.1974	8.6116
					6.9886	47.62267	82.74843	0.00000	4.2801	7.9045	1.2380	8.9033
					7.4878	48.09019	82.57346	0.00000	4.4445	8.1566	1.3036	9.1969
					7.9870	48.55771	82.39849	0.00000	4.6824	8.2295	1.5008	9.3486
					8.4862	49.02523	82.22352	0.00000	4.7527	7.9928	1.6496	9.1516
					8.9854	49.49275	82.04855	0.00000	4.8221	7.7546	1.7981	8.9528
					9.4846	49.96027	81.87358	0.00000	4.8906	7.5148	1.9464	8.7522
					9.9838	50.42778	81.69862	0.00000	4.9583	7.2734	2.0943	8.5499
					10.483	50.89530	81.52365	0.00000	5.0251	7.0304	2.2421	8.3457
					10.982	51.36282	81.34868	0.00000	5.0910	6.7858	2.3895	8.1398
					11.481	51.83034	81.17371	0.00000	5.1560	6.5397	2.5367	7.9320
					11.981	52.29786	80.99874	0.00000	5.2202	6.2920	2.6836	7.7225
					12.480	52.76538	80.82377	0.00000	6.4322	9.4611	2.7079	11.115
					12.979	53.23290	80.64880	0.00000	5.1442	8.6486	1.7864	9.9030
		8	BS-02	BS-02	0.0	53.23290	80.64880	0.00000	5.1442	8.6486	-9.9054	1.7732
					0.49133	53.06007	80.18887	0.00000	5.2777	8.3131	-9.6383	2.0162
					0.98267	52.88724	79.72893	0.00000	5.2985	7.9309	-9.2878	2.1701
					1.4740	52.71441	79.26900	0.00000	5.2537	7.5239	-8.8910	2.2714
					1.9653	52.54158	78.80906	0.00000	5.1680	7.1033	-8.4673	2.3391
					2.4567	52.36875	78.34913	0.00000	5.0555	6.6756	-8.0272	2.3842
					2.9480	52.19592	77.88920	0.00000	4.9246	6.2442	-7.5774	2.4134
					3.4393	52.02309	77.42926	0.00000	4.7808	5.8114	-7.1217	2.4311
					3.9307	51.85025	76.96933	0.00000	4.6277	5.3785	-6.6626	2.4400
					4.4220	51.67742	76.50940	0.00000	4.4701	4.9507	-6.2067	2.4430
					4.9133	51.50459	76.04946	0.00000	4.3336	4.5995	-5.8299	2.4387

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					5.4047	51.33176	75.58953	0.00000	4.1838	4.2534	-5.4532	2.4203
					5.8960	51.15893	75.12959	0.00000	4.0310	3.9089	-5.0771	2.3984
					6.3873	50.98610	74.66966	0.00000	3.8760	3.5664	-4.7019	2.3738
					6.8787	50.81327	74.20973	0.00000	3.7192	3.2257	-4.3279	2.3469
					7.3700	50.64044	73.74979	0.00000	3.5593	2.8834	-3.9511	2.3175
					7.8614	50.46761	73.28986	0.00000	3.3980	2.5425	-3.5752	2.2865
					8.3527	50.29478	72.82992	0.00000	3.2376	2.2063	-3.2042	2.2546
					8.8440	50.12195	72.36999	0.00000	3.0783	1.8749	-2.8378	2.2220
					9.3354	49.94912	71.91006	0.00000	2.9201	1.5480	-2.4762	2.1890
					9.8267	49.77629	71.45012	0.00000	2.8302	1.3491	-2.2584	2.1748
					10.318	49.60346	70.99019	0.00000	2.7554	1.1799	-2.0737	2.1643
					10.809	49.43063	70.53025	0.00000	2.6803	1.0115	-1.8897	2.1531
					11.301	49.25780	70.07032	0.00000	2.6047	0.84394	-1.7062	2.1414
					11.792	49.08496	69.61039	0.00000	2.5289	0.67684	-1.5231	2.1292
					12.283	48.91213	69.15045	0.00000	2.4526	0.51005	-1.3402	2.1164
					12.775	48.73930	68.69052	0.00000	2.3769	0.35511	-1.1685	2.1001
					13.266	48.56647	68.23059	0.00000	2.3168	0.29824	-1.0941	2.0638
					13.757	48.39364	67.77065	0.00000	2.2607	0.27527	-1.0529	2.0194
					14.249	48.22081	67.31072	0.00000	2.1962	0.25304	-1.0094	1.9669
					14.740	48.04798	66.85078	0.00000	2.1234	0.23052	-0.96270	1.9066
					15.231	47.87515	66.39085	0.00000	2.0423	0.20668	-0.91185	1.8390
					15.723	47.70232	65.93092	0.00000	1.9747	0.17658	-0.85992	1.7864
					16.214	47.52949	65.47098	0.00000	1.9036	0.14248	-0.80300	1.7319
					16.705	47.35666	65.01105	0.00000	1.8230	0.10469	-0.73925	1.6697
					17.197	47.18383	64.55111	0.00000	1.7396	0.062043	-0.67001	1.6066
					17.688	47.01100	64.09118	0.00000	1.6665	0.014162	-0.59946	1.5550
					18.179	46.83817	63.63125	0.00000	1.6035	0.0	-0.56406	1.5011
					18.671	46.66534	63.17131	0.00000	1.5584	0.0	-0.54818	1.4588
					19.162	46.49250	62.71138	0.00000	1.5121	0.0	-0.53191	1.4155
					19.653	46.31967	62.25145	0.00000	1.4647	0.0	-0.51523	1.3711
					20.145	46.14684	61.79151	0.00000	1.4162	0.0	-0.49814	1.3257
					20.636	45.97401	61.33158	0.00000	1.3664	0.0	-0.48066	1.2791
					21.127	45.80118	60.87164	0.00000	1.3156	0.0	-0.46277	1.2315
					21.619	45.62835	60.41171	0.00000	1.2636	0.0	-0.44448	1.1828
					22.110	45.45552	59.95178	0.00000	1.2105	0.0	-0.42579	1.1331
					22.601	45.28269	59.49184	0.00000	1.1384	0.0	-0.40043	1.0656
					23.093	45.10986	59.03191	0.00000	1.0403	0.0	-0.36592	0.97378
					23.584	44.93703	58.57197	0.00000	0.94621	0.0	-0.33284	0.88574
					24.075	44.76420	58.11204	0.00000	0.85623	0.0	-0.30119	0.80151
					24.567	44.59137	57.65211	0.00000	0.77031	0.0	-0.27096	0.72108
					25.058	44.41854	57.19217	0.00000	0.68845	0.0	-0.24217	0.64445
					25.549	44.24571	56.73224	0.00000	0.61065	0.0	-0.21480	0.57163
					26.041	44.07288	56.27230	0.00000	0.53692	0.0	-0.18887	0.50260
					26.532	43.90005	55.81237	0.00000	0.46725	0.0	-0.16436	0.43738
					27.023	43.72721	55.35244	0.00000	0.40815	0.0044994	-0.14778	0.38048
					27.515	43.55438	54.89250	0.00000	0.35117	0.0092825	-0.13221	0.32546
					28.006	43.38155	54.43257	0.00000	0.29333	0.012351	-0.11474	0.27024
					28.497	43.20872	53.97264	0.00000	0.23483	0.013627	-0.095359	0.21503
					28.989	43.03589	53.51270	0.00000	0.17584	0.013046	-0.074066	0.16001
					29.480	42.86306	53.05277	0.00000	0.11652	0.010555	-0.050868	0.10536
					29.971	42.69023	52.59283	0.00000	0.057023	0.0061125	-0.025780	0.051228
					30.463	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0
	9	BS-03	BS-03		0.0	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0
					0.17272	42.34490	52.12415	0.00000	0.0	0.0	0.0	0.0
					0.34544	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0
	10	BS-04	BS-04		0.0	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0
					0.48678	41.96133	51.67676	0.00000	0.0	0.0	0.0	0.0
					0.97357	41.75025	51.23812	0.00000	0.0	0.0	0.0	0.0
					1.4604	41.53918	50.79948	0.00000	0.0	0.0	0.0	0.0
					1.9471	41.32810	50.36083	0.00000	0.0	0.0	0.0	0.0
					2.4339	41.11702	49.92219	0.00000	0.0	0.0	0.0	0.0
					2.9207	40.90595	49.48355	0.00000	0.0	0.0	0.0	0.0
					3.4075	40.69488	49.04491	0.00000	0.0	0.0	0.0	0.0
					3.8943	40.48380	48.60627	0.00000	0.0	0.0	0.0	0.0
					4.3811	40.27273	48.16763	0.00000	0.0	0.0	0.0	0.0
					4.8678	40.06165	47.72898	0.00000	0.0	0.0	0.0	0.0
					5.3546	39.85057	47.29034	0.00000	0.0	0.0	0.0	0.0
					5.8414	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0
	11	BS-05	BS-05		0.0	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0
					0.41953	39.22713	46.92883	0.00000	0.0	0.0	0.0	0.0
					0.83905	38.81475	47.00595	0.00000	0.0	0.0	0.0	0.0
					1.2586	38.40237	47.08308	0.00000	0.0	0.0	0.0	0.0
					1.6781	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0
	12	BS-06	BS-06		0.0	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0
					0.40368	37.62248	47.32718	0.00000	0.0	0.0	0.0	0.0
					0.80735	37.25495	47.49415	0.00000	0.0	0.0	0.0	0.0
					1.2110	36.88743	47.66112	0.00000	0.0	0.0	0.0	0.0
					1.6147	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0
	13	BS-07	BS-07		0.0	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0
					0.38860	36.26713	48.12325	0.00000	0.0	0.0	0.0	0.0
					0.77720	36.01435	48.41840	0.00000	0.0	0.0	0.0	0.0
					1.1658	35.76158	48.71355	0.00000	0.0	0.0	0.0	0.0
					1.5544	35.50880	49.00870	0.00000	0.0	0.0	0.0	0.0
					1.9430	35.25603	49.30385	0.00000	0.0	0.0	0.0	0.0
					2.3316	35.00325	49.59900	0.00000	0.0	0.0	0.0	0.0
					2.7202	34.75048	49.89415	0.00000	0.0	0.0	0.0	0.0
					3.1088	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0
	14	BS-08	BS-08		0.0	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0
					0.43736	34.10253	50.37673	0.00000	0.0	0.0	0.0	0.0
					0.87473	33.70737	50.56417	0.00000	0.0	0.0	0.0	0.0
					1.3121	33.31220	50.75160	0.00000	0.0	0.0	0.0	0.0
					1.7495	32.91703	50.93903	0.00000	0.0	0.0	0.0	0.0
					2.1868	32.52187	51.12647	0.00000	0.0	0.0	0.0	0.0
					2.6242	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0
	15	BS-09	BS-09		0.0	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0
					0.48956	32.31482	51.76587	0.00000	0.0	0.0	0.0	0.0
					0.97913	32.50295	52.21785	0.00000	0.0	0.0	0.0	0.0
					1.4687	32.69107	52.66983	0.00000	0.0	0.0	0.0	0.0
					1.9583	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0
	16	BS-10	BS-10		0.0	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0
					0.40664	32.49437	53.25320	0.00000	0.0	0.0	0.0	0.0
					0.81328	32.10955	53.38460	0.00000	0.0	0.0	0.0	0.0
					1.2199	31.72472	53.51600	0.00000	0.0	0.0	0.0	0.0
					1.6266	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0
	17	BS-11	BS-11		0.0	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0
					0.25067	31.26590	53.40790	0.00000	0.0	0.0	0.0	0.0
					0.50134	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0
	18	BS-12	BS-12		0.0	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0
					0.39957	30.82340	53.32289	0.00000	0.0	0.0	0.0	0.0
					0.79915	30.45490	53.47737	0.00000	0.0	0.0	0.0	0.0
					1.1987	30.08640	53.63186	0.00000	0.0	0.0	0.0	0.0
					1.5983	29.71790	53.78635	0.00000	0.0	0.0	0.0	0.0
					1.9979	29.34940	53.94084	0.00000	0.0	0.0	0.0	0.0
					2.3974	28.98090	54.09533	0.00000	0.0	0.0	0.0	0.0
					2.7970	28.61240	54.24981	0.00000	0.0	0.0	0.0	0.0
					3.1966	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0
	19	BS-13	BS-13		0.0	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0
					0.44360	28.40681	54.81690	0.00000	0.0	0.0	0.0	0.0
					0.88720	28.56972	55.22950	0.00000	0.0	0.0	0.0	0.0
					1.3308	28.73264	55.64210	0.00000	0.0	0.0	0.0	0.0
					1.7744	28.89555	56.05470	0.00000	0.0	0.0	0.0	0.0
					2.2180	29.05846	56.46730	0.00000	0.0	0.0	0.0	0.0
					2.6616	29.22138	56.87990	0.00000	0.0	0.0	0.0	0.0
					3.1052	29.38429	57.29250	0.00000	0.0	0.0	0.0	0.0
					3.5488	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0
	20	BS-14	BS-14		0.0	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0
					0.41644	29.93258	57.54730	0.00000	0.0	0.0	0.0	0.0
					0.83288	30.31797	57.38950	0.00000	0.0	0.0	0.0	0.0
					1.2493	30.70335	57.23170	0.00000	0.0	0.0	0.0	0.0
					1.6658	31.08873	57.07390	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					2.0822	31.47412	56.91610	0.00000	0.0	0.0	0.0	0.0
					2.4986	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0
		21	BS-15	BS-15	0.0	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0
					0.49971	32.03411	57.22651	0.00000	0.0	0.0	0.0	0.0
					0.99942	32.20873	57.69472	0.00000	0.0	0.0	0.0	0.0
					1.4991	32.38334	58.16294	0.00000	0.0	0.0	0.0	0.0
					1.9988	32.55796	58.63115	0.00000	0.0	0.0	0.0	0.0
					2.4986	32.73257	59.09936	0.00000	0.0	0.0	0.0	0.0
					2.9983	32.90719	59.56757	0.00000	0.0	0.0	0.0	0.0
					3.4980	33.08180	60.03578	0.00000	0.0	0.0	0.0	0.0
					3.9977	33.25642	60.50399	0.00000	0.0	0.0	0.0	0.0
					4.4974	33.43103	60.97221	0.00000	0.0	0.0	0.0	0.0
					4.9971	33.60565	61.44042	0.00000	0.0	0.0	0.0	0.0
					5.4968	33.78026	61.90863	0.00000	0.0	0.0	0.0	0.0
					5.9965	33.95488	62.37684	0.00000	0.0	0.0	0.0	0.0
					6.4963	34.12949	62.84505	0.00000	0.0	0.0	0.0	0.0
					6.9960	34.30411	63.31326	0.00000	0.0	0.0	0.0	0.0
					7.4957	34.47872	63.78148	0.00000	0.0	0.0	0.0	0.0
					7.9954	34.65334	64.24969	0.00000	0.0	0.0	0.0	0.0
					8.4951	34.82795	64.71790	0.00000	0.0	0.0	0.0	0.0
					8.9948	35.00256	65.18611	0.00000	0.0	0.0	0.0	0.0
					9.4945	35.17718	65.65432	0.00000	0.0	0.0	0.0	0.0
					9.9942	35.35179	66.12254	0.00000	0.0	0.0	0.0	0.0
					10.494	35.52641	66.59075	0.00000	0.0	0.0	0.0	0.0
					10.994	35.70102	67.05896	0.00000	0.0	0.0	0.0	0.0
					11.493	35.87564	67.52717	0.00000	0.0	0.0	0.0	0.0
					11.993	36.05025	67.99538	0.00000	0.0	0.0	0.0	0.0
					12.493	36.22487	68.46359	0.00000	0.0	0.0	0.0	0.0
					12.993	36.39948	68.93181	0.00000	0.0	0.0	0.0	0.0
					13.492	36.57410	69.40002	0.00000	0.030898	0.057062	0.064262	-0.0090109
					13.992	36.74871	69.86823	0.00000	0.089954	0.16613	0.18709	-0.026234
					14.492	36.92333	70.33644	0.00000	0.14898	0.27427	0.30904	-0.043750
					14.991	37.09794	70.80465	0.00000	0.20820	0.38160	0.43030	-0.061731
					15.491	37.27256	71.27286	0.00000	0.26742	0.48786	0.55056	-0.080091
					15.991	37.44717	71.74108	0.00000	0.32665	0.59297	0.66973	-0.098862
					16.491	37.62179	72.20929	0.00000	0.38589	0.69681	0.78773	-0.11808
					16.990	37.79640	72.67750	0.00000	0.44514	0.79928	0.90444	-0.13779
		22	BS-16	BS-16	0.0	37.79640	72.67750	0.00000	0.44514	0.79928	0.89271	-0.20017
					0.49570	37.93699	73.15284	0.00000	0.50316	0.89586	1.0018	-0.22842
					0.99139	38.07758	73.62818	0.00000	0.56117	0.99013	1.1086	-0.25730
					1.4871	38.21817	74.10352	0.00000	0.63389	1.1072	1.2415	-0.29384
					1.9828	38.35876	74.57886	0.00000	0.73335	1.2660	1.4221	-0.34416
					2.4785	38.49935	75.05420	0.00000	0.83327	1.4206	1.5986	-0.39613
					2.9742	38.63994	75.52954	0.00000	0.93381	1.5706	1.7710	-0.44999
					3.4699	38.78053	76.00488	0.00000	1.0351	1.7157	1.9389	-0.50602
					3.9656	38.92112	76.48022	0.00000	1.1374	1.8555	2.1019	-0.56449
					4.4613	39.06171	76.95556	0.00000	1.2409	1.9893	2.2596	-0.62574
					4.9570	39.20230	77.43090	0.00000	1.3457	2.1166	2.4113	-0.69014
		23	BS-17	BS-17	0.0	39.20230	77.43090	0.00000	1.3457	2.1166	-0.54090	-2.4491
					0.40858	38.81835	77.57060	0.00000	1.3284	1.9933	-0.56675	-2.3274
					0.81715	38.43440	77.71030	0.00000	1.3076	1.8710	-0.58907	-2.2053
		24	BS-18	BS-18	0.0	38.43440	77.71030	0.00000	1.3076	1.8710	2.1995	-0.61029
					0.49628	38.59959	78.17828	0.00000	1.4146	1.9775	2.3356	-0.67578
					0.99256	38.76478	78.64626	0.00000	1.5233	2.0754	2.4641	-0.74566
					1.4888	38.92996	79.11424	0.00000	1.6339	2.1636	2.5841	-0.82053
					1.9851	39.09515	79.58222	0.00000	1.7464	2.2406	2.6941	-0.90107
					2.4814	39.26034	80.05021	0.00000	1.8613	2.3046	2.7927	-0.98806
					2.9777	39.42552	80.51819	0.00000	1.9786	2.3535	2.8779	-1.0824
					3.4740	39.59071	80.98617	0.00000	2.0987	2.3850	2.9476	-1.1852
					3.9702	39.75590	81.45415	0.00000	2.2218	2.3960	2.9989	-1.2975
					4.4665	39.92109	81.92213	0.00000	2.3480	2.3831	3.0287	-1.4210
					4.9628	40.08628	82.39011	0.00000	2.4778	2.3419	3.0331	-1.5570
					5.4591	40.25146	82.85809	0.00000	2.6113	2.2676	3.0075	-1.7076
					5.9554	40.41665	83.32608	0.00000	2.7486	2.1545	2.9466	-1.8747
					6.4516	40.58184	83.79406	0.00000	2.8899	1.9960	2.8441	-2.0608
					6.9479	40.74702	84.26204	0.00000	3.0353	1.7847	2.6932	-2.2681
					7.4442	40.91221	84.73002	0.00000	3.1843	1.5128	2.4864	-2.4992
					7.9405	41.07740	85.19800	0.00000	3.3366	1.1724	2.2161	-2.7561
		25	SB-01	SB-01	0.0	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0
					0.28479	80.70318	128.86005	0.00000	0.0	0.0	0.0	0.0
					0.56958	80.84675	129.10600	0.00000	0.0	0.0	0.0	0.0
					0.85437	80.99032	129.35195	0.00000	0.0	0.0	0.0	0.0
					1.1392	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0
		26	SB-02	SB-02	0.0	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0
					0.46930	81.53432	129.35316	0.00000	0.0	0.0	0.0	0.0
					0.93860	81.93475	129.10841	0.00000	0.0	0.0	0.0	0.0
					1.4079	82.33517	128.86366	0.00000	0.0	0.0	0.0	0.0
					1.8772	82.73560	128.61892	0.00000	0.0	0.0	0.0	0.0
					2.3465	83.13602	128.37418	0.00000	0.0	0.0	0.0	0.0
					2.8158	83.53645	128.12943	0.00000	0.0	0.0	0.0	0.0
					3.2851	83.93688	127.88469	0.00000	0.0	0.0	0.0	0.0
					3.7544	84.33730	127.63994	0.00000	0.0	0.0	0.0	0.0
					4.2237	84.73772	127.39520	0.00000	0.0	0.0	0.0	0.0
					4.6930	85.13815	127.15045	0.00000	0.0	0.0	0.0	0.0
					5.1623	85.53857	126.90571	0.00000	0.0	0.0	0.0	0.0
					5.6316	85.93900	126.66096	0.00000	0.0	0.0	0.0	0.0
					6.1009	86.33942	126.41622	0.00000	0.0	0.0	0.0	0.0
					6.5702	86.73985	126.17147	0.00000	0.0	0.0	0.0	0.0
					7.0395	87.14028	125.92673	0.00000	0.0	0.0	0.0	0.0
					7.5088	87.54070	125.68198	0.00000	0.0	0.0	0.0	0.0
					7.9781	87.94112	125.43724	0.00000	0.0	0.0	0.0	0.0
					8.4474	88.34155	125.19249	0.00000	0.0	0.0	0.0	0.0
					8.9167	88.74197	124.94774	0.00000	0.0	0.0	0.0	0.0
					9.3860	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0
		27	SB-03	SB-03	0.0	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0
					0.49874	88.87339	124.28303	0.00000	0.0	0.0	0.0	0.0
					0.99747	88.60438	123.86307	0.00000	0.0	0.0	0.0	0.0
					1.4962	88.33537	123.44310	0.00000	0.0	0.0	0.0	0.0
					1.9949	88.06636	123.02313	0.00000	0.0	0.0	0.0	0.0
					2.4937	87.79735	122.60316	0.00000	0.0	0.0	0.0	0.0
					2.9924	87.52834	122.18320	0.00000	0.0	0.0	0.0	0.0
					3.4912	87.25933	121.76323	0.00000	0.0	0.0	0.0	0.0
					3.9899	86.99032	121.34326	0.00000	0.0	0.0	0.0	0.0
					4.4886	86.72131	120.92329	0.00000	0.0	0.0	0.0	0.0
					4.9874	86.45230	120.50333	0.00000	0.0	0.0	0.0	0.0
					5.4861	86.18329	120.08336	0.00000	0.0	0.0	0.0	0.0
					5.9848	85.91428	119.66339	0.00000	0.0	0.0	0.0	0.0
					6.4836	85.64527	119.24343	0.00000	0.0	0.0	0.0	0.0
					6.9823	85.37626	118.82346	0.00000	0.0	0.0	0.0	0.0
					7.4811	85.10724	118.40349	0.00000	0.0	0.0	0.0	0.0
					7.9798	84.83823	117.98352	0.00000	0.0	0.0	0.0	0.0
					8.4785	84.56922	117.56356	0.00000	0.0	0.0	0.0	0.0
					8.9773	84.30021	117.14359	0.00000	0.0	0.0	0.0	0.0
					9.4760	84.03120	116.72362	0.00000	0.0	0.0	0.0	0.0
					9.9747	83.76219	116.30366	0.00000	0.0	0.0	0.0	0.0
					10.473	83.49318	115.88369	0.00000	0.0	0.0	0.0	0.0
					10.972	83.22417	115.46372	0.00000	0.0	0.0	0.0	0.0
					11.471	82.95516	115.04375	0.00000	0.0	0.0	0.0	0.0
					11.970	82.68615	114.62379	0.00000	0.0	0.0	0.0	0.0
					12.468	82.41714	114.20382	0.00000	0.0	0.0	0.0	0.0
					12.967	82.14813	113.78385	0.00000	0.0	0.0	0.0	0.0
					13.466	81.87912	113.36388	0.00000	0.0	0.0	0.0	0.0
					13.965	81.61011	112.94392	0.00000	0.0	0.0	0.0	0.0
					14.463	81.34110	112.52395	0.00000	0.0	0.0	0.0	0.0
					14.962	81.07209	112.10398	0.00000	0.0	0.0	0.0	0.0
					15.461	80.80308	111.68402	0.00000	0.0	0.0	0.0	0.0
					15.960	80.53407	111.26405	0.00000	0.0	0.0	0.0	0.0
					16.458	80.26506	110.84408	0.00000	0.0	0.0	0.0	0.0
					16.957	79.99605	110.42411	0.00000	0.0	0.0	0.0	0.0
					17.456	79.72704	110.00415	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					17.955	79.45803	109.58418	0.00000	0.0	0.0	0.0	0.0
					18.453	79.18902	109.16421	0.00000	0.0	0.0	0.0	0.0
					18.952	78.92001	108.74424	0.00000	0.0	0.0	0.0	0.0
					19.451	78.65100	108.32428	0.00000	0.0	0.0	0.0	0.0
					19.949	78.38199	107.90431	0.00000	-0.0084796	-0.0036184	0.0076206	-0.0051886
					20.448	78.11298	107.48434	0.00000	-0.11608	-0.047684	0.10276	-0.072024
					20.947	77.84397	107.06438	0.00000	-0.22556	-0.089012	0.19662	-0.14193
					21.446	77.57496	106.64441	0.00000	-0.33702	-0.12746	0.28911	-0.21505
					21.944	77.30594	106.22444	0.00000	-0.45054	-0.16287	0.38016	-0.29153
					22.443	77.03693	105.80447	0.00000	-0.56618	-0.19509	0.46967	-0.37153
					22.942	76.76792	105.38451	0.00000	-0.68404	-0.22395	0.55754	-0.45520
					23.441	76.49891	104.96454	0.00000	-0.80418	-0.24929	0.64368	-0.54271
					23.939	76.22990	104.54457	0.00000	-0.92670	-0.27091	0.72797	-0.63421
					24.438	75.96089	104.12461	0.00000	-1.1175	-0.34524	0.89347	-0.75479
					24.937	75.69188	103.70464	0.00000	-1.3667	-0.46355	1.1275	-0.90083
					25.436	75.42287	103.28467	0.00000	-1.6183	-0.57756	1.3592	-1.0512
					25.934	75.15386	102.86470	0.00000	-1.9026	-0.71432	1.6277	-1.2168
					26.433	74.88485	102.44474	0.00000	-2.2049	-0.85186	1.9066	-1.3972
					26.932	74.61584	102.02477	0.00000	-2.5594	-0.99846	2.2213	-1.6166
					27.431	74.34683	101.60480	0.00000	-2.9184	-1.1426	2.5362	-1.8411
					27.929	74.07782	101.18483	0.00000	-3.2001	-1.2646	2.7910	-2.0126
					28.428	73.80881	100.76487	0.00000	-3.3946	-1.3621	2.9780	-2.1238
					28.927	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.1516	-2.2269
	28	SB-04	SB-04		0.0	73.53980	100.34490	0.00000	-3.5751	-1.4527	2.2391	3.1430
					0.45074	73.15931	100.58655	0.00000	-3.9283	-1.6068	2.4546	3.4624
					0.90147	72.77883	100.82820	0.00000	-4.2937	-1.7668	2.6773	3.7934
					1.3522	72.39835	101.06985	0.00000	-4.6103	-1.9180	2.8635	4.0907
					1.8029	72.01786	101.31150	0.00000	-4.8122	-2.0516	2.9623	4.3118
					2.2537	71.63737	101.55315	0.00000	-4.9354	-2.1222	3.0284	4.4374
					2.7044	71.25689	101.79480	0.00000	-5.0400	-2.1812	3.0850	4.5433
					3.1552	70.87641	102.03645	0.00000	-5.1373	-2.2386	3.1365	4.6439
					3.6059	70.49592	102.27810	0.00000	-5.2417	-2.3336	3.1737	4.7801
					4.0566	70.11543	102.51975	0.00000	-5.3560	-2.4988	3.1815	4.9808
					4.5074	69.73495	102.76140	0.00000	-3.6702	-1.1417	2.4860	2.9314
					4.9581	69.35447	103.00305	0.00000	-3.6949	-1.2809	2.4323	3.0622
					5.4088	68.97398	103.24470	0.00000	-3.7008	-1.4312	2.3567	3.1922
					5.8596	68.59349	103.48635	0.00000	-3.6869	-1.5925	2.2585	3.3209
					6.3103	68.21301	103.72800	0.00000	-3.6524	-1.7648	2.1370	3.4479
					6.7611	67.83253	103.96965	0.00000	-3.5966	-1.9479	1.9917	3.5725
					7.2118	67.45204	104.21130	0.00000	-3.5191	-2.1410	1.8228	3.6940
					7.6625	67.07155	104.45295	0.00000	-3.4199	-2.3433	1.6306	3.8116
					8.1133	66.69107	104.69460	0.00000	-3.3034	-2.5567	1.4178	3.9292
					8.5640	66.31059	104.93625	0.00000	-3.2358	-2.8297	1.2143	4.1235
					9.0147	65.93010	105.17790	0.00000	-3.1525	-3.1099	0.99385	4.3154
	29	SB-05	SB-05		0.0	65.93010	105.17790	0.00000	-3.1525	-3.1099	-4.3145	0.99776
					0.47729	66.18562	105.58103	0.00000	-2.9647	-3.0122	-4.1314	0.89148
					0.95459	66.44114	105.98417	0.00000	-2.7850	-2.9048	-3.9444	0.79722
					1.4319	66.69667	106.38730	0.00000	-2.6124	-2.7894	-3.7546	0.71317
					1.9092	66.95219	106.79044	0.00000	-2.4459	-2.6675	-3.5625	0.63784
					2.3865	67.20771	107.19357	0.00000	-2.2849	-2.5400	-3.3686	0.57004
					2.8638	67.46323	107.59671	0.00000	-2.1285	-2.4079	-3.1733	0.50874
					3.3411	67.71875	107.99984	0.00000	-1.9764	-2.2717	-2.9768	0.45309
					3.8183	67.97428	108.40297	0.00000	-1.8278	-2.1321	-2.7794	0.40240
					4.2956	68.22980	108.80611	0.00000	-1.6825	-1.9894	-2.5811	0.35604
					4.7729	68.48532	109.20924	0.00000	-1.5400	-1.8440	-2.3820	0.31351
					5.2502	68.74084	109.61238	0.00000	-1.3999	-1.6961	-2.1821	0.27436
					5.7275	68.99636	110.01551	0.00000	-1.2619	-1.5459	-1.9813	0.23822
					6.2048	69.25188	110.41865	0.00000	-1.1257	-1.3936	-1.7797	0.20473
					6.6821	69.50741	110.82178	0.00000	-0.99094	-1.2391	-1.5771	0.17363
					7.1594	69.76293	111.22492	0.00000	-0.85641	-1.0813	-1.3718	0.14447
					7.6367	70.01845	111.62805	0.00000	-0.77305	-0.98380	-1.2448	0.12625
					8.1140	70.27397	112.03118	0.00000	-0.69022	-0.88494	-1.1170	0.10922
					8.5913	70.52949	112.43432	0.00000	-0.60788	-0.78483	-0.98832	0.093265
					9.0686	70.78502	112.83745	0.00000	-0.52599	-0.68358	-0.85896	0.078301
					9.5459	71.04054	113.24059	0.00000	-0.44451	-0.58129	-0.72895	0.064245
					10.023	71.29606	113.64372	0.00000	-0.36341	-0.47804	-0.59832	0.051026
					10.500	71.55158	114.04686	0.00000	-0.28267	-0.37389	-0.46713	0.038579
					10.978	71.80710	114.44999	0.00000	-0.20224	-0.26893	-0.33542	0.026846
					11.455	72.06262	114.85312	0.00000	-0.12212	-0.16320	-0.20323	0.015775
					11.932	72.31815	115.25626	0.00000	-0.042280	-0.056772	-0.070586	0.0053172
					12.410	72.57367	115.65939	0.00000	0.0	0.0	0.0	0.0
					12.887	72.82919	116.06253	0.00000	0.0	0.0	0.0	0.0
					13.364	73.08471	116.46566	0.00000	0.0	0.0	0.0	0.0
					13.842	73.34023	116.86880	0.00000	0.0	0.0	0.0	0.0
					14.319	73.59576	117.27193	0.00000	0.0	0.0	0.0	0.0
					14.796	73.85128	117.67507	0.00000	0.0	0.0	0.0	0.0
					15.273	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0
	30	SB-06	SB-06		0.0	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0
					0.43543	73.71623	118.27067	0.00000	0.0	0.0	0.0	0.0
					0.87085	73.32565	118.46315	0.00000	0.0	0.0	0.0	0.0
					1.3063	72.93508	118.65563	0.00000	0.0	0.0	0.0	0.0
					1.7417	72.54450	118.84810	0.00000	0.0	0.0	0.0	0.0
					2.1771	72.15393	119.04057	0.00000	0.0	0.0	0.0	0.0
					2.6126	71.76335	119.23305	0.00000	0.0	0.0	0.0	0.0
					3.0480	71.37278	119.42552	0.00000	0.0	0.0	0.0	0.0
					3.4834	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0
	31	SB-07	SB-07		0.0	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0
					0.37898	70.83282	119.26970	0.00000	0.0	0.0	0.0	0.0
					0.75796	70.68345	118.92140	0.00000	0.0	0.0	0.0	0.0
					1.1369	70.53408	118.57310	0.00000	0.0	0.0	0.0	0.0
					1.5159	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0
	32	SB-08	SB-08		0.0	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0
					0.49123	69.95028	118.45410	0.00000	0.0	0.0	0.0	0.0
					0.98245	69.51585	118.68340	0.00000	0.0	0.0	0.0	0.0
					1.4737	69.08143	118.91271	0.00000	0.0	0.0	0.0	0.0
					1.9649	68.64701	119.14201	0.00000	0.0	0.0	0.0	0.0
					2.4561	68.21258	119.37131	0.00000	0.0	0.0	0.0	0.0
					2.9474	67.77816	119.60061	0.00000	0.0	0.0	0.0	0.0
					3.4386	67.34374	119.82991	0.00000	0.0	0.0	0.0	0.0
					3.9298	66.90931	120.05921	0.00000	0.0	0.0	0.0	0.0
					4.4210	66.47489	120.28852	0.00000	0.0	0.0	0.0	0.0
					4.9123	66.04047	120.51782	0.00000	0.0	0.0	0.0	0.0
					5.4035	65.60604	120.74712	0.00000	0.0	0.0	0.0	0.0
					5.8947	65.17162	120.97642	0.00000	0.0	0.0	0.0	0.0
					6.3859	64.73720	121.20572	0.00000	0.0	0.0	0.0	0.0
					6.8772	64.30277	121.43502	0.00000	0.0	0.0	0.0	0.0
					7.3684	63.86835	121.66433	0.00000	0.0	0.0	0.0	0.0
					7.8596	63.43393	121.89363	0.00000	0.0	0.0	0.0	0.0
					8.3508	62.99950	122.12293	0.00000	0.0	0.0	0.0	0.0
					8.8421	62.56508	122.35223	0.00000	0.0	0.0	0.0	0.0
					9.3333	62.13066	122.58153	0.00000	0.0	0.0	0.0	0.0
					9.8245	61.69623	122.81083	0.00000	0.0	0.0	0.0	0.0
					10.316	61.26181	123.04014	0.00000	0.0	0.0	0.0	0.0
					10.807	60.82739	123.26944	0.00000	0.0	0.0	0.0	0.0
					11.298	60.39296	123.49874	0.00000	0.0	0.0	0.0	0.0
					11.789	59.95854	123.72804	0.00000	0.0	0.0	0.0	0.0
					12.281	59.52412	123.95734	0.00000	0.0	0.0	0.0	0.0
					12.772	59.08969	124.18664	0.00000	0.0	0.0	0.0	0.0
					13.263	58.65527	124.41595	0.00000	0.0	0.0	0.0	0.0
					13.754	58.22085	124.64525	0.00000	0.0	0.0	0.0	0.0
					14.246	57.78642	124.87455	0.00000	0.0	0.0	0.0	0.0
					14.737	57.35200	125.10385	0.00000	0.0	0.0	0.0	0.0
					15.228	56.91758	125.33315	0.00000	0.0	0.0	0.0	0.0
					15.719	56.48315	125.56245	0.00000	0.0	0.0	0.0	0.0
					16.210	56.04873	125.79175	0.00000	0.0	0.0	0.0	0.0
					16.702	55.61431	126.02106	0.00000	0.0	0.0	0.0	0.0
					17.193	55.17988	126.25036	0.00000	0.0	0.0	0.0	0.0
					17.684	54.74546	126.47966	0.00000	0.0	0.0	0.0	0.0
					18.175	54.31104	126.70896	0.00000	0.0	0.0	0.0	0.0
					18.667	53.87661	126.93826	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					19.158	53.44219	127.16756	0.00000	0.0	0.0	0.0	0.0
					19.649	53.00777	127.39687	0.00000	0.0	0.0	0.0	0.0
					20.140	52.57334	127.62617	0.00000	0.0	0.0	0.0	0.0
					20.631	52.13892	127.85547	0.00000	0.0	0.0	0.0	0.0
					21.123	51.70450	128.08477	0.00000	0.0	0.0	0.0	0.0
					21.614	51.27007	128.31407	0.00000	0.0	0.0	0.0	0.0
					22.105	50.83565	128.54337	0.00000	0.0	0.0	0.0	0.0
					22.596	50.40123	128.77268	0.00000	0.0	0.0	0.0	0.0
					23.088	49.96680	129.00198	0.00000	0.0	0.0	0.0	0.0
					23.579	49.53238	129.23128	0.00000	0.0	0.0	0.0	0.0
					24.070	49.09796	129.46058	0.00000	0.0	0.0	0.0	0.0
					24.561	48.66353	129.68988	0.00000	0.0	0.0	0.0	0.0
					25.053	48.22911	129.91918	0.00000	0.0	0.0	0.0	0.0
					25.544	47.79469	130.14849	0.00000	0.0	0.0	0.0	0.0
					26.035	47.36026	130.37779	0.00000	0.0	0.0	0.0	0.0
					26.526	46.92584	130.60709	0.00000	0.0	0.0	0.0	0.0
					27.017	46.49142	130.83639	0.00000	0.0	0.0	0.0	0.0
					27.509	46.05699	131.06569	0.00000	0.0	0.0	0.0	0.0
					28.000	45.62257	131.29500	0.00000	0.0	0.0	0.0	0.0
					28.491	45.18815	131.52430	0.00000	0.0	0.0	0.0	0.0
					28.982	44.75372	131.75360	0.00000	0.0	0.0	0.0	0.0
					29.474	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0
	33	SB-09	SB-09		0.0	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0
					0.49663	44.54866	132.42340	0.00000	0.0	0.0	0.0	0.0
					0.99327	44.77801	132.86390	0.00000	0.0	0.0	0.0	0.0
					1.4899	45.00737	133.30440	0.00000	0.0	0.0	0.0	0.0
					1.9865	45.23672	133.74490	0.00000	0.0	0.0	0.0	0.0
					2.4832	45.46608	134.18540	0.00000	0.0	0.0	0.0	0.0
					2.9798	45.69544	134.62590	0.00000	0.0	0.0	0.0	0.0
					3.4764	45.92479	135.06640	0.00000	0.0	0.0	0.0	0.0
					3.9731	46.15415	135.50690	0.00000	0.0	0.0	0.0	0.0
					4.4697	46.38351	135.94740	0.00000	0.0	0.0	0.0	0.0
					4.9663	46.61286	136.38790	0.00000	0.0	0.0	0.0	0.0
					5.4630	46.84222	136.82840	0.00000	0.0	0.0	0.0	0.0
					5.9596	47.07158	137.26890	0.00000	0.0	0.0	0.0	0.0
					6.4562	47.30093	137.70940	0.00000	0.0	0.0	0.0	0.0
					6.9529	47.53029	138.14990	0.00000	0.0	0.0	0.0	0.0
					7.4495	47.75964	138.59040	0.00000	0.0	0.0	0.0	0.0
					7.9461	47.98900	139.03090	0.00000	0.0	0.0	0.0	0.0
					8.4428	48.21836	139.47140	0.00000	0.0	0.0	0.0	0.0
					8.9394	48.44771	139.91190	0.00000	0.0	0.0	0.0	0.0
					9.4360	48.67707	140.35240	0.00000	0.0	0.0	0.0	0.0
					9.9327	48.90642	140.79290	0.00000	0.0	0.0	0.0	0.0
					10.429	49.13578	141.23340	0.00000	0.0	0.0	0.0	0.0
					10.926	49.36514	141.67390	0.00000	0.0	0.0	0.0	0.0
					11.423	49.59449	142.11440	0.00000	0.0	0.0	0.0	0.0
					11.919	49.82385	142.55490	0.00000	0.0	0.0	0.0	0.0
					12.416	50.05321	142.99540	0.00000	0.0	0.0	0.0	0.0
					12.912	50.28256	143.43590	0.00000	0.0	0.0	0.0	0.0
					13.409	50.51192	143.87640	0.00000	0.0	0.0	0.0	0.0
					13.906	50.74128	144.31690	0.00000	0.0	0.0	0.0	0.0
					14.402	50.97063	144.75740	0.00000	0.0	0.0	0.0	0.0
					14.899	51.19999	145.19790	0.00000	0.0	0.0	0.0	0.0
					15.396	51.42934	145.63840	0.00000	0.0	0.0	0.0	0.0
					15.892	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0
	34	SB-10	SB-10		0.0	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0
					0.46146	52.05637	145.84480	0.00000	0.0	0.0	0.0	0.0
					0.92292	52.45404	145.61070	0.00000	0.0	0.0	0.0	0.0
					1.3844	52.85171	145.37660	0.00000	0.0	0.0	0.0	0.0
					1.8458	53.24938	145.14250	0.00000	0.0	0.0	0.0	0.0
					2.3073	53.64705	144.90840	0.00000	0.0	0.0	0.0	0.0
					2.7688	54.04472	144.67430	0.00000	0.0	0.0	0.0	0.0
					3.2302	54.44239	144.44020	0.00000	0.0	0.0	0.0	0.0
					3.6917	54.84006	144.20610	0.00000	0.0	0.0	0.0	0.0
					4.1531	55.23773	143.97200	0.00000	0.0	0.0	0.0	0.0
					4.6146	55.63540	143.73790	0.00000	0.0	0.0	0.0	0.0
					5.0760	56.03307	143.50380	0.00000	0.0	0.0	0.0	0.0
					5.5375	56.43074	143.26970	0.00000	0.0	0.0	0.0	0.0
					5.9990	56.82841	143.03560	0.00000	0.0	0.0	0.0	0.0
					6.4604	57.22608	142.80150	0.00000	0.0	0.0	0.0	0.0
					6.9219	57.62375	142.56740	0.00000	0.0	0.0	0.0	0.0
					7.3833	58.02142	142.33330	0.00000	0.0	0.0	0.0	0.0
					7.8448	58.41909	142.09920	0.00000	0.0	0.0	0.0	0.0
					8.3063	58.81676	141.86510	0.00000	0.0	0.0	0.0	0.0
					8.7677	59.21443	141.63100	0.00000	0.0	0.0	0.0	0.0
					9.2292	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0
	35	SB-11	SB-11		0.0	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0
					0.48552	60.04295	141.17306	0.00000	0.0	0.0	0.0	0.0
					0.97105	60.47379	140.94923	0.00000	0.0	0.0	0.0	0.0
					1.4566	60.90464	140.72539	0.00000	0.0	0.0	0.0	0.0
					1.9421	61.33549	140.50155	0.00000	0.0	0.0	0.0	0.0
					2.4276	61.76634	140.27772	0.00000	0.0	0.0	0.0	0.0
					2.9131	62.19718	140.05388	0.00000	0.0	0.0	0.0	0.0
					3.3987	62.62803	139.83004	0.00000	0.0	0.0	0.0	0.0
					3.8842	63.05888	139.60621	0.00000	0.0	0.0	0.0	0.0
					4.3697	63.48973	139.38237	0.00000	0.0	0.0	0.0	0.0
					4.8552	63.92057	139.15853	0.00000	0.0	0.0	0.0	0.0
					5.3408	64.35142	138.93469	0.00000	0.0	0.0	0.0	0.0
					5.8263	64.78227	138.71086	0.00000	0.0	0.0	0.0	0.0
					6.3118	65.21312	138.48702	0.00000	0.0	0.0	0.0	0.0
					6.7973	65.64396	138.26318	0.00000	0.0	0.0	0.0	0.0
					7.2828	66.07481	138.03935	0.00000	0.0	0.0	0.0	0.0
					7.7684	66.50566	137.81551	0.00000	0.0	0.0	0.0	0.0
					8.2539	66.93651	137.59167	0.00000	0.0	0.0	0.0	0.0
					8.7394	67.36735	137.36784	0.00000	0.0	0.0	0.0	0.0
					9.2249	67.79820	137.14400	0.00000	0.0	0.0	0.0	0.0
					9.7105	68.22905	136.92016	0.00000	0.0	0.0	0.0	0.0
					10.196	68.65989	136.69633	0.00000	0.0	0.0	0.0	0.0
					10.682	69.09074	136.47249	0.00000	0.0	0.0	0.0	0.0
					11.167	69.52159	136.24865	0.00000	0.0	0.0	0.0	0.0
					11.653	69.95244	136.02482	0.00000	0.0	0.0	0.0	0.0
					12.138	70.38328	135.80098	0.00000	0.0	0.0	0.0	0.0
					12.624	70.81413	135.57714	0.00000	0.0	0.0	0.0	0.0
					13.109	71.24498	135.35331	0.00000	0.0	0.0	0.0	0.0
					13.595	71.67583	135.12947	0.00000	0.0	0.0	0.0	0.0
					14.080	72.10667	134.90563	0.00000	0.0	0.0	0.0	0.0
					14.566	72.53752	134.68179	0.00000	0.0	0.0	0.0	0.0
					15.051	72.96837	134.45796	0.00000	0.0	0.0	0.0	0.0
					15.537	73.39922	134.23412	0.00000	0.0	0.0	0.0	0.0
					16.022	73.83006	134.01028	0.00000	0.0	0.0	0.0	0.0
					16.508	74.26091	133.78645	0.00000	0.0	0.0	0.0	0.0
					16.993	74.69176	133.56261	0.00000	0.0	0.0	0.0	0.0
					17.479	75.12261	133.33877	0.00000	0.0	0.0	0.0	0.0
					17.964	75.55345	133.11494	0.00000	0.0	0.0	0.0	0.0
					18.450	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0
	36	SB-12	SB-12		0.0	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0
					0.28634	76.21543	132.72207	0.00000	0.0	0.0	0.0	0.0
					0.57267	76.44655	132.55305	0.00000	0.0	0.0	0.0	0.0
					0.85901	76.67767	132.38403	0.00000	0.0	0.0	0.0	0.0
					1.1453	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0
	37	SB-13	SB-13		0.0	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0
					0.31767	76.76538	131.93155	0.00000	0.0	0.0	0.0	0.0
					0.63534	76.62195	131.64810	0.00000	0.0	0.0	0.0	0.0
					0.95301	76.47852	131.36465	0.00000	0.0	0.0	0.0	0.0
					1.2707	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0
	38	SB-14	SB-14		0.0	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0
					0.48921	76.75755	130.83449	0.00000	0.0	0.0	0.0	0.0
					0.97843	77.18000	130.58778	0.00000	0.0	0.0	0.0	0.0
					1.4676	77.60245	130.34107	0.00000	0.0	0.0	0.0	0.0
					1.9569	78.02490	130.09436	0.00000	0.0	0.0	0.0	0.0

Highgate School

Dyne House and Island Building GMA

A2

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					2.4461	78.44735	129.84765	0.00000	0.0	0.0	0.0	0.0
					2.9353	78.86980	129.60094	0.00000	0.0	0.0	0.0	0.0
					3.4245	79.29225	129.35423	0.00000	0.0	0.0	0.0	0.0
					3.9137	79.71470	129.10752	0.00000	0.0	0.0	0.0	0.0
					4.4029	80.13715	128.86081	0.00000	0.0	0.0	0.0	0.0
					4.8921	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0
		39	HL-01	HL-01	0.0	50.98220	128.46600	0.00000	0.0	0.0	0.0	0.0
					0.48226	50.76237	128.03676	0.00000	0.0	0.0	0.0	0.0
					0.96452	50.54254	127.60752	0.00000	0.0	0.0	0.0	0.0
					1.4468	50.32271	127.17828	0.00000	0.0	0.0	0.0	0.0
					1.9290	50.10287	126.74904	0.00000	0.0	0.0	0.0	0.0
					2.4113	49.88304	126.31980	0.00000	0.0	0.0	0.0	0.0
					2.8936	49.66321	125.89056	0.00000	0.0	0.0	0.0	0.0
					3.3758	49.44338	125.46132	0.00000	0.0	0.0	0.0	0.0
					3.8581	49.22355	125.03208	0.00000	0.0	0.0	0.0	0.0
					4.3403	49.00372	124.60283	0.00000	0.0	0.0	0.0	0.0
					4.8226	48.78389	124.17359	0.00000	0.0	0.0	0.0	0.0
					5.3048	48.56406	123.74435	0.00000	0.0	0.0	0.0	0.0
					5.7871	48.34423	123.31511	0.00000	0.0	0.0	0.0	0.0
					6.2694	48.12439	122.88587	0.00000	0.0	0.0	0.0	0.0
					6.7516	47.90456	122.45663	0.00000	0.0	0.0	0.0	0.0
					7.2339	47.68473	122.02739	0.00000	0.0	0.0	0.0	0.0
					7.7161	47.46490	121.59815	0.00000	0.0	0.0	0.0	0.0
					8.1984	47.24507	121.16891	0.00000	0.010229	-0.022170	0.015069	0.019210
					8.6807	47.02524	120.73967	0.00000	0.030707	-0.061861	0.041063	0.055530
					9.1629	46.80541	120.31043	0.00000	0.053559	-0.10056	0.065093	0.093512
					9.6452	46.58557	119.88119	0.00000	0.078803	-0.13823	0.087114	0.13315
					10.127	46.36574	119.45195	0.00000	0.10644	-0.17482	0.10708	0.17443
					10.610	46.14591	119.02271	0.00000	0.13648	-0.21028	0.12495	0.21733
					11.092	45.92608	118.59347	0.00000	0.16889	-0.24457	0.14070	0.26181
					11.574	45.70625	118.16423	0.00000	0.20364	-0.27764	0.15428	0.30781
					12.056	45.48642	117.73498	0.00000	0.24070	-0.30943	0.16569	0.35528
					12.539	45.26659	117.30574	0.00000	0.27998	-0.33989	0.17490	0.40414
					13.021	45.04676	116.87650	0.00000	0.32141	-0.36899	0.18191	0.45427
					13.503	44.82693	116.44726	0.00000	0.36488	-0.39665	0.18672	0.50558
					13.985	44.60709	116.01802	0.00000	0.41026	-0.42284	0.18934	0.55791
					14.468	44.38726	115.58878	0.00000	0.45740	-0.44751	0.18981	0.61110
					14.950	44.16743	115.15954	0.00000	0.50611	-0.47060	0.18816	0.66498
					15.432	43.94760	114.73030	0.00000	0.55618	-0.49207	0.18444	0.71934
		40	HL-02	HL-02	0.0	43.94760	114.73030	0.00000	0.55618	-0.49207	-0.72310	0.16913
					0.46776	43.53589	114.95231	0.00000	0.50319	-0.43763	-0.65061	0.14637
					0.93551	43.12418	115.17432	0.00000	0.44759	-0.38310	-0.57579	0.12476
					1.4033	42.71246	115.39634	0.00000	0.38956	-0.32850	-0.49880	0.10424
					1.8710	42.30075	115.61835	0.00000	0.32930	-0.27381	-0.41980	0.084709
					2.3388	41.88904	115.84036	0.00000	0.26694	-0.21906	-0.33893	0.066113
					2.8065	41.47733	116.06238	0.00000	0.20263	-0.16424	-0.25631	0.048383
					3.2743	41.06561	116.28439	0.00000	0.13651	-0.10936	-0.17206	0.031464
					3.7421	40.65390	116.50640	0.00000	0.068694	-0.054427	-0.086296	0.015301
					4.2098	40.24219	116.72841	0.00000	0.0	0.0	0.0	0.0
					4.6776	39.83047	116.95042	0.00000	0.0	0.0	0.0	0.0
					5.1453	39.41876	117.17244	0.00000	0.0	0.0	0.0	0.0
					5.6131	39.00705	117.39445	0.00000	0.0	0.0	0.0	0.0
					6.0808	38.59534	117.61646	0.00000	0.0	0.0	0.0	0.0
					6.5486	38.18362	117.83848	0.00000	0.0	0.0	0.0	0.0
					7.0164	37.77191	118.06049	0.00000	0.0	0.0	0.0	0.0
					7.4841	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0
		41	HL-03	HL-03	0.0	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0
					0.48020	37.57767	118.71064	0.00000	0.0	0.0	0.0	0.0
					0.96041	37.79514	119.13877	0.00000	0.0	0.0	0.0	0.0
					1.4406	38.01262	119.56691	0.00000	0.0	0.0	0.0	0.0
					1.9208	38.23009	119.99505	0.00000	0.0	0.0	0.0	0.0
					2.4010	38.44756	120.42319	0.00000	0.0	0.0	0.0	0.0
					2.8812	38.66503	120.85133	0.00000	0.0	0.0	0.0	0.0
					3.3614	38.88250	121.27946	0.00000	0.0	0.0	0.0	0.0
					3.8416	39.09998	121.70760	0.00000	0.0	0.0	0.0	0.0
					4.3218	39.31745	122.13574	0.00000	0.0	0.0	0.0	0.0
					4.8020	39.53492	122.56387	0.00000	0.0	0.0	0.0	0.0
					5.2822	39.75239	122.99201	0.00000	0.0	0.0	0.0	0.0
					5.7624	39.96986	123.42015	0.00000	0.0	0.0	0.0	0.0
					6.2427	40.18733	123.84829	0.00000	0.0	0.0	0.0	0.0
					6.7229	40.40481	124.27643	0.00000	0.0	0.0	0.0	0.0
					7.2031	40.62228	124.70456	0.00000	0.0	0.0	0.0	0.0
					7.6833	40.83975	125.13270	0.00000	0.0	0.0	0.0	0.0
					8.1635	41.05722	125.56084	0.00000	0.0	0.0	0.0	0.0
					8.6437	41.27469	125.98897	0.00000	0.0	0.0	0.0	0.0
					9.1239	41.49217	126.41711	0.00000	0.0	0.0	0.0	0.0
					9.6041	41.70964	126.84525	0.00000	0.0	0.0	0.0	0.0
					10.084	41.92711	127.27339	0.00000	0.0	0.0	0.0	0.0
					10.564	42.14458	127.70153	0.00000	0.0	0.0	0.0	0.0
					11.045	42.36205	128.12966	0.00000	0.0	0.0	0.0	0.0
					11.525	42.57952	128.55780	0.00000	0.0	0.0	0.0	0.0
					12.005	42.79700	128.98594	0.00000	0.0	0.0	0.0	0.0
					12.485	43.01447	129.41407	0.00000	0.0	0.0	0.0	0.0
					12.966	43.23194	129.84221	0.00000	0.0	0.0	0.0	0.0
					13.446	43.44941	130.27035	0.00000	0.0	0.0	0.0	0.0
					13.926	43.66688	130.69849	0.00000	0.0	0.0	0.0	0.0
					14.406	43.88436	131.12662	0.00000	0.0	0.0	0.0	0.0
					14.886	44.10183	131.55476	0.00000	0.0	0.0	0.0	0.0
					15.367	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0
		42	CH-01	CH-01	0.0	43.98880	114.70780	0.00000	0.56138	-0.49754	0.72956	-0.17445
					0.48967	44.42074	114.47714	0.00000	0.61330	-0.55433	0.80212	-0.20008
					0.97934	44.85268	114.24649	0.00000	0.66182	-0.61100	0.87161	-0.22721
					1.4690	45.28462	114.01583	0.00000	0.74725	-0.71044	0.99381	-0.27470
					1.9587	45.71656	113.78517	0.00000	0.82967	-0.81322	1.1149	-0.32654
					2.4483	46.14850	113.55451	0.00000	0.90566	-0.91642	1.2306	-0.38177
					2.9380	46.58044	113.32386	0.00000	0.97471	-1.0202	1.3403	-0.44075
					3.4277	47.01237	113.09320	0.00000	1.0362	-1.1246	1.4438	-0.50391
					3.9173	47.44431	112.86254	0.00000	1.0894	-1.2298	1.5403	-0.57171
					4.4070	47.87625	112.63189	0.00000	1.1335	-1.3361	1.6292	-0.64464
					4.8967	48.30819	112.40123	0.00000	1.1675	-1.4434	1.7097	-0.72328
					5.3863	48.74013	112.17057	0.00000	1.1903	-1.5519	1.7810	-0.80825
					5.8760	49.17207	111.93991	0.00000	1.2006	-1.6617	1.8418	-0.90026
					6.3657	49.60401	111.70926	0.00000	1.1971	-1.7730	1.8911	-1.0001
					6.8553	50.03595	111.47860	0.00000	1.1780	-1.8857	1.9274	-1.1085
					7.3450	50.46789	111.24794	0.00000	1.1416	-2.0000	1.9491	-1.2265
					7.8347	50.89983	111.01729	0.00000	1.0857	-2.1158	1.9543	-1.3550
					8.3243	51.33177	110.78663	0.00000	1.0081	-2.2332	1.9412	-1.4951
					8.8140	51.76371	110.55597	0.00000	0.90639	-2.3521	1.9075	-1.6478
					9.3037	52.19565	110.32531	0.00000	0.77793	-2.4723	1.8508	-1.8143
					9.7934	52.62759	110.09466	0.00000	0.63416	-2.6410	1.8034	-2.0309
					10.283	53.05953	109.86400	0.00000	0.46518	-2.8334	1.7450	-2.2802
					10.773	53.49146	109.63334	0.00000	0.26459	-3.0355	1.6633	-2.5530
					11.262	53.92340	109.40269	0.00000	0.030606	-3.2470	1.5565	-2.8498
					11.752	54.35534	109.17203	0.00000	-0.23782	-3.4672	1.4234	-3.1704
					12.242	54.78728	108.94137	0.00000	-0.54059	-3.6945	1.2634	-3.5136
					12.731	55.21922	108.71071	0.00000	-0.87610	-3.9268	1.0769	-3.8766
					13.221	55.65116	108.48006	0.00000	-1.2408	-4.1611	0.86556	-4.2550
					13.711	56.08310	108.24940	0.00000	-1.6290	-4.3934	0.63255	-4.6428
		43	CH-02	CH-02	0.0	56.08310	108.24940	0.00000	-1.6290	-4.3934	4.6347	0.68905
					0.48553	55.84919	107.82393	0.00000	-1.6029	-4.5494	4.7589	0.78708
					0.97106	55.61528	107.39846	0.00000	-1.5483	-4.6950	4.8602	0.90512
					1.4566	55.38138	106.97298	0.00000	-1.4552	-4.8254	4.9296	1.0495
					1.9421	55.14747	106.54751	0.00000	-1.3094	-4.9337	4.9542	1.2294
					2.4276	54.91356	106.12204	0.00000	-1.0894	-5.0092	4.9144	1.4585
					2.9132	54.67965	105.69657	0.00000	-0.76238	-5.0356	4.7800	1.7578
					3.3987	54.44574	105.27110	0.00000	-0.27579	-4.9865	4.5025	2.1606
					3.8842	54.21184	104.84562	0.00000	0.45469	-4.8190	4.0039	2.7200
					4.3698	53.97793	104.42015	0.00000	1.5793	-4.5284	3.2074	3.5655
					4.8553	53.74402	103.99468	0.00000	3.3744	-4.3885	2.2200	5.0712
					5.3408	53.51011	103.56921	0.00000	5.8278	-4.1009	0.78608	7.0826

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					5.8264	53.27620	103.14374	0.00000	7.2623	-3.9378	-0.047930	8.2611
					6.3119	53.04230	102.71826	0.00000	7.3696	-3.9960	-0.048638	8.3831
					6.7974	52.80839	102.29279	0.00000	7.4768	-4.0542	-0.049346	8.5051
					7.2829	52.57448	101.86732	0.00000	7.5841	-4.1123	-0.050054	8.6271
					7.7685	52.34057	101.44185	0.00000	7.6913	-4.1704	-0.050761	8.7490
					8.2540	52.10666	101.01638	0.00000	7.7984	-4.2285	-0.051468	8.8709
					8.7395	51.87276	100.59090	0.00000	7.9056	-4.2866	-0.052175	8.9928
					9.2251	51.63885	100.16543	0.00000	8.0127	-4.3447	-0.052882	9.1146
					9.7106	51.40494	99.73996	0.00000	8.1197	-4.4028	-0.053589	9.2364
					10.196	51.17103	99.31449	0.00000	8.2268	-4.4608	-0.054295	9.3582
					10.682	50.93712	98.88902	0.00000	8.3338	-4.5188	-0.055001	9.4799
					11.167	50.70322	98.46354	0.00000	8.4407	-4.5768	-0.055707	9.6016
					11.653	50.46931	98.03807	0.00000	8.5477	-4.6348	-0.056413	9.7232
					12.138	50.23540	97.61260	0.00000	8.6546	-4.6928	-0.057119	9.8448
					12.624	50.00149	97.18713	0.00000	8.7614	-4.7507	-0.057824	9.9664
					13.109	49.76758	96.76166	0.00000	8.8683	-4.8086	-0.058529	10.088
					13.595	49.53368	96.33618	0.00000	8.9751	-4.8666	-0.059234	10.209
					14.080	49.29977	95.91071	0.00000	9.0819	-4.9245	-0.059939	10.331
					14.566	49.06586	95.48524	0.00000	9.1886	-4.9823	-0.060643	10.452
					15.051	48.83195	95.05977	0.00000	9.1139	-4.9418	-0.060150	10.367
					15.537	48.59804	94.63430	0.00000	9.0032	-4.8818	-0.059420	10.241
					16.022	48.36414	94.20882	0.00000	8.8926	-4.8218	-0.058690	10.116
					16.508	48.13023	93.78335	0.00000	8.7820	-4.7619	-0.057960	9.9898
					16.994	47.89632	93.35788	0.00000	8.6714	-4.7019	-0.057230	9.8640
					17.479	47.66241	92.93241	0.00000	8.5609	-4.6420	-0.056500	9.7382
					17.965	47.42850	92.50694	0.00000	8.4504	-4.5820	-0.055771	9.6125
					18.450	47.19460	92.08146	0.00000	8.3399	-4.5221	-0.055042	9.4868
					18.936	46.96069	91.65599	0.00000	8.2294	-4.4622	-0.054313	9.3612
					19.421	46.72678	91.23052	0.00000	8.1190	-4.4024	-0.053584	9.2356
					19.907	46.49287	90.80505	0.00000	8.0087	-4.3425	-0.052856	9.1101
					20.392	46.25896	90.37958	0.00000	7.8983	-4.2827	-0.052127	8.9845
					20.878	46.02506	89.95410	0.00000	7.7880	-4.2229	-0.051399	8.8591
					21.363	45.79115	89.52863	0.00000	7.6777	-4.1631	-0.050672	8.7336
					21.849	45.55724	89.10316	0.00000	7.5675	-4.1033	-0.049944	8.6082
					22.334	45.32333	88.67769	0.00000	7.4573	-4.0436	-0.049217	8.4828
					22.820	45.08942	88.25222	0.00000	7.3471	-3.9838	-0.048489	8.3575
					23.305	44.85552	87.82674	0.00000	7.2369	-3.9241	-0.047762	8.2322
					23.791	44.62161	87.40127	0.00000	6.9600	-3.4761	-0.30691	7.7737
					24.276	44.38770	86.97580	0.00000	5.8986	-1.2899	-1.7113	5.7904
	44	CH-03	CH-03		0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	-5.7430	-1.8642
					0.48596	43.96821	87.22111	0.00000	5.9739	-1.8808	-6.1063	-1.3921
					0.97191	43.54871	87.46643	0.00000	5.9205	-2.1910	-6.2167	-1.0974
					1.4579	43.12922	87.71174	0.00000	5.8016	-2.3534	-6.1961	-0.89712
					1.9438	42.70973	87.95705	0.00000	5.6467	-2.4304	-6.1013	-0.75251
					2.4298	42.29023	88.20237	0.00000	5.4711	-2.4543	-5.9618	-0.64325
					2.9157	41.87074	88.44768	0.00000	5.2834	-2.4435	-5.7943	-0.55778
					3.4017	41.45125	88.69300	0.00000	5.0886	-2.4092	-5.6089	-0.48905
					3.8876	41.03175	88.93831	0.00000	4.8900	-2.3585	-5.4118	-0.43255
					4.3736	40.61226	89.18362	0.00000	4.6896	-2.2962	-5.2073	-0.38523
					4.8596	40.19277	89.42894	0.00000	4.4888	-2.2253	-4.9982	-0.34498
					5.3455	39.77327	89.67425	0.00000	4.2883	-2.1483	-4.7863	-0.31029
					5.8315	39.35378	89.91956	0.00000	4.0890	-2.0668	-4.5731	-0.28004
					6.3174	38.93429	90.16488	0.00000	3.8910	-1.9819	-4.3593	-0.25339
					6.8034	38.51480	90.41019	0.00000	3.6947	-1.8945	-4.1458	-0.22971
					7.2893	38.09530	90.65550	0.00000	3.5002	-1.8053	-3.9328	-0.20848
					7.7753	37.67581	90.90082	0.00000	3.3074	-1.7148	-3.7207	-0.18932
					8.2613	37.25632	91.14613	0.00000	3.1165	-1.6233	-3.5097	-0.17191
					8.7472	36.83682	91.39145	0.00000	2.9272	-1.5311	-3.2998	-0.15598
					9.2332	36.41733	91.63676	0.00000	2.7396	-1.4383	-3.0910	-0.14134
					9.7191	35.99784	91.88207	0.00000	2.5534	-1.3452	-2.8833	-0.12779
					10.205	35.57834	92.12739	0.00000	2.3686	-1.2517	-2.6765	-0.11520
					10.691	35.15885	92.37270	0.00000	2.1850	-1.1579	-2.4707	-0.10344
					11.177	34.73936	92.61801	0.00000	2.0023	-1.0639	-2.2655	-0.092407
					11.663	34.31986	92.86333	0.00000	1.8205	-0.96958	-2.0609	-0.082007
					12.149	33.90037	93.10864	0.00000	1.6392	-0.87498	-1.8567	-0.072164
					12.635	33.48088	93.35395	0.00000	1.4583	-0.78003	-1.6526	-0.062810
					13.121	33.06138	93.59927	0.00000	1.2776	-0.68468	-1.4485	-0.053886
					13.607	32.64189	93.84458	0.00000	1.0964	-0.58864	-1.2436	-0.045323
					14.093	32.22240	94.08990	0.00000	0.99036	-0.53251	-1.1237	-0.040260
					14.579	31.80290	94.33521	0.00000	0.88415	-0.47606	-1.0036	-0.035373
					15.065	31.38341	94.58052	0.00000	0.77777	-0.41933	-0.88308	-0.030646
					15.551	30.96392	94.82584	0.00000	0.67123	-0.36233	-0.76234	-0.026066
					16.037	30.54442	95.07115	0.00000	0.56454	-0.30509	-0.64135	-0.021619
					16.523	30.12493	95.31646	0.00000	0.45772	-0.24763	-0.52013	-0.017296
					17.008	29.70544	95.56178	0.00000	0.35078	-0.18997	-0.39870	-0.013086
					17.494	29.28595	95.80709	0.00000	0.24372	-0.13212	-0.27708	-0.0089811
					17.980	28.86645	96.05240	0.00000	0.13659	-0.074065	-0.15530	-0.0050179
					18.466	28.44696	96.29772	0.00000	0.029313	-0.015895	-0.033328	-0.0010769
					18.952	28.02747	96.54303	0.00000	0.0	0.0	0.0	0.0
					19.438	27.60797	96.78835	0.00000	0.0	0.0	0.0	0.0
					19.924	27.18848	97.03366	0.00000	0.0	0.0	0.0	0.0
					20.410	26.76899	97.27897	0.00000	0.0	0.0	0.0	0.0
					20.896	26.34949	97.52429	0.00000	0.0	0.0	0.0	0.0
					21.382	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0
	45	CH-04	CH-04		0.0	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0
					0.48923	26.16813	98.19696	0.00000	0.0	0.0	0.0	0.0
					0.97845	26.40627	98.62432	0.00000	0.0	0.0	0.0	0.0
					1.4677	26.64440	99.05168	0.00000	0.0	0.0	0.0	0.0
					1.9569	26.88253	99.47903	0.00000	0.0	0.0	0.0	0.0
					2.4461	27.12067	99.90639	0.00000	0.0	0.0	0.0	0.0
					2.9354	27.35880	100.33375	0.00000	0.0	0.0	0.0	0.0
					3.4246	27.59693	100.76111	0.00000	0.0	0.0	0.0	0.0
					3.9138	27.83507	101.18847	0.00000	0.0	0.0	0.0	0.0
					4.4030	28.07320	101.61583	0.00000	0.0	0.0	0.0	0.0
					4.8923	28.31133	102.04318	0.00000	0.0	0.0	0.0	0.0
					5.3815	28.54947	102.47054	0.00000	0.0	0.0	0.0	0.0
					5.8707	28.78760	102.89790	0.00000	0.0	0.0	0.0	0.0
					6.3599	29.02573	103.32526	0.00000	0.0	0.0	0.0	0.0
					6.8492	29.26387	103.75262	0.00000	0.0	0.0	0.0	0.0
					7.3384	29.50200	104.17997	0.00000	0.0	0.0	0.0	0.0
					7.8276	29.74013	104.60733	0.00000	0.0	0.0	0.0	0.0
					8.3169	29.97827	105.03469	0.00000	0.0	0.0	0.0	0.0
					8.8061	30.21640	105.46205	0.00000	0.0	0.0	0.0	0.0
					9.2953	30.45453	105.88941	0.00000	0.0	0.0	0.0	0.0
					9.7845	30.69267	106.31677	0.00000	0.0	0.0	0.0	0.0
					10.274	30.93080	106.74412	0.00000	0.0	0.0	0.0	0.0
					10.763	31.16893	107.17148	0.00000	0.0	0.0	0.0	0.0
					11.252	31.40707	107.59884	0.00000	0.0	0.0	0.0	0.0
					11.741	31.64520	108.02620	0.00000	0.0	0.0	0.0	0.0
					12.231	31.88333	108.45356	0.00000	0.0	0.0	0.0	0.0
					12.720	32.12147	108.88092	0.00000	0.0	0.0	0.0	0.0
					13.209	32.35960	109.30827	0.00000	0.0	0.0	0.0	0.0
					13.698	32.59773	109.73563	0.00000	0.0	0.0	0.0	0.0
					14.188	32.83587	110.16299	0.00000	0.0	0.0	0.0	0.0
					14.677	33.07400	110.59035	0.00000	0.0	0.0	0.0	0.0
					15.166	33.31213	111.01771	0.00000	0.0	0.0	0.0	0.0
					15.655	33.55027	111.44507	0.00000	0.0	0.0	0.0	0.0
					16.144	33.78840	111.87242	0.00000	0.0	0.0	0.0	0.0
					16.634	34.02653	112.29978	0.00000	0.0	0.0	0.0	0.0
					17.123	34.26467	112.72714	0.00000	0.0	0.0	0.0	0.0
					17.612	34.50280	113.15450	0.00000	0.0	0.0	0.0	0.0
					18.101	34.74093	113.58186	0.00000	0.0	0.0	0.0	0.0
					18.591	34.97907	114.00922	0.00000	0.0	0.0	0.0	0.0
					19.080	35.21720	114.43657	0.00000	0.0	0.0	0.0	0.0
					19.569	35.45533	114.86393	0.00000	0.0	0.0	0.0	0.0
					20.058	35.69347	115.29129	0.00000	0.0	0.0	0.0	0.0
					20.548	35.93160	115.71865	0.00000	0.0	0.0	0.0	0.0
					21.037	36.16973	116.14601	0.00000	0.0	0.0	0.0	0.0
					21.526	36.40787	116.57337	0.00000	0.0	0.0	0.0	0.0
					22.015	36.64600	117.00072	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					22.504	36.88413	117.42808	0.00000	0.0	0.0	0.0	0.0
					22.994	37.12227	117.85544	0.00000	0.0	0.0	0.0	0.0
					23.483	37.36040	118.28280	0.00000	0.0	0.0	0.0	0.0
		46	CH-05	CH-05	0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	-5.3932	2.7148
					0.43282	43.96845	86.86828	0.00000	5.4594	-0.73469	-5.1058	2.0679
					0.86564	43.54920	86.76075	0.00000	5.1174	-0.39034	-4.8600	1.6494
					1.2985	43.12995	86.65323	0.00000	4.8311	-0.16291	-4.6392	1.3580
					1.7313	42.71070	86.54570	0.00000	4.5803	-0.0063192	-4.4352	1.1440
					2.1641	42.29145	86.43818	0.00000	4.3540	0.10444	-4.2434	0.98048
					2.5969	41.87220	86.33065	0.00000	4.1454	0.18403	-4.0612	0.85158
					3.0297	41.45295	86.22312	0.00000	3.9505	0.24157	-3.8867	0.74742
					3.4626	41.03370	86.11560	0.00000	3.7665	0.28302	-3.7187	0.66156
		47	CH-06	CH-06	0.0	41.03370	86.11560	0.00000	3.7665	0.28302	-3.1083	-2.1460
					0.48042	40.61901	86.35816	0.00000	3.7571	0.0036583	-3.2412	-1.9001
					0.96085	40.20431	86.60072	0.00000	3.7193	-0.22004	-3.3215	-1.6879
					1.4413	39.78962	86.84328	0.00000	3.6587	-0.39768	-3.3589	-1.5040
					1.9217	39.37493	87.08584	0.00000	3.5799	-0.53721	-3.3613	-1.3437
					2.4021	38.96024	87.32840	0.00000	3.4864	-0.64518	-3.3352	-1.2034
					2.8825	38.54554	87.57096	0.00000	3.3812	-0.72689	-3.2856	-1.0797
					3.3630	38.13085	87.81352	0.00000	3.2666	-0.78669	-3.2169	-0.97022
					3.8434	37.71616	88.05609	0.00000	3.1444	-0.82812	-3.1323	-0.87276
					4.3238	37.30146	88.29865	0.00000	3.0160	-0.85404	-3.0346	-0.78557
					4.8042	36.88677	88.54121	0.00000	2.8827	-0.86684	-2.9260	-0.70721
					5.2846	36.47208	88.78377	0.00000	2.7453	-0.86845	-2.8082	-0.63645
					5.7651	36.05739	89.02633	0.00000	2.6046	-0.86048	-2.6827	-0.57228
					6.2455	35.64269	89.26889	0.00000	2.4611	-0.84426	-2.5506	-0.51383
					6.7259	35.22800	89.51145	0.00000	2.3153	-0.82088	-2.4130	-0.46039
					7.2063	34.81331	89.75401	0.00000	2.1675	-0.79127	-2.2704	-0.41133
					7.6868	34.39861	89.99657	0.00000	2.0179	-0.75618	-2.1236	-0.36612
					8.1672	33.98392	90.23913	0.00000	1.8669	-0.71625	-1.9731	-0.32430
					8.6476	33.56923	90.48169	0.00000	1.7143	-0.67202	-1.8191	-0.28548
					9.1280	33.15454	90.72425	0.00000	1.5605	-0.62391	-1.6620	-0.24931
					9.6085	32.73984	90.96681	0.00000	1.4052	-0.57229	-1.5019	-0.21550
					10.089	32.32515	91.20938	0.00000	1.2487	-0.51747	-1.3391	-0.18378
					10.569	31.91046	91.45194	0.00000	1.0907	-0.45968	-1.1736	-0.15391
					11.050	31.49576	91.69450	0.00000	0.96044	-0.41064	-1.0364	-0.13046
					11.530	31.08107	91.93706	0.00000	0.86916	-0.37557	-0.93986	-0.11464
					12.011	30.66638	92.17962	0.00000	0.77690	-0.33902	-0.84178	-0.099615
					12.491	30.25169	92.42218	0.00000	0.68376	-0.30111	-0.74224	-0.085315
					12.971	29.83699	92.66474	0.00000	0.58980	-0.26194	-0.64136	-0.071683
					13.452	29.42230	92.90730	0.00000	0.49510	-0.22163	-0.53926	-0.058665
		48	CH-07	CH-07	0.0	29.42230	92.90730	0.00000	0.49510	-0.22163	-0.092640	0.53447
					0.48449	29.15173	92.50539	0.00000	0.46323	-0.19833	-0.094169	0.49502
					0.96899	28.88117	92.10349	0.00000	0.42978	-0.17548	-0.094441	0.45452
					1.4535	28.61060	91.70158	0.00000	0.39491	-0.15329	-0.093381	0.41320
					1.9380	28.34003	91.29968	0.00000	0.35877	-0.13192	-0.090923	0.37129
					2.4225	28.06947	90.89777	0.00000	0.32152	-0.11156	-0.087008	0.32901
					2.9070	27.79890	90.49587	0.00000	0.28327	-0.092344	-0.081590	0.28655
					3.3915	27.52833	90.09396	0.00000	0.24417	-0.074415	-0.074625	0.24410
					3.8760	27.25777	89.69206	0.00000	0.20433	-0.057893	-0.066082	0.20183
					4.3604	26.98720	89.29015	0.00000	0.16386	-0.042884	-0.055937	0.15988
					4.8449	26.71663	88.88824	0.00000	0.12288	-0.029479	-0.044170	0.11840
					5.3294	26.44607	88.48634	0.00000	0.081480	-0.017757	-0.030772	0.077507
					5.8139	26.17550	88.08443	0.00000	0.039743	-0.0077833	-0.015738	0.037315
					6.2984	25.90493	87.68253	0.00000	0.0	0.0	0.0	0.0
					6.7829	25.63437	87.28062	0.00000	0.0	0.0	0.0	0.0
					7.2674	25.36380	86.87872	0.00000	0.0	0.0	0.0	0.0
					7.7519	25.09323	86.47681	0.00000	0.0	0.0	0.0	0.0
					8.2364	24.82267	86.07491	0.00000	0.0	0.0	0.0	0.0
					8.7209	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0
		49	CH-08	CH-08	0.0	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0
					0.22375	24.36080	85.78905	0.00000	0.0	0.0	0.0	0.0
					0.44750	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0
		50	CH-09	CH-09	0.0	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0
					0.41343	23.93042	85.56780	0.00000	0.0	0.0	0.0	0.0
					0.82687	23.69135	85.23050	0.00000	0.0	0.0	0.0	0.0
					1.2403	23.45228	84.89320	0.00000	0.0	0.0	0.0	0.0
					1.6537	23.21320	84.55590	0.00000	0.0	0.0	0.0	0.0
					2.0672	22.97413	84.21860	0.00000	0.0	0.0	0.0	0.0
					2.4806	22.73505	83.88130	0.00000	0.0	0.0	0.0	0.0
					2.8940	22.49598	83.54400	0.00000	0.0	0.0	0.0	0.0
					3.3075	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0
		51	CH-10	CH-10	0.0	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0
					0.49151	21.84234	83.47075	0.00000	0.0	0.0	0.0	0.0
					0.98302	21.42778	83.73480	0.00000	0.0	0.0	0.0	0.0
					1.4745	21.01322	83.99885	0.00000	0.0	0.0	0.0	0.0
					1.9660	20.59866	84.26290	0.00000	0.0	0.0	0.0	0.0
					2.4576	20.18410	84.52695	0.00000	0.0	0.0	0.0	0.0
					2.9491	19.76954	84.79100	0.00000	0.0	0.0	0.0	0.0
					3.4406	19.35498	85.05505	0.00000	0.0	0.0	0.0	0.0
					3.9321	18.94042	85.31910	0.00000	0.0	0.0	0.0	0.0
					4.4236	18.52586	85.58315	0.00000	0.0	0.0	0.0	0.0
					4.9151	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0
		52	CH-11	CH-11	0.0	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0
					0.47528	18.37194	86.24464	0.00000	0.0	0.0	0.0	0.0
					0.95057	18.63258	86.64209	0.00000	0.0	0.0	0.0	0.0
					1.4259	18.89322	87.03953	0.00000	0.0	0.0	0.0	0.0
					1.9011	19.15386	87.43697	0.00000	0.0	0.0	0.0	0.0
					2.3764	19.41450	87.83442	0.00000	0.0	0.0	0.0	0.0
					2.8517	19.67514	88.23186	0.00000	0.0	0.0	0.0	0.0
					3.3270	19.93578	88.62930	0.00000	0.0	0.0	0.0	0.0
					3.8023	20.19642	89.02675	0.00000	0.0	0.0	0.0	0.0
					4.2776	20.45706	89.42419	0.00000	0.0	0.0	0.0	0.0
					4.7528	20.71770	89.82163	0.00000	0.0	0.0	0.0	0.0
					5.2281	20.97834	90.21908	0.00000	0.0	0.0	0.0	0.0
					5.7034	21.23898	90.61652	0.00000	0.0	0.0	0.0	0.0
					6.1787	21.49962	91.01396	0.00000	0.0	0.0	0.0	0.0
					6.6540	21.76026	91.41141	0.00000	0.0	0.0	0.0	0.0
					7.1293	22.02090	91.80885	0.00000	0.0	0.0	0.0	0.0
					7.6045	22.28154	92.20629	0.00000	0.0	0.0	0.0	0.0
					8.0798	22.54218	92.60374	0.00000	0.0	0.0	0.0	0.0
					8.5551	22.80282	93.00118	0.00000	0.0	0.0	0.0	0.0
					9.0304	23.06346	93.39862	0.00000	0.0	0.0	0.0	0.0
					9.5057	23.32410	93.79607	0.00000	0.0	0.0	0.0	0.0
					9.9810	23.58474	94.19351	0.00000	0.0	0.0	0.0	0.0
					10.456	23.84538	94.59095	0.00000	0.0	0.0	0.0	0.0
					10.932	24.10602	94.98840	0.00000	0.0	0.0	0.0	0.0
					11.407	24.36666	95.38584	0.00000	0.0	0.0	0.0	0.0
					11.882	24.62730	95.78328	0.00000	0.0	0.0	0.0	0.0
					12.357	24.88794	96.18073	0.00000	0.0	0.0	0.0	0.0
					12.833	25.14858	96.57817	0.00000	0.0	0.0	0.0	0.0
					13.308	25.40922	96.97561	0.00000	0.0	0.0	0.0	0.0
					13.783	25.66986	97.37306	0.00000	0.0	0.0	0.0	0.0
					14.259	25.93050	97.77050	0.00000	0.0	0.0	0.0	0.0
		53	10S-01	10S-01	0.0	60.26430	42.08760	0.00000	0.59562	2.0766	-2.1453	-0.25406
					0.46042	60.08619	41.66303	0.00000	0.53428	1.8627	-1.9244	-0.22790
					0.92083	59.90809	41.23846	0.00000	0.47326	1.6500	-1.7046	-0.20187
					1.3812	59.72998	40.81389	0.00000	0.41250	1.4382	-1.4858	-0.17596
					1.8417	59.55187	40.38931	0.00000	0.37252	1.2988	-1.3418	-0.15890
					2.3021	59.37376	39.96474	0.00000	0.33435	1.1657	-1.2043	-0.14262
					2.7625	59.19566	39.54017	0.00000	0.29636	1.0333	-1.0675	-0.12641
					3.2229	59.01755	39.11560	0.00000	0.25857	0.90148	-0.93132	-0.11029
					3.6833	58.83944	38.69103	0.00000	0.22096	0.77036	-0.79586	-0.094250
					4.1437	58.66134	38.26646	0.00000	0.18354	0.63989	-0.66107	-0.078288
					4.6042	58.48323	37.84189	0.00000	0.14630	0.51008	-0.52696	-0.062406
					5.0646	58.30512	37.41731	0.00000	0.10926	0.38092	-0.39353	-0.046604
					5.5250	58.12701	36.99274	0.00000	0.072399	0.25242	-0.26077	-0.030882
					5.9854	57.94891	36.56817	0.00000	0.035729	0.12457	-0.12869	-0.015240
					6.4458	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0
		54	10S-02	10S-02	0.0	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					0.38404	57.41346	36.28429	0.00000	0.0021292	0.0074234	738.30E-6	-0.0076873
					0.76807	57.05613	36.42498	0.00000	0.0049053	0.017102	0.0017009	-0.017710
					1.1521	56.69879	36.56566	0.00000	0.0075969	0.026408	0.0026057	-0.027355
					1.5361	56.34145	36.70635	0.00000	0.010313	0.034323	0.0029783	-0.035715
					1.9202	55.98411	36.84704	0.00000	0.012571	0.040065	0.0029808	-0.041885
					2.3042	55.62678	36.98772	0.00000	0.014325	0.043730	0.0026907	-0.045938
					2.6882	55.26944	37.12841	0.00000	0.015531	0.045417	0.0021868	-0.047950
					3.0723	54.91210	37.26910	0.00000	0.016143	0.045229	0.0015482	-0.047999
		55	10S-03	10S-03	0.0	54.91210	37.26910	0.00000	0.016143	0.045229	-0.047855	-0.0040266
					0.34208	54.77050	36.95770	0.00000	0.0	0.0	0.0	0.0
					0.68417	54.62890	36.64630	0.00000	0.0	0.0	0.0	0.0
					1.0262	54.48730	36.33490	0.00000	0.0	0.0	0.0	0.0
					1.3683	54.34570	36.02350	0.00000	0.0	0.0	0.0	0.0
					1.7104	54.20410	35.71210	0.00000	0.0	0.0	0.0	0.0
					2.0525	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0
		56	10S-04	10S-04	0.0	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0
					0.33357	54.36875	35.26848	0.00000	0.0	0.0	0.0	0.0
					0.66714	54.67500	35.13627	0.00000	0.0	0.0	0.0	0.0
					1.0007	54.98125	35.00405	0.00000	0.0	0.0	0.0	0.0
					1.3343	55.28750	34.87183	0.00000	0.0	0.0	0.0	0.0
					1.6679	55.59375	34.73962	0.00000	0.0	0.0	0.0	0.0
					2.0014	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0
		57	10S-05	10S-05	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0
					0.46683	55.71496	34.17881	0.00000	0.0	0.0	0.0	0.0
					0.93366	55.52993	33.75021	0.00000	0.0	0.0	0.0	0.0
					1.4005	55.34489	33.32162	0.00000	0.0	0.0	0.0	0.0
					1.8673	55.15986	32.89303	0.00000	0.0	0.0	0.0	0.0
					2.3341	54.97482	32.46444	0.00000	0.0	0.0	0.0	0.0
					2.8010	54.78979	32.03584	0.00000	0.0	0.0	0.0	0.0
					3.2678	54.60475	31.60725	0.00000	0.0	0.0	0.0	0.0
					3.7346	54.41971	31.17866	0.00000	0.0	0.0	0.0	0.0
					4.2015	54.23468	30.75006	0.00000	0.0	0.0	0.0	0.0
					4.6683	54.04964	30.32147	0.00000	0.0	0.0	0.0	0.0
					5.1351	53.86461	29.89288	0.00000	0.0	0.0	0.0	0.0
					5.6020	53.67957	29.46429	0.00000	0.0	0.0	0.0	0.0
					6.0688	53.49454	29.03569	0.00000	0.0	0.0	0.0	0.0
					6.5356	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0
		58	10S-06	10S-06	0.0	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0
					0.44988	52.88902	28.76706	0.00000	0.0	0.0	0.0	0.0
					0.89976	52.46854	28.92701	0.00000	0.0	0.0	0.0	0.0
					1.3496	52.04806	29.08697	0.00000	0.0	0.0	0.0	0.0
					1.7995	51.62758	29.24692	0.00000	0.0	0.0	0.0	0.0
					2.2494	51.20709	29.40688	0.00000	0.0	0.0	0.0	0.0
					2.6993	50.78661	29.56684	0.00000	0.0	0.0	0.0	0.0
					3.1491	50.36613	29.72679	0.00000	0.0	0.0	0.0	0.0
					3.5990	49.94565	29.88675	0.00000	0.0	0.0	0.0	0.0
					4.0489	49.52517	30.04671	0.00000	0.0	0.0	0.0	0.0
					4.4988	49.10469	30.20666	0.00000	0.0	0.0	0.0	0.0
					4.9487	48.68421	30.36662	0.00000	0.0	0.0	0.0	0.0
					5.3985	48.26373	30.52658	0.00000	0.0	0.0	0.0	0.0
					5.8484	47.84324	30.68653	0.00000	0.0	0.0	0.0	0.0
					6.2983	47.42276	30.84649	0.00000	0.0	0.0	0.0	0.0
					6.7482	47.00228	31.00644	0.00000	0.0	0.0	0.0	0.0
					7.1981	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0
		59	10S-07	10S-07	0.0	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0
					0.47216	46.77181	31.59864	0.00000	0.0	0.0	0.0	0.0
					0.94432	46.96181	32.03089	0.00000	0.0	0.0	0.0	0.0
					1.4165	47.15182	32.46313	0.00000	0.0	0.0	0.0	0.0
					1.8886	47.34183	32.89538	0.00000	0.0	0.0	0.0	0.0
					2.3608	47.53183	33.32762	0.00000	0.0	0.0	0.0	0.0
					2.8330	47.72184	33.75986	0.00000	0.0	0.0	0.0	0.0
					3.3051	47.91184	34.19211	0.00000	0.0	0.0	0.0	0.0
					3.7773	48.10185	34.62435	0.00000	0.0	0.0	0.0	0.0
					4.2495	48.29186	35.05659	0.00000	0.0	0.0	0.0	0.0
					4.7216	48.48186	35.48884	0.00000	0.0	0.0	0.0	0.0
					5.1938	48.67187	35.92108	0.00000	0.0	0.0	0.0	0.0
					5.6659	48.86187	36.35332	0.00000	0.0	0.0	0.0	0.0
					6.1381	49.05188	36.78557	0.00000	0.0	0.0	0.0	0.0
					6.6103	49.24189	37.21781	0.00000	0.0	0.0	0.0	0.0
					7.0824	49.43189	37.65006	0.00000	0.0	0.0	0.0	0.0
					7.5546	49.62190	38.08230	0.00000	0.0	0.0	0.0	0.0
					8.0268	49.81191	38.51454	0.00000	0.0	0.0	0.0	0.0
					8.4989	50.00191	38.94679	0.00000	0.0	0.0	0.0	0.0
					8.9711	50.19192	39.37903	0.00000	0.0	0.0	0.0	0.0
					9.4432	50.38193	39.81127	0.00000	0.022707	0.035521	0.041656	-0.0064932
					9.9154	50.57193	40.24352	0.00000	0.074565	0.11519	0.13546	-0.021908
					10.388	50.76194	40.67576	0.00000	0.12690	0.19346	0.22817	-0.038318
					10.860	50.95194	41.10801	0.00000	0.17973	0.27022	0.31971	-0.055795
					11.332	51.14195	41.54025	0.00000	0.23312	0.34538	0.40999	-0.074419
					11.804	51.33196	41.97249	0.00000	0.28708	0.41880	0.49892	-0.094277
					12.276	51.52196	42.40474	0.00000	0.34168	0.49036	0.58640	-0.11546
					12.748	51.71197	42.83698	0.00000	0.39696	0.55989	0.67230	-0.13809
					13.221	51.90198	43.26922	0.00000	0.45297	0.62724	0.75650	-0.16226
					13.693	52.09198	43.70147	0.00000	0.50978	0.69223	0.83885	-0.18812
					14.165	52.28199	44.13371	0.00000	0.56746	0.75464	0.91920	-0.21580
					14.637	52.47199	44.56596	0.00000	0.64741	0.84015	1.0296	-0.25458
					15.109	52.66200	44.99820	0.00000	0.74914	0.94610	1.1676	-0.30508
		60	10S-08	10S-08	0.0	52.66200	44.99820	0.00000	0.74914	0.94610	0.36135	1.1514
					0.45225	53.08435	44.83650	0.00000	0.76217	1.0323	0.34269	1.2366
					0.90449	53.50670	44.67480	0.00000	0.77032	1.1193	0.31920	1.3207
					1.3567	53.92905	44.51310	0.00000	0.77372	1.2065	0.29119	1.4034
					1.8090	54.35140	44.35140	0.00000	0.77253	1.2934	0.25901	1.4841
					2.2612	54.77375	44.18970	0.00000	0.76695	1.3794	0.22305	1.5624
					2.7135	55.19610	44.02800	0.00000	0.75720	1.4638	0.18377	1.6378
					3.1657	55.61845	43.86630	0.00000	0.74352	1.5459	0.14164	1.7096
					3.6180	56.04080	43.70460	0.00000	0.72622	1.6250	0.097178	1.7773
					4.0702	56.46315	43.54290	0.00000	0.70558	1.7004	0.050949	1.8403
					4.5225	56.88550	43.38120	0.00000	0.68196	1.7714	0.0035241	1.8981
					4.9747	57.30785	43.21950	0.00000	0.65570	1.8371	-0.044499	1.9501
					5.4270	57.73020	43.05780	0.00000	0.62716	1.8969	-0.092514	1.9957
					5.8792	58.15255	42.89610	0.00000	0.59674	1.9500	-0.13991	2.0344
					6.3314	58.57490	42.73440	0.00000	0.57141	1.9922	-0.17867	2.0648
					6.7837	58.99725	42.57270	0.00000	0.57766	2.0140	-0.18063	2.0874
					7.2359	59.41960	42.41100	0.00000	0.58378	2.0353	-0.18254	2.1095
					7.6882	59.84195	42.24930	0.00000	0.58976	2.0562	-0.18441	2.1311
					8.1404	60.26430	42.08760	0.00000	0.59562	2.0766	-0.18624	2.1523
		61	10S-09	10S-09	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0
					0.43838	56.30750	34.44578	0.00000	0.0	0.0	0.0	0.0
					0.87676	56.71500	34.28416	0.00000	0.0	0.0	0.0	0.0
					1.3151	57.12250	34.12254	0.00000	0.0	0.0	0.0	0.0
					1.7535	57.53000	33.96092	0.00000	0.0	0.0	0.0	0.0
					2.1919	57.93750	33.79930	0.00000	0.0	0.0	0.0	0.0
					2.6303	58.34500	33.63768	0.00000	0.0	0.0	0.0	0.0
					3.0687	58.75250	33.47606	0.00000	0.0	0.0	0.0	0.0
					3.5070	59.16000	33.31444	0.00000	0.0	0.0	0.0	0.0
					3.9454	59.56750	33.15282	0.00000	0.0	0.0	0.0	0.0
					4.3838	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0
		62	10S-10	10S-10	0.0	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0
					0.46737	59.79820	32.55856	0.00000	0.0	0.0	0.0	0.0
					0.93475	59.62140	32.12591	0.00000	0.0	0.0	0.0	0.0
					1.4021	59.44460	31.69327	0.00000	0.0	0.0	0.0	0.0
					1.8695	59.26780	31.26063	0.00000	0.0	0.0	0.0	0.0
					2.3369	59.09100	30.82799	0.00000	0.0	0.0	0.0	0.0
					2.8042	58.91420	30.39534	0.00000	0.0	0.0	0.0	0.0
					3.2716	58.73740	29.96270	0.00000	0.0	0.0	0.0	0.0
					3.7390	58.56060	29.53006	0.00000	0.0	0.0	0.0	0.0
					4.2064	58.38380	29.09741	0.00000	0.0	0.0	0.0	0.0
					4.6737	58.20700	28.66477	0.00000	0.0	0.0	0.0	0.0
					5.1411	58.03020	28.23213	0.00000	0.0	0.0	0.0	0.0
					5.6085	57.85340	27.79949	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					6.0759	57.67660	27.36684	0.00000	0.0	0.0	0.0	0.0
					6.5432	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0
		63	10S-11	10S-11	0.0	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0
					0.45119	57.08077	27.10149	0.00000	0.0	0.0	0.0	0.0
					0.90238	56.66174	27.26878	0.00000	0.0	0.0	0.0	0.0
					1.3536	56.24271	27.43607	0.00000	0.0	0.0	0.0	0.0
					1.8048	55.82368	27.60336	0.00000	0.0	0.0	0.0	0.0
					2.2559	55.40465	27.77065	0.00000	0.0	0.0	0.0	0.0
					2.7071	54.98562	27.93794	0.00000	0.0	0.0	0.0	0.0
					3.1583	54.56659	28.10523	0.00000	0.0	0.0	0.0	0.0
					3.6095	54.14756	28.27252	0.00000	0.0	0.0	0.0	0.0
					4.0607	53.72853	28.43981	0.00000	0.0	0.0	0.0	0.0
					4.5119	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0
		64	12S-01	12S-01	0.0	56.42810	52.89730	0.00000	3.7909	1.5989	3.2154	2.5668
					0.49308	56.90271	52.76362	0.00000	3.7190	1.8576	3.0761	2.7963
					0.98615	57.37732	52.62994	0.00000	3.6014	2.1529	2.8828	3.0487
					1.4792	57.85193	52.49626	0.00000	3.4320	2.4884	2.6289	3.3257
					1.9723	58.32654	52.36258	0.00000	3.3011	2.9388	2.3807	3.7237
					2.4654	58.80115	52.22890	0.00000	3.1467	3.4618	2.0903	4.1852
					2.9585	59.27576	52.09522	0.00000	2.9461	4.0392	1.7407	4.6866
					3.4515	59.75037	51.96154	0.00000	2.7001	4.6635	1.3346	5.2209
					3.9446	60.22498	51.82786	0.00000	2.4132	5.3210	0.88019	5.7759
					4.4377	60.69959	51.69418	0.00000	2.0940	5.9912	0.39122	6.3346
					4.9308	61.17420	51.56050	0.00000	1.8622	6.4925	0.032250	6.7542
					5.4238	61.64881	51.42682	0.00000	1.8920	6.5965	0.032767	6.8624
					5.9169	62.12342	51.29314	0.00000	1.9219	6.7006	0.033284	6.9707
					6.4100	62.59803	51.15946	0.00000	1.9663	6.8006	0.048955	7.0790
					6.9031	63.07264	51.02578	0.00000	2.1873	6.8508	0.24800	7.1872
					7.3962	63.54725	50.89210	0.00000	2.4062	6.9016	0.44492	7.2955
					7.8892	64.02186	50.75842	0.00000	2.6229	6.9530	0.63964	7.4037
					8.3823	64.49647	50.62474	0.00000	2.8376	7.0051	0.83211	7.5120
					8.8754	64.97108	50.49106	0.00000	3.0500	7.0578	1.0223	7.6204
					9.3685	65.44569	50.35738	0.00000	3.2601	7.1112	1.2100	7.7288
					9.8615	65.92030	50.22370	0.00000	3.4679	7.1654	1.3954	7.8372
					10.355	66.39491	50.09002	0.00000	3.6733	7.2202	1.5782	7.9456
					10.848	66.86952	49.95634	0.00000	3.8761	7.2757	1.7584	8.0541
					11.341	67.34413	49.82266	0.00000	4.0765	7.3320	1.9360	8.1626
					11.834	67.81874	49.68898	0.00000	4.2742	7.3891	2.1108	8.2712
					12.327	68.29335	49.55530	0.00000	4.4467	7.3684	2.2824	8.2980
					12.820	68.76796	49.42162	0.00000	4.5605	7.1538	2.4502	8.1223
					13.313	69.24257	49.28794	0.00000	4.6715	6.9400	2.6150	7.9465
					13.806	69.71718	49.15426	0.00000	4.7795	6.7269	2.7767	7.7707
					14.299	70.19179	49.02058	0.00000	4.8844	6.5146	2.9353	7.5949
					14.792	70.66640	48.88690	0.00000	4.9862	6.3032	3.0905	7.4189
		65	12S-02	12S-02	0.0	70.66640	48.88690	0.00000	4.9862	6.3032	-7.8018	1.9299
					0.47168	70.47116	48.45752	0.00000	4.7728	6.0815	-7.5116	1.8274
					0.94336	70.27592	48.02815	0.00000	4.5622	5.8634	-7.2259	1.7260
					1.4150	70.08067	47.59877	0.00000	4.3543	5.6487	-6.9444	1.6256
					1.8867	69.88543	47.16940	0.00000	4.1491	5.4371	-6.6668	1.5264
					2.3584	69.69019	46.74002	0.00000	3.9466	5.2283	-6.3930	1.4284
					2.8301	69.49495	46.31065	0.00000	3.7466	5.0222	-6.1226	1.3317
					3.3018	69.29971	45.88128	0.00000	3.5491	4.8184	-5.8553	1.2363
					3.7734	69.10447	45.45190	0.00000	3.3540	4.6168	-5.5910	1.1422
					4.2451	68.90922	45.02253	0.00000	3.1613	4.4170	-5.3294	1.0495
					4.7168	68.71398	44.59315	0.00000	2.9710	4.2188	-5.0702	0.95824
					5.1885	68.51874	44.16378	0.00000	2.7829	4.0220	-4.8132	0.86847
					5.6602	68.32350	43.73440	0.00000	2.5970	3.8263	-4.5581	0.78023
		66	12S-03	12S-03	0.0	68.32350	43.73440	0.00000	2.5970	3.8263	-1.2512	-4.4519
					0.27923	68.05865	43.82285	0.00000	2.5480	3.9143	-1.1769	-4.5199
					0.55846	67.79380	43.91130	0.00000	2.4980	4.0028	-1.1015	-4.5879
					0.83769	67.52895	43.99975	0.00000	2.4471	4.0917	-1.0250	-4.6561
					1.1169	67.26410	44.08820	0.00000	2.3951	4.1810	-0.94734	-4.7244
		67	12S-04	12S-04	0.0	67.26410	44.08820	0.00000	2.3951	4.1810	-4.7618	0.73662
					0.43774	67.10714	43.67957	0.00000	2.2285	3.9795	-4.5139	0.65339
					0.87548	66.95018	43.27094	0.00000	2.0636	3.7791	-4.2678	0.57129
					1.3132	66.79322	42.86231	0.00000	1.9003	3.5797	-4.0231	0.49035
					1.7510	66.63626	42.45368	0.00000	1.7386	3.3811	-3.7796	0.41060
					2.1887	66.47930	42.04505	0.00000	1.5783	3.1830	-3.5372	0.33206
					2.6264	66.32234	41.63642	0.00000	1.4195	2.9852	-3.2957	0.25475
					3.0642	66.16538	41.22779	0.00000	1.2622	2.7875	-3.0547	0.17871
					3.5019	66.00842	40.81916	0.00000	1.1061	2.5898	-2.8142	0.10394
					3.9396	65.85146	40.41053	0.00000	0.95137	2.3918	-2.5739	0.030482
					4.3774	65.69450	40.00190	0.00000	0.79785	2.1933	-2.3335	-0.041657
		68	12S-05	12S-05	0.0	65.69450	40.00190	0.00000	0.79785	2.1933	0.046740	-2.3335
					0.49007	65.23740	40.17862	0.00000	0.69885	2.2672	0.16573	-2.3667
					0.98014	64.78030	40.35534	0.00000	0.64952	2.2645	0.21077	-2.3464
					1.4702	64.32320	40.53206	0.00000	0.64494	2.2486	0.20929	-2.3298
					1.9603	63.86610	40.70879	0.00000	0.64020	2.2321	0.20775	-2.3127
					2.4504	63.40900	40.88551	0.00000	0.63531	2.2150	0.20616	-2.2950
					2.9404	62.95190	41.06223	0.00000	0.63025	2.1973	0.20452	-2.2768
					3.4305	62.49480	41.23895	0.00000	0.62503	2.1791	0.20283	-2.2579
					3.9206	62.03770	41.41567	0.00000	0.61965	2.1604	0.20108	-2.2385
					4.4107	61.58060	41.59239	0.00000	0.61411	2.1411	0.19928	-2.2185
					4.9007	61.12350	41.76911	0.00000	0.60841	2.1212	0.19743	-2.1979
					5.3908	60.66640	41.94584	0.00000	0.60255	2.1008	0.19553	-2.1767
					5.8809	60.20930	42.12256	0.00000	0.59653	2.0798	0.19358	-2.1550
					6.3709	59.75220	42.29928	0.00000	0.59034	2.0582	0.19157	-2.1326
					6.8610	59.29510	42.47600	0.00000	0.58400	2.0361	0.18951	-2.1097
					7.3511	58.83800	42.65272	0.00000	0.57750	2.0134	0.18740	-2.0862
					7.8412	58.38090	42.82944	0.00000	0.58252	1.9834	0.17190	-2.0600
					8.3312	57.92380	43.00616	0.00000	0.61673	1.9300	0.12072	-2.0225
					8.8213	57.46670	43.18289	0.00000	0.64895	1.8683	0.068421	-1.9766
					9.3114	57.00960	43.35961	0.00000	0.67868	1.7992	0.015781	-1.9229
					9.8014	56.55250	43.53633	0.00000	0.70546	1.7237	-0.036420	-1.8621
					10.292	56.09540	43.71305	0.00000	0.72892	1.6427	-0.087413	-1.7950
					10.782	55.63830	43.88977	0.00000	0.74833	1.5572	-0.13645	-1.7223
					11.272	55.18120	44.06649	0.00000	0.76359	1.4681	-0.18282	-1.6447
					11.762	54.72410	44.24321	0.00000	0.77423	1.3763	-0.22584	-1.5629
					12.252	54.26700	44.41994	0.00000	0.77993	1.2827	-0.26491	-1.4777
					12.742	53.80990	44.59666	0.00000	0.78042	1.1882	-0.29945	-1.3897
					13.232	53.35280	44.77338	0.00000	0.77545	1.0935	-0.32897	-1.2995
					13.722	52.89570	44.95010	0.00000	0.76483	0.99927	-0.35303	-1.2078
		69	12S-06	12S-06	0.0	52.89570	44.95010	0.00000	0.76483	0.99927	1.2238	-0.29303
					0.48316	53.09194	45.39161	0.00000	0.87030	1.1067	1.3648	-0.34577
					0.96632	53.28819	45.83312	0.00000	0.97830	1.2093	1.5024	-0.40280
					1.4495	53.48443	46.27463	0.00000	1.0892	1.3066	1.6364	-0.46461
					1.9326	53.68068	46.71614	0.00000	1.2034	1.3981	1.7664	-0.53176
					2.4158	53.87692	47.15766	0.00000	1.3213	1.4833	1.8921	-0.60489
					2.8990	54.07317	47.59917	0.00000	1.4434	1.5614	2.0130	-0.68475
					3.3821	54.26941	48.04068	0.00000	1.5702	1.6315	2.1286	-0.77216
					3.8653	54.46566	48.48219	0.00000	1.7023	1.6927	2.2382	-0.86809
					4.3484	54.66190	48.92370	0.00000	1.8405	1.7436	2.3408	-0.97365
					4.8316	54.85814	49.36521	0.00000	1.9854	1.7829	2.4356	-1.0901
					5.3148	55.05439	49.80672	0.00000	2.1379	1.8087	2.5212	-1.2189
					5.7979	55.25063	50.24823	0.00000	2.2989	1.8192	2.5962	-1.3618
					6.2811	55.44688	50.68974	0.00000	2.4809	1.8204	2.6711	-1.5276
					6.7642	55.64312	51.13126	0.00000	2.6999	1.8207	2.7604	-1.7276
					7.2474	55.83937	51.57277	0.00000	2.9378	1.8021	2.8400	-1.9525
					7.7306	56.03561	52.01428	0.00000	3.1970	1.7615	2.9082	-2.2060
					8.2137	56.23186	52.45579	0.00000	3.4804	1.6951	2.9626	-2.4919
					8.6969	56.42810	52.89730	0.00000	3.7909	1.5989	3.0009	-2.8147
		70	14S-01	14S-01	0.0	92.77120	50.75620	0.00000	11.119	-1.2854	11.178	-0.58016
					0.48973	93.25995	50.72525	0.00000	11.306	-1.1601	11.356	-0.44324
					0.97946	93.74870	50.69430	0.00000	11.480	-1.0253	11.522	-0.29772
					1.4692	94.23745	50.66335	0.00000	11.641	-0.88035	11.673	-0.14292
					1.9589	94.72620	50.63240	0.00000	11.786	-0.72442	11.809	0.021913
					2.4486	95.21495	50.60145	0.00000	11.916	-0.55660	11.928	0.19760
					2.9384	95.70370	50.57050	0.00000	12.029	-0.37592	12.029	0.38503
					3.4281	96.19245	50.53955	0.00000	12.122	-0.18128	12.110	0.58519
					3.9178	96.68120	50.50860	0.00000	12.140	0.029700	12.114	0.79685

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					4.4076	97.16995	50.47765	0.00000	12.094	0.25802	12.053	1.0218
					4.8973	97.65870	50.44670	0.00000	12.023	0.50418	11.967	1.2630
					5.3870	98.14745	50.41575	0.00000	11.926	0.76974	11.854	1.5219
					5.8767	98.63620	50.38480	0.00000	11.800	1.0564	11.709	1.8000
		71	14S-02	14S-02	0.0	98.63620	50.38480	0.00000	11.800	1.0564	-1.3480	11.770
					0.49211	98.62403	49.89284	0.00000	11.106	1.3565	-1.6308	11.069
					0.98421	98.61185	49.40089	0.00000	10.649	1.6572	-1.9202	10.605
					1.4763	98.59968	48.90893	0.00000	10.226	1.9320	-2.1844	10.176
					1.9684	98.58751	48.41697	0.00000	9.8149	2.1784	-2.4205	9.7580
					2.4605	98.57533	47.92502	0.00000	9.4149	2.3969	-2.6290	9.3527
					2.9526	98.56316	47.43306	0.00000	9.0264	2.5881	-2.8106	8.9597
					3.4448	98.55099	46.94110	0.00000	8.6495	2.7528	-2.9659	8.5788
					3.9369	98.53881	46.44915	0.00000	8.2839	2.8917	-3.0958	8.2099
					4.4290	98.52664	45.95719	0.00000	7.9295	3.0059	-3.2011	7.8527
					4.9211	98.51447	45.46523	0.00000	7.5859	3.0961	-3.2828	7.5070
					5.4132	98.50229	44.97328	0.00000	7.2529	3.1635	-3.3419	7.1725
					5.9053	98.49012	44.48132	0.00000	6.9302	3.2088	-3.3793	6.8487
					6.3974	98.47795	43.98936	0.00000	6.6173	3.2332	-3.3959	6.5353
					6.8895	98.46577	43.49741	0.00000	6.3140	3.2374	-3.3927	6.2320
					7.3816	98.45360	43.00545	0.00000	6.0199	3.2226	-3.3705	5.9383
					7.8737	98.44143	42.51349	0.00000	5.7345	3.1895	-3.3304	5.6539
					8.3658	98.42925	42.02154	0.00000	5.4576	3.1390	-3.2731	5.3783
					8.8579	98.41708	41.52958	0.00000	5.1887	3.0720	-3.1994	5.1111
					9.3500	98.40491	41.03762	0.00000	4.9275	2.9892	-3.1102	4.8520
					9.8421	98.39273	40.54567	0.00000	4.6736	2.8915	-3.0062	4.6006
					10.334	98.38056	40.05371	0.00000	4.4267	2.7794	-2.8880	4.3566
					10.826	98.36839	39.56175	0.00000	4.1864	2.6537	-2.7565	4.1195
					11.318	98.35621	39.06980	0.00000	3.9524	2.5150	-2.6120	3.8890
					11.811	98.34404	38.57784	0.00000	3.7244	2.3640	-2.4554	3.6648
					12.303	98.33187	38.08588	0.00000	3.5021	2.2011	-2.2871	3.4466
					12.795	98.31969	37.59393	0.00000	3.2853	2.0269	-2.1076	3.2341
					13.287	98.30752	37.10197	0.00000	3.0786	1.8597	-1.9353	3.0317
					13.779	98.29535	36.61001	0.00000	2.8891	1.7243	-1.7952	2.8456
					14.271	98.28317	36.11806	0.00000	2.7045	1.5804	-1.6468	2.6646
					14.763	98.27100	35.62610	0.00000	2.5248	1.4283	-1.4903	2.4887
		72	14S-03	14S-03	0.0	98.27100	35.62610	0.00000	2.5248	1.4283	-2.4321	-1.5809
					0.43680	97.83503	35.65297	0.00000	2.5962	1.2708	-2.5131	-1.4281
					0.87360	97.39906	35.67984	0.00000	2.6623	1.1154	-2.5887	-1.2771
					1.3104	96.96309	35.70671	0.00000	2.7233	0.96236	-2.6589	-1.1281
					1.7472	96.52711	35.73359	0.00000	2.7790	0.81181	-2.7238	-0.98124
					2.1840	96.09114	35.76046	0.00000	2.8295	0.66386	-2.7833	-0.83667
					2.6208	95.65517	35.78733	0.00000	2.8749	0.51861	-2.8376	-0.69449
					3.0576	95.21920	35.81420	0.00000	2.9152	0.37615	-2.8865	-0.55477
					3.4944	94.78323	35.84107	0.00000	2.9503	0.23656	-2.9302	-0.41762
					3.9312	94.34726	35.86794	0.00000	2.9805	0.099922	-2.9687	-0.28309
					4.3680	93.91129	35.89481	0.00000	3.0056	-0.033715	-3.0020	-0.15125
					4.8048	93.47531	35.92169	0.00000	3.0259	-0.16430	-3.0303	-0.022158
					5.2416	93.03934	35.94856	0.00000	3.0413	-0.29180	-3.0535	0.10415
					5.6784	92.60337	35.97543	0.00000	3.0519	-0.41618	-3.0717	0.22764
					6.1152	92.16740	36.00230	0.00000	3.0578	-0.53741	-3.0851	0.34828
		73	14S-04	14S-04	0.0	92.16740	36.00230	0.00000	3.0578	-0.53741	0.84806	2.9866
					0.37863	92.20622	35.62567	0.00000	2.9168	-0.60276	0.89861	2.8396
					0.75726	92.24503	35.24903	0.00000	2.7776	-0.67259	0.95381	2.6940
					1.1359	92.28385	34.87240	0.00000	2.6406	-0.74556	1.0123	2.5503
					1.5145	92.32267	34.49577	0.00000	2.5364	-0.71612	0.97237	2.4496
					1.8931	92.36148	34.11913	0.00000	2.4349	-0.68746	0.93346	2.3515
					2.2718	92.40030	33.74250	0.00000	2.3361	-0.65957	0.89559	2.2562
		74	14S-05	14S-05	0.0	92.40030	33.74250	0.00000	2.3361	-0.65957	-2.2562	0.89562
					0.41939	91.98313	33.69950	0.00000	2.3513	-0.66386	-2.2708	0.90145
					0.83877	91.56595	33.65650	0.00000	2.3624	-0.66700	-2.2816	0.90570
					1.2582	91.14878	33.61350	0.00000	2.3695	-0.66900	-2.2884	0.90842
					1.6775	90.73160	33.57050	0.00000	2.3726	-0.66990	-2.2915	0.90964
					2.0969	90.31442	33.52750	0.00000	2.3720	-0.66970	-2.2908	0.90937
					2.5163	89.89725	33.48450	0.00000	2.3675	-0.66844	-2.2865	0.90765
					2.9357	89.48007	33.44150	0.00000	2.3593	-0.66613	-2.2786	0.90452
					3.3551	89.06290	33.39850	0.00000	2.3475	-0.66279	-2.2672	0.89999
					3.7745	88.64572	33.35550	0.00000	2.3321	-0.65846	-2.2523	0.89410
					4.1939	88.22855	33.31250	0.00000	2.3133	-0.65313	-2.2341	0.88688
					4.6132	87.81137	33.26950	0.00000	2.2910	-0.64685	-2.2126	0.87834
					5.0326	87.39420	33.22650	0.00000	2.2654	-0.63962	-2.1879	0.86852
		75	14S-06	14S-06	0.0	87.39420	33.22650	0.00000	2.2654	-0.63962	-2.0749	1.1118
					0.41438	86.98952	33.13740	0.00000	2.2262	-0.62855	-2.0390	1.0925
					0.82875	86.58483	33.04830	0.00000	2.1946	-0.61963	-2.0100	1.0770
					1.2431	86.18015	32.95920	0.00000	2.1698	-0.61261	-1.9873	1.0648
					1.6575	85.77547	32.87010	0.00000	2.1428	-0.60500	-1.9626	1.0516
					2.0719	85.37078	32.78100	0.00000	2.1138	-0.59681	-1.9360	1.0374
					2.4863	84.96610	32.69190	0.00000	2.0828	-0.58806	-1.9076	1.0221
		76	14S-07	14S-07	0.0	84.96610	32.69190	0.00000	2.0828	-0.58806	-0.81878	-2.0034
					0.45451	84.91494	33.14352	0.00000	2.1666	-0.61173	-0.85174	-2.0840
					0.90902	84.86377	33.59514	0.00000	2.2488	-0.62465	-0.87383	-2.1642
					1.3635	84.81261	34.04676	0.00000	2.3224	-0.60592	-0.86350	-2.2394
					1.8180	84.76144	34.49839	0.00000	2.3969	-0.58867	-0.85475	-2.3154
					2.2726	84.71028	34.95001	0.00000	2.4722	-0.57298	-0.84763	-2.3920
					2.7271	84.65911	35.40163	0.00000	2.5482	-0.55891	-0.84221	-2.4691
					3.1816	84.60795	35.85325	0.00000	2.6377	-0.55016	-0.84359	-2.5590
					3.6361	84.55679	36.30487	0.00000	2.7315	-0.54422	-0.84825	-2.6529
					4.0906	84.50562	36.75649	0.00000	2.8261	-0.54023	-0.85493	-2.7473
					4.5451	84.45446	37.20811	0.00000	2.9214	-0.53828	-0.86372	-2.8422
					4.9996	84.40329	37.65974	0.00000	3.0172	-0.53846	-0.87468	-2.9374
					5.4541	84.35213	38.11136	0.00000	3.1134	-0.54088	-0.88791	-3.0327
					5.9086	84.30096	38.56298	0.00000	3.2099	-0.54565	-0.90352	-3.1280
					6.3631	84.24980	39.01460	0.00000	3.2964	-0.53533	-0.90301	-3.2152
		77	14S-08	14S-08	0.0	84.24980	39.01460	0.00000	3.2964	-0.53533	3.2358	-0.82617
					0.47266	84.72059	39.05661	0.00000	3.3772	-0.61248	3.3094	-0.91019
					0.94533	85.19139	39.09861	0.00000	3.4467	-0.66968	3.3735	-0.97334
					1.4180	85.66218	39.14062	0.00000	3.5147	-0.72440	3.4364	-1.0339
					1.8907	86.13297	39.18263	0.00000	3.5782	-0.77253	3.4954	-1.0875
					2.3633	86.60377	39.22463	0.00000	3.6392	-0.81683	3.5522	-1.1370
					2.8360	87.07456	39.26664	0.00000	3.6989	-0.85926	3.6079	-1.1846
					3.3086	87.54536	39.30864	0.00000	3.7573	-0.89974	3.6625	-1.2301
					3.7813	88.01615	39.35065	0.00000	3.8141	-0.93798	3.7156	-1.2732
					4.2540	88.48694	39.39266	0.00000	3.9037	-0.85457	3.8123	-1.1981
					4.7266	88.95774	39.43466	0.00000	3.9920	-0.76610	3.9081	-1.1178
					5.1993	89.42853	39.47667	0.00000	4.0788	-0.67243	4.0029	-1.0323
					5.6720	89.89933	39.51868	0.00000	4.1638	-0.57339	4.0964	-0.94117
					6.1446	90.37012	39.56068	0.00000	4.2469	-0.46893	4.1884	-0.84440
					6.6173	90.84091	39.60269	0.00000	4.3276	-0.35860	4.2786	-0.74178
					7.0900	91.31171	39.64469	0.00000	4.4058	-0.24253	4.3668	-0.63312
					7.5626	91.78250	39.68670	0.00000	4.4811	-0.12046	4.4526	-0.51822
		78	14S-09	14S-09	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	-0.53008	-4.4512
					0.45206	91.74112	40.13687	0.00000	4.6418	-0.089190	-0.51366	-4.6142
					0.90413	91.69975	40.58703	0.00000	4.8042	-0.066521	-0.50594	-4.7779
					1.3562	91.65838	41.03720	0.00000	4.9680	-0.052546	-0.50702	-4.9424
					1.8083	91.61700	41.48737	0.00000	5.1333	-0.047345	-0.51697	-5.1075
					2.2603	91.57563	41.93753	0.00000	5.3001	-0.050983	-0.53586	-5.2732
					2.7124	91.53425	42.38770	0.00000	5.4683	-0.063508	-0.56372	-5.4395
					3.1644	91.49287	42.83787	0.00000	5.6378	-0.084948	-0.60058	-5.6063
					3.6165	91.45150	43.28803	0.00000	5.8085	-0.11531	-0.64645	-5.7736
					4.0686	91.41012	43.73820	0.00000	5.9806	-0.15458	-0.70130	-5.9413
					4.5206	91.36875	44.18837	0.00000	6.1550	-0.19847	-0.76097	-6.1110
					4.9727	91.32738	44.63853	0.00000	6.3345	-0.23719	-0.81596	-6.2862
					5.4248	91.28600	45.08870	0.00000	6.5147	-0.28607	-0.88112	-6.4612
		79	14S-10	14S-10	0.0	91.28600	45.08870	0.00000	6.5147	-0.28607	6.4861	-0.67392
					0.36863	91.65398	45.11068	0.00000	6.6270	-0.17838	6.6046	-0.57311
					0.73726	92.02195	45.13265	0.00000	6.7375	-0.065489	6.7216	-0.46701
					1.1059	92.38993	45.15463	0.00000	6.8458	0.052771	6.8367	-0.35542
					1.4745	92.75790	45.17660	0.00000	6.9517	0.17659	6.9499	-0.23813
		80	14S-11	14S-11	0.0	92.75790	45.17660	0.00000	6.9517	0.17659	0.19316	-6.9513
					0.46497	92.75901	45.64157	0.00000	7.1759	0.11668	0.13379	-7.1756
					0.92994	92.76012	46.10653	0.00000	7.4035	0.044195	0.061843	-7.4034

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					1.3949	92.76122	46.57150	0.00000	7.6344	-0.040806	-0.022608	-7.6345
					1.8599	92.76233	47.03647	0.00000	7.9850	-0.13745	-0.11842	-7.9853
					2.3248	92.76344	47.50143	0.00000	8.3496	-0.24508	-0.22518	-8.3501
					2.7898	92.76455	47.96640	0.00000	8.7224	-0.36353	-0.34274	-8.7232
					3.2548	92.76566	48.43137	0.00000	9.1032	-0.49257	-0.47087	-9.1043
					3.7197	92.76677	48.89633	0.00000	9.4918	-0.63195	-0.60932	-9.4933
					4.1847	92.76788	49.36130	0.00000	9.8881	-0.78132	-0.75775	-9.8899
					4.6497	92.76898	49.82627	0.00000	10.292	-0.94032	-0.91579	-10.294
					5.1146	92.77009	50.29123	0.00000	10.702	-1.1085	-1.0830	-10.705
					5.5796	92.77120	50.75620	0.00000	11.119	-1.2854	-1.2589	-11.122
		81	14S-12	14S-12	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	0.58540	4.4443
					0.46306	91.83061	39.22615	0.00000	4.3189	-0.15976	0.60763	4.2789
					0.92611	91.87873	38.76560	0.00000	4.1498	-0.20281	0.63289	4.1063
					1.3892	91.92684	38.30505	0.00000	3.9607	-0.24044	0.65066	3.9143
					1.8522	91.97495	37.84450	0.00000	3.7744	-0.28547	0.67609	3.7243
					2.3153	92.02306	37.38395	0.00000	3.5910	-0.33780	0.70908	3.5365
					2.7783	92.07117	36.92340	0.00000	3.4105	-0.39731	0.74951	3.3507
					3.2414	92.11929	36.46285	0.00000	3.2327	-0.46389	0.79727	3.1670
					3.7045	92.16740	36.00230	0.00000	3.0578	-0.53741	0.85222	2.9854
		82	18S-01	18S-01	0.0	81.33400	88.63190	0.00000	6.1698	-2.8620	1.1414	-6.7048
					0.49752	81.61613	89.04169	0.00000	6.2437	-2.7857	1.2462	-6.7224
					0.99503	81.89826	89.45148	0.00000	6.3137	-2.7089	1.3491	-6.7366
					1.4926	82.18038	89.86127	0.00000	6.3758	-2.6348	1.4453	-6.7456
					1.9901	82.46251	90.27106	0.00000	6.4135	-2.5771	1.5142	-6.7440
					2.4876	82.74464	90.68084	0.00000	6.4450	-2.5201	1.5791	-6.7376
					2.9851	83.02677	91.09063	0.00000	6.4704	-2.4635	1.6401	-6.7264
					3.4826	83.30889	91.50042	0.00000	6.4899	-2.4070	1.6977	-6.7104
					3.9801	83.59102	91.91021	0.00000	6.5036	-2.3503	1.7522	-6.6896
					4.4777	83.87315	92.32000	0.00000	6.5118	-2.2932	1.8039	-6.6640
					4.9752	84.15528	92.72979	0.00000	6.5147	-2.2354	1.8531	-6.6336
					5.4727	84.43741	93.13958	0.00000	6.5063	-2.1876	1.8877	-6.5996
					5.9702	84.71953	93.54937	0.00000	6.4640	-2.1903	1.8615	-6.5662
					6.4677	85.00166	93.95916	0.00000	6.4168	-2.1916	1.8336	-6.5281
					6.9652	85.28379	94.36894	0.00000	6.3650	-2.1916	1.8042	-6.4854
					7.4628	85.56592	94.77873	0.00000	6.3086	-2.1903	1.7733	-6.4383
					7.9603	85.84804	95.18852	0.00000	6.2480	-2.1877	1.7411	-6.3869
					8.4578	86.13017	95.59831	0.00000	6.1832	-2.1838	1.7076	-6.3313
					8.9553	86.41230	96.00810	0.00000	6.1145	-2.1786	1.6729	-6.2717
		83	18S-02	18S-02	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	6.3052	1.5421
					0.48923	86.82094	95.73911	0.00000	6.3478	-2.2694	6.5500	1.5945
					0.97846	87.22959	95.47012	0.00000	6.5821	-2.3602	6.7957	1.6475
					1.4677	87.63823	95.20114	0.00000	6.8178	-2.4510	7.0424	1.7012
					1.9569	88.04688	94.93215	0.00000	7.0549	-2.5419	7.2904	1.7557
					2.4461	88.45552	94.66316	0.00000	7.3315	-2.6434	7.5773	1.8230
					2.9354	88.86416	94.39418	0.00000	7.6367	-2.7525	7.8922	1.8997
					3.4246	89.27281	94.12519	0.00000	7.9438	-2.8617	8.2088	1.9774
					3.9138	89.68145	93.85620	0.00000	8.2532	-2.9709	8.5272	2.0562
					4.4031	90.09009	93.58721	0.00000	8.5649	-3.0802	8.8477	2.1364
					4.8923	90.49874	93.31822	0.00000	8.8792	-3.1895	9.1703	2.2178
					5.3815	90.90738	93.04924	0.00000	9.1963	-3.2990	9.4953	2.3007
					5.8707	91.31602	92.78025	0.00000	9.5162	-3.4085	9.8228	2.3851
					6.3600	91.72467	92.51126	0.00000	9.8383	-3.5182	10.152	2.4706
					6.8492	92.13331	92.24228	0.00000	10.164	-3.6280	10.485	2.5580
					7.3384	92.54196	91.97329	0.00000	10.494	-3.7380	10.821	2.6475
					7.8276	92.95060	91.70430	0.00000	10.821	-3.8481	11.155	2.7355
		84	18S-03	18S-03	0.0	92.95060	91.70430	0.00000	10.821	-3.8481	-2.7389	11.154
					0.35410	92.75582	91.40858	0.00000	10.950	-3.8572	-2.8021	11.266
					0.70821	92.56103	91.11287	0.00000	11.067	-3.8651	-2.8600	11.369
					1.0623	92.36625	90.81715	0.00000	11.180	-3.8720	-2.9164	11.467
					1.4164	92.17147	90.52143	0.00000	11.289	-3.8779	-2.9711	11.560
					1.7705	91.97668	90.22572	0.00000	11.392	-3.8826	-3.0239	11.649
					2.1246	91.78190	89.93000	0.00000	11.490	-3.8863	-3.0748	11.733
		85	18S-04	18S-04	0.0	91.78190	89.93000	0.00000	11.490	-3.8863	-11.722	-3.1171
					0.43664	91.41813	90.17150	0.00000	11.159	-3.7861	-11.390	-3.0173
					0.87328	91.05435	90.41300	0.00000	10.832	-3.6862	-11.063	-2.9202
					1.3099	90.69057	90.65450	0.00000	10.511	-3.5864	-10.741	-2.8257
					1.7466	90.32680	90.89600	0.00000	10.195	-3.4868	-10.422	-2.7338
		86	18S-05	18S-05	0.0	90.32680	90.89600	0.00000	10.195	-3.4868	-2.7735	10.412
					0.49179	90.05324	90.48731	0.00000	10.294	-3.4880	-2.8277	10.495
					0.98359	89.77967	90.07863	0.00000	10.384	-3.4873	-2.8780	10.569
					1.4754	89.50611	89.66994	0.00000	10.462	-3.4845	-2.9239	10.632
					1.9672	89.23254	89.26126	0.00000	10.529	-3.4798	-2.9653	10.686
					2.4590	88.95898	88.85257	0.00000	10.585	-3.4731	-3.0018	10.728
					2.9508	88.68541	88.44389	0.00000	10.592	-3.4876	-2.9934	10.742
					3.4426	88.41185	88.03520	0.00000	10.569	-3.5086	-2.9633	10.734
					3.9344	88.13829	87.62651	0.00000	10.531	-3.5258	-2.9281	10.713
					4.4261	87.86472	87.21783	0.00000	10.478	-3.5394	-2.8873	10.676
					4.9179	87.59116	86.80914	0.00000	10.409	-3.5490	-2.8406	10.624
					5.4097	87.31759	86.40046	0.00000	10.322	-3.5545	-2.7877	10.555
					5.9015	87.04403	85.99177	0.00000	10.217	-3.5558	-2.7282	10.468
					6.3933	86.77046	85.58309	0.00000	10.092	-3.5530	-2.6615	10.363
					6.8851	86.49690	85.17440	0.00000	9.9695	-3.5854	-2.5661	10.279
		87	20S-01	20S-01	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	-6.3169	-1.4932
					0.37387	86.09843	96.21123	0.00000	5.9373	-2.1093	-6.1305	-1.4551
					0.74773	85.78457	96.41437	0.00000	5.7605	-2.0399	-5.9444	-1.4173
					1.1216	85.47070	96.61750	0.00000	5.5840	-1.9706	-5.7586	-1.3796
					1.4955	85.15683	96.82063	0.00000	5.4079	-1.9013	-5.5730	-1.3421
					1.8693	84.84297	97.02377	0.00000	5.2320	-1.8319	-5.3877	-1.3048
					2.2432	84.52910	97.22690	0.00000	5.0562	-1.7626	-5.2024	-1.2674
		88	20S-02	20S-02	0.0	84.52910	97.22690	0.00000	5.0562	-1.7626	1.3085	-5.1922
					0.44166	84.77199	97.59577	0.00000	5.0010	-1.7557	1.2840	-5.1424
					0.88331	85.01487	97.96464	0.00000	4.9438	-1.7478	1.2591	-5.0902
					1.3250	85.25776	98.33351	0.00000	4.8826	-1.7389	1.2329	-5.0343
					1.7666	85.50064	98.70239	0.00000	4.8030	-1.7291	1.1973	-4.9624
					2.2083	85.74353	99.07126	0.00000	4.7212	-1.7183	1.1613	-4.8881
					2.6499	85.98641	99.44013	0.00000	4.6374	-1.7065	1.1250	-4.8117
					3.0916	86.22930	99.80900	0.00000	4.5518	-1.6939	1.0885	-4.7332
					3.5332	86.47219	100.17787	0.00000	4.4644	-1.6802	1.0518	-4.6527
					3.9749	86.71507	100.54674	0.00000	4.3753	-1.6656	1.0150	-4.5703
					4.4166	86.95796	100.91561	0.00000	4.2848	-1.6501	0.97823	-4.4862
					4.8582	87.20084	101.28449	0.00000	4.1930	-1.6337	0.94146	-4.4004
					5.2999	87.44373	101.65336	0.00000	4.0999	-1.6163	0.90480	-4.3131
					5.7415	87.68661	102.02223	0.00000	4.0058	-1.5980	0.86832	-4.2244
					6.1832	87.92950	102.39110	0.00000	3.9107	-1.5788	0.83208	-4.1345
		89	20S-03	20S-03	0.0	87.92950	102.39110	0.00000	3.9107	-1.5788	4.1345	0.83206
					0.45803	88.31205	102.13921	0.00000	4.0734	-1.6615	4.3158	0.85246
					0.91605	88.69459	101.88733	0.00000	4.2348	-1.7441	4.4961	0.87219
					1.3741	89.07714	101.63544	0.00000	4.3949	-1.8267	4.6752	0.89123
					1.8321	89.45968	101.38355	0.00000	4.5535	-1.9093	4.8531	0.90955
					2.2901	89.84223	101.13167	0.00000	4.7107	-1.9917	5.0298	0.92712
					2.7482	90.22477	100.87978	0.00000	4.8664	-2.0742	5.2051	0.94391
					3.2062	90.60732	100.62790	0.00000	5.0206	-2.1565	5.3792	0.95989
					3.6642	90.98986	100.37601	0.00000	5.1731	-2.2388	5.5518	0.97504
					4.1222	91.37241	100.12412	0.00000	5.3239	-2.3210	5.7230	0.98931
					4.5803	91.75495	99.87224	0.00000	5.4730	-2.4032	5.8927	1.0027
					5.0383	92.13750	99.62035	0.00000	5.6410	-2.4911	6.0814	1.0216
					5.4963	92.52005	99.36846	0.00000	5.8347	-2.5868	6.2958	1.0483
					5.9543	92.90259	99.11658	0.00000	6.0262	-2.6823	6.5082	1.0758
					6.4124	93.28514	98.86469	0.00000	6.2154	-2.7776	6.7187	1.0982
					6.8704	93.66768	98.61280	0.00000	6.4022	-2.8728	6.9270	1.1214
					7.3284	94.05023	98.36092	0.00000	6.5864	-2.9679	7.1332	1.1434
					7.7864	94.43277	98.10903	0.00000	6.7682	-3.0628	7.3371	1.1640
					8.2445	94.81532	97.85715	0.00000	6.9472	-3.1575	7.5388	1.1834
					8.7025	95.19786	97.60526	0.00000	7.1235	-3.2521	7.7380	1.2014
					9.1605	95.58041	97.35337	0.00000	7.2970	-3.3465	7.9348	1.2179
					9.6185	95.96295	97.10149	0.00000	7.4674	-3.4407	8.1290	1.2329
					10.077	96.34550	96.84960	0.00000	7.6347	-3.5348	8.3205	1.2463
		90	20S-04	20S-04	0.0	96.34550	96.84960	0.00000	7.6347	-3.5348	-1.2463	8.3205
					0.44039	96.10331	96.48179	0.00000	7.8732	-3.5664	-1.3511	8.5370
					0.88078	95.86113	96.11397	0.00000	8.1114	-3.5966	-1.4569	8.7527

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					1.3212	95.61894	95.74616	0.00000	8.3492	-3.6256	-1.5634	8.9671
					1.7616	95.37676	95.37834	0.00000	8.5860	-3.6532	-1.6706	9.1801
					2.2019	95.13457	95.01053	0.00000	8.8216	-3.6795	-1.7782	9.3913
					2.6423	94.89239	94.64271	0.00000	9.0555	-3.7043	-1.8861	9.6004
					3.0827	94.65020	94.27490	0.00000	9.2875	-3.7277	-1.9942	9.8070
					3.5231	94.40801	93.90709	0.00000	9.5172	-3.7497	-2.1021	10.011
					3.9635	94.16583	93.53927	0.00000	9.7442	-3.7702	-2.2098	10.212
					4.4039	93.92364	93.17146	0.00000	9.9681	-3.7891	-2.3171	10.409
					4.8443	93.68146	92.80364	0.00000	10.188	-3.8066	-2.4238	10.603
					5.2847	93.43927	92.43583	0.00000	10.405	-3.8225	-2.5296	10.793
					5.7250	93.19709	92.06801	0.00000	10.618	-3.8368	-2.6345	10.978
					6.1654	92.95490	91.70020	0.00000	10.825	-3.8495	-2.7382	11.158
	91	20S-05	20S-05		0.0	87.93150	102.38980	0.00000	3.9116	-1.5792	0.84650	-4.1325
					0.43506	88.17202	102.75233	0.00000	3.8176	-1.5597	0.81085	-4.0434
					0.87012	88.41253	103.11487	0.00000	3.7230	-1.5392	0.77554	-3.9533
					1.3052	88.65305	103.47740	0.00000	3.6277	-1.5179	0.74064	-3.8621
					1.7402	88.89357	103.83993	0.00000	3.5321	-1.4958	0.70621	-3.7702
					2.1753	89.13408	104.20247	0.00000	3.4360	-1.4728	0.67230	-3.6774
					2.6104	89.37460	104.56500	0.00000	3.3398	-1.4489	0.63897	-3.5841
	92	20S-06	20S-06		0.0	89.37460	104.56500	0.00000	3.3398	-1.4489	3.6145	0.43499
					0.45769	89.76970	104.33398	0.00000	3.4718	-1.5285	3.7686	0.43294
					0.91538	90.16481	104.10295	0.00000	3.6015	-1.6079	3.9207	0.42984
					1.3731	90.55991	103.87193	0.00000	3.7288	-1.6872	4.0706	0.42565
					1.8308	90.95502	103.64091	0.00000	3.8537	-1.7664	4.2183	0.42033
					2.2884	91.35012	103.40989	0.00000	3.9760	-1.8454	4.3638	0.41384
					2.7461	91.74523	103.17886	0.00000	4.0957	-1.9243	4.5069	0.40615
					3.2038	92.14033	102.94784	0.00000	4.2126	-2.0030	4.6476	0.39719
					3.6615	92.53544	102.71682	0.00000	4.3267	-2.0816	4.7858	0.38694
					4.1192	92.93054	102.48580	0.00000	4.4378	-2.1600	4.9213	0.37534
					4.5769	93.32565	102.25477	0.00000	4.5459	-2.2383	5.0541	0.36235
					5.0346	93.72075	102.02375	0.00000	4.6508	-2.3164	5.1841	0.34790
					5.4923	94.11585	101.79273	0.00000	4.7557	-2.3952	5.3144	0.33280
					5.9500	94.51096	101.56170	0.00000	4.8954	-2.4846	5.4802	0.32613
					6.4076	94.90606	101.33068	0.00000	5.0311	-2.5737	5.6423	0.31770
					6.8653	95.30117	101.09966	0.00000	5.1626	-2.6625	5.8005	0.30744
					7.3230	95.69627	100.86864	0.00000	5.2896	-2.7509	5.9549	0.29529
					7.7807	96.09138	100.63761	0.00000	5.4122	-2.8389	6.1051	0.28118
					8.2384	96.48648	100.40659	0.00000	5.5300	-2.9265	6.2510	0.26502
					8.6961	96.88159	100.17557	0.00000	5.6430	-3.0137	6.3926	0.24675
					9.1538	97.27669	99.94455	0.00000	5.7509	-3.1005	6.5296	0.22627
					9.6115	97.67180	99.71352	0.00000	5.8536	-3.1869	6.6618	0.20350
					10.069	98.06690	99.48250	0.00000	5.9508	-3.2729	6.7891	0.17834
	93	20S-07	20S-07		0.0	98.06690	99.48250	0.00000	5.9508	-3.2729	-0.53894	6.7700
					0.39321	97.85066	99.15409	0.00000	6.1567	-3.3085	-0.62248	6.9616
					0.78642	97.63443	98.82568	0.00000	6.3642	-3.3432	-0.70758	7.1540
					1.1796	97.41819	98.49726	0.00000	6.5731	-3.3771	-0.79416	7.3471
					1.5728	97.20195	98.16885	0.00000	6.7832	-3.4101	-0.88213	7.5407
					1.9660	96.98571	97.84044	0.00000	6.9942	-3.4422	-0.97139	7.7346
					2.3593	96.76947	97.51202	0.00000	7.2060	-3.4733	-1.0618	7.9286
					2.7525	96.55324	97.18361	0.00000	7.4183	-3.5035	-1.1534	8.1226
					3.1457	96.33700	96.85520	0.00000	7.6310	-3.5327	-1.2460	8.3162
	94	HT-01	HT-01		0.0	89.37270	104.57010	0.00000	3.3378	-1.4480	-3.6102	-0.45160
					0.28136	89.13047	104.71325	0.00000	3.2552	-1.3989	-3.5141	-0.45183
					0.56273	88.88825	104.85640	0.00000	3.1718	-1.3498	-3.4174	-0.45168
					0.84409	88.64603	104.99955	0.00000	3.0877	-1.3007	-3.3199	-0.45116
					1.1255	88.40380	105.14270	0.00000	3.0027	-1.2515	-3.2218	-0.45028
	95	HT-02	HT-02		0.0	88.40380	105.14270	0.00000	3.0027	-1.2515	0.41376	-3.2267
					0.47611	88.64137	105.55530	0.00000	2.8987	-1.2200	0.38913	-3.1208
					0.95221	88.87894	105.96789	0.00000	2.7951	-1.1876	0.36551	-3.0148
					1.4283	89.11652	106.38049	0.00000	2.6919	-1.1543	0.34294	-2.9088
					1.9044	89.35409	106.79309	0.00000	2.5895	-1.1200	0.32148	-2.8030
					2.3805	89.59166	107.20569	0.00000	2.4878	-1.0849	0.30117	-2.6973
					2.8566	89.82923	107.61828	0.00000	2.3869	-1.0489	0.28206	-2.5919
					3.3327	90.06681	108.03088	0.00000	2.2870	-1.0120	0.26419	-2.4869
					3.8088	90.30438	108.44348	0.00000	2.1882	-0.97426	0.24760	-2.3825
					4.2850	90.54195	108.85608	0.00000	2.0906	-0.93567	0.23233	-2.2786
					4.7611	90.77952	109.26867	0.00000	1.9942	-0.89624	0.21841	-2.1754
					5.2372	91.01709	109.68127	0.00000	1.8992	-0.85599	0.20588	-2.0730
					5.7133	91.25467	110.09387	0.00000	1.8056	-0.81493	0.19477	-1.9714
					6.1894	91.49224	110.50646	0.00000	1.7245	-0.77794	0.18634	-1.8826
					6.6655	91.72981	110.91906	0.00000	1.6469	-0.74083	0.17976	-1.7968
					7.1416	91.96738	111.33166	0.00000	1.5700	-0.70233	0.17475	-1.7110
					7.6177	92.20496	111.74426	0.00000	1.4939	-0.66244	0.17135	-1.6252
					8.0938	92.44253	112.15685	0.00000	1.4186	-0.62117	0.16957	-1.5393
					8.5699	92.68010	112.56945	0.00000	1.3443	-0.57851	0.16943	-1.4536
					9.0460	92.91767	112.98205	0.00000	1.2708	-0.53447	0.17096	-1.3680
					9.5221	93.15524	113.39464	0.00000	1.1984	-0.48906	0.17418	-1.2826
					9.9982	93.39282	113.80724	0.00000	1.1270	-0.44227	0.17909	-1.1974
					10.474	93.63039	114.21984	0.00000	1.0566	-0.39411	0.18571	-1.1124
					10.950	93.86796	114.63244	0.00000	0.98738	-0.34459	0.19407	-1.0276
					11.427	94.10553	115.04503	0.00000	0.91924	-0.29372	0.20415	-0.94319
					11.903	94.34311	115.45763	0.00000	0.85226	-0.24150	0.21599	-0.85908
					12.379	94.58068	115.87023	0.00000	0.78647	-0.22205	0.20001	-0.79237
					12.855	94.81825	116.28283	0.00000	0.72190	-0.20382	0.18359	-0.72730
					13.331	95.05582	116.69542	0.00000	0.65855	-0.18594	0.16748	-0.66349
					13.807	95.29339	117.10802	0.00000	0.59647	-0.16841	0.15169	-0.60094
					14.283	95.53097	117.52062	0.00000	0.53567	-0.15124	0.13623	-0.53968
					14.759	95.76854	117.93321	0.00000	0.47616	-0.13444	0.12109	-0.47973
					15.235	96.00611	118.34581	0.00000	0.41797	-0.11801	0.10629	-0.42110
					15.712	96.24368	118.75841	0.00000	0.36110	-0.10195	0.091832	-0.36381
					16.188	96.48126	119.17101	0.00000	0.30558	-0.086278	0.077713	-0.30787
					16.664	96.71883	119.58360	0.00000	0.25142	-0.070985	0.063938	-0.25330
					17.140	96.95640	119.99620	0.00000	0.19861	-0.056077	0.050510	-0.20010
	96	HT-03	HT-03		0.0	96.95640	119.99620	0.00000	0.19861	-0.056077	0.20008	0.050615
					0.48235	97.37429	119.75529	0.00000	0.26241	-0.074089	0.26434	0.066872
					0.96471	97.79217	119.51438	0.00000	0.32389	-0.091447	0.32627	0.082540
					1.4471	98.21006	119.27347	0.00000	0.38301	-0.10814	0.38583	0.097606
					1.9294	98.62795	119.03256	0.00000	0.43973	-0.12415	0.44296	0.11206
					2.4118	99.04583	118.79165	0.00000	0.49399	-0.13947	0.49763	0.12589
					2.8941	99.46372	118.55075	0.00000	0.54576	-0.15409	0.54978	0.13908
					3.3765	99.88160	118.30984	0.00000	0.59498	-0.16799	0.59936	0.15162
					3.8588	100.29949	118.06893	0.00000	0.64161	-0.22048	0.66598	0.12943
					4.3412	100.71738	117.82802	0.00000	0.68560	-0.30131	0.74445	0.081380
					4.8235	101.13526	117.58711	0.00000	0.72689	-0.38232	0.82069	0.031817
					5.3059	101.55315	117.34620	0.00000	0.76544	-0.46353	0.89464	-0.019280
					5.7883	101.97104	117.10529	0.00000	0.80120	-0.54492	0.96627	-0.071933
					6.2706	102.38892	116.86438	0.00000	0.83410	-0.62649	1.0355	-0.12617
					6.7530	102.80681	116.62347	0.00000	0.86412	-0.70825	1.1024	-0.18201
					7.2353	103.22470	116.38256	0.00000	0.89118	-0.79018	1.1667	-0.23948
					7.7177	103.64258	116.14165	0.00000	0.91524	-0.87229	1.2286	-0.29860
					8.2000	104.06047	115.90075	0.00000	0.93625	-0.95458	1.2879	-0.35940
					8.6824	104.47835	115.65984	0.00000	0.95415	-1.0370	1.3446	-0.42189
					9.1647	104.89624	115.41893	0.00000	0.96889	-1.1197	1.3986	-0.48611
					9.6471	105.31413	115.17802	0.00000	0.98042	-1.2024	1.4499	-0.55207
					10.129	105.73201	114.93711	0.00000	0.98869	-1.2854	1.4985	-0.61979
					10.612	106.14990	114.69620	0.00000	0.99364	-1.3685	1.5443	-0.68929
	97	HT-04	HT-04		0.0	106.14990	114.69620	0.00000	0.99364	-1.3685	0.68739	1.5452
					0.47693	105.91119	114.28331	0.00000	1.0641	-1.4454	0.71874	1.6447
					0.95385	105.67248	113.87042	0.00000	1.1373	-1.5209	0.74740	1.7458
					1.4308	105.43377	113.45753	0.00000	1.2133	-1.5947	0.77331	1.8485
					1.9077	105.19507	113.04464	0.00000	1.2919	-1.6669	0.79645	1.9528
					2.3846	104.95636	112.63176	0.00000	1.3734	-1.7375	0.81676	2.0586
					2.8616	104.71765	112.21887	0.00000	1.4577	-1.8063	0.83420	2.1660
					3.3385	104.47894	111.80598	0.00000	1.5448	-1.8735	0.84875	2.2751
					3.8154	104.24023	111.39309	0.00000	1.6347	-1.9389	0.86036	2.3857
					4.2923	104.00153	110.98020	0.00000	1.7276	-2.0026	0.86900	2.4979
					4.7693	103.76282	110.56731	0.00000	1.8233	-2.0644	0.87463	2.6118
					5.2462	103.52411	110.15442	0.00000	1.9220	-2.1244	0.87721	2.7272
					5.7231	103.28540	109.74153	0.00000	2.0235	-2.1826	0.87672	2.8443
					6.2000	103.04669	109.32864	0.00000	2.1281	-2.2389	0.87313	2.9629

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					6.6770	102.80798	108.91576	0.00000	2.2355	-2.2932	0.86640	3.0831
					7.1539	102.56928	108.50287	0.00000	2.3459	-2.3456	0.85652	3.2050
					7.6308	102.33057	108.08998	0.00000	2.4593	-2.3961	0.84345	3.3283
					8.1078	102.09186	107.67709	0.00000	2.5756	-2.4445	0.82719	3.4533
					8.5847	101.85315	107.26420	0.00000	2.6948	-2.4910	0.80771	3.5797
					9.0616	101.61444	106.85131	0.00000	2.8202	-2.5363	0.78415	3.7110
					9.5385	101.37573	106.43842	0.00000	2.9615	-2.5832	0.75404	3.8568
					10.015	101.13702	106.02553	0.00000	3.1062	-2.6281	0.72054	4.0045
					10.492	100.89832	105.61264	0.00000	3.2542	-2.6711	0.68365	4.1542
					10.969	100.65961	105.19976	0.00000	3.4056	-2.7121	0.64337	4.3058
					11.446	100.42090	104.78687	0.00000	3.5603	-2.7511	0.59972	4.4592
					11.923	100.18219	104.37398	0.00000	3.7182	-2.7881	0.55271	4.6144
					12.400	99.94348	103.96109	0.00000	3.8792	-2.8230	0.50235	4.7713
					12.877	99.70477	103.54820	0.00000	4.0433	-2.8559	0.44868	4.9298
					13.354	99.46607	103.13531	0.00000	4.2103	-2.8866	0.39173	5.0898
					13.831	99.22736	102.72242	0.00000	4.3802	-2.9153	0.33153	5.2512
					14.308	98.98865	102.30953	0.00000	4.5529	-2.9419	0.26814	5.4140
					14.785	98.74994	101.89664	0.00000	4.7281	-2.9664	0.20160	5.5780
					15.262	98.51123	101.48376	0.00000	4.9059	-2.9887	0.13197	5.7431
					15.739	98.27253	101.07087	0.00000	5.0860	-3.0090	0.059328	5.9091
					16.216	98.03382	100.65798	0.00000	5.3140	-3.0548	-0.015094	6.1294
					16.692	97.79511	100.24509	0.00000	5.5532	-3.1042	-0.092066	6.3612
					17.169	97.55640	99.83220	0.00000	5.7958	-3.1525	-0.17169	6.5955
	98	22S-01	22S-01		0.0	111.36030	124.06920	0.00000	0.040412	-0.011410	0.041917	0.0025016
					0.47735	111.81115	123.91236	0.00000	0.044480	-0.012559	0.046137	0.0027535
					0.95470	112.26200	123.75551	0.00000	0.046852	-0.013228	0.048597	0.0029003
					1.4321	112.71285	123.59867	0.00000	0.047553	-0.013426	0.049324	0.0029437
					1.9094	113.16370	123.44183	0.00000	0.046611	-0.013160	0.048347	0.0028853
					2.3868	113.61455	123.28499	0.00000	0.044055	-0.012439	0.045696	0.0027272
					2.8641	114.06540	123.12814	0.00000	0.039918	-0.011270	0.041405	0.0024710
					3.3415	114.51625	122.97130	0.00000	0.034231	-0.0096648	0.035506	0.0021190
					3.8188	114.96710	122.81446	0.00000	0.027031	-0.0076319	0.028038	0.0016733
					4.2962	115.41795	122.65761	0.00000	0.018354	-0.0051822	0.019038	0.0011362
					4.7735	115.86880	122.50077	0.00000	0.0082402	-0.0023265	0.0085471	510.09E-6
					5.2509	116.31965	122.34393	0.00000	0.0	0.0	0.0	0.0
					5.7282	116.77050	122.18709	0.00000	0.0	0.0	0.0	0.0
					6.2056	117.22135	122.03024	0.00000	0.0	0.0	0.0	0.0
					6.6829	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0
	99	22S-02	22S-02		0.0	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0
					0.49713	117.50862	121.40396	0.00000	0.0	0.0	0.0	0.0
					0.99425	117.34504	120.93452	0.00000	8.0710E-6	-0.095302	0.089993	0.031367
					1.4914	117.18146	120.46507	0.00000	19.062E-6	-0.22508	0.21254	0.074082
					1.9885	117.01788	119.99563	0.00000	30.000E-6	-0.35424	0.33450	0.11659
					2.4856	116.85430	119.52619	0.00000	40.884E-6	-0.48276	0.45587	0.15889
					2.9828	116.69073	119.05675	0.00000	51.716E-6	-0.61066	0.57664	0.20099
					3.4799	116.52715	118.58731	0.00000	62.495E-6	-0.73794	0.69682	0.24288
					3.9770	116.36357	118.11787	0.00000	73.220E-6	-0.86458	0.81641	0.28456
					4.4741	116.19999	117.64843	0.00000	83.892E-6	-0.99060	0.93541	0.32604
					4.9713	116.03641	117.17898	0.00000	0.013459	-1.1182	1.0515	0.38066
					5.4684	115.87283	116.70954	0.00000	0.028957	-1.2451	1.1663	0.43706
					5.9655	115.70925	116.24010	0.00000	0.046433	-1.3713	1.2797	0.49508
					6.4626	115.54567	115.77066	0.00000	0.065955	-1.4967	1.3917	0.55478
					6.9598	115.38209	115.30122	0.00000	0.087594	-1.6213	1.5022	0.61622
					7.4569	115.21851	114.83178	0.00000	0.11142	-1.7451	1.6113	0.67945
					7.9540	115.05493	114.36233	0.00000	0.13752	-1.8680	1.7187	0.74453
					8.4511	114.89135	113.89289	0.00000	0.16596	-1.9900	1.8246	0.81154
					8.9483	114.72778	113.42345	0.00000	0.19683	-2.1111	1.9288	0.88054
					9.4454	114.56420	112.95401	0.00000	0.23023	-2.2313	2.0313	0.95161
					9.9425	114.40062	112.48457	0.00000	0.26623	-2.3504	2.1319	1.0248
					10.440	114.23704	112.01513	0.00000	0.30494	-2.4686	2.2307	1.1002
					10.937	114.07346	111.54568	0.00000	0.34646	-2.5856	2.3276	1.1780
					11.434	113.90988	111.07624	0.00000	0.39088	-2.7015	2.4225	1.2581
					11.931	113.74630	110.60680	0.00000	0.43833	-2.8163	2.5153	1.3406
	100	22S-03	22S-03		0.0	113.74630	110.60680	0.00000	0.43833	-2.8163	-1.3402	2.5155
					0.47885	113.29409	110.76428	0.00000	0.50950	-2.7532	-1.3866	2.4325
					0.95770	112.84187	110.92176	0.00000	0.57748	-2.6893	-1.4298	2.3498
					1.4365	112.38966	111.07924	0.00000	0.64223	-2.6249	-1.4698	2.2677
					1.9154	111.93744	111.23671	0.00000	0.70370	-2.5599	-1.5064	2.1861
					2.3942	111.48523	111.39419	0.00000	0.76183	-2.4944	-1.5398	2.1051
					2.8731	111.03301	111.55167	0.00000	0.81658	-2.4284	-1.5698	2.0248
					3.3519	110.58080	111.70915	0.00000	0.86793	-2.3620	-1.5964	1.9452
					3.8308	110.12859	111.86663	0.00000	0.91584	-2.2951	-1.6197	1.8663
					4.3096	109.67637	112.02411	0.00000	0.96029	-2.2279	-1.6396	1.7882
					4.7885	109.22416	112.18159	0.00000	1.0013	-2.1604	-1.6561	1.7109
					5.2673	108.77194	112.33906	0.00000	1.0387	-2.0925	-1.6691	1.6345
					5.7462	108.31973	112.49654	0.00000	1.0727	-2.0244	-1.6788	1.5590
					6.2250	107.86751	112.65402	0.00000	1.1032	-1.9561	-1.6851	1.4845
					6.7039	107.41530	112.81150	0.00000	1.1301	-1.8875	-1.6880	1.4108
	101	22S-04	22S-04		0.0	107.41530	112.81150	0.00000	1.1301	-1.8875	-1.4075	-1.6907
					0.49704	107.57968	113.28057	0.00000	1.0557	-1.7910	-1.3410	-1.5886
					0.99408	107.74405	113.74964	0.00000	0.98440	-1.6931	-1.2722	-1.4889
					1.4911	107.90842	114.21871	0.00000	0.91601	-1.5938	-1.2012	-1.3916
					1.9882	108.07280	114.68778	0.00000	0.85050	-1.4933	-1.1280	-1.2965
					2.4852	108.23718	115.15685	0.00000	0.78779	-1.3915	-1.0527	-1.2037
					2.9822	108.40155	115.62592	0.00000	0.72781	-1.2885	-0.97533	-1.1130
					3.4793	108.56592	116.09500	0.00000	0.67047	-1.1843	-0.89596	-1.0244
					3.9763	108.73030	116.56407	0.00000	0.61572	-1.0790	-0.81464	-0.93791
					4.4733	108.89468	117.03314	0.00000	0.56348	-0.97251	-0.73144	-0.85339
					4.9704	109.05905	117.50221	0.00000	0.51369	-0.86494	-0.64639	-0.77083
					5.4674	109.22342	117.97128	0.00000	0.46628	-0.75632	-0.55956	-0.69016
					5.9645	109.38780	118.44035	0.00000	0.42118	-0.64667	-0.47099	-0.61134
					6.4615	109.55218	118.90942	0.00000	0.37835	-0.53601	-0.38073	-0.53432
					6.9585	109.71655	119.37849	0.00000	0.33771	-0.42438	-0.28882	-0.45905
					7.4556	109.88092	119.84756	0.00000	0.29921	-0.31181	-0.19531	-0.38549
					7.9526	110.04530	120.31663	0.00000	0.26280	-0.19831	-0.10025	-0.31359
					8.4496	110.20968	120.78570	0.00000	0.22841	-0.083923	-0.0036620	-0.24332
					8.9467	110.37405	121.25477	0.00000	0.19602	-0.055343	0.012595	-0.20329
					9.4437	110.53842	121.72385	0.00000	0.16555	-0.046740	0.010637	-0.17169
					9.9408	110.70280	122.19292	0.00000	0.13695	-0.038667	0.0087999	-0.14203
					10.438	110.86718	122.66199	0.00000	0.11019	-0.031111	0.0070802	-0.11428
					10.935	111.03155	123.13106	0.00000	0.085208	-0.024058	0.0054750	-0.088369
					11.432	111.19592	123.60013	0.00000	0.061963	-0.017495	0.0039814	-0.064262
					11.929	111.36030	124.06920	0.00000	0.040412	-0.011410	0.0025967	-0.041911
	102	23K-01	23K-01		0.0	126.87040	106.75440	0.00000	389.31E-6	-4.5970	-1.4957	4.3469
					0.48606	126.41078	106.91251	0.00000	382.79E-6	-4.5200	-1.4707	4.2740
					0.97212	125.95115	107.07062	0.00000	376.32E-6	-4.4436	-1.4458	4.2018
					1.4582	125.49152	107.22872	0.00000	369.90E-6	-4.3677	-1.4211	4.1301
					1.9442	125.03190	107.38683	0.00000	363.53E-6	-4.2925	-1.3966	4.0589
					2.4303	124.57228	107.54494	0.00000	357.20E-6	-4.2179	-1.3724	3.9884
					2.9164	124.11265	107.70305	0.00000	350.93E-6	-4.1438	-1.3483	3.9184
					3.4024	123.65302	107.86116	0.00000	344.71E-6	-4.0704	-1.3244	3.8489
					3.8885	123.19340	108.01927	0.00000	338.54E-6	-3.9975	-1.3007	3.7800
					4.3745	122.73378	108.17738	0.00000	332.42E-6	-3.9253	-1.2771	3.7117
					4.8606	122.27415	108.33548	0.00000	326.35E-6	-3.8536	-1.2538	3.6439
					5.3466	121.81453	108.49359	0.00000	320.33E-6	-3.7825	-1.2307	3.5767
					5.8327	121.35490	108.65170	0.00000	314.37E-6	-3.7120	-1.2078	3.5101
	103	23K-02	23K-02		0.0	121.35490	108.65170	0.00000	314.37E-6	-3.7120	-3.5088	-1.2113
					0.48330	121.51257	109.10856	0.00000	303.66E-6	-3.5856	-3.3893	-1.1700
					0.96659	121.67024	109.56541	0.00000	292.89E-6	-3.4585	-3.2692	-1.1286
					1.4499	121.82791	110.02227	0.00000	282.08E-6	-3.3309	-3.1485	-1.0869
					1.9332	121.98558	110.47912	0.00000	271.22E-6	-3.2026	-3.0273	-1.0451
					2.4165	122.14325	110.93597	0.00000	260.31E-6	-3.0738	-2.9055	-1.0030
					2.8998	122.30092	111.39283	0.00000	249.35E-6	-2.9444	-2.7832	-0.96081
					3.3831	122.45859	111.84969	0.00000	238.35E-6	-2.8144	-2.6603	-0.91838
					3.8664	122.61626	112.30654	0.00000	227.29E-6	-2.6838	-2.5369	-0.87577
					4.3497	122.77393	112.76340	0.00000	216.18E-6	-2.5526	-2.4129	-0.83296
					4.8330	122.93160	113.22025	0.00000	205.02E-6	-2.4209	-2.2883	-0.78997
					5.3163	123.08927	113.67710	0.00000	193.81E-6	-2.2885	-2.1632	-0.74678
					5.7996	123.24694	114.13396	0.00000	182.55E-6	-2.1556	-2.0376	-0.70340
					6.2829	123.40461	114.59081	0.00000	171.24E-6	-2.0220	-1.9113	-0.65982

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					6.7662	123.56228	115.04767	0.00000	159.88E-6	-1.8879	-1.7846	-0.61606
					7.2495	123.71995	115.50453	0.00000	148.48E-6	-1.7532	-1.6572	-0.57210
					7.7328	123.87762	115.96138	0.00000	137.02E-6	-1.6179	-1.5293	-0.52795
					8.2161	124.03529	116.41823	0.00000	125.51E-6	-1.4820	-1.4009	-0.48361
					8.6994	124.19296	116.87509	0.00000	113.95E-6	-1.3455	-1.2719	-0.43908
					9.1826	124.35063	117.33194	0.00000	102.34E-6	-1.2085	-1.1423	-0.39435
					9.6659	124.50830	117.78880	0.00000	90.688E-6	-1.0708	-1.0122	-0.34943
		104	23K-03	23K-03	0.0	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.34414	-1.0140
					0.48785	124.97028	117.63206	0.00000	95.345E-6	-1.1258	0.36181	-1.0661
					0.97570	125.43227	117.47532	0.00000	100.05E-6	-1.1814	0.37967	-1.1187
					1.4635	125.89425	117.31857	0.00000	104.81E-6	-1.2376	0.39772	-1.1719
					1.9514	126.35623	117.16183	0.00000	109.62E-6	-1.2943	0.41596	-1.2257
					2.4392	126.81822	117.00509	0.00000	114.47E-6	-1.3517	0.43440	-1.2800
					2.9271	127.28020	116.84835	0.00000	119.38E-6	-1.4096	0.45302	-1.3349
					3.4149	127.74218	116.69161	0.00000	124.34E-6	-1.4682	0.47183	-1.3903
					3.9028	128.20417	116.53487	0.00000	129.34E-6	-1.5273	0.49083	-1.4463
					4.3906	128.66615	116.37812	0.00000	134.40E-6	-1.5870	0.51002	-1.5028
					4.8785	129.12813	116.22138	0.00000	139.51E-6	-1.6473	0.52941	-1.5599
					5.3663	129.59012	116.06464	0.00000	144.67E-6	-1.7082	0.54898	-1.6176
					5.8542	130.05210	115.90790	0.00000	149.88E-6	-1.7697	0.56874	-1.6758
		105	23K-04	23K-04	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.52054	-1.5006
					0.43187	130.65443	116.32850	0.00000	139.17E-6	-1.6433	0.53856	-1.5526
					0.86374	131.06247	116.18700	0.00000	143.87E-6	-1.6988	0.55674	-1.6050
					1.2956	131.47050	116.04550	0.00000	148.61E-6	-1.7547	0.57507	-1.6578
					1.7275	131.87853	115.90400	0.00000	153.38E-6	-1.8111	0.59355	-1.7111
					2.1594	132.28657	115.76250	0.00000	158.20E-6	-1.8680	0.61219	-1.7649
					2.5912	132.69460	115.62100	0.00000	163.06E-6	-1.9254	0.63099	-1.8190
					3.0231	133.10263	115.47950	0.00000	167.95E-6	-1.9832	0.64994	-1.8737
					3.4550	133.51067	115.33800	0.00000	172.89E-6	-2.0415	0.66904	-1.9287
					3.8868	133.91870	115.19650	0.00000	177.87E-6	-2.1003	0.68830	-1.9843
					4.3187	134.32673	115.05500	0.00000	182.88E-6	-2.1595	0.70772	-2.0402
					4.7506	134.73477	114.91350	0.00000	187.94E-6	-2.2192	0.72729	-2.0966
					5.1825	135.14280	114.77200	0.00000	193.04E-6	-2.2794	0.74701	-2.1535
		106	23K-05	23K-05	0.0	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.68691	-1.9800
					0.46218	135.76587	115.15775	0.00000	182.91E-6	-2.1599	0.70792	-2.0405
					0.92437	136.20253	115.00630	0.00000	188.39E-6	-2.2245	0.72910	-2.1016
					1.3866	136.63920	114.85485	0.00000	193.91E-6	-2.2897	0.75046	-2.1632
					1.8487	137.07587	114.70340	0.00000	199.47E-6	-2.3554	0.77200	-2.2253
					2.3109	137.51253	114.55195	0.00000	205.08E-6	-2.4216	0.79372	-2.2879
					2.7731	137.94920	114.40050	0.00000	210.74E-6	-2.4884	0.81561	-2.3510
					3.2353	138.38587	114.24905	0.00000	216.44E-6	-2.5557	0.83768	-2.4146
					3.6975	138.82253	114.09760	0.00000	222.19E-6	-2.6236	0.85992	-2.4787
					4.1597	139.25920	113.94615	0.00000	227.98E-6	-2.6920	0.88235	-2.5433
					4.6218	139.69587	113.79470	0.00000	233.82E-6	-2.7610	0.90495	-2.6085
					5.0840	140.13253	113.64325	0.00000	239.71E-6	-2.8305	0.92772	-2.6741
					5.5462	140.56920	113.49180	0.00000	245.64E-6	-2.9005	0.95068	-2.7403
		107	23K-06	23K-06	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.88284	-2.5453
					0.44539	141.17871	113.91508	0.00000	233.84E-6	-2.7612	0.90484	-2.6087
					0.89078	141.59952	113.76917	0.00000	238.53E-6	-2.8165	0.92296	-2.6610
					1.3362	142.02033	113.62325	0.00000	243.16E-6	-2.8712	0.94089	-2.7127
					1.7816	142.44113	113.47733	0.00000	247.80E-6	-2.9260	0.95883	-2.7644
					2.2269	142.86194	113.33142	0.00000	252.43E-6	-2.9807	0.97676	-2.8161
					2.6723	143.28275	113.18550	0.00000	257.07E-6	-3.0354	0.99470	-2.8678
					3.1177	143.70356	113.03958	0.00000	261.70E-6	-3.0902	1.0126	-2.9195
					3.5631	144.12437	112.89367	0.00000	266.34E-6	-3.1449	1.0306	-2.9712
					4.0085	144.54518	112.74775	0.00000	270.97E-6	-3.1996	1.0485	-3.0230
					4.4539	144.96598	112.60183	0.00000	275.61E-6	-3.2544	1.0664	-3.0747
					4.8993	145.38679	112.45592	0.00000	280.24E-6	-3.3091	1.0844	-3.1264
					5.3447	145.80760	112.31000	0.00000	284.88E-6	-3.3638	1.1023	-3.1781
		108	23K-07	23K-07	0.0	145.92710	112.67510	0.00000	273.28E-6	-3.2269	1.0553	-3.0495
					0.46129	146.36303	112.52428	0.00000	278.07E-6	-3.2835	1.0738	-3.1029
					0.92257	146.79897	112.37345	0.00000	282.86E-6	-3.3401	1.0924	-3.1564
					1.3839	147.23490	112.22262	0.00000	287.65E-6	-3.3966	1.1109	-3.2098
					1.8451	147.67083	112.07180	0.00000	292.45E-6	-3.4532	1.1294	-3.2633
					2.3064	148.10677	111.92097	0.00000	297.24E-6	-3.5098	1.1479	-3.3168
					2.7677	148.54270	111.77015	0.00000	302.03E-6	-3.5663	1.1664	-3.3702
					3.2290	148.97863	111.61933	0.00000	306.82E-6	-3.6229	1.1849	-3.4237
					3.6903	149.41457	111.46850	0.00000	311.61E-6	-3.6795	1.2034	-3.4772
					4.1516	149.85050	111.31768	0.00000	316.40E-6	-3.7361	1.2219	-3.5306
					4.6129	150.28643	111.16685	0.00000	321.19E-6	-3.7926	1.2404	-3.5841
					5.0742	150.72237	111.01602	0.00000	325.98E-6	-3.8492	1.2589	-3.6375
					5.5354	151.15830	110.86520	0.00000	330.77E-6	-3.9058	1.2774	-3.6910
		109	23K-08	23K-08	0.0	151.15830	110.86520	0.00000	330.77E-6	-3.9058	3.6910	1.2773
					0.49250	150.99728	110.39977	0.00000	345.55E-6	-4.0803	3.8559	1.3344
					0.98500	150.83625	109.93434	0.00000	360.34E-6	-4.2548	4.0209	1.3915
					1.4775	150.67523	109.46891	0.00000	375.12E-6	-4.4294	4.1858	1.4486
					1.9700	150.51420	109.00348	0.00000	389.90E-6	-4.6039	4.3507	1.5056
					2.4625	150.35317	108.53805	0.00000	404.68E-6	-4.7784	4.5157	1.5627
					2.9550	150.19215	108.07262	0.00000	419.46E-6	-4.9530	4.6806	1.6198
					3.4475	150.03113	107.60719	0.00000	434.24E-6	-5.1275	4.8455	1.6769
					3.9400	149.87010	107.14176	0.00000	449.02E-6	-5.3020	5.0105	1.7340
					4.4325	149.70908	106.67633	0.00000	463.80E-6	-5.4766	5.1754	1.7910
					4.9250	149.54805	106.21090	0.00000	478.58E-6	-5.6511	5.3403	1.8481
					5.4175	149.38702	105.74547	0.00000	493.36E-6	-5.8256	5.5053	1.9052
					5.9100	149.22600	105.28004	0.00000	508.14E-6	-6.0001	5.6702	1.9623
					6.4025	149.06498	104.81461	0.00000	522.92E-6	-6.1747	5.8351	2.0193
					6.8950	148.90395	104.34918	0.00000	537.70E-6	-6.3492	6.0001	2.0764
					7.3875	148.74293	103.88375	0.00000	552.48E-6	-6.5237	6.1650	2.1335
					7.8800	148.58190	103.41832	0.00000	567.27E-6	-6.6983	6.3299	2.1906
					8.3725	148.42087	102.95289	0.00000	582.05E-6	-6.8728	6.4949	2.2477
					8.8650	148.25985	102.48746	0.00000	596.83E-6	-7.0473	6.6598	2.3047
					9.3575	148.09883	102.02203	0.00000	611.61E-6	-7.2219	6.8248	2.3618
					9.8500	147.93780	101.55660	0.00000	626.39E-6	-7.3964	6.9897	2.4189
		110	23K-09	23K-09	0.0	147.93780	101.55660	0.00000	626.39E-6	-7.3964	-2.4662	6.9731
					0.46129	147.50289	101.71037	0.00000	621.50E-6	-7.3387	-2.4470	6.9187
					0.92259	147.06798	101.86415	0.00000	616.62E-6	-7.2810	-2.4278	6.8644
					1.3839	146.63308	102.01793	0.00000	611.73E-6	-7.2234	-2.4085	6.8100
					1.8452	146.19817	102.17170	0.00000	606.85E-6	-7.1657	-2.3893	6.7556
					2.3065	145.76326	102.32547	0.00000	601.97E-6	-7.1080	-2.3701	6.7012
					2.7678	145.32835	102.47925	0.00000	597.08E-6	-7.0503	-2.3508	6.6469
					3.2291	144.89344	102.63303	0.00000	592.20E-6	-6.9927	-2.3316	6.5925
					3.6904	144.45853	102.78680	0.00000	587.31E-6	-6.9350	-2.3124	6.5381
					4.1516	144.02362	102.94057	0.00000	582.43E-6	-6.8773	-2.2931	6.4837
					4.6129	143.58872	103.09435	0.00000	577.54E-6	-6.8196	-2.2739	6.4294
					5.0742	143.15381	103.24813	0.00000	572.66E-6	-6.7619	-2.2547	6.3750
					5.5355	142.71890	103.40190	0.00000	567.77E-6	-6.7043	-2.2354	6.3206
		111	23K-10	23K-10	0.0	137.49760	104.66790	0.00000	506.30E-6	-5.9784	1.9608	-5.6477
					0.44540	137.91837	104.52185	0.00000	513.19E-6	-6.0597	1.9875	-5.7245
					0.89080	138.33915	104.37580	0.00000	520.12E-6	-6.1416	2.0144	-5.8019
					1.3362	138.75993	104.22975	0.00000	527.10E-6	-6.2240	2.0414	-5.8797
					1.7816	139.18070	104.08370	0.00000	534.11E-6	-6.3068	2.0686	-5.9579
					2.2270	139.60147	103.93765	0.00000	541.18E-6	-6.3902	2.0959	-6.0367
					2.6724	140.02225	103.79160	0.00000	548.28E-6	-6.4741	2.1234	-6.1159
					3.1178	140.44303	103.64555	0.00000	555.42E-6	-6.5584	2.1511	-6.1956
					3.5632	140.86380	103.49950	0.00000	562.61E-6	-6.6433	2.1789	-6.2758
					4.0086	141.28457	103.35345	0.00000	569.31E-6	-6.7224	2.2049	-6.3505
					4.4540	141.70535	103.20740	0.00000	573.95E-6	-6.7772	2.2228	-6.4023
					4.8994	142.12613	103.06135	0.00000	578.59E-6	-6.8320	2.2408	-6.4540
					5.3448	142.54690	102.91530	0.00000	583.23E-6	-6.8867	2.2588	-6.5058
		112	23K-11	23K-11	0.0	142.54690	102.91530	0.00000	583.23E-6	-6.8867	-6.5073	-2.2544
					0.46948	142.70055	103.35893	0.00000	569.14E-6	-6.7204	-6.3501	-2.1999
					0.93896	142.85419	103.80255	0.00000	555.05E-6	-6.5540	-6.1929	-2.1454
					1.4084	143.00784	104.24618	0.00000	540.96E-6	-6.3877	-6.0357	-2.0910
					1.8779	143.16148	104.68981	0.00000	526.87E-6	-6.2213	-5.8785	-2.0365
					2.3474	143.31513	105.13344	0.00000	512.78E-6	-6.0550	-5.7214	-1.9821
					2.8169	143.46877	105.57706	0.00000	498.70E-6	-5.8886	-5.5642	-1.9276
					3.2864	143.62242	106.02069	0.00000	484.61E-6	-5.7222	-5.4070	-1.8732
					3.7558	143.77606	106.46432	0.00000	470.52E-6	-5.5559	-5.2498	-1.8187
					4.2253	143.92971	106.90795	0.00000	456.43E-6	-5.3895	-5.0926	-1.7642
					4.6948	144.08335	107.35157	0.00000	442.34E-6	-5.2232	-4.9354	-1.7098

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					5.1643	144.23700	107.79520	0.00000	428.25E-6	-5.0568	-4.7782	-1.6553
					5.6338	144.39065	108.23883	0.00000	414.17E-6	-4.8905	-4.6210	-1.6009
					6.1032	144.54429	108.68245	0.00000	400.08E-6	-4.7241	-4.4638	-1.5464
					6.5727	144.69794	109.12608	0.00000	385.99E-6	-4.5578	-4.3066	-1.4920
					7.0422	144.85158	109.56971	0.00000	371.90E-6	-4.3914	-4.1495	-1.4375
					7.5117	145.00523	110.01334	0.00000	357.81E-6	-4.2250	-3.9923	-1.3831
					7.9812	145.15887	110.45696	0.00000	343.72E-6	-4.0587	-3.8351	-1.3286
					8.4507	145.31252	110.90059	0.00000	329.64E-6	-3.8923	-3.6779	-1.2741
					8.9201	145.46616	111.34422	0.00000	315.55E-6	-3.7260	-3.5207	-1.2197
					9.3896	145.61981	111.78785	0.00000	301.46E-6	-3.5596	-3.3635	-1.1652
					9.8591	145.77345	112.23147	0.00000	287.37E-6	-3.3933	-3.2063	-1.1108
					10.329	145.92710	112.67510	0.00000	273.28E-6	-3.2269	-3.0491	-1.0563
	113	23K-12	23K-12		0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	2.5451	0.88360
					0.47283	140.60286	113.61431	0.00000	241.86E-6	-2.8559	2.6980	0.93668
					0.94566	140.44782	113.16762	0.00000	255.52E-6	-3.0172	2.8503	0.98958
					1.4185	140.29278	112.72093	0.00000	269.13E-6	-3.1779	3.0021	1.0423
					1.8913	140.13774	112.27424	0.00000	282.70E-6	-3.3381	3.1534	1.0948
					2.3642	139.98270	111.82755	0.00000	296.21E-6	-3.4977	3.3042	1.1472
					2.8370	139.82765	111.38085	0.00000	309.68E-6	-3.6567	3.4544	1.1993
					3.3098	139.67261	110.93416	0.00000	323.10E-6	-3.8152	3.6041	1.2513
					3.7827	139.51757	110.48747	0.00000	336.47E-6	-3.9730	3.7533	1.3031
					4.2555	139.36253	110.04078	0.00000	349.79E-6	-4.1304	3.9019	1.3547
					4.7283	139.20749	109.59409	0.00000	363.07E-6	-4.2871	4.0500	1.4061
					5.2012	139.05245	109.14740	0.00000	376.30E-6	-4.4433	4.1975	1.4573
					5.6740	138.89741	108.70071	0.00000	389.48E-6	-4.5989	4.3446	1.5084
					6.1468	138.74237	108.25402	0.00000	402.61E-6	-4.7540	4.4910	1.5592
					6.6197	138.58733	107.80733	0.00000	415.69E-6	-4.9085	4.6370	1.6099
					7.0925	138.43229	107.36064	0.00000	428.73E-6	-5.0624	4.7824	1.6604
					7.5653	138.27725	106.91395	0.00000	441.72E-6	-5.2158	4.9273	1.7107
					8.0382	138.12220	106.46725	0.00000	454.66E-6	-5.3686	5.0716	1.7608
					8.5110	137.96716	106.02056	0.00000	467.55E-6	-5.5208	5.2154	1.8107
					8.9838	137.81212	105.57387	0.00000	480.39E-6	-5.6725	5.3587	1.8605
					9.4566	137.65708	105.12718	0.00000	493.19E-6	-5.8236	5.5015	1.9100
					9.9295	137.50204	104.68049	0.00000	505.94E-6	-5.9741	5.6437	1.9594
					10.402	137.34700	104.23380	0.00000	518.64E-6	-6.1241	5.7854	2.0086
	114	23K-13	23K-13		0.0	137.34700	104.23380	0.00000	518.64E-6	-6.1241	-2.0498	5.7709
					0.46085	136.91272	104.38802	0.00000	511.41E-6	-6.0387	-2.0212	5.6904
					0.92170	136.47843	104.54223	0.00000	504.23E-6	-5.9539	-1.9929	5.6105
					1.3826	136.04415	104.69645	0.00000	497.09E-6	-5.8697	-1.9647	5.5311
					1.8434	135.60987	104.85067	0.00000	490.00E-6	-5.7859	-1.9366	5.4522
					2.3043	135.17558	105.00488	0.00000	482.96E-6	-5.7027	-1.9088	5.3738
					2.7651	134.74130	105.15910	0.00000	475.96E-6	-5.6201	-1.8811	5.2959
					3.2260	134.30702	105.31332	0.00000	469.01E-6	-5.5380	-1.8537	5.2186
					3.6868	133.87273	105.46753	0.00000	462.10E-6	-5.4565	-1.8264	5.1418
					4.1477	133.43845	105.62175	0.00000	455.24E-6	-5.3755	-1.7993	5.0654
					4.6085	133.00417	105.77597	0.00000	448.43E-6	-5.2951	-1.7723	4.9896
					5.0694	132.56988	105.93018	0.00000	441.66E-6	-5.2152	-1.7456	4.9143
					5.5302	132.13560	106.08440	0.00000	434.94E-6	-5.1358	-1.7190	4.8396
	115	23K-14	23K-14		0.0	127.09450	107.39930	0.00000	373.10E-6	-4.4056	1.4416	-4.1631
					0.43282	127.50351	107.25771	0.00000	378.89E-6	-4.4740	1.4639	-4.2277
					0.86565	127.91252	107.11612	0.00000	384.72E-6	-4.5428	1.4865	-4.2927
					1.2985	128.32153	106.97452	0.00000	390.59E-6	-4.6121	1.5092	-4.3582
					1.7313	128.73053	106.83293	0.00000	396.50E-6	-4.6819	1.5320	-4.4242
					2.1641	129.13954	106.69134	0.00000	402.45E-6	-4.7521	1.5550	-4.4905
					2.5969	129.54855	106.54975	0.00000	408.44E-6	-4.8229	1.5781	-4.5574
					3.0298	129.95756	106.40816	0.00000	414.47E-6	-4.8941	1.6014	-4.6247
					3.4626	130.36657	106.26657	0.00000	420.54E-6	-4.9658	1.6249	-4.6924
					3.8954	130.77558	106.12497	0.00000	426.65E-6	-5.0379	1.6485	-4.7606
					4.3282	131.18458	105.98338	0.00000	432.80E-6	-5.1105	1.6722	-4.8292
					4.7611	131.59359	105.84179	0.00000	438.99E-6	-5.1836	1.6962	-4.8983
					5.1939	132.00260	105.70020	0.00000	445.22E-6	-5.2572	1.7202	-4.9678
	116	23K-15	23K-15		0.0	132.00260	105.70020	0.00000	445.22E-6	-5.2572	-4.9678	-1.7203
					0.46221	132.15381	106.13697	0.00000	433.53E-6	-5.1192	-4.8373	-1.6751
					0.92441	132.30502	106.57375	0.00000	421.80E-6	-4.9806	-4.7064	-1.6298
					1.3866	132.45623	107.01052	0.00000	410.02E-6	-4.8415	-4.5749	-1.5843
					1.8488	132.60744	107.44729	0.00000	398.19E-6	-4.7018	-4.4430	-1.5386
					2.3110	132.75865	107.88406	0.00000	386.32E-6	-4.5616	-4.3105	-1.4927
					2.7732	132.90985	108.32084	0.00000	374.40E-6	-4.4209	-4.1775	-1.4466
					3.2354	133.06106	108.75761	0.00000	362.43E-6	-4.2796	-4.0440	-1.4004
					3.6976	133.21227	109.19438	0.00000	350.42E-6	-4.1378	-3.9100	-1.3540
					4.1599	133.36348	109.63115	0.00000	338.37E-6	-3.9954	-3.7755	-1.3074
					4.6221	133.51469	110.06793	0.00000	326.27E-6	-3.8525	-3.6404	-1.2607
					5.0843	133.66590	110.50470	0.00000	314.12E-6	-3.7091	-3.5049	-1.2137
					5.5465	133.81711	110.94147	0.00000	301.93E-6	-3.5651	-3.3689	-1.1666
					6.0087	133.96832	111.37825	0.00000	289.69E-6	-3.4206	-3.2323	-1.1193
					6.4709	134.11953	111.81502	0.00000	277.40E-6	-3.2756	-3.0952	-1.0719
					6.9331	134.27074	112.25179	0.00000	265.07E-6	-3.1300	-2.9577	-1.0242
					7.3953	134.42195	112.68856	0.00000	252.70E-6	-2.9839	-2.8196	-0.97640
					7.8575	134.57315	113.12534	0.00000	240.28E-6	-2.8372	-2.6810	-0.92841
					8.3197	134.72436	113.56211	0.00000	227.81E-6	-2.6900	-2.5419	-0.88024
					8.7819	134.87557	113.99888	0.00000	215.30E-6	-2.5422	-2.4023	-0.83189
					9.2441	135.02678	114.43565	0.00000	202.74E-6	-2.3940	-2.2622	-0.78337
					9.7063	135.17799	114.87243	0.00000	190.14E-6	-2.2451	-2.1215	-0.73467
					10.169	135.32920	115.30920	0.00000	177.49E-6	-2.0958	-1.9804	-0.68579
	117	23K-16	23K-16		0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	1.5003	0.52147
					0.46752	130.09295	116.02838	0.00000	146.59E-6	-1.7309	1.6350	0.56828
					0.93504	129.93949	115.58676	0.00000	158.61E-6	-1.8729	1.7691	0.61490
					1.4026	129.78604	115.14515	0.00000	170.59E-6	-2.0144	1.9027	0.66134
					1.8701	129.63258	114.70353	0.00000	182.53E-6	-2.1553	2.0358	0.70761
					2.3376	129.47913	114.26191	0.00000	194.41E-6	-2.2956	2.1684	0.75369
					2.8051	129.32567	113.82029	0.00000	206.25E-6	-2.4354	2.3004	0.79958
					3.2726	129.17222	113.37867	0.00000	218.05E-6	-2.5747	2.4320	0.84530
					3.7402	129.01876	112.93705	0.00000	229.79E-6	-2.7134	2.5630	0.89083
					4.2077	128.86531	112.49544	0.00000	241.49E-6	-2.8515	2.6935	0.93619
					4.6752	128.71185	112.05382	0.00000	253.14E-6	-2.9891	2.8234	0.98136
					5.1427	128.55840	111.61220	0.00000	264.75E-6	-3.1261	2.9529	1.0263
					5.6102	128.40495	111.17058	0.00000	276.31E-6	-3.2626	3.0818	1.0712
					6.0778	128.25149	110.72896	0.00000	287.82E-6	-3.3986	3.2102	1.1158
					6.5453	128.09804	110.28735	0.00000	299.28E-6	-3.5339	3.3380	1.1602
					7.0128	127.94458	109.84573	0.00000	310.70E-6	-3.6687	3.4654	1.2045
					7.4803	127.79113	109.40411	0.00000	322.07E-6	-3.8030	3.5922	1.2486
					7.9478	127.63767	108.96249	0.00000	333.40E-6	-3.9367	3.7185	1.2925
					8.4154	127.48422	108.52087	0.00000	344.67E-6	-4.0699	3.8443	1.3362
					8.8829	127.33076	108.07925	0.00000	355.90E-6	-4.2025	3.9695	1.3797
					9.3504	127.17731	107.63764	0.00000	367.09E-6	-4.3345	4.0943	1.4231
					9.8179	127.02385	107.19602	0.00000	378.22E-6	-4.4660	4.2185	1.4663
					10.285	126.87040	106.75440	0.00000	389.31E-6	-4.5970	4.3422	1.5092
	118	23K-17	23K-17		0.0	150.73130	109.63110	0.00000	369.97E-6	-4.3686	1.4473	-4.1218
					0.45094	151.15679	109.48174	0.00000	374.71E-6	-4.4246	1.4658	-4.1747
					0.90189	151.58228	109.33238	0.00000	379.45E-6	-4.4806	1.4844	-4.2276
					1.3528	152.00777	109.18302	0.00000	384.20E-6	-4.5366	1.5030	-4.2804
					1.8038	152.43326	109.03366	0.00000	388.94E-6	-4.5926	1.5215	-4.3333
					2.2547	152.85875	108.88430	0.00000	393.69E-6	-4.6487	1.5401	-4.3861
					2.7057	153.28424	108.73494	0.00000	398.43E-6	-4.7047	1.5586	-4.4390
					3.1566	153.70973	108.58558	0.00000	403.18E-6	-4.7607	1.5772	-4.4919
					3.6075	154.13522	108.43622	0.00000	407.92E-6	-4.8167	1.5958	-4.5447
					4.0585	154.56071	108.28686	0.00000	412.67E-6	-4.8728	1.6143	-4.5976
					4.5094	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.6329	-4.6504
	119	23K-18	23K-18		0.0	154.98620	108.13750	0.00000	417.41E-6	-4.9288	4.6664	1.5866
					0.44565	154.84277	107.71556	0.00000	430.81E-6	-5.0870	4.8162	1.6376
					0.89130	154.69935	107.29362	0.00000	444.21E-6	-5.2452	4.9660	1.6885
					1.3370	154.55593	106.87168	0.00000	457.61E-6	-5.4034	5.1158	1.7394
					1.7826	154.41250	106.44973	0.00000	471.01E-6	-5.5617	5.2656	1.7904
					2.2283	154.26907	106.02779	0.00000	484.41E-6	-5.7199	5.4154	1.8413
					2.6739	154.12565	105.60585	0.00000	497.81E-6	-5.8781	5.5652	1.8922
					3.1196	153.98222	105.18391	0.00000	511.21E-6	-6.0363	5.7150	1.9432
					3.5652	153.83880	104.76197	0.00000	524.61E-6	-6.1946	5.8648	1.9941
					4.0109	153.69537	104.34002	0.00000	538.01E-6	-6.3528	6.0146	2.0450
					4.4565	153.55195	103.91808	0.00000	551.41E-6	-6.5110	6.1644	2.0960
					4.9022	153.40852	103.49614	0.00000	564.81E-6	-6.6692	6.3142	2.1469

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					5.3478	153.26510	103.07420	0.00000	578.21E-6	-6.8275	6.4640	2.1978
		120	23K-19	23K-19	0.0	153.26510	103.07420	0.00000	578.21E-6	-6.8275	-2.2510	6.4457
					0.45383	152.83663	103.22379	0.00000	573.45E-6	-6.7713	-2.2325	6.3927
					0.90766	152.40816	103.37338	0.00000	568.70E-6	-6.7152	-2.2140	6.3398
					1.3615	151.97969	103.52297	0.00000	563.95E-6	-6.6591	-2.1955	6.2868
					1.8153	151.55122	103.67256	0.00000	559.20E-6	-6.6030	-2.1770	6.2338
					2.2692	151.12275	103.82215	0.00000	554.45E-6	-6.5469	-2.1585	6.1809
					2.7230	150.69428	103.97174	0.00000	549.70E-6	-6.4908	-2.1400	6.1279
					3.1768	150.26581	104.12133	0.00000	544.94E-6	-6.4347	-2.1215	6.0749
					3.6307	149.83734	104.27092	0.00000	540.19E-6	-6.3786	-2.1030	6.0219
					4.0845	149.40887	104.42051	0.00000	535.44E-6	-6.3225	-2.0845	5.9690
					4.5383	148.98040	104.57010	0.00000	530.69E-6	-6.2664	-2.0660	5.9160
		121	23AB-01	23AB-01	0.0	147.70060	95.28400	0.00000	894.39E-6	-10.561	-0.72483	-10.536
					0.40048	148.10013	95.31152	0.00000	893.08E-6	-10.545	-0.72377	-10.521
					0.80095	148.49966	95.33904	0.00000	891.77E-6	-10.530	-0.72271	-10.505
					1.2014	148.89919	95.36656	0.00000	890.46E-6	-10.515	-0.72165	-10.490
					1.6019	149.29872	95.39408	0.00000	889.15E-6	-10.499	-0.72059	-10.474
					2.0024	149.69825	95.42160	0.00000	887.84E-6	-10.484	-0.71953	-10.459
					2.4029	150.09778	95.44912	0.00000	886.54E-6	-10.468	-0.71847	-10.444
					2.8033	150.49731	95.47664	0.00000	885.23E-6	-10.453	-0.71741	-10.428
					3.2038	150.89684	95.50416	0.00000	883.92E-6	-10.437	-0.71635	-10.413
					3.6043	151.29637	95.53168	0.00000	882.62E-6	-10.422	-0.71529	-10.397
					4.0048	151.69590	95.55920	0.00000	881.31E-6	-10.407	-0.71424	-10.382
		122	23AB-02	23AB-02	0.0	151.69590	95.55920	0.00000	881.31E-6	-10.407	-10.373	0.83013
					0.10895	151.68720	95.66780	0.00000	876.15E-6	-10.346	-10.313	0.82527
					0.21790	151.67850	95.77640	0.00000	871.00E-6	-10.285	-10.252	0.82042
		123	23AB-03	23AB-03	0.0	151.67850	95.77640	0.00000	871.00E-6	-10.285	-0.72345	-10.259
					0.47908	152.15639	95.81014	0.00000	869.40E-6	-10.266	-0.72212	-10.240
					0.95816	152.63428	95.84388	0.00000	867.80E-6	-10.247	-0.72080	-10.222
					1.4372	153.11217	95.87762	0.00000	866.20E-6	-10.228	-0.71947	-10.203
					1.9163	153.59006	95.91136	0.00000	864.61E-6	-10.209	-0.71814	-10.184
					2.3954	154.06795	95.94510	0.00000	863.01E-6	-10.190	-0.71682	-10.165
					2.8745	154.54584	95.97884	0.00000	861.41E-6	-10.172	-0.71549	-10.146
					3.3536	155.02373	96.01258	0.00000	859.82E-6	-10.153	-0.71417	-10.128
					3.8326	155.50162	96.04632	0.00000	858.22E-6	-10.134	-0.71284	-10.109
					4.3117	155.97951	96.08006	0.00000	856.63E-6	-10.115	-0.71152	-10.090
					4.7908	156.45740	96.11380	0.00000	855.03E-6	-10.096	-0.71019	-10.071
		124	23AB-04	23AB-04	0.0	156.45740	96.11380	0.00000	855.03E-6	-10.096	10.071	-0.71014
					0.46049	156.48983	95.65445	0.00000	876.80E-6	-10.353	10.328	-0.72822
					0.92099	156.52226	95.19510	0.00000	898.66E-6	-10.611	10.585	-0.74637
					1.3815	156.55469	94.73575	0.00000	920.60E-6	-10.870	10.844	-0.76459
					1.8420	156.58711	94.27640	0.00000	942.65E-6	-11.131	11.103	-0.78290
					2.3025	156.61954	93.81705	0.00000	964.80E-6	-11.392	11.364	-0.80131
					2.7630	156.65197	93.35770	0.00000	987.08E-6	-11.655	11.627	-0.81981
					3.2235	156.68440	92.89835	0.00000	0.0010095	-11.920	11.891	-0.83842
					3.6839	156.71683	92.43900	0.00000	0.0010320	-12.186	12.156	-0.85715
					4.1444	156.74926	91.97965	0.00000	0.0010547	-12.454	12.423	-0.87599
					4.6049	156.78169	91.52030	0.00000	0.0010776	-12.724	12.693	-0.89497
					5.0654	156.81411	91.06095	0.00000	0.0011006	-12.996	12.964	-0.91409
					5.5259	156.84654	90.60160	0.00000	0.0011238	-13.270	13.237	-0.93335
					5.9864	156.87897	90.14225	0.00000	0.0011472	-13.546	13.512	-0.95277
					6.4469	156.91140	89.68290	0.00000	0.0011707	-13.824	13.790	-0.97235
		125	23AB-05	23AB-05	0.0	156.91140	89.68290	0.00000	0.0011707	-13.824	-0.94491	-13.792
					0.25352	157.16432	89.70025	0.00000	0.0011699	-13.814	-0.94419	-13.781
					0.50704	157.41725	89.71760	0.00000	0.0011690	-13.803	-0.94347	-13.771
					0.76056	157.67018	89.73495	0.00000	0.0011681	-13.793	-0.94275	-13.760
					1.0141	157.92310	89.75230	0.00000	0.0011672	-13.782	-0.94203	-13.750
		126	23AB-06	23AB-06	0.0	157.92310	89.75230	0.00000	0.0011672	-13.782	13.737	-1.1073
					0.45735	157.95989	89.29643	0.00000	0.0011907	-14.060	14.015	-1.1297
					0.91471	157.99667	88.84056	0.00000	0.0012145	-14.341	14.295	-1.1523
					1.3721	158.03346	88.38469	0.00000	0.0012385	-14.624	14.577	-1.1750
					1.8294	158.07024	87.92881	0.00000	0.0012627	-14.910	14.862	-1.1980
					2.2868	158.10703	87.47294	0.00000	0.0012872	-15.199	15.150	-1.2212
					2.7441	158.14381	87.01707	0.00000	0.0013119	-15.491	15.441	-1.2446
					3.2015	158.18060	86.56120	0.00000	0.0013368	-15.785	15.734	-1.2683
					3.6588	158.21739	86.10533	0.00000	0.0013621	-16.083	16.031	-1.2922
					4.1162	158.25417	85.64946	0.00000	0.0013875	-16.384	16.331	-1.3164
					4.5735	158.29096	85.19359	0.00000	0.0014133	-16.688	16.634	-1.3409
					5.0309	158.32774	84.73771	0.00000	0.0014394	-16.996	16.941	-1.3656
					5.4882	158.36453	84.28184	0.00000	0.0014657	-17.307	17.251	-1.3906
					5.9456	158.40131	83.82597	0.00000	0.0014924	-17.622	17.565	-1.4159
					6.4029	158.43810	83.37010	0.00000	0.0015194	-17.941	17.883	-1.4415
		127	23AB-07	23AB-07	0.0	158.43810	83.37010	0.00000	0.0015194	-17.941	1.4412	17.883
					0.41980	158.01966	83.33634	0.00000	0.0015214	-17.965	1.4431	17.907
					0.83960	157.60122	83.30258	0.00000	0.0015234	-17.988	1.4450	17.930
					1.2594	157.18277	83.26882	0.00000	0.0015254	-18.012	1.4469	17.954
					1.6792	156.76433	83.23507	0.00000	0.0015274	-18.036	1.4488	17.978
					2.0990	156.34589	83.20131	0.00000	0.0015295	-18.060	1.4508	18.001
					2.5188	155.92745	83.16755	0.00000	0.0015315	-18.084	1.4527	18.025
					2.9386	155.50901	83.13379	0.00000	0.0015335	-18.107	1.4546	18.049
					3.3584	155.09057	83.10003	0.00000	0.0015355	-18.131	1.4565	18.073
					3.7782	154.67212	83.06628	0.00000	0.0015375	-18.155	1.4584	18.097
					4.1980	154.25368	83.03252	0.00000	0.0015396	-18.179	1.4603	18.120
					4.6178	153.83524	82.99876	0.00000	0.0015416	-18.203	1.4623	18.144
					5.0376	153.41680	82.96500	0.00000	0.0015436	-18.227	1.4642	18.168
		128	23AB-08	23AB-08	0.0	153.41680	82.96500	0.00000	0.0015436	-18.227	-18.168	1.4618
					0.14075	153.40550	83.10530	0.00000	0.0015352	-18.128	-18.069	1.4538
					0.28151	153.39420	83.24560	0.00000	0.0015268	-18.028	-17.970	1.4458
		129	23AB-09	23AB-09	0.0	153.39420	83.24560	0.00000	0.0015268	-18.028	1.1178	17.994
					0.46923	152.92588	83.21647	0.00000	0.0015285	-18.049	1.1191	18.014
					0.93846	152.45755	83.18733	0.00000	0.0015303	-18.069	1.1204	18.035
					1.4077	151.98923	83.15820	0.00000	0.0015320	-18.090	1.1216	18.055
					1.8769	151.52090	83.12907	0.00000	0.0015338	-18.111	1.1229	18.076
					2.3462	151.05258	83.09993	0.00000	0.0015355	-18.131	1.1242	18.096
					2.8154	150.58425	83.07080	0.00000	0.0015372	-18.152	1.1255	18.117
					3.2846	150.11593	83.04167	0.00000	0.0015390	-18.172	1.1267	18.137
					3.7538	149.64760	83.01253	0.00000	0.0015407	-18.193	1.1280	18.158
					4.2231	149.17928	82.98340	0.00000	0.0015425	-18.214	1.1293	18.179
					4.6923	148.71095	82.95427	0.00000	0.0015442	-18.234	1.1306	18.199
					5.1615	148.24263	82.92513	0.00000	0.0015460	-18.255	1.1319	18.220
					5.6308	147.77430	82.89600	0.00000	0.0015478	-18.276	1.1332	18.241
		130	23AB-10	23AB-10	0.0	147.77430	82.89600	0.00000	0.0015478	-18.276	-18.219	1.4351
					0.38164	147.74430	83.27646	0.00000	0.0015249	-18.006	-17.951	1.4139
					0.76329	147.71430	83.65693	0.00000	0.0015023	-17.739	-17.685	1.3930
					1.1449	147.68430	84.03739	0.00000	0.0014799	-17.475	-17.421	1.3722
					1.5266	147.65430	84.41785	0.00000	0.0014578	-17.214	-17.160	1.3517
					1.9082	147.62430	84.79831	0.00000	0.0014358	-16.954	-16.902	1.3313
					2.2899	147.59430	85.17878	0.00000	0.0014141	-16.698	-16.646	1.3112
					2.6715	147.56430	85.55924	0.00000	0.0013926	-16.444	-16.393	1.2912
					3.0531	147.53430	85.93970	0.00000	0.0013712	-16.192	-16.142	1.2714
		131	23AB-11	23AB-11	0.0	147.53430	85.93970	0.00000	0.0013712	-16.192	-1.1061	-16.154
					0.46163	147.99485	85.97128	0.00000	0.0013695	-16.171	-1.1047	-16.133
					0.92326	148.45540	86.00285	0.00000	0.0013677	-16.150	-1.1033	-16.112
					1.3849	148.91595	86.03442	0.00000	0.0013660	-16.129	-1.1019	-16.092
					1.8465	149.37650	86.06600	0.00000	0.0013642	-16.109	-1.1004	-16.071
		132	23AB-12	23AB-12	0.0	149.37650	86.06600	0.00000	0.0013642	-16.109	-16.071	1.1004
					0.47810	149.34380	86.54298	0.00000	0.0013378	-15.797	-15.760	1.0791
					0.95621	149.31110	87.01997	0.00000	0.0013117	-15.488	-15.452	1.0580
					1.4343	149.27840	87.49695	0.00000	0.0012859	-15.183	-15.148	1.0372
					1.9124	149.24570	87.97393	0.00000	0.0012603	-14.881	-14.847	1.0166
					2.3905	149.21300	88.45092	0.00000	0.0012350	-14.583	-14.549	0.99615
					2.8686	149.18030	88.92790	0.00000	0.0012099	-14.287	-14.253	0.97593
		133	23AB-13	23AB-13	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	1.2452	14.232
					0.25818	148.92310	88.90537	0.00000	0.0012111	-14.301	1.2464	14.246
					0.51637	148.66590	88.88285	0.00000	0.0012123	-14.314	1.2476	14.260
					0.77455	148.40870	88.86033	0.00000	0.0012134	-14.328	1.2489	14.274
					1.0327	148.15150	88.83780	0.00000	0.0012146	-14.342	1.2501	14.288
		134	23AB-14	23AB-14	0.0	148.15150	88.83780	0.00000	0.0012146	-14.342	-14.307	0.99956
					0.46157	148.11929	89.29824	0.00000	0.0011906	-14.059	-14.025	0.97980
					0.92314	148.08709	89.75869	0.00000	0.0011668	-13.778	-13.744	0.96021

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]
					1.3847	148.05488	90.21913	0.00000	0.0011432	-13.499	-13.466	0.94079
					1.8463	148.02267	90.67957	0.00000	0.0011198	-13.223	-13.191	0.92153
					2.3078	147.99046	91.14001	0.00000	0.0010966	-12.949	-12.917	0.90243
					2.7694	147.95826	91.60046	0.00000	0.0010735	-12.676	-12.646	0.88346
					3.2310	147.92605	92.06090	0.00000	0.0010507	-12.406	-12.376	0.86464
					3.6925	147.89384	92.52134	0.00000	0.0010280	-12.138	-12.109	0.84594
					4.1541	147.86164	92.98179	0.00000	0.0010054	-11.871	-11.843	0.82736
					4.6157	147.82943	93.44223	0.00000	982.94E-6	-11.607	-11.578	0.80890
					5.0772	147.79722	93.90267	0.00000	960.63E-6	-11.343	-11.316	0.79054
					5.5388	147.76501	94.36311	0.00000	938.44E-6	-11.081	-11.054	0.77228
					6.0004	147.73281	94.82356	0.00000	916.37E-6	-10.820	-10.794	0.75411
					6.4620	147.70060	95.28400	0.00000	894.39E-6	-10.561	-10.535	0.73602
		135	23AB-15	23AB-15	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	-1.3892	-14.219
					0.48350	149.66150	88.97496	0.00000	0.0012075	-14.258	-1.3864	-14.190
					0.96699	150.14270	89.02201	0.00000	0.0012050	-14.229	-1.3836	-14.161
					1.4505	150.62390	89.06907	0.00000	0.0012025	-14.200	-1.3808	-14.132
					1.9340	151.10510	89.11612	0.00000	0.0012001	-14.171	-1.3780	-14.104
					2.4175	151.58630	89.16318	0.00000	0.0011976	-14.142	-1.3752	-14.075
					2.9010	152.06750	89.21024	0.00000	0.0011952	-14.113	-1.3724	-14.046
					3.3845	152.54870	89.25729	0.00000	0.0011928	-14.084	-1.3695	-14.017
					3.8680	153.02990	89.30435	0.00000	0.0011903	-14.055	-1.3667	-13.989
					4.3515	153.51110	89.35141	0.00000	0.0011879	-14.026	-1.3639	-13.960
					4.8350	153.99230	89.39846	0.00000	0.0011854	-13.998	-1.3611	-13.931
					5.3184	154.47350	89.44552	0.00000	0.0011830	-13.969	-1.3583	-13.903
					5.8019	154.95470	89.49258	0.00000	0.0011806	-13.940	-1.3556	-13.874
					6.2854	155.43590	89.53963	0.00000	0.0011781	-13.911	-1.3528	-13.846
					6.7689	155.91710	89.58669	0.00000	0.0011757	-13.883	-1.3500	-13.817
					7.2524	156.39830	89.63374	0.00000	0.0011733	-13.854	-1.3472	-13.788
					7.7359	156.87950	89.68080	0.00000	0.0011709	-13.825	-1.3444	-13.760
		136	28K-01	28K-01	0.0	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0
					0.46362	157.45751	132.74754	0.00000	0.0	0.0	0.0	0.0
					0.92724	157.87132	132.53848	0.00000	0.0	0.0	0.0	0.0
					1.3909	158.28512	132.32941	0.00000	0.0	0.0	0.0	0.0
					1.8545	158.69893	132.12035	0.00000	0.0	0.0	0.0	0.0
					2.3181	159.11274	131.91129	0.00000	0.0	0.0	0.0	0.0
					2.7817	159.52655	131.70222	0.00000	0.0	0.0	0.0	0.0
					3.2453	159.94036	131.49316	0.00000	0.0	0.0	0.0	0.0
					3.7090	160.35417	131.28410	0.00000	0.0	0.0	0.0	0.0
					4.1726	160.76798	131.07504	0.00000	0.0	0.0	0.0	0.0
					4.6362	161.18178	130.86597	0.00000	0.0	0.0	0.0	0.0
					5.0998	161.59559	130.65691	0.00000	0.0	0.0	0.0	0.0
					5.5635	162.00940	130.44785	0.00000	0.0	0.0	0.0	0.0
					6.0271	162.42321	130.23879	0.00000	0.0	0.0	0.0	0.0
					6.4907	162.83702	130.02973	0.00000	0.0	0.0	0.0	0.0
					6.9543	163.25082	129.82066	0.00000	0.0	0.0	0.0	0.0
					7.4179	163.66463	129.61160	0.00000	0.0	0.0	0.0	0.0
					7.8816	164.07844	129.40254	0.00000	0.0	0.0	0.0	0.0
					8.3452	164.49225	129.19348	0.00000	0.0	0.0	0.0	0.0
					8.8088	164.90606	128.98441	0.00000	0.0	0.0	0.0	0.0
					9.2724	165.31987	128.77535	0.00000	0.0	0.0	0.0	0.0
					9.7360	165.73368	128.56629	0.00000	0.0	0.0	0.0	0.0
					10.200	166.14748	128.35722	0.00000	0.0	0.0	0.0	0.0
					10.663	166.56129	128.14816	0.00000	0.0	0.0	0.0	0.0
					11.127	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0
		137	28K-02	28K-02	0.0	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0
					0.46979	166.97510	127.46931	0.00000	0.0	0.0	0.0	0.0
					0.93957	166.97510	126.99953	0.00000	0.0	0.0	0.0	0.0
					1.4094	166.97510	126.52974	0.00000	0.0	0.0	0.0	0.0
					1.8791	166.97510	126.05995	0.00000	0.0	0.0	0.0	0.0
					2.3489	166.97510	125.59016	0.00000	0.0	0.0	0.0	0.0
					2.8187	166.97510	125.12037	0.00000	0.0	0.0	0.0	0.0
					3.2885	166.97510	124.65059	0.00000	0.0	0.0	0.0	0.0
					3.7583	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0
		138	28K-03	28K-03	0.0	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0
					0.49736	166.75082	123.73688	0.00000	0.0	0.0	0.0	0.0
					0.99472	166.52654	123.29296	0.00000	0.0	0.0	0.0	0.0
					1.4921	166.30227	122.84903	0.00000	0.0	0.0	0.0	0.0
					1.9894	166.07799	122.40511	0.00000	0.0	0.0	0.0	0.0
					2.4868	165.85371	121.96119	0.00000	0.0	0.0	0.0	0.0
					2.9842	165.62943	121.51727	0.00000	0.0	0.0	0.0	0.0
					3.4815	165.40516	121.07334	0.00000	6.6222E-6	-0.078195	0.069791	0.035267
					3.9789	165.18088	120.62942	0.00000	20.720E-6	-0.24466	0.21836	0.11034
					4.4762	164.95660	120.18550	0.00000	34.817E-6	-0.41112	0.36693	0.18542
					4.9736	164.73232	119.74158	0.00000	48.914E-6	-0.57758	0.51550	0.26050
					5.4710	164.50804	119.29766	0.00000	63.012E-6	-0.74404	0.66407	0.33557
					5.9683	164.28377	118.85373	0.00000	77.109E-6	-0.91050	0.81264	0.41065
					6.4657	164.05949	118.40981	0.00000	91.206E-6	-1.0770	0.96121	0.48572
					6.9630	163.83521	117.96589	0.00000	105.30E-6	-1.2434	1.1098	0.56080
					7.4604	163.61093	117.52197	0.00000	119.40E-6	-1.4099	1.2584	0.63588
					7.9578	163.38666	117.07804	0.00000	133.50E-6	-1.5764	1.4069	0.71095
					8.4551	163.16238	116.63412	0.00000	147.60E-6	-1.7428	1.5555	0.78603
					8.9525	162.93810	116.19020	0.00000	161.69E-6	-1.9093	1.7041	0.86111
		139	28K-04	28K-04	0.0	162.93810	116.19020	0.00000	161.69E-6	-1.9093	-.83319	1.7179
					0.48162	162.50474	116.40034	0.00000	155.02E-6	-1.8305	-0.79880	1.6470
					0.96323	162.07139	116.61048	0.00000	148.34E-6	-1.7516	-0.76441	1.5761
					1.4449	161.63803	116.82061	0.00000	141.67E-6	-1.6728	-0.73001	1.5051
					1.9265	161.20468	117.03075	0.00000	134.99E-6	-1.5940	-0.69562	1.4342
					2.4081	160.77132	117.24089	0.00000	128.32E-6	-1.5152	-0.66122	1.3633
					2.8897	160.33796	117.45103	0.00000	121.65E-6	-1.4364	-0.62683	1.2924
					3.3713	159.90461	117.66116	0.00000	114.97E-6	-1.3576	-0.59244	1.2215
					3.8529	159.47125	117.87130	0.00000	108.30E-6	-1.2788	-0.55804	1.1506
					4.3346	159.03789	118.08144	0.00000	101.62E-6	-1.1999	-0.52365	1.0797
					4.8162	158.60454	118.29158	0.00000	94.947E-6	-1.1211	-0.48925	1.0087
					5.2978	158.17118	118.50171	0.00000	88.272E-6	-1.0423	-0.45486	0.93783
					5.7794	157.73782	118.71185	0.00000	81.598E-6	-0.96351	-0.42047	0.86692
					6.2610	157.30447	118.92199	0.00000	74.923E-6	-0.88469	-0.38607	0.79601
					6.7426	156.87111	119.13213	0.00000	68.248E-6	-0.80588	-0.35168	0.72509
					7.2243	156.43776	119.34226	0.00000	61.574E-6	-0.72706	-0.31728	0.65418
					7.7059	156.00440	119.55240	0.00000	54.899E-6	-0.64825	-0.28289	0.58326
		140	28K-05	28K-05	0.0	156.00440	119.55240	0.00000	54.899E-6	-0.64825	-0.58189	-0.28572
					0.45854	156.20647	119.96402	0.00000	41.827E-6	-0.49390	-0.44334	-0.21769
					0.91709	156.40854	120.37564	0.00000	28.756E-6	-0.33955	-0.30479	-0.14966
					1.3756	156.61061	120.78726	0.00000	15.684E-6	-0.18520	-0.16624	-0.081627
					1.8342	156.81268	121.19888	0.00000	2.6125E-6	-0.030849	-0.027691	-0.013597
					2.2927	157.01474	121.61049	0.00000	0.0	0.0	0.0	0.0
					2.7513	157.21681	122.02211	0.00000	0.0	0.0	0.0	0.0
					3.2098	157.41888	122.43373	0.00000	0.0	0.0	0.0	0.0
					3.6683	157.62095	122.84535	0.00000	0.0	0.0	0.0	0.0
					4.1269	157.82302	123.25697	0.00000	0.0	0.0	0.0	0.0
					4.5854	158.02509	123.66859	0.00000	0.0	0.0	0.0	0.0
					5.0440	158.22716	124.08021	0.00000	0.0	0.0	0.0	0.0
					5.5025	158.42923	124.49183	0.00000	0.0	0.0	0.0	0.0
					5.9611	158.63129	124.90344	0.00000	0.0	0.0	0.0	0.0
					6.4196	158.83336	125.31506	0.00000	0.0	0.0	0.0	0.0
					6.8781	159.03543	125.72668	0.00000	0.0	0.0	0.0	0.0
					7.3367	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0
		141	28K-06	28K-06	0.0	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0
					0.49484	158.79330	126.35637	0.00000	0.0	0.0	0.0	0.0
					0.98968	158.34910	126.57444	0.00000	0.0	0.0	0.0	0.0
					1.4845	157.90490	126.79251	0.00000	0.0	0.0	0.0	0.0
					1.9794	157.46070	127.01058	0.00000	0.0	0.0	0.0	0.0
					2.4742	157.01650	127.22865	0.00000	0.0	0.0	0.0	0.0
					2.9690	156.57230	127.44672	0.00000	0.0	0.0	0.0	0.0
					3.4639	156.12810	127.66479	0.00000	0.0	0.0	0.0	0.0
					3.9587	155.68390	127.88286	0.00000	0.0	0.0	0.0	0.0
					4.4536	155.23970	128.10093	0.00000	0.0	0.0	0.0	0.0
					4.9484	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0
		142	28K-07	28K-07	0.0	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0
					0.42948	154.98285	128.70547	0.00000	0.0	0.0	0.0	0.0
					0.85897	155.17020	129.09193	0.00000	0.0	0.0	0.0	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist.	x	y	z	δx	δy	δH//	δHperp.
					[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
					1.2885	155.35755	129.47840	0.00000	0.0	0.0	0.0	0.0
					1.7179	155.54490	129.86487	0.00000	0.0	0.0	0.0	0.0
					2.1474	155.73225	130.25133	0.00000	0.0	0.0	0.0	0.0
					2.5769	155.91960	130.63780	0.00000	0.0	0.0	0.0	0.0
					3.0064	156.10695	131.02427	0.00000	0.0	0.0	0.0	0.0
					3.4359	156.29430	131.41073	0.00000	0.0	0.0	0.0	0.0
					3.8654	156.48165	131.79720	0.00000	0.0	0.0	0.0	0.0
					4.2948	156.66900	132.18367	0.00000	0.0	0.0	0.0	0.0
					4.7243	156.85635	132.57013	0.00000	0.0	0.0	0.0	0.0
					5.1538	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0

Specific Building Damage Results - Vertical Displacements

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset	Dist.	x	y	z	δz
					[m]	[m]	[m]	[m]	[m]	[mm]
0	Base Model	1	16S-01	16S-01	0.0	0.0	86.49970	85.17730	0.00000	8.3602
						0.42983	86.26439	84.81760	0.00000	8.4655
						0.85967	86.02907	84.45790	0.00000	8.5751
						1.2895	85.79376	84.09820	0.00000	8.6891
						1.7193	85.55844	83.73850	0.00000	8.8075
						2.1492	85.32313	83.37880	0.00000	8.9302
						2.5790	85.08781	83.01910	0.00000	9.0573
						3.0088	84.85250	82.65940	0.00000	9.1884
						3.4387	84.61719	82.29970	0.00000	9.3236
						3.8685	84.38187	81.94000	0.00000	9.4625
						4.2983	84.14656	81.58030	0.00000	9.6048
						4.7282	83.91124	81.22060	0.00000	9.7502
						5.1580	83.67593	80.86090	0.00000	9.8980
						5.5878	83.44061	80.50120	0.00000	10.048
						6.0177	83.20530	80.14150	0.00000	10.159
		2	16S-02	16S-02	0.0	0.0	83.20530	80.14150	0.00000	10.159
						0.47059	82.73566	80.17139	0.00000	10.067
						0.94119	82.26601	80.20129	0.00000	9.9733
						1.4118	81.79637	80.23118	0.00000	9.8758
						1.8824	81.32673	80.26107	0.00000	9.7715
						2.3530	80.85709	80.29096	0.00000	9.6571
						2.8236	80.38744	80.32086	0.00000	9.5294
						3.2942	79.91780	80.35075	0.00000	9.3772
						3.7647	79.44816	80.38064	0.00000	9.2040
						4.2353	78.97851	80.41054	0.00000	9.0073
						4.7059	78.50887	80.44043	0.00000	8.7694
						5.1765	78.03923	80.47032	0.00000	8.4794
						5.6471	77.56959	80.50021	0.00000	8.1159
						6.1177	77.09994	80.53011	0.00000	7.6143
						6.5883	76.63030	80.56000	0.00000	6.6423
		3	16S-03	16S-03	0.0	0.0	76.63030	80.56000	0.00000	6.6423
						0.46710	76.20712	80.75773	0.00000	5.9702
						0.93420	75.78393	80.95547	0.00000	5.7967
						1.4013	75.36075	81.15320	0.00000	5.6301
						1.8684	74.93757	81.35093	0.00000	5.4699
						2.3355	74.51438	81.54867	0.00000	5.3152
						2.8026	74.09120	81.74640	0.00000	5.1652
		4	16S-04	16S-04	0.0	0.0	74.09120	81.74640	0.00000	5.1652
						0.47964	74.36064	82.14321	0.00000	5.1421
						0.95928	74.63009	82.54001	0.00000	5.1179
						1.4389	74.89953	82.93682	0.00000	5.0923
						1.9186	75.16898	83.33362	0.00000	5.0652
						2.3982	75.43842	83.73043	0.00000	5.0360
						2.8778	75.70786	84.12724	0.00000	5.0047
						3.3575	75.97731	84.52404	0.00000	5.2459
						3.8371	76.24675	84.92085	0.00000	5.1978
						4.3168	76.51619	85.31766	0.00000	5.1470
						4.7964	76.78564	85.71446	0.00000	5.0932
						5.2760	77.05508	86.11127	0.00000	5.0349
						5.7557	77.32452	86.50807	0.00000	4.9730
						6.2353	77.59397	86.90488	0.00000	4.9081
						6.7150	77.86341	87.30169	0.00000	4.8683
						7.1946	78.13286	87.69849	0.00000	4.8211
						7.6743	78.40230	88.09530	0.00000	4.7602
		5	16S-05	16S-05	0.0	0.0	78.40230	88.09530	0.00000	4.7602
						0.49531	78.88938	88.18518	0.00000	4.7592
						0.99061	79.37647	88.27507	0.00000	4.7962
						1.4859	79.86355	88.36495	0.00000	4.8798
						1.9812	80.35063	88.45483	0.00000	4.9553
						2.4765	80.83772	88.54472	0.00000	5.0230
						2.9718	81.32480	88.63460	0.00000	5.0829
		6	16S-06	16S-06	0.0	0.0	81.32480	88.63460	0.00000	5.0829
						0.44454	81.69444	88.38765	0.00000	5.2618
						0.88908	82.06407	88.14070	0.00000	5.4434
						1.3336	82.43371	87.89375	0.00000	5.6724
						1.7782	82.80334	87.64680	0.00000	5.9035
						2.2227	83.17298	87.39985	0.00000	6.1363
						2.6672	83.54261	87.15290	0.00000	6.3706
						3.1118	83.91225	86.90595	0.00000	6.6064
						3.5563	84.28189	86.65900	0.00000	6.8503
						4.0009	84.65152	86.41205	0.00000	7.1033
						4.4454	85.02116	86.16510	0.00000	7.3564
						4.8899	85.39079	85.91815	0.00000	7.6081
						5.3345	85.76043	85.67120	0.00000	7.8579
						5.7790	86.13006	85.42425	0.00000	8.1084
						6.2235	86.49970	85.17730	0.00000	8.3602
		7	BS-01	BS-01	0.0	0.0	41.07740	85.19800	0.00000	4.7496
						0.49919	41.54492	85.02303	0.00000	4.9130
						0.99838	42.01244	84.84806	0.00000	5.0703
						1.4976	42.47996	84.67309	0.00000	5.2219
						1.9968	42.94748	84.49812	0.00000	5.3681
						2.4959	43.41500	84.32315	0.00000	5.5098
						2.9951	43.88252	84.14818	0.00000	5.6473
						3.4943	44.35003	83.97322	0.00000	5.7803
						3.9935	44.81755	83.79825	0.00000	5.9270
						4.4927	45.28507	83.62328	0.00000	6.0729
						4.9919	45.75259	83.44831	0.00000	6.2175
						5.4911	46.22011	83.27334	0.00000	6.3605
						5.9903	46.68763	83.09837	0.00000	6.5020
						6.4894	47.15515	82.92340	0.00000	6.6416
						6.9886	47.62267	82.74843	0.00000	6.7794
						7.4878	48.09019	82.57346	0.00000	6.9382
						7.9870	48.55771	82.39849	0.00000	7.1236
						8.4862	49.02523	82.22352	0.00000	7.1103
						8.9854	49.49275	82.04855	0.00000	7.0931
						9.4846	49.96027	81.87358	0.00000	7.0751
						9.9838	50.42778	81.69862	0.00000	7.0593
						10.483	50.89530	81.52365	0.00000	7.0482
						10.982	51.36282	81.34868	0.00000	7.0443
						11.481	51.83034	81.17371	0.00000	7.0495
						11.981	52.29786	80.99874	0.00000	7.0657
						12.480	52.76538	80.82377	0.00000	10.340
						12.979	53.23290	80.64880	0.00000	10.376
		8	BS-02	BS-02	0.0	0.0	53.23290	80.64880	0.00000	10.376
						0.49133	53.06007	80.18887	0.00000	10.132
						0.98267	52.88724	79.72893	0.00000	9.8563
						1.4740	52.71441	79.26900	0.00000	9.5547
						1.9653	52.54158	78.80906	0.00000	9.2334
						2.4567	52.36875	78.34913	0.00000	8.8975
						2.9480	52.19592	77.88920	0.00000	8.5511
						3.4393	52.02309	77.42926	0.00000	8.1981

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						3.9307	51.85025	76.96933	0.00000	7.8415
						4.4220	51.67742	76.50940	0.00000	7.4840
						4.9133	51.50459	76.04946	0.00000	7.1251
						5.4047	51.33176	75.58953	0.00000	6.7670
						5.8960	51.15893	75.12959	0.00000	6.4128
						6.3873	50.98610	74.66966	0.00000	6.0632
						6.8787	50.81327	74.20973	0.00000	5.7183
						7.3700	50.64044	73.74979	0.00000	5.3774
						7.8614	50.46761	73.28986	0.00000	5.0399
						8.3527	50.29478	72.82992	0.00000	4.7052
						8.8440	50.12195	72.36999	0.00000	4.3716
						9.3354	49.94912	71.91006	0.00000	4.0373
						9.8267	49.77629	71.45012	0.00000	3.8086
						10.318	49.60346	70.99019	0.00000	3.6163
						10.809	49.43063	70.53025	0.00000	3.4323
						11.301	49.25780	70.07032	0.00000	3.2569
						11.792	49.08496	69.61039	0.00000	3.0902
						12.283	48.91213	69.15045	0.00000	2.9322
						12.775	48.73930	68.69052	0.00000	2.7825
						13.266	48.56647	68.23059	0.00000	2.6361
						13.757	48.39364	67.77065	0.00000	2.4914
						14.249	48.22081	67.31072	0.00000	2.3477
						14.740	48.04798	66.85078	0.00000	2.2044
						15.231	47.87515	66.39085	0.00000	2.0605
						15.723	47.70232	65.93092	0.00000	1.9192
						16.214	47.52949	65.47098	0.00000	1.7758
						16.705	47.35666	65.01105	0.00000	1.6277
						17.197	47.18383	64.55111	0.00000	1.4734
						17.688	47.01100	64.09118	0.00000	1.3111
						18.179	46.83817	63.63125	0.00000	1.1862
						18.671	46.66534	63.17131	0.00000	1.1357
						19.162	46.49250	62.71138	0.00000	1.0863
						19.653	46.31967	62.25145	0.00000	1.0378
						20.145	46.14684	61.79151	0.00000	0.99027
						20.636	45.97401	61.33158	0.00000	0.94364
						21.127	45.80118	60.87164	0.00000	0.89790
						21.619	45.62835	60.41171	0.00000	0.85299
						22.110	45.45552	59.95178	0.00000	0.80887
						22.601	45.28269	59.49184	0.00000	0.76315
						23.093	45.10986	59.03191	0.00000	0.71490
						23.584	44.93703	58.57197	0.00000	0.66792
						24.075	44.76420	58.11204	0.00000	0.62205
						24.567	44.59137	57.65211	0.00000	0.57715
						25.058	44.41854	57.19217	0.00000	0.53308
						25.549	44.24571	56.73224	0.00000	0.48971
						26.041	44.07288	56.27230	0.00000	0.44692
						26.532	43.90005	55.81237	0.00000	0.40460
						27.023	43.72721	55.35244	0.00000	0.36354
						27.515	43.55438	54.89250	0.00000	0.32060
						28.006	43.38155	54.43257	0.00000	0.27497
						28.497	43.20872	53.97264	0.00000	0.22652
						28.989	43.03589	53.51270	0.00000	0.17508
						29.480	42.86306	53.05277	0.00000	0.12043
						29.971	42.69023	52.59283	0.00000	0.062272
						30.463	42.51740	52.13290	0.00000	0.0
	9	BS-03	BS-03		0.0	0.0	42.51740	52.13290	0.00000	0.0
						0.17272	42.34490	52.12415	0.00000	0.0
						0.34544	42.17240	52.11540	0.00000	0.0
	10	BS-04	BS-04		0.0	0.0	42.17240	52.11540	0.00000	0.0
						0.48678	41.96133	51.67676	0.00000	0.0
						0.97357	41.75025	51.23812	0.00000	0.0
						1.4604	41.53918	50.79948	0.00000	0.0
						1.9471	41.32810	50.36083	0.00000	0.0
						2.4339	41.11702	49.92219	0.00000	0.0
						2.9207	40.90595	49.48355	0.00000	0.0
						3.4075	40.69488	49.04491	0.00000	0.0
						3.8943	40.48380	48.60627	0.00000	0.0
						4.3811	40.27273	48.16763	0.00000	0.0
						4.8678	40.06165	47.72898	0.00000	0.0
						5.3546	39.85057	47.29034	0.00000	0.0
						5.8414	39.63950	46.85170	0.00000	0.0
	11	BS-05	BS-05		0.0	0.0	39.63950	46.85170	0.00000	0.0
						0.41953	39.22713	46.92883	0.00000	0.0
						0.83905	38.81475	47.00595	0.00000	0.0
						1.2586	38.40237	47.08308	0.00000	0.0
						1.6781	37.99000	47.16020	0.00000	0.0
	12	BS-06	BS-06		0.0	0.0	37.99000	47.16020	0.00000	0.0
						0.40368	37.62248	47.32718	0.00000	0.0
						0.80735	37.25495	47.49415	0.00000	0.0
						1.2110	36.88743	47.66112	0.00000	0.0
						1.6147	36.51990	47.82810	0.00000	0.0
	13	BS-07	BS-07		0.0	0.0	36.51990	47.82810	0.00000	0.0
						0.38860	36.26713	48.12325	0.00000	0.0
						0.77720	36.01435	48.41840	0.00000	0.0
						1.1658	35.76158	48.71355	0.00000	0.0
						1.5544	35.50880	49.00870	0.00000	0.0
						1.9430	35.25603	49.30385	0.00000	0.0
						2.3316	35.00325	49.59900	0.00000	0.0
						2.7202	34.75048	49.89415	0.00000	0.0
						3.1088	34.49770	50.18930	0.00000	0.0
	14	BS-08	BS-08		0.0	0.0	34.49770	50.18930	0.00000	0.0
						0.43736	34.10253	50.37673	0.00000	0.0
						0.87473	33.70737	50.56417	0.00000	0.0
						1.3121	33.31220	50.75160	0.00000	0.0
						1.7495	32.91703	50.93903	0.00000	0.0
						2.1868	32.52187	51.12647	0.00000	0.0
						2.6242	32.12670	51.31390	0.00000	0.0
	15	BS-09	BS-09		0.0	0.0	32.12670	51.31390	0.00000	0.0
						0.48956	32.31482	51.76587	0.00000	0.0
						0.97913	32.50295	52.21785	0.00000	0.0
						1.4687	32.69107	52.66983	0.00000	0.0
						1.9583	32.87920	53.12180	0.00000	0.0
	16	BS-10	BS-10		0.0	0.0	32.87920	53.12180	0.00000	0.0
						0.40664	32.49437	53.25320	0.00000	0.0
						0.81328	32.10955	53.38460	0.00000	0.0
						1.2199	31.72472	53.51600	0.00000	0.0
						1.6266	31.33990	53.64740	0.00000	0.0
	17	BS-11	BS-11		0.0	0.0	31.33990	53.64740	0.00000	0.0
						0.25067	31.26590	53.40790	0.00000	0.0
						0.50134	31.19190	53.16840	0.00000	0.0
	18	BS-12	BS-12		0.0	0.0	31.19190	53.16840	0.00000	0.0
						0.39957	30.82340	53.32289	0.00000	0.0
						0.79915	30.45490	53.47737	0.00000	0.0
						1.1987	30.08640	53.63186	0.00000	0.0
						1.5983	29.71790	53.78635	0.00000	0.0
						1.9979	29.34940	53.94084	0.00000	0.0
						2.3974	28.98090	54.09533	0.00000	0.0
						2.7970	28.61240	54.24981	0.00000	0.0
						3.1966	28.24390	54.40430	0.00000	0.0
	19	BS-13	BS-13		0.0	0.0	28.24390	54.40430	0.00000	0.0
						0.44360	28.40681	54.81690	0.00000	0.0
						0.88720	28.56972	55.22950	0.00000	0.0
						1.3308	28.73264	55.64210	0.00000	0.0
						1.7744	28.89555	56.05470	0.00000	0.0
						2.2180	29.05846	56.46730	0.00000	0.0
						2.6616	29.22138	56.87990	0.00000	0.0
						3.1052	29.38429	57.29250	0.00000	0.0
						3.5488	29.54720	57.70510	0.00000	0.0
	20	BS-14	BS-14		0.0	0.0	29.54720	57.70510	0.00000	0.0
						0.41644	29.93258	57.54730	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						0.83288	30.31797	57.38950	0.00000	0.0
						1.2493	30.70335	57.23170	0.00000	0.0
						1.6658	31.08873	57.07390	0.00000	0.0
						2.0822	31.47412	56.91610	0.00000	0.0
						2.4986	31.85950	56.75830	0.00000	0.0
		21	BS-15	BS-15	0.0	0.0	31.85950	56.75830	0.00000	0.0
						0.49971	32.03411	57.22651	0.00000	0.0
						0.99942	32.20873	57.69472	0.00000	0.0
						1.4991	32.38334	58.16294	0.00000	0.0
						1.9988	32.55796	58.63115	0.00000	0.0
						2.4986	32.73257	59.09936	0.00000	0.0
						2.9983	32.90719	59.56757	0.00000	0.0
						3.4980	33.08180	60.03578	0.00000	0.0
						3.9977	33.25642	60.50399	0.00000	0.0
						4.4974	33.43103	60.97221	0.00000	0.0
						4.9971	33.60565	61.44042	0.00000	0.0
						5.4968	33.78026	61.90863	0.00000	0.0
						5.9965	33.95488	62.37684	0.00000	0.0
						6.4963	34.12949	62.84505	0.00000	0.0
						6.9960	34.30411	63.31326	0.00000	0.0
						7.4957	34.47872	63.78148	0.00000	0.0
						7.9954	34.65334	64.24969	0.00000	0.0
						8.4951	34.82795	64.71790	0.00000	0.0
						8.9948	35.00256	65.18611	0.00000	0.0
						9.4945	35.17718	65.65432	0.00000	0.0
						9.9942	35.35179	66.12254	0.00000	0.0
						10.494	35.52641	66.59075	0.00000	0.0
						10.994	35.70102	67.05896	0.00000	0.0
						11.493	35.87564	67.52717	0.00000	0.0
						11.993	36.05025	67.99538	0.00000	0.0
						12.493	36.22487	68.46359	0.00000	0.0
						12.993	36.39948	68.93181	0.00000	0.0
						13.492	36.57410	69.40002	0.00000	0.066601
						13.992	36.74871	69.86823	0.00000	0.18460
						14.492	36.92333	70.33644	0.00000	0.29817
						14.991	37.09794	70.80465	0.00000	0.40960
						15.491	37.27256	71.27286	0.00000	0.52090
						15.991	37.44717	71.74108	0.00000	0.63393
						16.491	37.62179	72.20929	0.00000	0.75030
						16.990	37.79640	72.67750	0.00000	0.87142
		22	BS-16	BS-16	0.0	0.0	37.79640	72.67750	0.00000	0.87142
						0.49570	37.93699	73.15284	0.00000	0.99549
						0.99139	38.07758	73.62818	0.00000	1.1260
						1.4871	38.21817	74.10352	0.00000	1.2635
						1.9828	38.35876	74.57886	0.00000	1.4085
						2.4785	38.49935	75.05420	0.00000	1.5612
						2.9742	38.63994	75.52954	0.00000	1.7216
						3.4699	38.78053	76.00488	0.00000	1.8896
						3.9656	38.92112	76.48022	0.00000	2.0647
						4.4613	39.06171	76.95556	0.00000	2.2463
						4.9570	39.20230	77.43090	0.00000	2.4336
		23	BS-17	BS-17	0.0	0.0	39.20230	77.43090	0.00000	2.4336
						0.40858	38.81835	77.57060	0.00000	2.3778
						0.81715	38.43440	77.71030	0.00000	2.3178
		24	BS-18	BS-18	0.0	0.0	38.43440	77.71030	0.00000	2.3178
						0.49628	38.59959	78.17828	0.00000	2.5034
						0.99256	38.76478	78.64626	0.00000	2.6927
						1.4888	38.92996	79.11424	0.00000	2.8844
						1.9851	39.09515	79.58222	0.00000	3.0771
						2.4814	39.26034	80.05021	0.00000	3.2690
						2.9777	39.42552	80.51819	0.00000	3.4584
						3.4740	39.59071	80.98617	0.00000	3.6434
						3.9702	39.75590	81.45415	0.00000	3.8219
						4.4665	39.92109	81.92213	0.00000	3.9916
						4.9628	40.08628	82.39011	0.00000	4.1504
						5.4591	40.25146	82.85809	0.00000	4.2960
						5.9554	40.41665	83.32608	0.00000	4.4261
						6.4516	40.58184	83.79406	0.00000	4.5384
						6.9479	40.74702	84.26204	0.00000	4.6309
						7.4442	40.91221	84.73002	0.00000	4.7018
						7.9405	41.07740	85.19800	0.00000	4.7496
		25	SB-01	SB-01	0.0	0.0	80.55960	128.61410	0.00000	0.0
						0.28479	80.70318	128.86005	0.00000	0.0
						0.56958	80.84675	129.10600	0.00000	0.0
						0.85437	80.99032	129.35195	0.00000	0.0
						1.1392	81.13390	129.59790	0.00000	0.0
		26	SB-02	SB-02	0.0	0.0	81.13390	129.59790	0.00000	0.0
						0.46930	81.53432	129.35316	0.00000	0.0
						0.93860	81.93475	129.10841	0.00000	0.0
						1.4079	82.33517	128.86366	0.00000	0.0
						1.8772	82.73560	128.61892	0.00000	0.0
						2.3465	83.13602	128.37418	0.00000	0.0
						2.8158	83.53645	128.12943	0.00000	0.0
						3.2851	83.93688	127.88469	0.00000	0.0
						3.7544	84.33730	127.63994	0.00000	0.0
						4.2237	84.73772	127.39520	0.00000	0.0
						4.6930	85.13815	127.15045	0.00000	0.0
						5.1623	85.53857	126.90571	0.00000	0.0
						5.6316	85.93900	126.66096	0.00000	0.0
						6.1009	86.33942	126.41622	0.00000	0.0
						6.5702	86.73985	126.17147	0.00000	0.0
						7.0395	87.14028	125.92673	0.00000	0.0
						7.5088	87.54070	125.68198	0.00000	0.0
						7.9781	87.94112	125.43724	0.00000	0.0
						8.4474	88.34155	125.19249	0.00000	0.0
						8.9167	88.74197	124.94774	0.00000	0.0
						9.3860	89.14240	124.70300	0.00000	0.0
		27	SB-03	SB-03	0.0	0.0	89.14240	124.70300	0.00000	0.0
						0.49874	88.87339	124.28303	0.00000	0.0
						0.99747	88.60438	123.86307	0.00000	0.0
						1.4962	88.33537	123.44310	0.00000	0.0
						1.9949	88.06636	123.02313	0.00000	0.0
						2.4937	87.79735	122.60316	0.00000	0.0
						2.9924	87.52834	122.18320	0.00000	0.0
						3.4912	87.25933	121.76323	0.00000	0.0
						3.9899	86.99032	121.34326	0.00000	0.0
						4.4886	86.72131	120.92329	0.00000	0.0
						4.9874	86.45230	120.50333	0.00000	0.0
						5.4861	86.18329	120.08336	0.00000	0.0
						5.9848	85.91428	119.66339	0.00000	0.0
						6.4836	85.64527	119.24343	0.00000	0.0
						6.9823	85.37626	118.82346	0.00000	0.0
						7.4811	85.10724	118.40349	0.00000	0.0
						7.9798	84.83823	117.98352	0.00000	0.0
						8.4785	84.56922	117.56356	0.00000	0.0
						8.9773	84.30021	117.14359	0.00000	0.0
						9.4760	84.03120	116.72362	0.00000	0.0
						9.9747	83.76219	116.30366	0.00000	0.0
						10.473	83.49318	115.88369	0.00000	0.0
						10.972	83.22417	115.46372	0.00000	0.0
						11.471	82.95516	115.04375	0.00000	0.0
						11.970	82.68615	114.62379	0.00000	0.0
						12.468	82.41714	114.20382	0.00000	0.0
						12.967	82.14813	113.78385	0.00000	0.0
						13.466	81.87912	113.36388	0.00000	0.0
						13.965	81.61011	112.94392	0.00000	0.0
						14.463	81.34110	112.52395	0.00000	0.0
						14.962	81.07209	112.10398	0.00000	0.0
						15.461	80.80308	111.68402	0.00000	0.0
						15.960	80.53407	111.26405	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						16.458	80.26506	110.84408	0.00000	0.0
						16.957	79.99605	110.42411	0.00000	0.0
						17.456	79.72704	110.00415	0.00000	0.0
						17.955	79.45803	109.58418	0.00000	0.0
						18.453	79.18902	109.16421	0.00000	0.0
						18.952	78.92001	108.74424	0.00000	0.0
						19.451	78.65100	108.32428	0.00000	0.0
						19.949	78.38199	107.90431	0.00000	0.012042
						20.448	78.11298	107.48434	0.00000	0.11745
						20.947	77.84397	107.06438	0.00000	0.21721
						21.446	77.57496	106.64441	0.00000	0.31298
						21.944	77.30594	106.22444	0.00000	0.40624
						22.443	77.03693	105.80447	0.00000	0.49829
						22.942	76.76792	105.38451	0.00000	0.59025
						23.441	76.49891	104.96454	0.00000	0.68307
						23.939	76.22990	104.54457	0.00000	0.77753
						24.438	75.96089	104.12461	0.00000	0.94491
						24.937	75.69188	103.70464	0.00000	1.1646
						25.436	75.42287	103.28467	0.00000	1.3818
						25.934	75.15386	102.86470	0.00000	1.6085
						26.433	74.88485	102.44474	0.00000	1.8431
						26.932	74.61584	102.02477	0.00000	2.0888
						27.431	74.34683	101.60480	0.00000	2.3484
						27.929	74.07782	101.18483	0.00000	2.6051
						28.428	73.80881	100.76487	0.00000	2.9209
						28.927	73.53980	100.34490	0.00000	3.2622
		28	SB-04	SB-04	0.0	0.0	73.53980	100.34490	0.00000	3.2622
						0.45074	73.15931	100.58655	0.00000	3.4371
						0.90147	72.77883	100.82820	0.00000	3.6254
						1.3522	72.39835	101.06985	0.00000	3.8078
						1.8029	72.01786	101.31150	0.00000	3.9574
						2.2537	71.63737	101.55315	0.00000	4.1233
						2.7044	71.25689	101.79480	0.00000	4.2845
						3.1552	70.87641	102.03645	0.00000	4.4430
						3.6059	70.49592	102.27810	0.00000	4.6138
						4.0566	70.11543	102.51975	0.00000	4.8065
						4.5074	69.73495	102.76140	0.00000	3.3557
						4.9581	69.35447	103.00305	0.00000	3.4875
						5.4088	68.97398	103.24470	0.00000	3.6113
						5.8596	68.59349	103.48635	0.00000	3.7261
						6.3103	68.21301	103.72800	0.00000	3.8308
						6.7611	67.83253	103.96965	0.00000	3.9245
						7.2118	67.45204	104.21130	0.00000	4.0062
						7.6625	67.07155	104.45295	0.00000	4.0754
						8.1133	66.69107	104.69460	0.00000	4.1345
						8.5640	66.31059	104.93625	0.00000	4.2334
						9.0147	65.93010	105.17790	0.00000	4.3228
		29	SB-05	SB-05	0.0	0.0	65.93010	105.17790	0.00000	4.3228
						0.47729	66.18562	105.58103	0.00000	4.0938
						0.95459	66.44114	105.98417	0.00000	3.8613
						1.4319	66.69667	106.38730	0.00000	3.6275
						1.9092	66.95219	106.79044	0.00000	3.3944
						2.3865	67.20771	107.19357	0.00000	3.1639
						2.8638	67.46323	107.59671	0.00000	2.9377
						3.3411	67.71875	107.99984	0.00000	2.7171
						3.8183	67.97428	108.40297	0.00000	2.5033
						4.2956	68.22980	108.80611	0.00000	2.2974
						4.7729	68.48532	109.20924	0.00000	2.1001
						5.2502	68.74084	109.61238	0.00000	1.9121
						5.7275	68.99636	110.01551	0.00000	1.7336
						6.2048	69.25188	110.41865	0.00000	1.5649
						6.6821	69.50741	110.82178	0.00000	1.4059
						7.1594	69.76293	111.22492	0.00000	1.2563
						7.6367	70.01845	111.62805	0.00000	1.1156
						8.1140	70.27397	112.03118	0.00000	0.98324
						8.5913	70.52949	112.43432	0.00000	0.85820
						9.0686	70.78502	112.83745	0.00000	0.73940
						9.5459	71.04054	113.24059	0.00000	0.62551
						10.023	71.29606	113.64372	0.00000	0.51498
						10.500	71.55158	114.04686	0.00000	0.40607
						10.978	71.80710	114.44999	0.00000	0.29679
						11.455	72.06262	114.85312	0.00000	0.18499
						11.932	72.31815	115.25626	0.00000	0.068248
						12.410	72.57367	115.65939	0.00000	0.0
						12.887	72.82919	116.06253	0.00000	0.0
						13.364	73.08471	116.46566	0.00000	0.0
						13.842	73.34023	116.86880	0.00000	0.0
						14.319	73.59576	117.27193	0.00000	0.0
						14.796	73.85128	117.67507	0.00000	0.0
						15.273	74.10680	118.07820	0.00000	0.0
		30	SB-06	SB-06	0.0	0.0	74.10680	118.07820	0.00000	0.0
						0.43543	73.71623	118.27067	0.00000	0.0
						0.87085	73.32565	118.46315	0.00000	0.0
						1.3063	72.93508	118.65563	0.00000	0.0
						1.7417	72.54450	118.84810	0.00000	0.0
						2.1771	72.15393	119.04057	0.00000	0.0
						2.6126	71.76335	119.23305	0.00000	0.0
						3.0480	71.37278	119.42552	0.00000	0.0
						3.4834	70.98220	119.61800	0.00000	0.0
		31	SB-07	SB-07	0.0	0.0	70.98220	119.61800	0.00000	0.0
						0.37898	70.83282	119.26970	0.00000	0.0
						0.75796	70.68345	118.92140	0.00000	0.0
						1.1369	70.53408	118.57310	0.00000	0.0
						1.5159	70.38470	118.22480	0.00000	0.0
		32	SB-08	SB-08	0.0	0.0	70.38470	118.22480	0.00000	0.0
						0.49123	69.95028	118.45410	0.00000	0.0
						0.98245	69.51585	118.68340	0.00000	0.0
						1.4737	69.08143	118.91271	0.00000	0.0
						1.9649	68.64701	119.14201	0.00000	0.0
						2.4561	68.21258	119.37131	0.00000	0.0
						2.9474	67.77816	119.60061	0.00000	0.0
						3.4386	67.34374	119.82991	0.00000	0.0
						3.9298	66.90931	120.05921	0.00000	0.0
						4.4210	66.47489	120.28852	0.00000	0.0
						4.9123	66.04047	120.51782	0.00000	0.0
						5.4035	65.60604	120.74712	0.00000	0.0
						5.8947	65.17162	120.97642	0.00000	0.0
						6.3859	64.73720	121.20572	0.00000	0.0
						6.8772	64.30277	121.43502	0.00000	0.0
						7.3684	63.86835	121.66433	0.00000	0.0
						7.8596	63.43393	121.89363	0.00000	0.0
						8.3508	62.99950	122.12293	0.00000	0.0
						8.8421	62.56508	122.35223	0.00000	0.0
						9.3333	62.13066	122.58153	0.00000	0.0
						9.8245	61.69623	122.81083	0.00000	0.0
						10.316	61.26181	123.04014	0.00000	0.0
						10.807	60.82739	123.26944	0.00000	0.0
						11.298	60.39296	123.49874	0.00000	0.0
						11.789	59.95854	123.72804	0.00000	0.0
						12.281	59.52412	123.95734	0.00000	0.0
						12.772	59.08969	124.18664	0.00000	0.0
						13.263	58.65527	124.41595	0.00000	0.0
						13.754	58.22085	124.64525	0.00000	0.0
						14.246	57.78642	124.87455	0.00000	0.0
						14.737	57.35200	125.10385	0.00000	0.0
						15.228	56.91758	125.33315	0.00000	0.0
						15.719	56.48315	125.56245	0.00000	0.0
						16.210	56.04873	125.79175	0.00000	0.0
						16.702	55.61431	126.02106	0.00000	0.0
						17.193	55.17988	126.25036	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						17.684	54.74546	126.47966	0.00000	0.0
						18.175	54.31104	126.70896	0.00000	0.0
						18.667	53.87661	126.93826	0.00000	0.0
						19.158	53.44219	127.16756	0.00000	0.0
						19.649	53.00777	127.39687	0.00000	0.0
						20.140	52.57334	127.62617	0.00000	0.0
						20.631	52.13892	127.85547	0.00000	0.0
						21.123	51.70450	128.08477	0.00000	0.0
						21.614	51.27007	128.31407	0.00000	0.0
						22.105	50.83565	128.54337	0.00000	0.0
						22.596	50.40123	128.77268	0.00000	0.0
						23.088	49.96680	129.00198	0.00000	0.0
						23.579	49.53238	129.23128	0.00000	0.0
						24.070	49.09796	129.46058	0.00000	0.0
						24.561	48.66353	129.68988	0.00000	0.0
						25.053	48.22911	129.91918	0.00000	0.0
						25.544	47.79469	130.14849	0.00000	0.0
						26.035	47.36026	130.37779	0.00000	0.0
						26.526	46.92584	130.60709	0.00000	0.0
						27.017	46.49142	130.83639	0.00000	0.0
						27.509	46.05699	131.06569	0.00000	0.0
						28.000	45.62257	131.29500	0.00000	0.0
						28.491	45.18815	131.52430	0.00000	0.0
						28.982	44.75372	131.75360	0.00000	0.0
						29.474	44.31930	131.98290	0.00000	0.0
	33	SB-09	SB-09		0.0	0.0	44.31930	131.98290	0.00000	0.0
						0.49663	44.54866	132.42340	0.00000	0.0
						0.99327	44.77801	132.86390	0.00000	0.0
						1.4899	45.00737	133.30440	0.00000	0.0
						1.9865	45.23672	133.74490	0.00000	0.0
						2.4832	45.46608	134.18540	0.00000	0.0
						2.9798	45.69544	134.62590	0.00000	0.0
						3.4764	45.92479	135.06640	0.00000	0.0
						3.9731	46.15415	135.50690	0.00000	0.0
						4.4697	46.38351	135.94740	0.00000	0.0
						4.9663	46.61286	136.38790	0.00000	0.0
						5.4630	46.84222	136.82840	0.00000	0.0
						5.9596	47.07158	137.26890	0.00000	0.0
						6.4562	47.30093	137.70940	0.00000	0.0
						6.9529	47.53029	138.14990	0.00000	0.0
						7.4495	47.75964	138.59040	0.00000	0.0
						7.9461	47.98900	139.03090	0.00000	0.0
						8.4428	48.21836	139.47140	0.00000	0.0
						8.9394	48.44771	139.91190	0.00000	0.0
						9.4360	48.67707	140.35240	0.00000	0.0
						9.9327	48.90642	140.79290	0.00000	0.0
						10.429	49.13578	141.23340	0.00000	0.0
						10.926	49.36514	141.67390	0.00000	0.0
						11.423	49.59449	142.11440	0.00000	0.0
						11.919	49.82385	142.55490	0.00000	0.0
						12.416	50.05321	142.99540	0.00000	0.0
						12.912	50.28256	143.43590	0.00000	0.0
						13.409	50.51192	143.87640	0.00000	0.0
						13.906	50.74128	144.31690	0.00000	0.0
						14.402	50.97063	144.75740	0.00000	0.0
						14.899	51.19999	145.19790	0.00000	0.0
						15.396	51.42934	145.63840	0.00000	0.0
						15.892	51.65870	146.07890	0.00000	0.0
	34	SB-10	SB-10		0.0	0.0	51.65870	146.07890	0.00000	0.0
						0.46146	52.05637	145.84480	0.00000	0.0
						0.92292	52.45404	145.61070	0.00000	0.0
						1.3844	52.85171	145.37660	0.00000	0.0
						1.8458	53.24938	145.14250	0.00000	0.0
						2.3073	53.64705	144.90840	0.00000	0.0
						2.7688	54.04472	144.67430	0.00000	0.0
						3.2302	54.44239	144.44020	0.00000	0.0
						3.6917	54.84006	144.20610	0.00000	0.0
						4.1531	55.23773	143.97200	0.00000	0.0
						4.6146	55.63540	143.73790	0.00000	0.0
						5.0760	56.03307	143.50380	0.00000	0.0
						5.5375	56.43074	143.26970	0.00000	0.0
						5.9990	56.82841	143.03560	0.00000	0.0
						6.4604	57.22608	142.80150	0.00000	0.0
						6.9219	57.62375	142.56740	0.00000	0.0
						7.3833	58.02142	142.33330	0.00000	0.0
						7.8448	58.41909	142.09920	0.00000	0.0
						8.3063	58.81676	141.86510	0.00000	0.0
						8.7677	59.21443	141.63100	0.00000	0.0
						9.2292	59.61210	141.39690	0.00000	0.0
	35	SB-11	SB-11		0.0	0.0	59.61210	141.39690	0.00000	0.0
						0.48552	60.04295	141.17306	0.00000	0.0
						0.97105	60.47379	140.94923	0.00000	0.0
						1.4566	60.90464	140.72539	0.00000	0.0
						1.9421	61.33549	140.50155	0.00000	0.0
						2.4276	61.76634	140.27772	0.00000	0.0
						2.9131	62.19718	140.05388	0.00000	0.0
						3.3987	62.62803	139.83004	0.00000	0.0
						3.8842	63.05888	139.60621	0.00000	0.0
						4.3697	63.48973	139.38237	0.00000	0.0
						4.8552	63.92057	139.15853	0.00000	0.0
						5.3408	64.35142	138.93469	0.00000	0.0
						5.8263	64.78227	138.71086	0.00000	0.0
						6.3118	65.21312	138.48702	0.00000	0.0
						6.7973	65.64396	138.26318	0.00000	0.0
						7.2828	66.07481	138.03935	0.00000	0.0
						7.7684	66.50566	137.81551	0.00000	0.0
						8.2539	66.93651	137.59167	0.00000	0.0
						8.7394	67.36735	137.36784	0.00000	0.0
						9.2249	67.79820	137.14400	0.00000	0.0
						9.7105	68.22905	136.92016	0.00000	0.0
						10.196	68.65989	136.69633	0.00000	0.0
						10.682	69.09074	136.47249	0.00000	0.0
						11.167	69.52159	136.24865	0.00000	0.0
						11.653	69.95244	136.02482	0.00000	0.0
						12.138	70.38328	135.80098	0.00000	0.0
						12.624	70.81413	135.57714	0.00000	0.0
						13.109	71.24498	135.35331	0.00000	0.0
						13.595	71.67583	135.12947	0.00000	0.0
						14.080	72.10667	134.90563	0.00000	0.0
						14.566	72.53752	134.68179	0.00000	0.0
						15.051	72.96837	134.45796	0.00000	0.0
						15.537	73.39922	134.23412	0.00000	0.0
						16.022	73.83006	134.01028	0.00000	0.0
						16.508	74.26091	133.78645	0.00000	0.0
						16.993	74.69176	133.56261	0.00000	0.0
						17.479	75.12261	133.33877	0.00000	0.0
						17.964	75.55345	133.11494	0.00000	0.0
						18.450	75.98430	132.89110	0.00000	0.0
	36	SB-12	SB-12		0.0	0.0	75.98430	132.89110	0.00000	0.0
						0.28634	76.21543	132.72207	0.00000	0.0
						0.57267	76.44655	132.55305	0.00000	0.0
						0.85901	76.67767	132.38403	0.00000	0.0
						1.1453	76.90880	132.21500	0.00000	0.0
	37	SB-13	SB-13		0.0	0.0	76.90880	132.21500	0.00000	0.0
						0.31767	76.76538	131.93155	0.00000	0.0
						0.63534	76.62195	131.64810	0.00000	0.0
						0.95301	76.47852	131.36465	0.00000	0.0
						1.2707	76.33510	131.08120	0.00000	0.0
	38	SB-14	SB-14		0.0	0.0	76.33510	131.08120	0.00000	0.0
						0.48921	76.75755	130.83449	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						0.97843	77.18000	130.58778	0.00000	0.0
						1.4676	77.60245	130.34107	0.00000	0.0
						1.9569	78.02490	130.09436	0.00000	0.0
						2.4461	78.44735	129.84765	0.00000	0.0
						2.9353	78.86980	129.60094	0.00000	0.0
						3.4245	79.29225	129.35423	0.00000	0.0
						3.9137	79.71470	129.10752	0.00000	0.0
						4.4029	80.13715	128.86081	0.00000	0.0
						4.8921	80.55960	128.61410	0.00000	0.0
	39		HL-01	HL-01	0.0	0.0	50.98220	128.46600	0.00000	0.0
						0.48226	50.76237	128.03676	0.00000	0.0
						0.96452	50.54254	127.60752	0.00000	0.0
						1.4468	50.32271	127.17828	0.00000	0.0
						1.9290	50.10287	126.74904	0.00000	0.0
						2.4113	49.88304	126.31980	0.00000	0.0
						2.8936	49.66321	125.89056	0.00000	0.0
						3.3758	49.44338	125.46132	0.00000	0.0
						3.8581	49.22355	125.03208	0.00000	0.0
						4.3403	49.00372	124.60283	0.00000	0.0
						4.8226	48.78389	124.17359	0.00000	0.0
						5.3048	48.56406	123.74435	0.00000	0.0
						5.7871	48.34423	123.31511	0.00000	0.0
						6.2694	48.12439	122.88587	0.00000	0.0
						6.7516	47.90456	122.45663	0.00000	0.0
						7.2339	47.68473	122.02739	0.00000	0.0
						7.7161	47.46490	121.59815	0.00000	0.0
						8.1984	47.24507	121.16891	0.00000	0.044099
						8.6807	47.02524	120.73967	0.00000	0.11765
						9.1629	46.80541	120.31043	0.00000	0.18800
						9.6452	46.58557	119.88119	0.00000	0.25560
						10.127	46.36574	119.45195	0.00000	0.32083
						10.610	46.14591	119.02271	0.00000	0.38400
						11.092	45.92608	118.59347	0.00000	0.44536
						11.574	45.70625	118.16423	0.00000	0.50510
						12.056	45.48642	117.73498	0.00000	0.56333
						12.539	45.26659	117.30574	0.00000	0.62014
						13.021	45.04676	116.87650	0.00000	0.67553
						13.503	44.82693	116.44726	0.00000	0.72947
						13.985	44.60709	116.01802	0.00000	0.78189
						14.468	44.38726	115.58878	0.00000	0.83266
						14.950	44.16743	115.15954	0.00000	0.88164
						15.432	43.94760	114.73030	0.00000	0.92863
	40		HL-02	HL-02	0.0	0.0	43.94760	114.73030	0.00000	0.92863
						0.46776	43.53589	114.95231	0.00000	0.82005
						0.93551	43.12418	115.17432	0.00000	0.71508
						1.4033	42.71246	115.39634	0.00000	0.61301
						1.8710	42.30075	115.61835	0.00000	0.51296
						2.3388	41.88904	115.84036	0.00000	0.41391
						2.8065	41.47733	116.06238	0.00000	0.31465
						3.2743	41.06561	116.28439	0.00000	0.21386
						3.7421	40.65390	116.50640	0.00000	0.11002
						4.2098	40.24219	116.72841	0.00000	0.0
						4.6776	39.83047	116.95042	0.00000	0.0
						5.1453	39.41876	117.17244	0.00000	0.0
						5.6131	39.00705	117.39445	0.00000	0.0
						6.0808	38.59534	117.61646	0.00000	0.0
						6.5486	38.18362	117.83848	0.00000	0.0
						7.0164	37.77191	118.06049	0.00000	0.0
						7.4841	37.36020	118.28250	0.00000	0.0
	41		HL-03	HL-03	0.0	0.0	37.36020	118.28250	0.00000	0.0
						0.48020	37.57767	118.71064	0.00000	0.0
						0.96041	37.79514	119.13877	0.00000	0.0
						1.4406	38.01262	119.56691	0.00000	0.0
						1.9208	38.23009	119.99505	0.00000	0.0
						2.4010	38.44756	120.42319	0.00000	0.0
						2.8812	38.66503	120.85133	0.00000	0.0
						3.3614	38.88250	121.27946	0.00000	0.0
						3.8416	39.09998	121.70760	0.00000	0.0
						4.3218	39.31745	122.13574	0.00000	0.0
						4.8020	39.53492	122.56387	0.00000	0.0
						5.2822	39.75239	122.99201	0.00000	0.0
						5.7624	39.96986	123.42015	0.00000	0.0
						6.2427	40.18733	123.84829	0.00000	0.0
						6.7229	40.40481	124.27643	0.00000	0.0
						7.2031	40.62228	124.70456	0.00000	0.0
						7.6833	40.83975	125.13270	0.00000	0.0
						8.1635	41.05722	125.56084	0.00000	0.0
						8.6437	41.27469	125.98897	0.00000	0.0
						9.1239	41.49217	126.41711	0.00000	0.0
						9.6041	41.70964	126.84525	0.00000	0.0
						10.084	41.92711	127.27339	0.00000	0.0
						10.564	42.14458	127.70153	0.00000	0.0
						11.045	42.36205	128.12966	0.00000	0.0
						11.525	42.57952	128.55780	0.00000	0.0
						12.005	42.79700	128.98594	0.00000	0.0
						12.485	43.01447	129.41407	0.00000	0.0
						12.966	43.23194	129.84221	0.00000	0.0
						13.446	43.44941	130.27035	0.00000	0.0
						13.926	43.66688	130.69849	0.00000	0.0
						14.406	43.88436	131.12662	0.00000	0.0
						14.886	44.10183	131.55476	0.00000	0.0
						15.367	44.31930	131.98290	0.00000	0.0
	42		CH-01	CH-01	0.0	0.0	43.98880	114.70780	0.00000	0.93977
						0.48967	44.42074	114.47714	0.00000	1.0582
						0.97934	44.85268	114.24649	0.00000	1.1817
						1.4690	45.28462	114.01583	0.00000	1.3105
						1.9587	45.71656	113.78517	0.00000	1.4447
						2.4483	46.14850	113.55451	0.00000	1.5843
						2.9380	46.58044	113.32386	0.00000	1.7290
						3.4277	47.01237	113.09320	0.00000	1.8783
						3.9173	47.44431	112.86254	0.00000	2.0317
						4.4070	47.87625	112.63189	0.00000	2.1885
						4.8967	48.30819	112.40123	0.00000	2.3477
						5.3863	48.74013	112.17057	0.00000	2.5083
						5.8760	49.17207	111.93991	0.00000	2.6692
						6.3657	49.60401	111.70926	0.00000	2.8290
						6.8553	50.03595	111.47860	0.00000	2.9864
						7.3450	50.46789	111.24794	0.00000	3.1399
						7.8347	50.89983	111.01729	0.00000	3.2879
						8.3243	51.33177	110.78663	0.00000	3.4289
						8.8140	51.76371	110.55597	0.00000	3.5611
						9.3037	52.19565	110.32531	0.00000	3.6830
						9.7934	52.62759	110.09466	0.00000	3.8332
						10.283	53.05953	109.86400	0.00000	3.9916
						10.773	53.49146	109.63334	0.00000	4.1456
						11.262	53.92340	109.40269	0.00000	4.2943
						11.752	54.35534	109.17203	0.00000	4.4367
						12.242	54.78728	108.94137	0.00000	4.5716
						12.731	55.21922	108.71071	0.00000	4.6979
						13.221	55.65116	108.48006	0.00000	4.8146
						13.711	56.08310	108.24940	0.00000	4.9202
	43		CH-02	CH-02	0.0	0.0	56.08310	108.24940	0.00000	4.9202
						0.48553	55.84919	107.82393	0.00000	5.0750
						0.97106	55.61528	107.39846	0.00000	5.2092
						1.4566	55.38138	106.97298	0.00000	5.3195
						1.9421	55.14747	106.54751	0.00000	5.4020
						2.4276	54.91356	106.12204	0.00000	5.4529
						2.9132	54.67965	105.69657	0.00000	5.4678
						3.3987	54.44574	105.27110	0.00000	5.4422
						3.8842	54.21184	104.84562	0.00000	5.3712

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						4.3698	53.97793	104.42015	0.00000	5.2945
						4.8553	53.74402	103.99468	0.00000	5.4436
						5.3408	53.51011	103.56921	0.00000	5.6388
						5.8264	53.27620	103.14374	0.00000	5.7828
						6.3119	53.04230	102.71826	0.00000	5.8366
						6.7974	52.80839	102.29279	0.00000	5.8905
						7.2829	52.57448	101.86732	0.00000	5.9444
						7.7685	52.34057	101.44185	0.00000	5.9984
						8.2540	52.10666	101.01638	0.00000	6.0525
						8.7395	51.87276	100.59090	0.00000	6.1066
						9.2251	51.63885	100.16543	0.00000	6.1607
						9.7106	51.40494	99.73996	0.00000	6.2149
						10.196	51.17103	99.31449	0.00000	6.2692
						10.682	50.93712	98.88902	0.00000	6.3235
						11.167	50.70322	98.46354	0.00000	6.3779
						11.653	50.46931	98.03807	0.00000	6.4323
						12.138	50.23540	97.61260	0.00000	6.4868
						12.624	50.00149	97.18713	0.00000	6.5414
						13.109	49.76758	96.76166	0.00000	6.5960
						13.595	49.53368	96.33618	0.00000	6.6506
						14.080	49.29977	95.91071	0.00000	6.7053
						14.566	49.06586	95.48524	0.00000	6.7601
						15.051	48.83195	95.05977	0.00000	6.7251
						15.537	48.59804	94.63430	0.00000	6.6723
						16.022	48.36414	94.20882	0.00000	6.6194
						16.508	48.13023	93.78335	0.00000	6.5665
						16.994	47.89632	93.35788	0.00000	6.5135
						17.479	47.66241	92.93241	0.00000	6.4604
						17.965	47.42850	92.50694	0.00000	6.4073
						18.450	47.19460	92.08146	0.00000	6.3541
						18.936	46.96069	91.65599	0.00000	6.3009
						19.421	46.72678	91.23052	0.00000	6.2476
						19.907	46.49287	90.80505	0.00000	6.1942
						20.392	46.25896	90.37958	0.00000	6.1408
						20.878	46.02506	89.95410	0.00000	6.0873
						21.363	45.79115	89.52863	0.00000	6.0338
						21.849	45.55724	89.10316	0.00000	5.9802
						22.334	45.32333	88.67769	0.00000	5.9266
						22.820	45.08942	88.25222	0.00000	5.8728
						23.305	44.85552	87.82674	0.00000	5.8191
						23.791	44.62161	87.40127	0.00000	5.7357
						24.276	44.38770	86.97580	0.00000	5.5332
	44	CH-03	CH-03		0.0	0.0	44.38770	86.97580	0.00000	5.5332
						0.48596	43.96821	87.22111	0.00000	5.6353
						0.97191	43.54871	87.46643	0.00000	5.6816
						1.4579	43.12922	87.71174	0.00000	5.6813
						1.9438	42.70973	87.95705	0.00000	5.6407
						2.4298	42.29023	88.20237	0.00000	5.5653
						2.9157	41.87074	88.44768	0.00000	5.4595
						3.4017	41.45125	88.69300	0.00000	5.3275
						3.8876	41.03175	88.93831	0.00000	5.1730
						4.3736	40.61226	89.18362	0.00000	4.9996
						4.8596	40.19277	89.42894	0.00000	4.8105
						5.3455	39.77327	89.67425	0.00000	4.6088
						5.8315	39.35378	89.91956	0.00000	4.3973
						6.3174	38.93429	90.16488	0.00000	4.1787
						6.8034	38.51480	90.41019	0.00000	3.9552
						7.2893	38.09530	90.65550	0.00000	3.7293
						7.7753	37.67581	90.90082	0.00000	3.5028
						8.2613	37.25632	91.14613	0.00000	3.2777
						8.7472	36.83682	91.39145	0.00000	3.0555
						9.2332	36.41733	91.63676	0.00000	2.8377
						9.7191	35.99784	91.88207	0.00000	2.6256
						10.205	35.57834	92.12739	0.00000	2.4201
						10.691	35.15885	92.37270	0.00000	2.2222
						11.177	34.73936	92.61801	0.00000	2.0324
						11.663	34.31986	92.86333	0.00000	1.8514
						12.149	33.90037	93.10864	0.00000	1.6793
						12.635	33.48088	93.35395	0.00000	1.5163
						13.121	33.06138	93.59927	0.00000	1.3622
						13.607	32.64189	93.84458	0.00000	1.2168
						14.093	32.22240	94.08990	0.00000	1.0795
						14.579	31.80290	94.33521	0.00000	0.94975
						15.065	31.38341	94.58052	0.00000	0.82659
						15.551	30.96392	94.82584	0.00000	0.70897
						16.037	30.54442	95.07115	0.00000	0.59565
						16.523	30.12493	95.31646	0.00000	0.48517
						17.008	29.70544	95.56178	0.00000	0.37590
						17.494	29.28595	95.80709	0.00000	0.26601
						17.980	28.86645	96.05240	0.00000	0.15349
						18.466	28.44696	96.29772	0.00000	0.036086
						18.952	28.02747	96.54303	0.00000	0.0
						19.438	27.60797	96.78835	0.00000	0.0
						19.924	27.18848	97.03366	0.00000	0.0
						20.410	26.76899	97.27897	0.00000	0.0
						20.896	26.34949	97.52429	0.00000	0.0
						21.382	25.93000	97.76960	0.00000	0.0
	45	CH-04	CH-04		0.0	0.0	25.93000	97.76960	0.00000	0.0
						0.48923	26.16813	98.19696	0.00000	0.0
						0.97845	26.40627	98.62432	0.00000	0.0
						1.4677	26.64440	99.05168	0.00000	0.0
						1.9569	26.88253	99.47903	0.00000	0.0
						2.4461	27.12067	99.90639	0.00000	0.0
						2.9354	27.35880	100.33375	0.00000	0.0
						3.4246	27.59693	100.76111	0.00000	0.0
						3.9138	27.83507	101.18847	0.00000	0.0
						4.4030	28.07320	101.61583	0.00000	0.0
						4.8923	28.31133	102.04318	0.00000	0.0
						5.3815	28.54947	102.47054	0.00000	0.0
						5.8707	28.78760	102.89790	0.00000	0.0
						6.3599	29.02573	103.32526	0.00000	0.0
						6.8492	29.26387	103.75262	0.00000	0.0
						7.3384	29.50200	104.17997	0.00000	0.0
						7.8276	29.74013	104.60733	0.00000	0.0
						8.3169	29.97827	105.03469	0.00000	0.0
						8.8061	30.21640	105.46205	0.00000	0.0
						9.2953	30.45453	105.88941	0.00000	0.0
						9.7845	30.69267	106.31677	0.00000	0.0
						10.274	30.93080	106.74412	0.00000	0.0
						10.763	31.16893	107.17148	0.00000	0.0
						11.252	31.40707	107.59884	0.00000	0.0
						11.741	31.64520	108.02620	0.00000	0.0
						12.231	31.88333	108.45356	0.00000	0.0
						12.720	32.12147	108.88092	0.00000	0.0
						13.209	32.35960	109.30827	0.00000	0.0
						13.698	32.59773	109.73563	0.00000	0.0
						14.188	32.83587	110.16299	0.00000	0.0
						14.677	33.07400	110.59035	0.00000	0.0
						15.166	33.31213	111.01771	0.00000	0.0
						15.655	33.55027	111.44507	0.00000	0.0
						16.144	33.78840	111.87242	0.00000	0.0
						16.634	34.02653	112.29978	0.00000	0.0
						17.123	34.26467	112.72714	0.00000	0.0
						17.612	34.50280	113.15450	0.00000	0.0
						18.101	34.74093	113.58186	0.00000	0.0
						18.591	34.97907	114.00922	0.00000	0.0
						19.080	35.21720	114.43657	0.00000	0.0
						19.569	35.45533	114.86393	0.00000	0.0
						20.058	35.69347	115.29129	0.00000	0.0
						20.548	35.93160	115.71865	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						21.037	36.16973	116.14601	0.00000	0.0
						21.526	36.40787	116.57337	0.00000	0.0
						22.015	36.64600	117.00072	0.00000	0.0
						22.504	36.88413	117.42808	0.00000	0.0
						22.994	37.12227	117.85544	0.00000	0.0
						23.483	37.36040	118.28280	0.00000	0.0
		46	CH-05	CH-05	0.0	0.0	44.38770	86.97580	0.00000	5.5332
						0.43282	43.96845	86.86828	0.00000	5.5047
						0.86564	43.54920	86.76075	0.00000	5.4645
						1.2985	43.12995	86.65323	0.00000	5.4082
						1.7313	42.71070	86.54570	0.00000	5.3350
						2.1641	42.29145	86.43818	0.00000	5.2452
						2.5969	41.87220	86.33065	0.00000	5.1399
						3.0297	41.45295	86.22312	0.00000	5.0206
						3.4626	41.03370	86.11560	0.00000	4.8887
		47	CH-06	CH-06	0.0	0.0	41.03370	86.11560	0.00000	4.8887
						0.48042	40.61901	86.35816	0.00000	4.8091
						0.96085	40.20431	86.60072	0.00000	4.7076
						1.4413	39.78962	86.84328	0.00000	4.5865
						1.9217	39.37493	87.08584	0.00000	4.4481
						2.4021	38.96024	87.32840	0.00000	4.2949
						2.8825	38.54554	87.57096	0.00000	4.1294
						3.3630	38.13085	87.81352	0.00000	3.9537
						3.8434	37.71616	88.05609	0.00000	3.7702
						4.3238	37.30146	88.29865	0.00000	3.5810
						4.8042	36.88677	88.54121	0.00000	3.3880
						5.2846	36.47208	88.78377	0.00000	3.1930
						5.7651	36.05739	89.02633	0.00000	2.9978
						6.2455	35.64269	89.26889	0.00000	2.8038
						6.7259	35.22800	89.51145	0.00000	2.6125
						7.2063	34.81331	89.75401	0.00000	2.4250
						7.6868	34.39861	89.99657	0.00000	2.2423
						8.1672	33.98392	90.23913	0.00000	2.0653
						8.6476	33.56923	90.48169	0.00000	1.8947
						9.1280	33.15454	90.72425	0.00000	1.7310
						9.6085	32.73984	90.96681	0.00000	1.5745
						10.089	32.32515	91.20938	0.00000	1.4253
						10.569	31.91046	91.45194	0.00000	1.2835
						11.050	31.49576	91.69450	0.00000	1.1487
						11.530	31.08107	91.93706	0.00000	1.0207
						12.011	30.66638	92.17962	0.00000	0.89887
						12.491	30.25169	92.42218	0.00000	0.78241
						12.971	29.83699	92.66474	0.00000	0.67043
						13.452	29.42230	92.90730	0.00000	0.56182
		48	CH-07	CH-07	0.0	0.0	29.42230	92.90730	0.00000	0.56182
						0.48449	29.15173	92.50539	0.00000	0.53388
						0.96899	28.88117	92.10349	0.00000	0.50336
						1.4535	28.61060	91.70158	0.00000	0.47031
						1.9380	28.34003	91.29968	0.00000	0.43479
						2.4225	28.06947	90.89777	0.00000	0.39683
						2.9070	27.79890	90.49587	0.00000	0.35644
						3.3915	27.52833	90.09396	0.00000	0.31360
						3.8760	27.25777	89.69206	0.00000	0.26826
						4.3604	26.98720	89.29015	0.00000	0.22031
						4.8449	26.71663	88.88824	0.00000	0.16964
						5.3294	26.44607	88.48634	0.00000	0.11605
						5.8139	26.17550	88.08443	0.00000	0.059312
						6.2984	25.90493	87.68253	0.00000	0.0
						6.7829	25.63437	87.28062	0.00000	0.0
						7.2674	25.36380	86.87872	0.00000	0.0
						7.7519	25.09323	86.47681	0.00000	0.0
						8.2364	24.82267	86.07491	0.00000	0.0
						8.7209	24.55210	85.67300	0.00000	0.0
		49	CH-08	CH-08	0.0	0.0	24.55210	85.67300	0.00000	0.0
						0.22375	24.36080	85.78905	0.00000	0.0
						0.44750	24.16950	85.90510	0.00000	0.0
		50	CH-09	CH-09	0.0	0.0	24.16950	85.90510	0.00000	0.0
						0.41343	23.93042	85.56780	0.00000	0.0
						0.82687	23.69135	85.23050	0.00000	0.0
						1.2403	23.45228	84.89320	0.00000	0.0
						1.6537	23.21320	84.55590	0.00000	0.0
						2.0672	22.97413	84.21860	0.00000	0.0
						2.4806	22.73505	83.88130	0.00000	0.0
						2.8940	22.49598	83.54400	0.00000	0.0
						3.3075	22.25690	83.20670	0.00000	0.0
		51	CH-10	CH-10	0.0	0.0	22.25690	83.20670	0.00000	0.0
						0.49151	21.84234	83.47075	0.00000	0.0
						0.98302	21.42778	83.73480	0.00000	0.0
						1.4745	21.01322	83.99885	0.00000	0.0
						1.9660	20.59866	84.26290	0.00000	0.0
						2.4576	20.18410	84.52695	0.00000	0.0
						2.9491	19.76954	84.79100	0.00000	0.0
						3.4406	19.35498	85.05505	0.00000	0.0
						3.921	18.94042	85.31910	0.00000	0.0
						4.4236	18.52586	85.58315	0.00000	0.0
						4.9151	18.11130	85.84720	0.00000	0.0
		52	CH-11	CH-11	0.0	0.0	18.11130	85.84720	0.00000	0.0
						0.47528	18.37194	86.24464	0.00000	0.0
						0.95057	18.63258	86.64209	0.00000	0.0
						1.4259	18.89322	87.03953	0.00000	0.0
						1.9011	19.15386	87.43697	0.00000	0.0
						2.3764	19.41450	87.83442	0.00000	0.0
						2.8517	19.67514	88.23186	0.00000	0.0
						3.3270	19.93578	88.62930	0.00000	0.0
						3.8023	20.19642	89.02675	0.00000	0.0
						4.2776	20.45706	89.42419	0.00000	0.0
						4.7528	20.71770	89.82163	0.00000	0.0
						5.2281	20.97834	90.21908	0.00000	0.0
						5.7034	21.23898	90.61652	0.00000	0.0
						6.1787	21.49962	91.01396	0.00000	0.0
						6.6540	21.76026	91.41141	0.00000	0.0
						7.1293	22.02090	91.80885	0.00000	0.0
						7.6045	22.28154	92.20629	0.00000	0.0
						8.0798	22.54218	92.60374	0.00000	0.0
						8.5551	22.80282	93.00118	0.00000	0.0
						9.0304	23.06346	93.39862	0.00000	0.0
						9.5057	23.32410	93.79607	0.00000	0.0
						9.9810	23.58474	94.19351	0.00000	0.0
						10.456	23.84538	94.59095	0.00000	0.0
						10.932	24.10602	94.98840	0.00000	0.0
						11.407	24.36666	95.38584	0.00000	0.0
						11.882	24.62730	95.78328	0.00000	0.0
						12.357	24.88794	96.18073	0.00000	0.0
						12.833	25.14858	96.57817	0.00000	0.0
						13.308	25.40922	96.97561	0.00000	0.0
						13.783	25.66986	97.37306	0.00000	0.0
						14.259	25.93050	97.77050	0.00000	0.0
		53	10S-01	10S-01	0.0	0.0	60.26430	42.08760	0.00000	1.7357
						0.46042	60.08619	41.66303	0.00000	1.5697
						0.92083	59.90809	41.23846	0.00000	1.4135
						1.3812	59.72998	40.81389	0.00000	1.2669
						1.8417	59.55187	40.38931	0.00000	1.1292
						2.3021	59.37376	39.96474	0.00000	0.99971
						2.7625	59.19566	39.54017	0.00000	0.87749
						3.2229	59.01755	39.11560	0.00000	0.76151
						3.6833	58.83944	38.69103	0.00000	0.65053
						4.1437	58.66134	38.26646	0.00000	0.54316
						4.6042	58.48323	37.84189	0.00000	0.43786
						5.0646	58.30512	37.41731	0.00000	0.33291
						5.5250	58.12701	36.99274	0.00000	0.22645

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						5.9854	57.94891	36.56817	0.00000	0.11648
						6.4458	57.77080	36.14360	0.00000	0.0
		54	10S-02	10S-02	0.0	0.0	57.77080	36.14360	0.00000	0.0
						0.38404	57.41346	36.28429	0.00000	0.010297
						0.76807	57.05613	36.42498	0.00000	0.019626
						1.1521	56.69879	36.56566	0.00000	0.028833
						1.5361	56.34145	36.70635	0.00000	0.037008
						1.9202	55.98411	36.84704	0.00000	0.043275
						2.3042	55.62678	36.98772	0.00000	0.047654
						2.6882	55.26944	37.12841	0.00000	0.050159
						3.0723	54.91210	37.26910	0.00000	0.050801
		55	10S-03	10S-03	0.0	0.0	54.91210	37.26910	0.00000	0.050801
						0.34208	54.77050	36.95770	0.00000	0.0
						0.68417	54.62890	36.64630	0.00000	0.0
						1.0262	54.48730	36.33490	0.00000	0.0
						1.3683	54.34570	36.02350	0.00000	0.0
						1.7104	54.20410	35.71210	0.00000	0.0
						2.0525	54.06250	35.40070	0.00000	0.0
		56	10S-04	10S-04	0.0	0.0	54.06250	35.40070	0.00000	0.0
						0.33357	54.36875	35.26848	0.00000	0.0
						0.66714	54.67500	35.13627	0.00000	0.0
						1.0007	54.98125	35.00405	0.00000	0.0
						1.3343	55.28750	34.87183	0.00000	0.0
						1.6679	55.59375	34.73962	0.00000	0.0
						2.0014	55.90000	34.60740	0.00000	0.0
		57	10S-05	10S-05	0.0	0.0	55.90000	34.60740	0.00000	0.0
						0.46683	55.71496	34.17881	0.00000	0.0
						0.93366	55.52993	33.75021	0.00000	0.0
						1.4005	55.34489	33.32162	0.00000	0.0
						1.8673	55.15986	32.89303	0.00000	0.0
						2.3341	54.97482	32.46444	0.00000	0.0
						2.8010	54.78979	32.03584	0.00000	0.0
						3.2678	54.60475	31.60725	0.00000	0.0
						3.7346	54.41971	31.17866	0.00000	0.0
						4.2015	54.23468	30.75006	0.00000	0.0
						4.6683	54.04964	30.32147	0.00000	0.0
						5.1351	53.86461	29.89288	0.00000	0.0
						5.6020	53.67957	29.46429	0.00000	0.0
						6.0688	53.49454	29.03569	0.00000	0.0
						6.5356	53.30950	28.60710	0.00000	0.0
		58	10S-06	10S-06	0.0	0.0	53.30950	28.60710	0.00000	0.0
						0.44988	52.88902	28.76706	0.00000	0.0
						0.89976	52.46854	28.92701	0.00000	0.0
						1.3496	52.04806	29.08697	0.00000	0.0
						1.7995	51.62758	29.24692	0.00000	0.0
						2.2494	51.20709	29.40688	0.00000	0.0
						2.6993	50.78661	29.56684	0.00000	0.0
						3.1491	50.36613	29.72679	0.00000	0.0
						3.5990	49.94565	29.88675	0.00000	0.0
						4.0489	49.52517	30.04671	0.00000	0.0
						4.4988	49.10469	30.20666	0.00000	0.0
						4.9487	48.68421	30.36662	0.00000	0.0
						5.3985	48.26373	30.52658	0.00000	0.0
						5.8484	47.84324	30.68653	0.00000	0.0
						6.2983	47.42276	30.84649	0.00000	0.0
						6.7482	47.00228	31.00644	0.00000	0.0
						7.1981	46.58180	31.16640	0.00000	0.0
		59	10S-07	10S-07	0.0	0.0	46.58180	31.16640	0.00000	0.0
						0.47216	46.77181	31.59864	0.00000	0.0
						0.94432	46.96181	32.03089	0.00000	0.0
						1.4165	47.15182	32.46313	0.00000	0.0
						1.8886	47.34183	32.89538	0.00000	0.0
						2.3608	47.53183	33.32762	0.00000	0.0
						2.8330	47.72184	33.75986	0.00000	0.0
						3.3051	47.91184	34.19211	0.00000	0.0
						3.7773	48.10185	34.62435	0.00000	0.0
						4.2495	48.29186	35.05659	0.00000	0.0
						4.7216	48.48186	35.48884	0.00000	0.0
						5.1938	48.67187	35.92108	0.00000	0.0
						5.6659	48.86187	36.35332	0.00000	0.0
						6.1381	49.05188	36.78557	0.00000	0.0
						6.6103	49.24189	37.21781	0.00000	0.0
						7.0824	49.43189	37.65006	0.00000	0.0
						7.5546	49.62190	38.08230	0.00000	0.0
						8.0268	49.81191	38.51454	0.00000	0.0
						8.4989	50.00191	38.94679	0.00000	0.0
						8.9711	50.19192	39.37903	0.00000	0.0
						9.4432	50.38193	39.81127	0.00000	0.053065
						9.9154	50.57193	40.24352	0.00000	0.16296
						10.388	50.76194	40.67576	0.00000	0.26862
						10.860	50.95194	41.10801	0.00000	0.37187
						11.332	51.14195	41.54025	0.00000	0.47436
						11.804	51.33196	41.97249	0.00000	0.57754
						12.276	51.52196	42.40474	0.00000	0.68273
						12.748	51.71197	42.83698	0.00000	0.79104
						13.221	51.90198	43.26922	0.00000	0.90343
						13.693	52.09198	43.70147	0.00000	1.0207
						14.165	52.28199	44.13371	0.00000	1.1434
						14.637	52.47199	44.56596	0.00000	1.2721
						15.109	52.66200	44.99820	0.00000	1.4069
		60	10S-08	10S-08	0.0	0.0	52.66200	44.99820	0.00000	1.4069
						0.45225	53.08435	44.83650	0.00000	1.4581
						0.90449	53.50670	44.67480	0.00000	1.5065
						1.3567	53.92905	44.51310	0.00000	1.5516
						1.8090	54.35140	44.35140	0.00000	1.5932
						2.2612	54.77375	44.18970	0.00000	1.6309
						2.7135	55.19610	44.02800	0.00000	1.6645
						3.1657	55.61845	43.86630	0.00000	1.6935
						3.6180	56.04080	43.70460	0.00000	1.7178
						4.0702	56.46315	43.54290	0.00000	1.7371
						4.5225	56.88550	43.38120	0.00000	1.7512
						4.9747	57.30785	43.21950	0.00000	1.7600
						5.4270	57.73020	43.05780	0.00000	1.7632
						5.8792	58.15255	42.89610	0.00000	1.7609
						6.3314	58.57490	42.73440	0.00000	1.7540
						6.7837	58.99725	42.57270	0.00000	1.7498
						7.2359	59.41960	42.41100	0.00000	1.7453
						7.6882	59.84195	42.24930	0.00000	1.7406
						8.1404	60.26430	42.08760	0.00000	1.7357
		61	10S-09	10S-09	0.0	0.0	55.90000	34.60740	0.00000	0.0
						0.43838	56.30750	34.44578	0.00000	0.0
						0.87676	56.71500	34.28416	0.00000	0.0
						1.3151	57.12250	34.12254	0.00000	0.0
						1.7535	57.53000	33.96092	0.00000	0.0
						2.1919	57.93750	33.79930	0.00000	0.0
						2.6303	58.34500	33.63768	0.00000	0.0
						3.0687	58.75250	33.47606	0.00000	0.0
						3.5070	59.16000	33.31444	0.00000	0.0
						3.9454	59.56750	33.15282	0.00000	0.0
						4.3838	59.97500	32.99120	0.00000	0.0
		62	10S-10	10S-10	0.0	0.0	59.97500	32.99120	0.00000	0.0
						0.46737	59.79820	32.55856	0.00000	0.0
						0.93475	59.62140	32.12591	0.00000	0.0
						1.4021	59.44460	31.69327	0.00000	0.0
						1.8695	59.26780	31.26063	0.00000	0.0
						2.3369	59.09100	30.82799	0.00000	0.0
						2.8042	58.91420	30.39534	0.00000	0.0
						3.2716	58.73740	29.96270	0.00000	0.0
						3.7390	58.56060	29.53006	0.00000	0.0
						4.2064	58.38380	29.09741	0.00000	0.0

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						4.6737	58.20700	28.66477	0.00000	0.0
						5.1411	58.03020	28.23213	0.00000	0.0
						5.6085	57.85340	27.79949	0.00000	0.0
						6.0759	57.67660	27.36684	0.00000	0.0
						6.5432	57.49980	26.93420	0.00000	0.0
		63	10S-11	10S-11	0.0	0.0	57.49980	26.93420	0.00000	0.0
						0.45119	57.08077	27.10149	0.00000	0.0
						0.90238	56.66174	27.26878	0.00000	0.0
						1.3536	56.24271	27.43607	0.00000	0.0
						1.8048	55.82368	27.60336	0.00000	0.0
						2.2559	55.40465	27.77065	0.00000	0.0
						2.7071	54.98562	27.93794	0.00000	0.0
						3.1583	54.56659	28.10523	0.00000	0.0
						3.6095	54.14756	28.27252	0.00000	0.0
						4.0607	53.72853	28.43981	0.00000	0.0
						4.5119	53.30950	28.60710	0.00000	0.0
		64	12S-01	12S-01	0.0	0.0	56.42810	52.89730	0.00000	4.6775
						0.49308	56.90271	52.76362	0.00000	4.7862
						0.98615	57.37732	52.62994	0.00000	4.8736
						1.4792	57.85193	52.49626	0.00000	4.9381
						1.9723	58.32654	52.36258	0.00000	5.0725
						2.4654	58.80115	52.22890	0.00000	5.2196
						2.9585	59.27576	52.09522	0.00000	5.3583
						3.4515	59.75037	51.96154	0.00000	5.4880
						3.9446	60.22498	51.82786	0.00000	5.6077
						4.4377	60.69959	51.69418	0.00000	5.7158
						4.9308	61.17420	51.56050	0.00000	5.8037
						5.4238	61.64881	51.42682	0.00000	5.8697
						5.9169	62.12342	51.29314	0.00000	5.9358
						6.4100	62.59803	51.15946	0.00000	6.0170
						6.9031	63.07264	51.02578	0.00000	6.1218
						7.3962	63.54725	50.89210	0.00000	6.2218
						7.8892	64.02186	50.75842	0.00000	6.3178
						8.3823	64.49647	50.62474	0.00000	6.4103
						8.8754	64.97108	50.49106	0.00000	6.4999
						9.3685	65.44569	50.35738	0.00000	6.5872
						9.8615	65.92030	50.22370	0.00000	6.6728
						10.355	66.39491	50.09002	0.00000	6.7572
						10.848	66.86952	49.95634	0.00000	6.8584
						11.341	67.34413	49.82266	0.00000	7.0071
						11.834	67.81874	49.68898	0.00000	7.1552
						12.327	68.29335	49.55530	0.00000	7.2530
						12.820	68.76796	49.42162	0.00000	7.2271
						13.313	69.24257	49.28794	0.00000	7.2015
						13.806	69.71718	49.15426	0.00000	7.1765
						14.299	70.19179	49.02058	0.00000	7.1524
						14.792	70.66640	48.88690	0.00000	7.1293
		65	12S-02	12S-02	0.0	0.0	70.66640	48.88690	0.00000	7.1293
						0.47168	70.47116	48.45752	0.00000	6.9367
						0.94336	70.27592	48.02815	0.00000	6.7194
						1.4150	70.08067	47.59877	0.00000	6.4808
						1.8867	69.88543	47.16940	0.00000	6.2240
						2.3584	69.69019	46.74002	0.00000	5.9522
						2.8301	69.49495	46.31065	0.00000	5.6682
						3.3018	69.29971	45.88128	0.00000	5.3748
						3.7734	69.10447	45.45190	0.00000	5.0746
						4.2451	68.90922	45.02253	0.00000	4.7701
						4.7168	68.71398	44.59315	0.00000	4.4634
						5.1885	68.51874	44.16378	0.00000	4.1567
						5.6602	68.32350	43.73440	0.00000	3.8519
		66	12S-03	12S-03	0.0	0.0	68.32350	43.73440	0.00000	3.8519
						0.27923	68.05865	43.82285	0.00000	3.8576
						0.55846	67.79380	43.91130	0.00000	3.8877
						0.83769	67.52895	43.99975	0.00000	3.9177
						1.1169	67.26410	44.08820	0.00000	3.9477
		67	12S-04	12S-04	0.0	0.0	67.26410	44.08820	0.00000	3.9477
						0.43774	67.10714	43.67957	0.00000	3.6889
						0.87548	66.95018	43.27094	0.00000	3.4349
						1.3132	66.79322	42.86231	0.00000	3.1868
						1.7510	66.63626	42.45368	0.00000	2.9456
						2.1887	66.47930	42.04505	0.00000	2.7122
						2.6264	66.32234	41.63642	0.00000	2.4874
						3.0642	66.16538	41.22779	0.00000	2.2716
						3.5019	66.00842	40.81916	0.00000	2.0651
						3.9396	65.85146	40.41053	0.00000	1.8682
						4.3774	65.69450	40.00190	0.00000	1.6809
		68	12S-05	12S-05	0.0	0.0	65.69450	40.00190	0.00000	1.6809
						0.49007	65.23740	40.17862	0.00000	1.6800
						0.98014	64.78030	40.35534	0.00000	1.6700
						1.4702	64.32320	40.53206	0.00000	1.6781
						1.9603	63.86610	40.70879	0.00000	1.6859
						2.4504	63.40900	40.88551	0.00000	1.6936
						2.9404	62.95190	41.06223	0.00000	1.7011
						3.4305	62.49480	41.23895	0.00000	1.7084
						3.9206	62.03770	41.41567	0.00000	1.7154
						4.4107	61.58060	41.59239	0.00000	1.7222
						4.9007	61.12350	41.76911	0.00000	1.7288
						5.3908	60.66640	41.94584	0.00000	1.7351
						5.8809	60.20930	42.12256	0.00000	1.7412
						6.3709	59.75220	42.29928	0.00000	1.7471
						6.8610	59.29510	42.47600	0.00000	1.7526
						7.3511	58.83800	42.65272	0.00000	1.7580
						7.8412	58.38090	42.82944	0.00000	1.7645
						8.3312	57.92380	43.00616	0.00000	1.7705
						8.8213	57.46670	43.18289	0.00000	1.7700
						9.3114	57.00960	43.35961	0.00000	1.7629
						9.8014	56.55250	43.53633	0.00000	1.7494
						10.292	56.09540	43.71305	0.00000	1.7297
						10.782	55.63830	43.88977	0.00000	1.7041
						11.272	55.18120	44.06649	0.00000	1.6729
						11.762	54.72410	44.24321	0.00000	1.6364
						12.252	54.26700	44.41994	0.00000	1.5949
						12.742	53.80990	44.59666	0.00000	1.5489
						13.232	53.35280	44.77338	0.00000	1.4989
						13.722	52.89570	44.95010	0.00000	1.4452
		69	12S-06	12S-06	0.0	0.0	52.89570	44.95010	0.00000	1.4452
						0.48316	53.09194	45.39161	0.00000	1.5929
						0.96632	53.28819	45.83312	0.00000	1.7473
						1.4495	53.48443	46.27463	0.00000	1.9082
						1.9326	53.68068	46.71614	0.00000	2.0752
						2.4158	53.87692	47.15766	0.00000	2.2476
						2.8990	54.07317	47.59917	0.00000	2.4246
						3.3821	54.26941	48.04068	0.00000	2.6053
						3.8653	54.46566	48.48219	0.00000	2.7886
						4.3484	54.66190	48.92370	0.00000	2.9731
						4.8316	54.85814	49.36521	0.00000	3.1574
						5.3148	55.05439	49.80672	0.00000	3.3400
						5.7979	55.25063	50.24823	0.00000	3.5192
						6.2811	55.44688	50.68974	0.00000	3.7025
						6.7642	55.64312	51.13126	0.00000	3.9023
						7.2474	55.83937	51.57277	0.00000	4.1009
						7.7306	56.03561	52.01428	0.00000	4.2970
						8.2137	56.23186	52.45579	0.00000	4.4896
						8.6969	56.42810	52.89730	0.00000	4.6775
		70	14S-01	14S-01	0.0	0.0	92.77120	50.75620	0.00000	11.043
						0.48973	93.25995	50.72525	0.00000	11.137
						0.97946	93.74870	50.69430	0.00000	11.227
						1.4692	94.23745	50.66335	0.00000	11.311
						1.9589	94.72620	50.63240	0.00000	11.387
						2.4486	95.21495	50.60145	0.00000	11.452

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						2.9384	95.70370	50.57050	0.00000	11.504
						3.4281	96.19245	50.53955	0.00000	11.539
						3.9178	96.68120	50.50860	0.00000	11.622
						4.4076	97.16995	50.47765	0.00000	11.743
						4.8973	97.65870	50.44670	0.00000	11.847
						5.3870	98.14745	50.41575	0.00000	11.933
						5.8767	98.63620	50.38480	0.00000	12.001
		71	14S-02	14S-02	0.0	0.0	98.63620	50.38480	0.00000	12.001
						0.49211	98.62403	49.89284	0.00000	11.510
						0.98421	98.61185	49.40089	0.00000	11.184
						1.4763	98.59968	48.90893	0.00000	10.867
						1.9684	98.58751	48.41697	0.00000	10.543
						2.4605	98.57533	47.92502	0.00000	10.212
						2.9526	98.56316	47.43306	0.00000	9.8745
						3.4448	98.55099	46.94110	0.00000	9.5328
						3.9369	98.53881	46.44915	0.00000	9.1875
						4.4290	98.52664	45.95719	0.00000	8.8398
						4.9211	98.51447	45.46523	0.00000	8.4908
						5.4132	98.50229	44.97328	0.00000	8.1416
						5.9053	98.49012	44.48132	0.00000	7.7936
						6.3974	98.47795	43.98936	0.00000	7.4479
						6.8895	98.46577	43.49741	0.00000	7.1055
						7.3816	98.45360	43.00545	0.00000	6.7677
						7.8737	98.44143	42.51349	0.00000	6.4354
						8.3658	98.42925	42.02154	0.00000	6.1096
						8.8579	98.41708	41.52958	0.00000	5.7912
						9.3500	98.40491	41.03762	0.00000	5.4809
						9.8421	98.39273	40.54567	0.00000	5.1796
						10.334	98.38056	40.05371	0.00000	4.8878
						10.826	98.36839	39.56175	0.00000	4.6059
						11.318	98.35621	39.06980	0.00000	4.3343
						11.811	98.34404	38.57784	0.00000	4.0732
						12.303	98.33187	38.08588	0.00000	3.8228
						12.795	98.31969	37.59393	0.00000	3.5828
						13.287	98.30752	37.10197	0.00000	3.3532
						13.779	98.29535	36.61001	0.00000	3.1336
						14.271	98.28317	36.11806	0.00000	2.9233
						14.763	98.27100	35.62610	0.00000	2.7218
		72	14S-03	14S-03	0.0	0.0	98.27100	35.62610	0.00000	2.7218
						0.43680	97.83503	35.65297	0.00000	2.7305
						0.87360	97.39906	35.67984	0.00000	2.7352
						1.3104	96.96309	35.70671	0.00000	2.7357
						1.7472	96.52711	35.73359	0.00000	2.7321
						2.1840	96.09114	35.76046	0.00000	2.7243
						2.6208	95.65517	35.78733	0.00000	2.7123
						3.0576	95.21920	35.81420	0.00000	2.6959
						3.4944	94.78323	35.84107	0.00000	2.6752
						3.9312	94.34726	35.86794	0.00000	2.6500
						4.3680	93.91129	35.89481	0.00000	2.6202
						4.8048	93.47531	35.92169	0.00000	2.5857
						5.2416	93.03934	35.94856	0.00000	2.5463
						5.6784	92.60337	35.97543	0.00000	2.5019
						6.1152	92.16740	36.00230	0.00000	2.4524
		73	14S-04	14S-04	0.0	0.0	92.16740	36.00230	0.00000	2.4524
						0.37863	92.20622	35.62567	0.00000	2.3133
						0.75726	92.24503	35.24903	0.00000	2.1732
						1.1359	92.28385	34.87240	0.00000	2.0254
						1.5145	92.32267	34.49577	0.00000	1.9071
						1.8931	92.36148	34.11913	0.00000	1.7906
						2.2718	92.40030	33.74250	0.00000	1.6757
		74	14S-05	14S-05	0.0	0.0	92.40030	33.74250	0.00000	1.6757
						0.41939	91.98313	33.69950	0.00000	1.6266
						0.83877	91.56595	33.65650	0.00000	1.5750
						1.2582	91.14878	33.61350	0.00000	1.5210
						1.6775	90.73160	33.57050	0.00000	1.4649
						2.0969	90.31442	33.52750	0.00000	1.4508
						2.5163	89.89725	33.48450	0.00000	1.4344
						2.9357	89.48007	33.44150	0.00000	1.4159
						3.3551	89.06290	33.39850	0.00000	1.3954
						3.7745	88.64572	33.35550	0.00000	1.3730
						4.1939	88.22855	33.31250	0.00000	1.3489
						4.6132	87.81137	33.26950	0.00000	1.3233
						5.0326	87.39420	33.22650	0.00000	1.2961
		75	14S-06	14S-06	0.0	0.0	87.39420	33.22650	0.00000	1.2961
						0.41438	86.98952	33.13740	0.00000	1.2610
						0.82875	86.58483	33.04830	0.00000	1.2250
						1.2431	86.18015	32.95920	0.00000	1.1884
						1.6575	85.77547	32.87010	0.00000	1.1512
						2.0719	85.37078	32.78100	0.00000	1.1135
						2.4863	84.96610	32.69190	0.00000	1.0755
		76	14S-07	14S-07	0.0	0.0	84.96610	32.69190	0.00000	1.0755
						0.45451	84.91494	33.14352	0.00000	1.1358
						0.90902	84.86377	33.59514	0.00000	1.2258
						1.3635	84.81261	34.04676	0.00000	1.3884
						1.8180	84.76144	34.49839	0.00000	1.5500
						2.2726	84.71028	34.95001	0.00000	1.7117
						2.7271	84.65911	35.40163	0.00000	1.8744
						3.1816	84.60795	35.85325	0.00000	2.0389
						3.6361	84.55679	36.30487	0.00000	2.2060
						4.0906	84.50562	36.75649	0.00000	2.3761
						4.5451	84.45446	37.20811	0.00000	2.5499
						4.9996	84.40329	37.65974	0.00000	2.7276
						5.4541	84.35213	38.11136	0.00000	2.9097
						5.9086	84.30096	38.56298	0.00000	3.0963
						6.3631	84.24980	39.01460	0.00000	3.2874
		77	14S-08	14S-08	0.0	0.0	84.24980	39.01460	0.00000	3.2874
						0.47266	84.72059	39.05661	0.00000	3.3029
						0.94533	85.19139	39.09861	0.00000	3.3160
						1.4180	85.66218	39.14062	0.00000	3.3268
						1.8907	86.13297	39.18263	0.00000	3.3802
						2.3633	86.60377	39.22463	0.00000	3.4349
						2.8360	87.07456	39.26664	0.00000	3.4871
						3.3086	87.54536	39.30864	0.00000	3.5368
						3.7813	88.01615	39.35065	0.00000	3.5889
						4.2540	88.48694	39.39266	0.00000	3.6570
						4.7266	88.95774	39.43466	0.00000	3.7185
						5.1993	89.42853	39.47667	0.00000	3.7740
						5.6720	89.89933	39.51868	0.00000	3.8235
						6.1446	90.37012	39.56068	0.00000	3.8674
						6.6173	90.84091	39.60269	0.00000	3.9057
						7.0900	91.31171	39.64469	0.00000	3.9382
						7.5626	91.78250	39.68670	0.00000	3.9649
		78	14S-09	14S-09	0.0	0.0	91.78250	39.68670	0.00000	3.9649
						0.45206	91.74112	40.13687	0.00000	4.2110
						0.90413	91.69975	40.58703	0.00000	4.4572
						1.3562	91.65838	41.03720	0.00000	4.7039
						1.8083	91.61700	41.48737	0.00000	4.9512
						2.2603	91.57563	41.93753	0.00000	5.1993
						2.7124	91.53425	42.38770	0.00000	5.4481
						3.1644	91.49287	42.83787	0.00000	5.6977
						3.6165	91.45150	43.28803	0.00000	5.9478
						4.0686	91.41012	43.73820	0.00000	6.1983
						4.5206	91.36875	44.18837	0.00000	6.4489
						4.9727	91.32738	44.63853	0.00000	6.6991
						5.4248	91.28600	45.08870	0.00000	6.9487
		79	14S-10	14S-10	0.0	0.0	91.28600	45.08870	0.00000	6.9487
						0.36863	91.65398	45.11068	0.00000	6.9994
						0.73726	92.02195	45.13265	0.00000	7.0512
						1.1059	92.38993	45.15463	0.00000	7.1039
						1.4745	92.75790	45.17660	0.00000	7.1573

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
		80	14S-11	14S-11	0.0	0.0	92.75790	45.17660	0.00000	7.1573
						0.46497	92.75901	45.64157	0.00000	7.4330
						0.92994	92.76012	46.10653	0.00000	7.7074
						1.3949	92.76122	46.57150	0.00000	7.9801
						1.8599	92.76233	47.03647	0.00000	8.3181
						2.3248	92.76344	47.50143	0.00000	8.6609
						2.7898	92.76455	47.96640	0.00000	9.0044
						3.2548	92.76566	48.43137	0.00000	9.3481
						3.7197	92.76677	48.89633	0.00000	9.6912
						4.1847	92.76788	49.36130	0.00000	10.033
						4.6497	92.76898	49.82627	0.00000	10.373
						5.1146	92.77009	50.29123	0.00000	10.710
						5.5796	92.77120	50.75620	0.00000	11.043
		81	14S-12	14S-12	0.0	0.0	91.78250	39.68670	0.00000	3.9649
						0.46306	91.83061	39.22615	0.00000	3.7128
						0.92611	91.87873	38.76560	0.00000	3.4792
						1.3892	91.92684	38.30505	0.00000	3.3049
						1.8522	91.97495	37.84450	0.00000	3.1324
						2.3153	92.02306	37.38395	0.00000	2.9614
						2.7783	92.07117	36.92340	0.00000	2.7913
						3.2414	92.11929	36.46285	0.00000	2.6219
						3.7045	92.16740	36.00230	0.00000	2.4524
		82	18S-01	18S-01	0.0	0.0	81.33400	88.63190	0.00000	5.0859
						0.49752	81.61613	89.04169	0.00000	4.9616
						0.99503	81.89826	89.45148	0.00000	4.8308
						1.4926	82.18038	89.86127	0.00000	4.6988
						1.9901	82.46251	90.27106	0.00000	4.5945
						2.4876	82.74464	90.68084	0.00000	4.4882
						2.9851	83.02677	91.09063	0.00000	4.3800
						3.4826	83.30889	91.50042	0.00000	4.2701
						3.9801	83.59102	91.91021	0.00000	4.1586
						4.4777	83.87315	92.32000	0.00000	4.0455
						4.9752	84.15528	92.72979	0.00000	3.9310
						5.4727	84.43741	93.13958	0.00000	3.8150
						5.9702	84.71953	93.54937	0.00000	3.6974
						6.4677	85.00166	93.95916	0.00000	3.5782
						6.9652	85.28379	94.36894	0.00000	3.4571
						7.4628	85.56592	94.77873	0.00000	3.3340
						7.9603	85.84804	95.18852	0.00000	3.2087
						8.4578	86.13017	95.59831	0.00000	3.0808
						8.9553	86.41230	96.00810	0.00000	2.9501
		83	18S-02	18S-02	0.0	0.0	86.41230	96.00810	0.00000	2.9501
						0.48923	86.82094	95.73911	0.00000	3.1395
						0.97846	87.22959	95.47012	0.00000	3.3345
						1.4677	87.63823	95.20114	0.00000	3.5352
						1.9569	88.04688	94.93215	0.00000	3.7418
						2.4461	88.45552	94.66316	0.00000	3.9543
						2.9354	88.86416	94.39418	0.00000	4.1729
						3.4246	89.27281	94.12519	0.00000	4.3976
						3.9138	89.68145	93.85620	0.00000	4.6283
						4.4031	90.09009	93.58721	0.00000	4.8652
						4.8923	90.49874	93.31822	0.00000	5.1081
						5.3815	90.90738	93.04924	0.00000	5.3653
						5.8707	91.31602	92.78025	0.00000	5.6413
						6.3600	91.72467	92.51126	0.00000	5.9230
						6.8492	92.13331	92.24228	0.00000	6.2099
						7.3384	92.54196	91.97329	0.00000	6.5018
						7.8276	92.95060	91.70430	0.00000	6.8091
		84	18S-03	18S-03	0.0	0.0	92.95060	91.70430	0.00000	6.8091
						0.35410	92.75592	91.40858	0.00000	6.9422
						0.70821	92.56103	91.11287	0.00000	7.0812
						1.0623	92.36625	90.81715	0.00000	7.2154
						1.4164	92.17147	90.52143	0.00000	7.3452
						1.7705	91.97668	90.22572	0.00000	7.4708
						2.1246	91.78190	89.93000	0.00000	7.5924
		85	18S-04	18S-04	0.0	0.0	91.78190	89.93000	0.00000	7.5924
						0.43664	91.41813	90.17150	0.00000	7.3095
						0.87328	91.05435	90.41300	0.00000	7.0316
						1.3099	90.69057	90.65450	0.00000	6.7589
						1.7466	90.32680	90.89600	0.00000	6.4914
		86	18S-05	18S-05	0.0	0.0	90.32680	90.89600	0.00000	6.4914
						0.49179	90.05324	90.48731	0.00000	6.6435
						0.98359	89.77967	90.07863	0.00000	6.7910
						1.4754	89.50611	89.66994	0.00000	6.9344
						1.9672	89.23254	89.26126	0.00000	7.0743
						2.4590	88.95898	88.85257	0.00000	7.2111
						2.9508	88.68541	88.44389	0.00000	7.3453
						3.4426	88.41185	88.03520	0.00000	7.4774
						3.9344	88.13829	87.62651	0.00000	7.6078
						4.4261	87.86472	87.21783	0.00000	7.7372
						4.9179	87.59116	86.80914	0.00000	7.8663
						5.4097	87.31759	86.40046	0.00000	7.9943
						5.9015	87.04403	85.99177	0.00000	8.1216
						6.3933	86.77046	85.58309	0.00000	8.2483
						6.8851	86.49690	85.17440	0.00000	8.3607
		87	20S-01	20S-01	0.0	0.0	86.41230	96.00810	0.00000	2.9501
						0.37387	86.09843	96.21123	0.00000	2.8097
						0.74773	85.78457	96.41437	0.00000	2.6724
						1.1216	85.47070	96.61750	0.00000	2.5380
						1.4955	85.15683	96.82063	0.00000	2.4064
						1.8693	84.84297	97.02377	0.00000	2.2776
						2.2432	84.52910	97.22690	0.00000	2.1513
		88	20S-02	20S-02	0.0	0.0	84.52910	97.22690	0.00000	2.1513
						0.44166	84.77199	97.59577	0.00000	2.0412
						0.88331	85.01487	97.96464	0.00000	1.9290
						1.3250	85.25776	98.33351	0.00000	1.8232
						1.7666	85.50064	98.70239	0.00000	1.7981
						2.2083	85.74353	99.07126	0.00000	1.7715
						2.6499	85.98641	99.44013	0.00000	1.7436
						3.0916	86.22930	99.80900	0.00000	1.7144
						3.5332	86.47219	100.17787	0.00000	1.6840
						3.9749	86.71507	100.54674	0.00000	1.6525
						4.4166	86.95796	100.91561	0.00000	1.6200
						4.8582	87.20084	101.28449	0.00000	1.5865
						5.2999	87.44373	101.65336	0.00000	1.5521
						5.7415	87.68661	102.02223	0.00000	1.5169
						6.1832	87.92950	102.39110	0.00000	1.4810
		89	20S-03	20S-03	0.0	0.0	87.92950	102.39110	0.00000	1.4810
						0.45803	88.31205	102.13921	0.00000	1.5918
						0.91605	88.69459	101.88733	0.00000	1.7068
						1.3741	89.07714	101.63544	0.00000	1.8262
						1.8321	89.45968	101.38355	0.00000	1.9501
						2.2901	89.84223	101.13167	0.00000	2.0787
						2.7482	90.22477	100.87978	0.00000	2.2120
						3.2062	90.60732	100.62790	0.00000	2.3502
						3.6642	90.98986	100.37601	0.00000	2.4933
						4.1222	91.37241	100.12412	0.00000	2.6414
						4.5803	91.75495	99.87224	0.00000	2.7944
						5.0383	92.13750	99.62035	0.00000	2.9524
						5.4963	92.52005	99.36846	0.00000	3.1153
						5.9543	92.90259	99.11658	0.00000	3.2831
						6.4124	93.28514	98.86469	0.00000	3.4556
						6.8704	93.66768	98.61280	0.00000	3.6328
						7.3284	94.05023	98.36092	0.00000	3.8145
						7.7864	94.43277	98.10903	0.00000	4.0005
						8.2445	94.81532	97.85715	0.00000	4.2150
						8.7025	95.19786	97.60526	0.00000	4.4437
						9.1605	95.58041	97.35337	0.00000	4.6764
						9.6185	95.96295	97.10149	0.00000	4.9130
						10.077	96.34550	96.84960	0.00000	5.1531

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
		90	20S-04	20S-04	0.0	0.0	96.34550	96.84960	0.00000	5.1531
						0.44039	96.10331	96.48179	0.00000	5.2924
						0.88078	95.86113	96.11397	0.00000	5.4294
						1.3212	95.61894	95.74616	0.00000	5.5639
						1.7616	95.37676	95.37834	0.00000	5.6957
						2.2019	95.13457	95.01053	0.00000	5.8246
						2.6423	94.89239	94.64271	0.00000	5.9503
						3.0827	94.65020	94.27490	0.00000	6.0725
						3.5231	94.40801	93.90709	0.00000	6.1911
						3.9635	94.16583	93.53927	0.00000	6.3058
						4.4039	93.92364	93.17146	0.00000	6.4164
						4.8443	93.68146	92.80364	0.00000	6.5227
						5.2847	93.43927	92.43583	0.00000	6.6244
						5.7250	93.19709	92.06801	0.00000	6.7214
						6.1654	92.95490	91.70020	0.00000	6.8134
		91	20S-05	20S-05	0.0	0.0	87.93150	102.38980	0.00000	1.4815
						0.43506	88.17202	102.75233	0.00000	1.4458
						0.87012	88.41253	103.11487	0.00000	1.4096
						1.3052	88.65305	103.47740	0.00000	1.3728
						1.7402	88.89357	103.83993	0.00000	1.3356
						2.1753	89.13408	104.20247	0.00000	1.2980
						2.6104	89.37460	104.56500	0.00000	1.2602
		92	20S-06	20S-06	0.0	0.0	89.37460	104.56500	0.00000	1.2602
						0.45769	89.76970	104.33398	0.00000	1.3526
						0.91538	90.16481	104.10295	0.00000	1.4479
						1.3731	90.55991	103.87193	0.00000	1.5462
						1.8308	90.95502	103.64091	0.00000	1.6476
						2.2884	91.35012	103.40989	0.00000	1.7523
						2.7461	91.74523	103.17886	0.00000	1.8601
						3.2038	92.14033	102.94784	0.00000	1.9713
						3.6615	92.53544	102.71682	0.00000	2.0858
						4.1192	92.93054	102.48580	0.00000	2.2035
						4.5769	93.32565	102.25477	0.00000	2.3246
						5.0346	93.72075	102.02375	0.00000	2.4488
						5.4923	94.11585	101.79273	0.00000	2.5761
						5.9500	94.51096	101.56170	0.00000	2.7064
						6.4076	94.90606	101.33068	0.00000	2.8396
						6.8653	95.30117	101.09966	0.00000	2.9755
						7.3230	95.69627	100.86864	0.00000	3.1139
						7.7807	96.09138	100.63761	0.00000	3.2546
						8.2384	96.48648	100.40659	0.00000	3.3974
						8.6961	96.88159	100.17557	0.00000	3.5458
						9.1538	97.27669	99.94455	0.00000	3.7318
						9.6115	97.67180	99.71352	0.00000	3.9198
						10.069	98.06690	99.48250	0.00000	4.1092
		93	20S-07	20S-07	0.0	0.0	98.06690	99.48250	0.00000	4.1092
						0.39321	97.85066	99.15409	0.00000	4.2418
						0.78642	97.63443	98.82568	0.00000	4.3740
						1.1796	97.41819	98.49726	0.00000	4.5054
						1.5728	97.20195	98.16885	0.00000	4.6361
						1.9660	96.98571	97.84044	0.00000	4.7658
						2.3593	96.76947	97.51202	0.00000	4.8945
						2.7525	96.55324	97.18361	0.00000	5.0218
						3.1457	96.33700	96.85520	0.00000	5.1477
		94	HT-01	HT-01	0.0	0.0	89.37270	104.57010	0.00000	1.2590
						0.28136	89.13047	104.71325	0.00000	1.2034
						0.56273	88.88825	104.85640	0.00000	1.1489
						0.84409	88.64603	104.99955	0.00000	1.0952
						1.1255	88.40380	105.14270	0.00000	1.0425
		95	HT-02	HT-02	0.0	0.0	88.40380	105.14270	0.00000	1.0425
						0.47611	88.64137	105.55530	0.00000	1.0017
						0.95221	88.87894	105.96789	0.00000	0.96105
						1.4283	89.11652	106.38049	0.00000	0.92051
						1.9044	89.35409	106.79309	0.00000	0.88018
						2.3805	89.59166	107.20569	0.00000	0.84009
						2.8566	89.82923	107.61828	0.00000	0.80030
						3.3327	90.06681	108.03088	0.00000	0.76084
						3.8088	90.30438	108.44348	0.00000	0.72174
						4.2850	90.54195	108.85608	0.00000	0.68304
						4.7611	90.77952	109.26867	0.00000	0.64475
						5.2372	91.01709	109.68127	0.00000	0.60690
						5.7133	91.25467	110.09387	0.00000	0.56949
						6.1894	91.49224	110.50646	0.00000	0.53428
						6.6655	91.72981	110.91906	0.00000	0.49980
						7.1416	91.96738	111.33166	0.00000	0.46559
						7.6177	92.20496	111.74426	0.00000	0.43164
						8.0938	92.44253	112.15685	0.00000	0.39792
						8.5699	92.68010	112.56945	0.00000	0.36441
						9.0460	92.91767	112.98205	0.00000	0.33105
						9.5221	93.15524	113.39464	0.00000	0.29780
						9.9982	93.39282	113.80724	0.00000	0.26460
						10.474	93.63039	114.21984	0.00000	0.23140
						10.950	93.86796	114.63244	0.00000	0.19811
						11.427	94.10553	115.04503	0.00000	0.16466
						11.903	94.34311	115.45763	0.00000	0.13094
						12.379	94.58068	115.87023	0.00000	0.11920
						12.855	94.81825	116.28283	0.00000	0.11179
						13.331	95.05582	116.69542	0.00000	0.10442
						13.807	95.29339	117.10802	0.00000	0.097045
						14.283	95.53097	117.52062	0.00000	0.089636
						14.759	95.76854	117.93321	0.00000	0.082153
						15.235	96.00611	118.34581	0.00000	0.074556
						15.712	96.24368	118.75841	0.00000	0.066805
						16.188	96.48126	119.17101	0.00000	0.058861
						16.664	96.71883	119.58360	0.00000	0.050682
						17.140	96.95640	119.99620	0.00000	0.042228
		96	HT-03	HT-03	0.0	0.0	96.95640	119.99620	0.00000	0.042228
						0.48235	97.37429	119.75529	0.00000	0.051875
						0.96471	97.79217	119.51438	0.00000	0.060284
						1.4471	98.21006	119.27347	0.00000	0.067636
						1.9294	98.62795	119.03256	0.00000	0.074099
						2.4118	99.04583	118.79165	0.00000	0.079825
						2.8941	99.46372	118.55075	0.00000	0.084952
						3.3765	99.88160	118.30984	0.00000	0.089601
						3.8588	100.29949	118.06893	0.00000	0.11895
						4.3412	100.71738	117.82802	0.00000	0.15663
						4.8235	101.13526	117.58711	0.00000	0.19208
						5.3059	101.55315	117.34620	0.00000	0.22549
						5.7883	101.97104	117.10529	0.00000	0.25706
						6.2706	102.38892	116.86438	0.00000	0.28696
						6.7530	102.80681	116.62347	0.00000	0.31533
						7.2353	103.22470	116.38256	0.00000	0.34233
						7.7177	103.64258	116.14165	0.00000	0.36807
						8.2000	104.06047	115.90075	0.00000	0.39267
						8.6824	104.47835	115.65984	0.00000	0.41622
						9.1647	104.89624	115.41893	0.00000	0.43880
						9.6471	105.31413	115.17802	0.00000	0.46048
						10.129	105.73201	114.93711	0.00000	0.48131
						10.612	106.14990	114.69620	0.00000	0.50134
		97	HT-04	HT-04	0.0	0.0	106.14990	114.69620	0.00000	0.50134
						0.47693	105.91119	114.28331	0.00000	0.54268
						0.95385	105.67248	113.87042	0.00000	0.58636
						1.4308	105.43377	113.45753	0.00000	0.63250
						1.9077	105.19507	113.04464	0.00000	0.68124
						2.3846	104.95636	112.63176	0.00000	0.73267
						2.8616	104.71765	112.21887	0.00000	0.78690
						3.3385	104.47894	111.80598	0.00000	0.84399
						3.8154	104.24023	111.39309	0.00000	0.90402
						4.2923	104.00153	110.98020	0.00000	0.96705
						4.7693	103.76282	110.56731	0.00000	1.0331

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						5.2462	103.52411	110.15442	0.00000	1.1023
						5.7231	103.28540	109.74153	0.00000	1.1745
						6.2000	103.04669	109.32864	0.00000	1.2499
						6.6770	102.80798	108.91576	0.00000	1.3283
						7.1539	102.56928	108.50287	0.00000	1.4099
						7.6308	102.33057	108.08998	0.00000	1.4945
						8.1078	102.09186	107.67709	0.00000	1.5822
						8.5847	101.85315	107.26420	0.00000	1.6728
						9.0616	101.61444	106.85131	0.00000	1.7664
						9.5385	101.37573	106.43842	0.00000	1.8629
						10.015	101.13702	106.02553	0.00000	1.9622
						10.492	100.89832	105.61264	0.00000	2.0642
						10.969	100.65961	105.19976	0.00000	2.1687
						11.446	100.42090	104.78687	0.00000	2.2758
						11.923	100.18219	104.37398	0.00000	2.3853
						12.400	99.94348	103.96109	0.00000	2.4971
						12.877	99.70477	103.54820	0.00000	2.6109
						13.354	99.46607	103.13531	0.00000	2.7268
						13.831	99.22736	102.72242	0.00000	2.8445
						14.308	98.98865	102.30953	0.00000	2.9638
						14.785	98.74994	101.89664	0.00000	3.0847
						15.262	98.51123	101.48376	0.00000	3.2088
						15.739	98.27253	101.07087	0.00000	3.3510
						16.216	98.03382	100.65798	0.00000	3.5111
						16.692	97.79511	100.24509	0.00000	3.6748
						17.169	97.55640	99.83220	0.00000	3.8389
		98	22S-01	22S-01	0.0	0.0	111.36030	124.06920	0.00000	0.0089679
						0.47735	111.81115	123.91236	0.00000	0.0094327
						0.95470	112.26200	123.75551	0.00000	0.0095619
						1.4321	112.71285	123.59867	0.00000	0.0093841
						1.9094	113.16370	123.44183	0.00000	0.0089248
						2.3868	113.61455	123.28499	0.00000	0.0082068
						2.8641	114.06540	123.12814	0.00000	0.0072506
						3.3415	114.51625	122.97130	0.00000	0.0060742
						3.8188	114.96710	122.81446	0.00000	0.0046938
						4.2962	115.41795	122.65761	0.00000	0.0031236
						4.7735	115.86880	122.50077	0.00000	0.0013763
						5.2509	116.31965	122.34393	0.00000	0.0
						5.7282	116.77050	122.18709	0.00000	0.0
						6.2056	117.22135	122.03024	0.00000	0.0
						6.6829	117.67220	121.87340	0.00000	0.0
		99	22S-02	22S-02	0.0	0.0	117.67220	121.87340	0.00000	0.0
						0.49713	117.50862	121.40396	0.00000	0.0
						0.99425	117.34504	120.93452	0.00000	0.025979
						1.4914	117.18146	120.46507	0.00000	0.048972
						1.9885	117.01788	119.99563	0.00000	0.069033
						2.4856	116.85430	119.52619	0.00000	0.086664
						2.9828	116.69073	119.05675	0.00000	0.10235
						3.4799	116.52715	118.58731	0.00000	0.11655
						3.9770	116.36357	118.11787	0.00000	0.12970
						4.4741	116.19999	117.64843	0.00000	0.14222
						4.9713	116.03641	117.17898	0.00000	0.15871
						5.4684	115.87283	116.70954	0.00000	0.17635
						5.9655	115.70925	116.24010	0.00000	0.19551
						6.4626	115.54567	115.77066	0.00000	0.21659
						6.9598	115.38209	115.30122	0.00000	0.23999
						7.4569	115.21851	114.83178	0.00000	0.26608
						7.9540	115.05493	114.36233	0.00000	0.29522
						8.4511	114.89135	113.89289	0.00000	0.32775
						8.9483	114.72778	113.42345	0.00000	0.36400
						9.4454	114.56420	112.95401	0.00000	0.40428
						9.9425	114.40062	112.48457	0.00000	0.44887
						10.440	114.23704	112.01513	0.00000	0.49806
						10.937	114.07346	111.54568	0.00000	0.55209
						11.434	113.90988	111.07624	0.00000	0.61122
						11.931	113.74630	110.60680	0.00000	0.67567
		100	22S-03	22S-03	0.0	0.0	113.74630	110.60680	0.00000	0.67567
						0.47885	113.29409	110.76428	0.00000	0.68682
						0.95770	112.84187	110.92176	0.00000	0.69614
						1.4365	112.38966	111.07924	0.00000	0.70367
						1.9154	111.93744	111.23671	0.00000	0.70944
						2.3942	111.48523	111.39419	0.00000	0.71350
						2.8731	111.03301	111.55167	0.00000	0.71590
						3.3519	110.58080	111.70915	0.00000	0.71668
						3.8308	110.12859	111.86663	0.00000	0.71590
						4.3096	109.67637	112.02411	0.00000	0.71361
						4.7885	109.22416	112.18159	0.00000	0.70985
						5.2673	108.77194	112.33906	0.00000	0.70469
						5.7462	108.31973	112.49654	0.00000	0.69816
						6.2250	107.86751	112.65402	0.00000	0.69033
						6.7039	107.41530	112.81150	0.00000	0.68124
		101	22S-04	22S-04	0.0	0.0	107.41530	112.81150	0.00000	0.68124
						0.49704	107.57968	113.28057	0.00000	0.62548
						0.99408	107.74405	113.74964	0.00000	0.57356
						1.4911	107.90842	114.21871	0.00000	0.52523
						1.9882	108.07280	114.68778	0.00000	0.48022
						2.4852	108.23718	115.15685	0.00000	0.43824
						2.9822	108.40155	115.62592	0.00000	0.39900
						3.4793	108.56592	116.09500	0.00000	0.36218
						3.9763	108.73030	116.56407	0.00000	0.32745
						4.4733	108.89468	117.03314	0.00000	0.29446
						4.9704	109.05905	117.50221	0.00000	0.26284
						5.4674	109.22342	117.97128	0.00000	0.23221
						5.9645	109.38780	118.44035	0.00000	0.20216
						6.4615	109.55218	118.90942	0.00000	0.17229
						6.9585	109.71655	119.37849	0.00000	0.14215
						7.4556	109.88092	119.84756	0.00000	0.11128
						7.9526	110.04530	120.31663	0.00000	0.079233
						8.4496	110.20968	120.78570	0.00000	0.045507
						8.9467	110.37405	121.25477	0.00000	0.030031
						9.4437	110.53842	121.72385	0.00000	0.026443
						9.9408	110.70280	122.19292	0.00000	0.022942
						10.438	110.86718	122.66199	0.00000	0.019482
						10.935	111.03155	123.13106	0.00000	0.016022
						11.432	111.19592	123.60013	0.00000	0.012526
						11.929	111.36030	124.06920	0.00000	0.0089679
		102	23K-01	23K-01	0.0	0.0	126.87040	106.75440	0.00000	1.2559
						0.48606	126.41078	106.91251	0.00000	1.1876
						0.97212	125.95115	107.07062	0.00000	1.1201
						1.4582	125.49152	107.22872	0.00000	1.0536
						1.9442	125.03190	107.38683	0.00000	1.0096
						2.4303	124.57228	107.54494	0.00000	0.97650
						2.9164	124.11265	107.70305	0.00000	0.94423
						3.4024	123.65302	107.86116	0.00000	0.91282
						3.8885	123.19340	108.01927	0.00000	0.88225
						4.3745	122.73378	108.17738	0.00000	0.85252
						4.8606	122.27415	108.33548	0.00000	0.82360
						5.3466	121.81453	108.49359	0.00000	0.79550
						5.8327	121.35490	108.65170	0.00000	0.76820
		103	23K-02	23K-02	0.0	0.0	121.35490	108.65170	0.00000	0.76820
						0.48330	121.51257	109.10856	0.00000	0.70829
						0.96659	121.67024	109.56541	0.00000	0.65227
						1.4499	121.82791	110.02227	0.00000	0.60009
						1.9332	121.98558	110.47912	0.00000	0.55167
						2.4165	122.14325	110.93597	0.00000	0.50692
						2.8998	122.30092	111.39283	0.00000	0.46571
						3.3831	122.45859	111.84969	0.00000	0.42793
						3.8664	122.61626	112.30654	0.00000	0.39343
						4.3497	122.77393	112.76340	0.00000	0.36203
						4.8330	122.93160	113.22025	0.00000	0.33355

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						5.3163	123.08927	113.67710	0.00000	0.30780
						5.7996	123.24694	114.13396	0.00000	0.28455
						6.2829	123.40461	114.59081	0.00000	0.26355
						6.7662	123.56228	115.04767	0.00000	0.24456
						7.2495	123.71995	115.50453	0.00000	0.22728
						7.7328	123.87762	115.96138	0.00000	0.21143
						8.2161	124.03529	116.41823	0.00000	0.19669
						8.6994	124.19296	116.87509	0.00000	0.18272
						9.1826	124.35063	117.33194	0.00000	0.16916
						9.6659	124.50830	117.78880	0.00000	0.15564
		104	23K-03	23K-03	0.0	0.0	124.50830	117.78880	0.00000	0.15564
						0.48785	124.97028	117.63206	0.00000	0.16140
						0.97570	125.43227	117.47532	0.00000	0.16721
						1.4635	125.89425	117.31857	0.00000	0.17306
						1.9514	126.35623	117.16183	0.00000	0.17899
						2.4392	126.81822	117.00509	0.00000	0.18501
						2.9271	127.28020	116.84835	0.00000	0.19113
						3.4149	127.74218	116.69161	0.00000	0.19737
						3.9028	128.20417	116.53487	0.00000	0.20375
						4.3906	128.66615	116.37812	0.00000	0.21028
						4.8785	129.12813	116.22138	0.00000	0.21698
						5.3663	129.59012	116.06464	0.00000	0.22387
						5.8542	130.05210	115.90790	0.00000	0.23097
		105	23K-04	23K-04	0.0	0.0	130.24640	116.47000	0.00000	0.21127
						0.43187	130.65443	116.32850	0.00000	0.21731
						0.86374	131.06247	116.18700	0.00000	0.22349
						1.2956	131.47050	116.04550	0.00000	0.22984
						1.7275	131.87853	115.90400	0.00000	0.23635
						2.1594	132.28657	115.76250	0.00000	0.24305
						2.5912	132.69460	115.62100	0.00000	0.24994
						3.0231	133.10263	115.47950	0.00000	0.25704
						3.4550	133.51067	115.33800	0.00000	0.26436
						3.8868	133.91870	115.19650	0.00000	0.27192
						4.3187	134.32673	115.05500	0.00000	0.27973
						4.7506	134.73477	114.91350	0.00000	0.28779
						5.1825	135.14280	114.77200	0.00000	0.29613
		106	23K-05	23K-05	0.0	0.0	135.32920	115.30920	0.00000	0.27137
						0.46218	135.76587	115.15775	0.00000	0.27966
						0.92437	136.20253	115.00630	0.00000	0.28824
						1.3866	136.63920	114.85485	0.00000	0.29713
						1.8487	137.07587	114.70340	0.00000	0.30635
						2.3109	137.51253	114.55195	0.00000	0.31591
						2.7731	137.94920	114.40050	0.00000	0.32582
						3.2353	138.38587	114.24905	0.00000	0.33611
						3.6975	138.82253	114.09760	0.00000	0.34679
						4.1597	139.25920	113.94615	0.00000	0.35788
						4.6218	139.69587	113.79470	0.00000	0.36939
						5.0840	140.13253	113.64325	0.00000	0.38133
						5.5462	140.56920	113.49180	0.00000	0.39374
		107	23K-06	23K-06	0.0	0.0	140.75790	114.06100	0.00000	0.35658
						0.44539	141.17871	113.91508	0.00000	0.36754
						0.89078	141.59952	113.76917	0.00000	0.37725
						1.3362	142.02033	113.62325	0.00000	0.38720
						1.7816	142.44113	113.47733	0.00000	0.39750
						2.2269	142.86194	113.33142	0.00000	0.40814
						2.6723	143.28275	113.18550	0.00000	0.41913
						3.1177	143.70356	113.03958	0.00000	0.43049
						3.5631	144.12437	112.89367	0.00000	0.44222
						4.0085	144.54518	112.74775	0.00000	0.45433
						4.4539	144.96598	112.60183	0.00000	0.46684
						4.8993	145.38679	112.45592	0.00000	0.47974
						5.3447	145.80760	112.31000	0.00000	0.49306
		108	23K-07	23K-07	0.0	0.0	145.92710	112.67510	0.00000	0.46052
						0.46129	146.36303	112.52428	0.00000	0.47366
						0.92257	146.79897	112.37345	0.00000	0.48723
						1.3839	147.23490	112.22262	0.00000	0.50124
						1.8451	147.67083	112.07180	0.00000	0.51570
						2.3064	148.10677	111.92097	0.00000	0.53062
						2.7677	148.54270	111.77015	0.00000	0.54601
						3.2290	148.97863	111.61933	0.00000	0.56187
						3.6903	149.41457	111.46850	0.00000	0.57821
						4.1516	149.85050	111.31768	0.00000	0.59505
						4.6129	150.28643	111.16685	0.00000	0.61238
						5.0742	150.72237	111.01602	0.00000	0.63022
						5.5354	151.15830	110.86520	0.00000	0.64857
		109	23K-08	23K-08	0.0	0.0	151.15830	110.86520	0.00000	0.64857
						0.49250	150.99728	110.39977	0.00000	0.70847
						0.98500	150.83625	109.93434	0.00000	0.77349
						1.4775	150.67523	109.46891	0.00000	0.84377
						1.9700	150.51420	109.00348	0.00000	0.91946
						2.4625	150.35317	108.53805	0.00000	1.0007
						2.9550	150.19215	108.07262	0.00000	1.0875
						3.4475	150.03113	107.60719	0.00000	1.1800
						3.9400	149.87010	107.14176	0.00000	1.3059
						4.4325	149.70908	106.67633	0.00000	1.5029
						4.9250	149.54805	106.21090	0.00000	1.7057
						5.4175	149.38702	105.74547	0.00000	1.9142
						5.9100	149.22600	105.28004	0.00000	2.1283
						6.4025	149.06498	104.81461	0.00000	2.3481
						6.8950	148.90395	104.34918	0.00000	2.5734
						7.3875	148.74293	103.88375	0.00000	2.8041
						7.8800	148.58190	103.41832	0.00000	3.0401
						8.3725	148.42087	102.95289	0.00000	3.2812
						8.8650	148.25985	102.48746	0.00000	3.5272
						9.3575	148.09883	102.02203	0.00000	3.7779
						9.8500	147.93780	101.55660	0.00000	4.0332
		110	23K-09	23K-09	0.0	0.0	147.93780	101.55660	0.00000	4.0332
						0.46129	147.50289	101.71037	0.00000	3.9484
						0.92259	147.06798	101.86415	0.00000	3.8640
						1.3839	146.63308	102.01793	0.00000	3.7801
						1.8452	146.19817	102.17170	0.00000	3.6967
						2.3065	145.76326	102.32547	0.00000	3.6138
						2.7678	145.32835	102.47925	0.00000	3.5314
						3.2291	144.89344	102.63303	0.00000	3.4496
						3.6904	144.45853	102.78680	0.00000	3.3682
						4.1516	144.02362	102.94057	0.00000	3.2874
						4.6129	143.58872	103.09435	0.00000	3.2071
						5.0742	143.15381	103.24813	0.00000	3.1274
						5.5355	142.71890	103.40190	0.00000	3.0482
		111	23K-10	23K-10	0.0	0.0	137.49760	104.66790	0.00000	2.3417
						0.44540	137.91837	104.52185	0.00000	2.4196
						0.89080	138.33915	104.37580	0.00000	2.4983
						1.3362	138.75993	104.22975	0.00000	2.5780
						1.7816	139.18070	104.08370	0.00000	2.6586
						2.2270	139.60147	103.93765	0.00000	2.7401
						2.6724	140.02225	103.79160	0.00000	2.8225
						3.1178	140.44303	103.64555	0.00000	2.9058
						3.5632	140.86380	103.49950	0.00000	2.9900
						4.0086	141.28457	103.35345	0.00000	3.0731
						4.4540	141.70535	103.20740	0.00000	3.1484
						4.8994	142.12613	103.06135	0.00000	3.2243
						5.3448	142.54690	102.91530	0.00000	3.3006
		112	23K-11	23K-11	0.0	0.0	142.54690	102.91530	0.00000	3.3006
						0.46948	142.70055	103.35893	0.00000	3.0703
						0.93896	142.85419	103.80255	0.00000	2.8446
						1.4084	143.00784	104.24618	0.00000	2.6238
						1.8779	143.16148	104.68981	0.00000	2.4078
						2.3474	143.31513	105.13344	0.00000	2.1967
						2.8169	143.46877	105.57706	0.00000	1.9908
						3.2864	143.62242	106.02069	0.00000	1.7900

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						3.7558	143.77606	106.46432	0.00000	1.5944
						4.2253	143.92971	106.90795	0.00000	1.4040
						4.6948	144.08335	107.35157	0.00000	1.2331
						5.1643	144.23700	107.79520	0.00000	1.1418
						5.6338	144.39065	108.23883	0.00000	1.0557
						6.1032	144.54429	108.68245	0.00000	0.97479
						6.5727	144.69794	109.12608	0.00000	0.89891
						7.0422	144.85158	109.56971	0.00000	0.82802
						7.5117	145.00523	110.01334	0.00000	0.76202
						7.9812	145.15887	110.45696	0.00000	0.70077
						8.4507	145.31252	110.90059	0.00000	0.64416
						8.9201	145.46616	111.34422	0.00000	0.59201
						9.3896	145.61981	111.78785	0.00000	0.54415
						9.8591	145.77345	112.23147	0.00000	0.50039
						10.329	145.92710	112.67510	0.00000	0.46052
	113	23K-12	23K-12		0.0	0.0	140.75790	114.06100	0.00000	0.35658
						0.47283	140.60286	113.61431	0.00000	0.38530
						0.94566	140.44782	113.16762	0.00000	0.41705
						1.4185	140.29278	112.72093	0.00000	0.45207
						1.8913	140.13774	112.27424	0.00000	0.49061
						2.3642	139.98270	111.82755	0.00000	0.53288
						2.8370	139.82765	111.38085	0.00000	0.57908
						3.3098	139.67261	110.93416	0.00000	0.62937
						3.7827	139.51757	110.48747	0.00000	0.68393
						4.2555	139.36253	110.04078	0.00000	0.74288
						4.7283	139.20749	109.59409	0.00000	0.80634
						5.2012	139.05245	109.14740	0.00000	0.87440
						5.6740	138.89741	108.70071	0.00000	0.94715
						6.1468	138.74237	108.25402	0.00000	1.0246
						6.6197	138.58733	107.80733	0.00000	1.1069
						7.0925	138.43229	107.36064	0.00000	1.1940
						7.5653	138.27725	106.91395	0.00000	1.3590
						8.0382	138.12220	106.46725	0.00000	1.5450
						8.5110	137.96716	106.02056	0.00000	1.7357
						8.9838	137.81212	105.57387	0.00000	1.9312
						9.4566	137.65708	105.12718	0.00000	2.1313
						9.9295	137.50204	104.68049	0.00000	2.3359
						10.402	137.34700	104.23380	0.00000	2.5449
	114	23K-13	23K-13		0.0	0.0	137.34700	104.23380	0.00000	2.5449
						0.46085	136.91272	104.38802	0.00000	2.4617
						0.92170	136.47843	104.54223	0.00000	2.3795
						1.3826	136.04415	104.69645	0.00000	2.2983
						1.8434	135.60987	104.85067	0.00000	2.2181
						2.3043	135.17558	105.00488	0.00000	2.1389
						2.7651	134.74130	105.15910	0.00000	2.0606
						3.2260	134.30702	105.31332	0.00000	1.9833
						3.6868	133.87273	105.46753	0.00000	1.9069
						4.1477	133.43845	105.62175	0.00000	1.8315
						4.6085	133.00417	105.77597	0.00000	1.7571
						5.0694	132.56988	105.93018	0.00000	1.6836
						5.5302	132.13560	106.08440	0.00000	1.6110
	115	23K-14	23K-14		0.0	0.0	127.09450	107.39930	0.00000	1.0350
						0.43282	127.50351	107.25771	0.00000	1.0702
						0.86565	127.91252	107.11612	0.00000	1.1302
						1.2985	128.32153	106.97452	0.00000	1.1910
						1.7313	128.73053	106.83293	0.00000	1.2525
						2.1641	129.13954	106.69134	0.00000	1.3148
						2.5969	129.54855	106.54975	0.00000	1.3778
						3.0298	129.95756	106.40816	0.00000	1.4416
						3.4626	130.36657	106.26657	0.00000	1.5062
						3.8954	130.77558	106.12497	0.00000	1.5715
						4.3282	131.18458	105.98338	0.00000	1.6376
						4.7611	131.59359	105.84179	0.00000	1.7044
						5.1939	132.00260	105.70020	0.00000	1.7721
	116	23K-15	23K-15		0.0	0.0	132.00260	105.70020	0.00000	1.7721
						0.46221	132.15381	106.13697	0.00000	1.5892
						0.92441	132.30502	106.57375	0.00000	1.4104
						1.3866	132.45623	107.01052	0.00000	1.2359
						1.8488	132.60744	107.44729	0.00000	1.0993
						2.3110	132.75865	107.88406	0.00000	1.0207
						2.7732	132.90985	108.32084	0.00000	0.94634
						3.2354	133.06106	108.75761	0.00000	0.87624
						3.6976	133.21227	109.19438	0.00000	0.81036
						4.1599	133.36348	109.63115	0.00000	0.74864
						4.6221	133.51469	110.06793	0.00000	0.69101
						5.0843	133.66590	110.50470	0.00000	0.63740
						5.5465	133.81711	110.94147	0.00000	0.58770
						6.0087	133.96832	111.37825	0.00000	0.54179
						6.4709	134.11953	111.81502	0.00000	0.49955
						6.9331	134.27074	112.25179	0.00000	0.46081
						7.3953	134.42195	112.68856	0.00000	0.42540
						7.8575	134.57315	113.12534	0.00000	0.39315
						8.3197	134.72436	113.56211	0.00000	0.36384
						8.7819	134.87557	113.99888	0.00000	0.33726
						9.2441	135.02678	114.43565	0.00000	0.31316
						9.7063	135.17799	114.87243	0.00000	0.29129
						10.169	135.32920	115.30920	0.00000	0.27137
	117	23K-16	23K-16		0.0	0.0	130.24640	116.47000	0.00000	0.21127
						0.46752	130.09295	116.02838	0.00000	0.22661
						0.93504	129.93949	115.58676	0.00000	0.24302
						1.4026	129.78604	115.14515	0.00000	0.26083
						1.8701	129.63258	114.70353	0.00000	0.28032
						2.3376	129.47913	114.26191	0.00000	0.30178
						2.8051	129.32567	113.82029	0.00000	0.32546
						3.2726	129.17222	113.37867	0.00000	0.35160
						3.7402	129.01876	112.93705	0.00000	0.38044
						4.2077	128.86531	112.49544	0.00000	0.41217
						4.6752	128.71185	112.05382	0.00000	0.44698
						5.1427	128.55840	111.61220	0.00000	0.48505
						5.6102	128.40495	111.17058	0.00000	0.52653
						6.0778	128.25149	110.72896	0.00000	0.57156
						6.5453	128.09804	110.28735	0.00000	0.62027
						7.0128	127.94458	109.84573	0.00000	0.67274
						7.4803	127.79113	109.40411	0.00000	0.72908
						7.9478	127.63767	108.96249	0.00000	0.78935
						8.4154	127.48422	108.52087	0.00000	0.85361
						8.8829	127.33076	108.07925	0.00000	0.92190
						9.3504	127.17731	107.63764	0.00000	0.99424
						9.8179	127.02385	107.19602	0.00000	1.0872
						10.285	126.87040	106.75440	0.00000	1.2559
	118	23K-17	23K-17		0.0	0.0	150.73130	109.63110	0.00000	0.81867
						0.45094	151.15679	109.48174	0.00000	0.84177
						0.90189	151.58228	109.33238	0.00000	0.86542
						1.3528	152.00777	109.18302	0.00000	0.88963
						1.8038	152.43326	109.03366	0.00000	0.91441
						2.2547	152.85875	108.88430	0.00000	0.93976
						2.7057	153.28424	108.73494	0.00000	0.96567
						3.1566	153.70973	108.58558	0.00000	0.99216
						3.6075	154.13522	108.43622	0.00000	1.0192
						4.0585	154.56071	108.28686	0.00000	1.0469
						4.5094	154.98620	108.13750	0.00000	1.0751
	119	23K-18	23K-18		0.0	0.0	154.98620	108.13750	0.00000	1.0751
						0.44565	154.84277	107.71556	0.00000	1.1580
						0.89130	154.69935	107.29362	0.00000	1.2456
						1.3370	154.55593	106.87168	0.00000	1.4197
						1.7826	154.41250	106.44973	0.00000	1.6011
						2.2283	154.26907	106.02779	0.00000	1.7872
						2.6739	154.12565	105.60585	0.00000	1.9780
						3.1196	153.98222	105.18391	0.00000	2.1735
						3.5652	153.83880	104.76197	0.00000	2.3735

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
						4.0109	153.69537	104.34002	0.00000	2.5781
						4.4565	153.55195	103.91808	0.00000	2.7871
						4.9022	153.40852	103.49614	0.00000	3.0005
						5.3478	153.26510	103.07420	0.00000	3.2180
		120	23K-19	23K-19	0.0	0.0	153.26510	103.07420	0.00000	3.2180
						0.45383	152.83663	103.22379	0.00000	3.1404
						0.90766	152.40816	103.37338	0.00000	3.0633
						1.3615	151.97969	103.52297	0.00000	2.9867
						1.8153	151.55122	103.67256	0.00000	2.9106
						2.2692	151.12275	103.82215	0.00000	2.8351
						2.7230	150.69428	103.97174	0.00000	2.7602
						3.1768	150.26581	104.12133	0.00000	2.6857
						3.6307	149.83734	104.27092	0.00000	2.6119
						4.0845	149.40887	104.42051	0.00000	2.5385
						4.5383	148.98040	104.57010	0.00000	2.4658
		121	23AB-01	23AB-01	0.0	0.0	147.70060	95.28400	0.00000	7.7552
						0.40048	148.10013	95.31152	0.00000	7.7385
						0.80095	148.49966	95.33904	0.00000	7.7218
						1.2014	148.89919	95.36656	0.00000	7.7051
						1.6019	149.29872	95.39408	0.00000	7.6884
						2.0024	149.69825	95.42160	0.00000	7.6717
						2.4029	150.09778	95.44912	0.00000	7.6550
						2.8033	150.49731	95.47664	0.00000	7.6383
						3.2038	150.89684	95.50416	0.00000	7.6216
						3.6043	151.29637	95.53168	0.00000	7.6049
						4.0048	151.69590	95.55920	0.00000	7.5881
		122	23AB-02	23AB-02	0.0	0.0	151.69590	95.55920	0.00000	7.5881
						0.10895	151.68720	95.66780	0.00000	7.5220
						0.21790	151.67850	95.77640	0.00000	7.4559
		123	23AB-03	23AB-03	0.0	0.0	151.67850	95.77640	0.00000	7.4559
						0.47908	152.15639	95.81014	0.00000	7.4354
						0.95816	152.63428	95.84388	0.00000	7.4148
						1.4372	153.11217	95.87762	0.00000	7.3943
						1.9163	153.59006	95.91136	0.00000	7.3738
						2.3954	154.06795	95.94510	0.00000	7.3532
						2.8745	154.54584	95.97884	0.00000	7.3327
						3.3536	155.02373	96.01258	0.00000	7.3121
						3.8326	155.50162	96.04632	0.00000	7.2916
						4.3117	155.97951	96.08006	0.00000	7.2710
						4.7908	156.45740	96.11380	0.00000	7.2505
		124	23AB-04	23AB-04	0.0	0.0	156.45740	96.11380	0.00000	7.2505
						0.46049	156.48983	95.65445	0.00000	7.5304
						0.92099	156.52226	95.19510	0.00000	7.8096
						1.3815	156.55469	94.73575	0.00000	8.0874
						1.8420	156.58711	94.27640	0.00000	8.3634
						2.3025	156.61954	93.81705	0.00000	8.6370
						2.7630	156.65197	93.35770	0.00000	8.9076
						3.2235	156.68440	92.89835	0.00000	9.1745
						3.6839	156.71683	92.43900	0.00000	9.4372
						4.1444	156.74926	91.97965	0.00000	9.6949
						4.6049	156.78169	91.52030	0.00000	9.9470
						5.0654	156.81411	91.06095	0.00000	10.193
						5.5259	156.84654	90.60160	0.00000	10.432
						5.9864	156.87897	90.14225	0.00000	10.663
						6.4469	156.91140	89.68290	0.00000	10.885
		125	23AB-05	23AB-05	0.0	0.0	156.91140	89.68290	0.00000	10.885
						0.25352	157.16432	89.70025	0.00000	10.877
						0.50704	157.41725	89.71760	0.00000	10.869
						0.76056	157.67018	89.73495	0.00000	10.860
						1.0141	157.92310	89.75230	0.00000	10.852
		126	23AB-06	23AB-06	0.0	0.0	157.92310	89.75230	0.00000	10.852
						0.45735	157.95989	89.29643	0.00000	11.065
						0.91471	157.99667	88.84056	0.00000	11.268
						1.3721	158.03346	88.38469	0.00000	11.461
						1.8294	158.07024	87.92881	0.00000	11.642
						2.2868	158.10703	87.47294	0.00000	11.810
						2.7441	158.14381	87.01707	0.00000	11.966
						3.2015	158.18060	86.56120	0.00000	12.107
						3.6588	158.21739	86.10533	0.00000	12.234
						4.1162	158.25417	85.64946	0.00000	12.344
						4.5735	158.29096	85.19359	0.00000	12.439
						5.0309	158.32774	84.73771	0.00000	12.513
						5.4882	158.36453	84.28184	0.00000	12.570
						5.9456	158.40131	83.82597	0.00000	12.607
						6.4029	158.43810	83.37010	0.00000	12.623
		127	23AB-07	23AB-07	0.0	0.0	158.43810	83.37010	0.00000	12.623
						0.41980	158.01966	83.33634	0.00000	12.624
						0.83960	157.60122	83.30258	0.00000	12.624
						1.2594	157.18277	83.26882	0.00000	12.624
						1.6792	156.76433	83.23507	0.00000	12.624
						2.0990	156.34589	83.20131	0.00000	12.624
						2.5188	155.92745	83.16755	0.00000	12.624
						2.9386	155.50901	83.13379	0.00000	12.623
						3.3584	155.09057	83.10003	0.00000	12.623
						3.7782	154.67212	83.06628	0.00000	12.622
						4.1980	154.25368	83.03252	0.00000	12.621
						4.6178	153.83524	82.99876	0.00000	12.620
						5.0376	153.41680	82.96500	0.00000	12.619
		128	23AB-08	23AB-08	0.0	0.0	153.41680	82.96500	0.00000	12.619
						0.14075	153.40550	83.10530	0.00000	12.623
						0.28151	153.39420	83.24560	0.00000	12.624
		129	23AB-09	23AB-09	0.0	0.0	153.39420	83.24560	0.00000	12.624
						0.46923	152.92588	83.21647	0.00000	12.624
						0.93846	152.45755	83.18733	0.00000	12.624
						1.4077	151.98923	83.15820	0.00000	12.624
						1.8769	151.52090	83.12907	0.00000	12.623
						2.3462	151.05258	83.09993	0.00000	12.623
						2.8154	150.58425	83.07080	0.00000	12.622
						3.2846	150.11593	83.04167	0.00000	12.622
						3.7538	149.64760	83.01253	0.00000	12.621
						4.2231	149.17928	82.98340	0.00000	12.620
						4.6923	148.71095	82.95427	0.00000	12.619
						5.1615	148.24263	82.92513	0.00000	12.618
						5.6308	147.77430	82.89600	0.00000	12.617
		130	23AB-10	23AB-10	0.0	0.0	147.77430	82.89600	0.00000	12.617
						0.38164	147.74430	83.27646	0.00000	12.624
						0.76329	147.71430	83.65693	0.00000	12.616
						1.1449	147.68430	84.03739	0.00000	12.593
						1.5266	147.65430	84.41785	0.00000	12.555
						1.9082	147.62430	84.79831	0.00000	12.504
						2.2899	147.59430	85.17878	0.00000	12.440
						2.6715	147.56430	85.55924	0.00000	12.364
						3.0531	147.53430	85.93970	0.00000	12.275
		131	23AB-11	23AB-11	0.0	0.0	147.53430	85.93970	0.00000	12.275
						0.46163	147.99485	85.97128	0.00000	12.268
						0.92326	148.45540	86.00285	0.00000	12.260
						1.3849	148.91595	86.03442	0.00000	12.252
						1.8465	149.37650	86.06600	0.00000	12.244
		132	23AB-12	23AB-12	0.0	0.0	149.37650	86.06600	0.00000	12.244
						0.47810	149.34380	86.54298	0.00000	12.112
						0.95621	149.31110	87.01997	0.00000	11.965
						1.4343	149.27840	87.49695	0.00000	11.802
						1.9124	149.24570	87.97393	0.00000	11.624
						2.3905	149.21300	88.45092	0.00000	11.433
						2.8686	149.18030	88.92790	0.00000	11.230
		133	23AB-13	23AB-13	0.0	0.0	149.18030	88.92790	0.00000	11.230
						0.25818	148.92310	88.90537	0.00000	11.240
						0.51637	148.66590	88.88285	0.00000	11.249
						0.77455	148.40870	88.86033	0.00000	11.259
						1.0327	148.15150	88.83780	0.00000	11.269

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
		134	23AB-14	23AB-14	0.0	0.0	148.15150	88.83780	0.00000	11.269
						0.46157	148.11929	89.29824	0.00000	11.064
						0.92314	148.08709	89.75869	0.00000	10.849
						1.3847	148.05488	90.21913	0.00000	10.624
						1.8463	148.02267	90.67957	0.00000	10.391
						2.3078	147.99046	91.14001	0.00000	10.151
						2.7694	147.95826	91.60046	0.00000	9.9031
						3.2310	147.92605	92.06090	0.00000	9.6493
						3.6925	147.89384	92.52134	0.00000	9.3900
						4.1541	147.86164	92.98179	0.00000	9.1259
						4.6157	147.82943	93.44223	0.00000	8.8577
						5.0772	147.79722	93.90267	0.00000	8.5858
						5.5388	147.76501	94.36311	0.00000	8.3111
						6.0004	147.73281	94.82356	0.00000	8.0340
						6.4620	147.70060	95.28400	0.00000	7.7552
		135	23AB-15	23AB-15	0.0	0.0	149.18030	88.92790	0.00000	11.230
						0.48350	149.66150	88.97496	0.00000	11.209
						0.96699	150.14270	89.02201	0.00000	11.188
						1.4505	150.62390	89.06907	0.00000	11.167
						1.9340	151.10510	89.11612	0.00000	11.146
						2.4175	151.58630	89.16318	0.00000	11.125
						2.9010	152.06750	89.21024	0.00000	11.104
						3.3845	152.54870	89.25729	0.00000	11.083
						3.8680	153.02990	89.30435	0.00000	11.061
						4.3515	153.51110	89.35141	0.00000	11.040
						4.8350	153.99230	89.39846	0.00000	11.018
						5.3184	154.47350	89.44552	0.00000	10.996
						5.8019	154.95470	89.49258	0.00000	10.974
						6.2854	155.43590	89.53963	0.00000	10.952
						6.7689	155.91710	89.58669	0.00000	10.930
						7.2524	156.39830	89.63374	0.00000	10.908
						7.7359	156.87950	89.68080	0.00000	10.886
		136	28K-01	28K-01	0.0	0.0	157.04370	132.95660	0.00000	0.0
						0.46362	157.45751	132.74754	0.00000	0.0
						0.92724	157.87132	132.53848	0.00000	0.0
						1.3909	158.28512	132.32941	0.00000	0.0
						1.8545	158.69893	132.12035	0.00000	0.0
						2.3181	159.11274	131.91129	0.00000	0.0
						2.7817	159.52655	131.70222	0.00000	0.0
						3.2453	159.94036	131.49316	0.00000	0.0
						3.7090	160.35417	131.28410	0.00000	0.0
						4.1726	160.76798	131.07504	0.00000	0.0
						4.6362	161.18178	130.86597	0.00000	0.0
						5.0998	161.59559	130.65691	0.00000	0.0
						5.5635	162.00940	130.44785	0.00000	0.0
						6.0271	162.42321	130.23879	0.00000	0.0
						6.4907	162.83702	130.02973	0.00000	0.0
						6.9543	163.25082	129.82066	0.00000	0.0
						7.4179	163.66463	129.61160	0.00000	0.0
						7.8816	164.07844	129.40254	0.00000	0.0
						8.3452	164.49225	129.19348	0.00000	0.0
						8.8088	164.90606	128.98441	0.00000	0.0
						9.2724	165.31987	128.77535	0.00000	0.0
						9.7360	165.73368	128.56629	0.00000	0.0
						10.200	166.14748	128.35722	0.00000	0.0
						10.663	166.56129	128.14816	0.00000	0.0
						11.127	166.97510	127.93910	0.00000	0.0
		137	28K-02	28K-02	0.0	0.0	166.97510	127.93910	0.00000	0.0
						0.46979	166.97510	127.46931	0.00000	0.0
						0.93957	166.97510	126.99953	0.00000	0.0
						1.4094	166.97510	126.52974	0.00000	0.0
						1.8791	166.97510	126.05995	0.00000	0.0
						2.3489	166.97510	125.59016	0.00000	0.0
						2.8187	166.97510	125.12037	0.00000	0.0
						3.2885	166.97510	124.65059	0.00000	0.0
						3.7583	166.97510	124.18080	0.00000	0.0
		138	28K-03	28K-03	0.0	0.0	166.97510	124.18080	0.00000	0.0
						0.49736	166.75082	123.73688	0.00000	0.0
						0.99472	166.52654	123.29296	0.00000	0.0
						1.4921	166.30227	122.84903	0.00000	0.0
						1.9894	166.07799	122.40511	0.00000	0.0
						2.4868	165.85371	121.96119	0.00000	0.0
						2.9842	165.62943	121.51727	0.00000	0.0
						3.4815	165.40516	121.07334	0.00000	0.025326
						3.9789	165.18088	120.62942	0.00000	0.056114
						4.4762	164.95660	120.18550	0.00000	0.083271
						4.9736	164.73232	119.74158	0.00000	0.10736
						5.4710	164.50804	119.29766	0.00000	0.12893
						5.9683	164.28377	118.85373	0.00000	0.14850
						6.4657	164.05949	118.40981	0.00000	0.16659
						6.9630	163.83521	117.96589	0.00000	0.18368
						7.4604	163.61093	117.52197	0.00000	0.20024
						7.9578	163.38666	117.07804	0.00000	0.21672
						8.4551	163.16238	116.63412	0.00000	0.23357
						8.9525	162.93810	116.19020	0.00000	0.25119
		139	28K-04	28K-04	0.0	0.0	162.93810	116.19020	0.00000	0.25119
						0.48162	162.50474	116.40034	0.00000	0.24272
						0.96323	162.07139	116.61048	0.00000	0.23448
						1.4449	161.63803	116.82061	0.00000	0.22642
						1.9265	161.20468	117.03075	0.00000	0.21849
						2.4081	160.77132	117.24089	0.00000	0.21065
						2.8897	160.33796	117.45103	0.00000	0.20286
						3.3713	159.90461	117.66116	0.00000	0.19506
						3.8529	159.47125	117.87130	0.00000	0.18722
						4.3346	159.03789	118.08144	0.00000	0.17928
						4.8162	158.60454	118.29158	0.00000	0.17120
						5.2978	158.17118	118.50171	0.00000	0.16292
						5.7794	157.73782	118.71185	0.00000	0.15440
						6.2610	157.30447	118.92199	0.00000	0.14558
						6.7426	156.87111	119.13213	0.00000	0.13641
						7.2243	156.43776	119.34226	0.00000	0.12683
						7.7059	156.00440	119.55240	0.00000	0.11680
		140	28K-05	28K-05	0.0	0.0	156.00440	119.55240	0.00000	0.11680
						0.45854	156.20647	119.96402	0.00000	0.095600
						0.91709	156.40854	120.37564	0.00000	0.072003
						1.3756	156.61061	120.78726	0.00000	0.045563
						1.8342	156.81268	121.19888	0.00000	0.015826
						2.2927	157.01474	121.61049	0.00000	0.0
						2.7513	157.21681	122.02211	0.00000	0.0
						3.2098	157.41888	122.43373	0.00000	0.0
						3.6683	157.62095	122.84535	0.00000	0.0
						4.1269	157.82302	123.25697	0.00000	0.0
						4.5854	158.02509	123.66859	0.00000	0.0
						5.0440	158.22716	124.08021	0.00000	0.0
						5.5025	158.42923	124.49183	0.00000	0.0
						5.9611	158.63129	124.90344	0.00000	0.0
						6.4196	158.83336	125.31506	0.00000	0.0
						6.8781	159.03543	125.72668	0.00000	0.0
						7.3367	159.23750	126.13830	0.00000	0.0
		141	28K-06	28K-06	0.0	0.0	159.23750	126.13830	0.00000	0.0
						0.49484	158.79330	126.35637	0.00000	0.0
						0.98968	158.34910	126.57444	0.00000	0.0
						1.4845	157.90490	126.79251	0.00000	0.0
						1.9794	157.46070	127.01058	0.00000	0.0
						2.4742	157.01650	127.22865	0.00000	0.0
						2.9690	156.57230	127.44672	0.00000	0.0
						3.4639	156.12810	127.66479	0.00000	0.0
						3.9587	155.68390	127.88286	0.00000	0.0
						4.4536	155.23970	128.10093	0.00000	0.0
						4.9484	154.79550	128.31900	0.00000	0.0

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]
		142	28K-07	28K-07	0.0	0.0	154.79550	128.31900	0.00000	0.0
						0.42948	154.98285	128.70547	0.00000	0.0
						0.85897	155.17020	129.09193	0.00000	0.0
						1.2885	155.35755	129.47840	0.00000	0.0
						1.7179	155.54490	129.86487	0.00000	0.0
						2.1474	155.73225	130.25133	0.00000	0.0
						2.5769	155.91960	130.63780	0.00000	0.0
						3.0064	156.10695	131.02427	0.00000	0.0
						3.4359	156.29430	131.41073	0.00000	0.0
						3.8654	156.48165	131.79720	0.00000	0.0
						4.2948	156.66900	132.18367	0.00000	0.0
						4.7243	156.85635	132.57013	0.00000	0.0
						5.1538	157.04370	132.95660	0.00000	0.0

Specific Building Damage Results - Detail

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Tensile Strain [%]	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature [m]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	1	0.0	4.8298	None	0.0013241	0.023521	0.024539	-279.60E-6	-343.96E-6	42304. 0	(Negligible)
						2	4.8298	1.1872	None	0.0020259	0.026562	0.026971	-285.35E-6	-348.43E-6	3780.9 0	(Negligible)
		2	16S-02	16S-02	0.0	1	0.0	6.5880	None	0.017033	0.050980	0.067845	0.0066237	0.0020792	393.28 1	(Very Slight)
		3	16S-03	16S-03	0.0	1	0.0	2.8020	None	0.015164	-0.028121	0.011193	0.0062350	0.0014479	347.32 0	(Negligible)
		4	16S-04	16S-04	0.0	1	0.0	1.9321	None	142.34E-6	0.032524	0.032571	-342.17E-6	60.722E-6	119460. 0	(Negligible)
						2	1.9321	1.1621	None	0.0085084	0.028043	0.030056	-301.19E-6	-502.75E-6	3459.7 0	(Negligible)
						3	3.0942	2.4150	None	0.0059606	0.025907	0.028323	-286.04E-6	-502.75E-6	2983.2 0	(Negligible)
						4	5.5091	1.1672	None	0.0011675	0.023011	0.023243	-249.22E-6	135.20E-6	23341. 0	(Negligible)
						5	6.6763	0.99772	None	734.85E-6	0.019795	0.019920	-204.49E-6	126.96E-6	15101. 0	(Negligible)
		5	16S-05	16S-05	0.0	1	0.0	1.6930	None	0.0030935	0.045743	0.046631	-540.52E-6	-168.74E-6	6123.8 0	(Negligible)
						2	1.6930	1.2780	None	509.65E-6	0.043432	0.043543	-450.42E-6	-152.51E-6	31085. 0	(Negligible)
		6	16S-06	16S-06	0.0	1	0.0	0.16973	None	0.0	0.044662	0.044662	-446.42E-6	-402.28E-6	23105. 0	(Negligible)
						2	0.16973	4.1087	None	0.0018785	0.048850	0.050102	-669.31E-6	-569.01E-6	8052.5 1	(Very Slight)
						3	4.2784	0.99097	None	125.27E-6	0.072304	0.072325	-759.07E-6	-569.01E-6	167730. 1	(Very Slight)
						4	5.2694	0.95361	None	74.464E-6	0.080437	0.080449	-823.06E-6	-565.88E-6	145930. 2	(Slight)
		7	BS-01	BS-01	0.0	1	0.0	2.9849	None	775.83E-6	-0.043416	0.0086945	761.22E-6	-327.32E-6	41374. 0	(Negligible)
						2	2.9849	1.3499	None	612.10E-6	-0.029063	0.0058233	873.26E-6	-293.76E-6	46199. 0	(Negligible)
						3	4.3347	1.8118	None	142.73E-6	0.0079501	0.0079831	-80.658E-6	-292.30E-6	141370. 0	(Negligible)
						4	6.1466	1.0162	None	576.69E-6	0.0089634	0.0090384	-131.31E-6	-318.14E-6	14954. 0	(Negligible)
						5	7.1628	1.9644	None	0.0092190	0.029492	0.031798	-395.02E-6	-371.21E-6	2683.6 0	(Negligible)
						6	9.1272	3.0211	None	0.034258	0.028188	0.048990	-296.88E-6	-0.0065580	303.19 0	(Negligible)
						7	12.148	0.82976	Sagging	0.15456	-0.10892	0.12407	0.0018495	-0.0065580	51.220 2	(Slight)
		8	BS-02	BS-02	0.0	1	0.0	4.6343	None	0.0032245	0.083324	0.085169	-933.53E-6	729.94E-6	7002.3 2	(Slight)
						2	4.6343	10.742	None	0.0089792	0.047920	0.058178	-766.28E-6	729.94E-6	4062.4 1	(Very Slight)
						3	15.376	1.6361	None	404.83E-6	0.012257	0.012341	-140.89E-6	314.07E-6	38517. 0	(Negligible)
						4	17.012	4.6760	None	0.0037152	0.0054361	0.0075799	-143.57E-6	330.30E-6	5239.1 0	(Negligible)
						5	21.688	1.3197	None	141.51E-6	0.0053008	0.0053247	-70.232E-6	98.200E-6	179450. 0	(Negligible)
						6	23.008	3.6117	None	149.16E-6	0.0058278	0.0058952	-70.232E-6	98.200E-6	216490. 0	(Negligible)
						7	26.619	2.8607	None	415.17E-6	0.0038642	0.0040143	-51.059E-6	118.36E-6	67317. 0	(Negligible)
		9	BS-03	BS-03	0.0	All vertical displacements are less than the limit sensitivity.										
		10	BS-04	BS-04	0.0	All vertical displacements are less than the limit sensitivity.										
		11	BS-05	BS-05	0.0	All vertical displacements are less than the limit sensitivity.										
		12	BS-06	BS-06	0.0	All vertical displacements are less than the limit sensitivity.										
		13	BS-07	BS-07	0.0	All vertical displacements are less than the limit sensitivity.										
		14	BS-08	BS-08	0.0	All vertical displacements are less than the limit sensitivity.										
		15	BS-09	BS-09	0.0	All vertical displacements are less than the limit sensitivity.										
		16	BS-10	BS-10	0.0	All vertical displacements are less than the limit sensitivity.										
		17	BS-11	BS-11	0.0	All vertical displacements are less than the limit sensitivity.										
		18	BS-12	BS-12	0.0	All vertical displacements are less than the limit sensitivity.										
		19	BS-13	BS-13	0.0	All vertical displacements are less than the limit sensitivity.										
		20	BS-14	BS-14	0.0	All vertical displacements are less than the limit sensitivity.										
		21	BS-15	BS-15	0.0	1	13.992	0.41001	None	0.0	0.024405	0.024405	-245.73E-6	-236.08E-6	24740. 0	(Negligible)
						2	14.402	0.63540	None	52.111E-6	0.024271	0.024275	-243.99E-6	-227.21E-6	113110. 0	(Negligible)
						3	15.037	1.9526	None	326.10E-6	0.023713	0.023794	-240.60E-6	-242.34E-6	48890. 0	(Negligible)
		22	BS-16	BS-16	0.0	1	0.0	4.9560	None	0.0018376	0.030636	0.031755	-364.14E-6	-377.76E-6	32052. 0	(Negligible)
		23	BS-17	BS-17	0.0	1	0.0	0.81700	None	247.16E-6	-0.0058951	0.0011876	63.272E-6	146.70E-6	40906. 0	(Negligible)
		24	BS-18	BS-18	0.0	1	0.0	1.7603	None	226.93E-6	0.025265	0.025316	-274.13E-6	-388.07E-6	61306. 0	(Negligible)
						2	1.7603	6.1797	None	0.0040884	-0.0069236	0.0028796	544.93E-6	-388.07E-6	10487. 0	(Negligible)
		25	SB-01	SB-01	0.0	All vertical displacements are less than the limit sensitivity.										
		26	SB-02	SB-02	0.0	All vertical displacements are less than the limit sensitivity.										
		27	SB-03	SB-03	0.0	1	20.448	0.41329	None	0.0	0.018819	0.018819	-190.73E-6	-211.32E-6	12748. 0	(Negligible)
						2	20.862	1.6506	None	171.35E-6	0.018252	0.018288	-188.15E-6	-199.98E-6	62331. 0	(Negligible)
						3	22.512	6.4139	None	0.0061046	0.041621	0.046299	-631.13E-6	-684.03E-6	4995.3 0	(Negligible)
		28	SB-04	SB-04	0.0	1	0.0	0.68670	None	671.92E-6	0.048355	0.049414	-493.90E-6	-417.67E-6	11110. 0	(Negligible)
						2	0.68670	1.3574	None	0.0015875	0.031421	0.031696	-493.90E-6	-417.67E-6	14876. 0	(Negligible)
						3	2.0441	1.1231	None	209.38E-6	0.012447	0.012477	-146.78E-6	-378.89E-6	18942. 0	(Negligible)
						4	3.1673	1.1266	None	0.060102	-0.028582	0.050938	0.0015454	0.0032237	482.46 1	(Very Slight)
						5	4.2939	1.1048	None	0.054320	-0.041366	0.043068	0.0015454	0.0032237	520.70 0	(Negligible)
						6	5.3987	2.2039	None	0.0014997	-0.031866	0.0064308	426.59E-6	-274.81E-6	17120. 0	(Negligible)
						7	7.6026	1.0113	None	0.0020934	-0.046101	0.0092989	489.44E-6	-219.71E-6	13512. 0	(Negligible)
						8	8.6139	0.40010	None	0.0	-0.048920	0.0097840	489.44E-6	-198.37E-6	9232.9 0	(Negligible)
		29	SB-05	SB-05	0.0	1	0.0	1.2665	None	196.60E-6	0.039011	0.039043	-397.59E-6	489.68E-6	55864. 0	(Negligible)
						2	1.2665	9.1346	None	0.0040791	0.036410	0.040569	-429.90E-6	489.68E-6	23534. 0	(Negligible)
						3	10.401	0.68305	None	71.180E-6	0.027595	0.027601	-276.89E-6	234.19E-6	88623. 0	(Negligible)
						4	11.084	0.37084	None	0.0	0.027696	0.027696	-277.82E-6	244.52E-6	25265. 0	(Negligible)
		30	SB-06	SB-06	0.0	All vertical displacements are less than the limit sensitivity.										
		31	SB-07	SB-07	0.0	All vertical displacements are less than the limit sensitivity.										
		32	SB-08	SB-08	0.0	All vertical displacements are less than the limit sensitivity.										
		33	SB-09	SB-09	0.0	All vertical displacements are less than the limit sensitivity.										
		34	SB-10	SB-10	0.0	All vertical displacements are less than the limit sensitivity.										
		35	SB-11	SB-11	0.0	All vertical displacements are less than the limit sensitivity.										
		36	SB-12	SB-12	0.0	All vertical displacements are less than the limit sensitivity.										
		37	SB-13	SB-13	0.0	All vertical displacements are less than the limit sensitivity.										
		38	SB-14	SB-14	0.0	All vertical displacements are less than the limit sensitivity.										
		39	HL-01	HL-01	0.0	1	8.6807	0.31200	None	0.0	0.0049829	0.0049829	-53.897E-6	-152.51E-6	45840. 0	(Negligible)
						2	8.9927	6.4393	None	558.40E-6	0.0019852	0.0024145	-49.826E-6	-145.87E-6	84604. 0	(Negligible)
		40	HL-02	HL-02	0.0	1	0.0	2.2462	None	325.70E-6	0.016390	0.016483	-172.87E-6	232.10E-6	57640. 0	(Negligible)
						2	2.2462	1.0877	None	102.22E-6	0.017817	0.017832	-183.32E-6	221.94E-6	63886. 0	(Negligible)
						3	3.3339	0.40820	None	0.0	0.018336	0.018336	-184.45E-6	235.17E-6	9253.1 0	(Negligible)
		41	HL-03	HL-03	0.0	All vertical displacements are less than the limit sensitivity.										
		42	CH-01	CH-01	0.0	1	0.0	5.4723	None	0.0012743	0.019409	0.020257	-249.49E-6	-328.49E-6	44664. 0	(Negligible)
						2	5.4723	3.3508	None	877.18E-6	0.0034254	0.0037948	-124.30E-6	-328.49E-6	27652. 0	(Negligible)
						3	8.8231	1.3980	None	0.0014787	-0.011019	0.0023660	119.34E-6	-323.51E-6	17617. 0	(Negligible)
						4	10.221	3.4889	None	0.0014502	-0.032088	0.0064698	476.09E-6	-323.51E-6	21177. 0	(Negligible)
		43	CH-02	CH-02	0.0	1	0.0	3.6158	None	0.0060346	-0.0098231	0.0044084	0.0010281	-318.66E-6	5817.0 0	(Negligible)
						2	3.6158	1.5529	None	0.012444	-0.19223	0.039110	0.0029621	-403.15E-6	1912.6 0	(Negligible)
						3	5.1687	1.6275	None	0.0051479	-0.082567	0.016778	0.0029621	-403.15E-6	4056.2 0	(Negligible)
						4	6.7962	6.7998	None	20.084E-6	-145.47E-6	31.078E-6	1.4580E-6	-112.68E-6	4.1590E+6 0	(Negligible)
						5	13.596	10.680	None	0.0021206	-0.015456	0.0032572	0.0029010	418.27E-6	1655.5 0	(Negligible)
		44	CH-03	CH-03	0.0	1	0.0	7.4376	None	0.0088725	0.025208	0.032910	748.24E-6	465.80E-6	4051.8 0	(Negligible)
						2	7.4376	9.3932	None	0.0037589	0.036463	0.040375	-436.23E-6	465.80E-6	26272. 0	(Negligible)
						3	16.831	0.72930	None	47.154E-6	0.025020	0.025025	-250.53E-6	231.50E-6	87896. 0	(Negligible)
						4	17.560	0.42033	None	0.0	0.025059	0.025059	-250.93E-6	241.52E-6	13710. 0	(Negligible)
		45	CH-04	CH-04	0.0	All vertical displacements are less than the limit sensitivity.										
		46	CH-05	CH-05	0.0	1	0.0	3.4620	None	0.0035716	0.048362	0.053089	-663.69E-6	304.64E-6	11279. 1	(Very Slight)
		47	CH-06	CH-06	0.0	1	0.0	5.3778	None	0.0033547	0.0060329	0.011105	276.74E-6	406.25E-6	10251. 0	(Negligible)
						2	5.3778	8.0732	None	0.0027444	0.027801	0.031778	-344.38E-6	406.25E-6	31607. 0	(Negligible)
		48	CH-07	CH-07	0.0	1	0.0	5.3294	None	708.72E-6	0.0011609	0.0022315	-31.030E-6	117.09E-6	79722. 0	(Negligible)
		49	CH-08	CH-08	0.0	All vertical displacements are less than the limit sensitivity.										
		50	CH-09	CH-09	0.0	All vertical displacements are less than the limit sensitivity.										
		51	CH-10	CH-10	0.0	All vertical displacements are less than the limit sensitivity.										
		52	CH-11	CH-11	0.0	All vertical displacements are less than the limit sensitivity.										
		53	10S-01	10S-01	0.0	1	0.0	4.6829	None	0.0019020	0.035047	0.036470	-479.62E-6	360.38E-6	21264. 0	(Negligible)
						2	4.6829	1.3025	None	208.25E-6	0.028825	0.028871	-289.73E-6	252.93E-6	36750. 0	(Negligible)
		54	10S-02	10S-02	0.0	All vertical displacements are less than the limit sensitivity.										
		55	10S-03	10S-03	0.0	All vertical displacements are less than the limit sensitivity.										

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
		56	10S-04	10S-04	0.0	All vertical displacements are less than the limit sensitivity.										
		57	10S-05	10S-05	0.0	All vertical displacements are less than the limit sensitivity.										
		58	10S-06	10S-06	0.0	All vertical displacements are less than the limit sensitivity.										
		59	10S-07	10S-07	0.0	1	9.9154	0.38903	None	0.0	0.019635	0.019635	-198.62E-6	-232.70E-6	19412. 0	(Negligible)
						2	10.304	0.81579	None	52.031E-6	0.019328	0.019335	-196.31E-6	-223.74E-6	91648. 0	(Negligible)
						3	11.120	3.9888	None	0.0010060	0.020006	0.020659	-292.05E-6	-285.50E-6	35652. 0	(Negligible)
		60	10S-08	10S-08	0.0	1	0.0	6.3146	None	0.0017812	-0.0085290	0.0019446	106.20E-6	-113.23E-6	37318. 0	(Negligible)
						2	6.3146	0.78345	None	11.463E-6	-603.14E-6	120.84E-6	85.713E-6	15.210E-6	418080. 0	(Negligible)
						3	7.0981	1.0419	None	14.175E-6	-411.11E-6	82.648E-6	4.2297E-6	10.848E-6	950180. 0	(Negligible)
		61	10S-09	10S-09	0.0	All vertical displacements are less than the limit sensitivity.										
		62	10S-10	10S-10	0.0	All vertical displacements are less than the limit sensitivity.										
		63	10S-11	10S-11	0.0	All vertical displacements are less than the limit sensitivity.										
		64	12S-01	12S-01	0.0	1	0.0	0.96961	None	0.0010700	-0.033633	0.0067547	392.07E-6	-220.38E-6	11234. 0	(Negligible)
						2	0.96961	1.4318	None	0.0034630	-0.053173	0.010820	589.24E-6	-298.42E-6	7553.2 0	(Negligible)
						3	2.4014	3.0770	None	0.0022086	-0.068091	0.013674	992.66E-6	-298.42E-6	13182. 0	(Negligible)
						4	5.4785	1.6105	None	0.0014496	0.017971	0.018366	-403.52E-6	-212.45E-6	16934. 0	(Negligible)
						5	7.0890	2.4554	None	381.06E-6	0.038850	0.039007	-399.20E-6	-202.79E-6	59609. 0	(Negligible)
						6	9.5444	1.7794	None	0.0022844	0.036737	0.037425	-375.72E-6	-301.42E-6	8800.0 0	(Negligible)
						7	11.324	1.9796	None	0.0075431	0.034445	0.036967	-360.00E-6	-301.42E-6	3276.8 0	(Negligible)
						8	13.303	1.4886	None	66.646E-6	0.032157	0.032174	-334.08E-6	51.885E-6	221140. 0	(Negligible)
		65	12S-02	12S-02	0.0	1	0.0	4.7378	None	0.0034070	0.057896	0.060472	-614.80E-6	649.88E-6	8734.5 1	(Very Slight)
						2	4.7378	0.92224	None	99.416E-6	0.054285	0.054300	-544.62E-6	649.88E-6	93915. 1	(Very Slight)
		66	12S-03	12S-03	0.0	1	0.0	0.83395	None	0.0019343	0.027006	0.027281	-273.98E-6	-107.73E-6	2558.1 0	(Negligible)
						2	0.83395	0.28205	None	439.56E-9	0.027792	0.027792	-277.89E-6	-107.58E-6	724960. 0	(Negligible)
		67	12S-04	12S-04	0.0	1	0.0	4.3770	None	0.0023270	0.055472	0.057114	-565.85E-6	590.77E-6	20146. 1	(Very Slight)
		68	12S-05	12S-05	0.0	1	0.0	0.61767	None	305.09E-6	0.021163	0.021195	-242.74E-6	20.463E-6	15001. 0	(Negligible)
						2	0.61767	1.3209	None	727.33E-6	0.0022986	0.0024768	-91.903E-6	20.463E-6	36025. 0	(Negligible)
						3	1.9386	4.7798	None	57.894E-6	-370.46E-6	80.574E-6	4.2000E-6	-16.087E-6	938880. 0	(Negligible)
						4	6.7184	0.73277	None	27.278E-6	-801.77E-6	161.11E-6	31.633E-6	-13.319E-6	589160. 0	(Negligible)
						5	7.4512	6.2708	None	0.0017973	-0.0085678	0.0019563	107.42E-6	109.58E-6	36959. 0	(Negligible)
		69	12S-06	12S-06	0.0	1	0.0	4.2791	None	0.0011225	0.025761	0.026537	-291.77E-6	-381.81E-6	34247. 0	(Negligible)
						2	4.2791	1.1178	None	117.40E-6	0.018591	0.018613	-212.42E-6	-381.81E-6	131250. 0	(Negligible)
						3	5.3969	1.6312	None	911.12E-6	0.016548	0.016800	-184.64E-6	-413.41E-6	26310. 0	(Negligible)
						4	7.0281	1.6679	None	332.72E-6	0.011808	0.011902	-164.79E-6	-410.84E-6	47366. 0	(Negligible)
		70	14S-01	14S-01	0.0	1	0.0	2.9226	None	0.0012695	0.029001	0.029898	-364.67E-6	-191.41E-6	17906. 0	(Negligible)
						2	2.9226	1.4325	None	0.0030226	0.0023982	0.0042663	-205.85E-6	-245.89E-6	8236.5 0	(Negligible)
						3	4.3551	1.5209	None	0.0013352	-0.023004	0.0046632	294.17E-6	-245.89E-6	12464. 0	(Negligible)
		71	14S-02	14S-02	0.0	1	0.0	1.4413	None	0.0077620	-0.056727	0.012194	588.29E-6	999.47E-6	1176.1 0	(Negligible)
						2	1.4413	3.5099	None	760.94E-6	-0.031935	0.0063998	537.20E-6	709.50E-6	36333. 0	(Negligible)
						3	4.9512	9.8118	None	0.0043665	0.018305	0.024822	-364.62E-6	709.50E-6	22929. 0	(Negligible)
		72	14S-03	14S-03	0.0	1	0.0	6.1150	None	0.0017780	-0.010678	0.0022876	185.38E-6	113.37E-6	36740. 0	(Negligible)
		73	14S-04	14S-04	0.0	1	0.0	0.092956	None	0.0	0.013350	0.013350	-133.48E-6	367.48E-6	169030. 0	(Negligible)
						2	0.092956	0.45360	None	53.843E-6	0.013805	0.013811	-145.76E-6	369.80E-6	55311. 0	(Negligible)
						3	0.54656	1.7244	None	0.0016865	-0.0015902	0.0012712	-154.58E-6	390.37E-6	10851. 0	(Negligible)
		74	14S-05	14S-05	0.0	1	0.0	0.92618	None	169.89E-6	-0.0028963	587.48E-6	34.986E-6	128.63E-6	69950. 0	(Negligible)
						2	0.92618	1.5088	None	0.0023693	-286.75E-6	0.0022231	16.339E-6	133.75E-6	8902.3 0	(Negligible)
						3	2.4350	2.5970	None	321.95E-6	0.0038266	0.0040311	-58.968E-6	64.680E-6	83127. 0	(Negligible)
		75	14S-06	14S-06	0.0	1	0.0	2.4860	None	103.47E-6	0.0067276	0.0067908	-86.671E-6	91.809E-6	211690. 0	(Negligible)
		76	14S-07	14S-07	0.0	1	0.0	6.3630	None	0.0025949	-0.0013237	0.0019624	72.523E-6	-420.47E-6	4757.4 0	(Negligible)
		77	14S-08	14S-08	0.0	1	0.0	0.57174	None	70.701E-6	0.015225	0.015235	-155.70E-6	-32.801E-6	94796. 0	(Negligible)
						2	0.57174	1.7326	None	0.0022110	0.012829	0.013791	-135.64E-6	-115.54E-6	10709. 0	(Negligible)
						3	2.3043	0.63478	None	79.210E-6	0.011772	0.011785	-120.10E-6	-115.54E-6	147230. 0	(Negligible)
						4	2.9391	1.2670	None	799.67E-6	0.014416	0.014673	-204.40E-6	-144.05E-6	32246. 0	(Negligible)
						5	4.2061	3.3559	None	0.0010704	0.019370	0.020222	-204.40E-6	-144.05E-6	36305. 0	(Negligible)
		78	14S-09	14S-09	0.0	1	0.0	4.1308	None	161.68E-6	-0.0043438	872.72E-6	132.01E-6	-554.31E-6	266660. 0	(Negligible)
						2	4.1308	1.2932	None	40.827E-6	-0.013261	0.0026524	144.17E-6	-554.31E-6	261840. 0	(Negligible)
		79	14S-10	14S-10	0.0	1	0.0	1.4740	None	124.61E-6	0.031456	0.031502	-321.44E-6	-144.80E-6	110780. 0	(Negligible)
		80	14S-11	14S-11	0.0	1	0.0	0.50240	None	17.416E-6	-0.012971	0.0025943	154.75E-6	-592.91E-6	163170. 0	(Negligible)
						2	0.50240	2.3748	None	0.0034137	-0.020836	0.0045908	275.66E-6	-739.34E-6	6508.4 0	(Negligible)
						3	2.8772	2.7018	None	325.82E-6	-0.033009	0.0066043	378.44E-6	-739.34E-6	58781. 0	(Negligible)
		81	14S-12	14S-12	0.0	1	0.0	3.4386	None	0.0030304	0.0068419	0.0093063	-118.65E-6	544.39E-6	6224.7 0	(Negligible)
						2	3.4386	0.26543	None	0.0	0.011867	0.011867	-118.65E-6	365.95E-6	1.2928E+6 0	(Negligible)
		82	18S-01	18S-01	0.0	1	0.0	0.75927	None	296.19E-6	0.020937	0.020975	-210.59E-6	262.86E-6	31390. 0	(Negligible)
						2	0.75927	1.6006	None	0.0013084	0.016375	0.016730	-206.90E-6	265.26E-6	19134. 0	(Negligible)
						3	2.3599	6.5951	None	589.60E-6	0.0016754	0.0022597	-130.28E-6	262.76E-6	84355. 0	(Negligible)
		83	18S-02	18S-02	0.0	1	0.0	7.8270	None	0.0032605	0.061952	0.065606	-686.32E-6	-627.68E-6	13303. 1	(Very Slight)
		84	18S-03	18S-03	0.0	1	0.0	0.57305	None	390.94E-6	-0.017283	0.0034640	178.50E-6	-392.51E-6	14705. 0	(Negligible)
						2	0.57305	1.5510	None	670.30E-6	-0.015269	0.0030779	163.74E-6	-392.51E-6	28106. 0	(Negligible)
		85	18S-04	18S-04	0.0	1	0.0	1.7460	None	584.56E-6	0.074419	0.074592	-758.62E-6	647.40E-6	36494. 1	(Very Slight)
		86	18S-05	18S-05	0.0	1	0.0	6.8850	None	767.26E-6	0.0030119	0.0037970	-193.80E-6	-309.27E-6	13649. 0	(Negligible)
		87	20S-01	20S-01	0.0	1	0.0	2.2430	None	561.19E-6	0.049685	0.049896	-498.47E-6	375.18E-6	45890. 0	(Negligible)
		88	20S-02	20S-02	0.0	1	0.0	0.44223	None	643.84E-9	-0.0055525	0.0011105	56.346E-6	254.16E-6	44437. 0	(Negligible)
						2	0.44223	1.7370	None	0.0046789	-0.0069236	0.0034544	81.443E-6	254.16E-6	4718.7 0	(Negligible)
						3	2.1793	4.0037	None	258.68E-6	-0.0082815	0.0016624	83.354E-6	81.370E-6	145470. 0	(Negligible)
		89	20S-03	20S-03	0.0	1	0.0	10.076	None	0.0036562	0.041542	0.046308	-467.91E-6	-524.11E-6	11380. 0	(Negligible)
		90	20S-04	20S-04	0.0	1	0.0	6.1650	None	0.0014478	-0.024198	0.0048970	245.36E-6	-316.27E-6	38763. 0	(Negligible)
		91	20S-05	20S-05	0.0	1	0.0	2.6100	None	73.700E-6	-0.0079504	0.0015906	81.958E-6	86.989E-6	319310. 0	(Negligible)
		92	20S-06	20S-06	0.0	1	0.0	10.069	None	0.0023637	0.031528	0.035072	-362.11E-6	-413.88E-6	10571. 0	(Negligible)
		93	20S-07	20S-07	0.0	1	0.0	3.1450	None	242.40E-6	-0.022475	0.0044970	235.43E-6	-337.32E-6	104730. 0	(Negligible)
		94	HT-01	HT-01	0.0	1	0.0	1.1250	None	166.55E-6	0.034508	0.034556	-348.70E-6	197.43E-6	79154. 0	(Negligible)
		95	HT-02	HT-02	0.0	1	0.0	9.9085	None	283.29E-6	-0.0023777	485.27E-6	51.732E-6	85.604E-6	163750. 0	(Negligible)
						2	9.9085	1.0566	None	4.7229E-6	0.0015345	0.0015358	-21.187E-6	70.266E-6	1.3510E+6 0	(Negligible)
						3	10.965	3.3659	None	0.0012359	-0.0011373	915.63E-6	34.496E-6	70.809E-6	19007. 0	(Negligible)
		96	HT-03	HT-03	0.0	1	3.8588	0.57095	None	60.278E-6	0.016197	0.016206	-162.67E-6	-78.110E-6	23789. 0	(Negligible)
						2	4.4298	6.1812	None	415.60E-6	0.012712	0.013230	-158.03E-6	-73.476E-6	115260. 0	(Negligible)
		97	HT-04	HT-04	0.0	1	0.0	17.047	None	0.0028635	-0.0049197	0.0011278	166.97E-6	-344.11E-6	15837. 0	(Negligible)
						2	17.047	0.12190	None	0.0	-0.016694	0.0033388	166.97E-6	-344.11E-6	556570. 0	(Negligible)
		98	22S-01	22S-01	0.0	All vertical displacements are less than the limit sensitivity.										
		99	22S-02	22S-02	0.0	1	2.9828	0.85349	None	50.760E-6	0.024126	0.024137	-242.88E-6	-31.543E-6	165800. 0	(Negligible)
						2	3.8362	8.0948	None	0.0013774	0.021405	0.023355	-240.50E-6	-129.62E-6	45960. 0	(Negligible)
		100	22S-03	22S-03	0.0	1	0.0	6.7030	None	569.78E-6	-0.0051890	0.0010676	96.968E-6	-23.293E-6	124480. 0	(Negligible)
		101	22S-04	22S-04	0.0	1	0.0	6.1526	None	730.05E-6	0.015777	0.016684	-181.57E-6	112.17E-6	63349. 0	(Negligible)
						2	6.1526	1.3029	None	38.849E-6	0.018536	0.018548	-191.23E-6	64.470E-6	207170. 0	(Negligible)
		102	23K-01	23K-01	0.0	1	0.0	5.8320	None	0.0014352	0.0049366	0.0066642	-51.548E-6	140.61E-6	16724. 0	(Negligible)
		103	23K-02	23K-02	0.0	1	0.0	9.5176	None	0.0013456	0.027812	0.027808	-269.15E-6	123.94E-6	59732. 0	(Negligible)
						2	9.5176	0.14736	None	0.0	0.026922	0.026922	-269.15E-6	27.970E-6	4.0648E+6 0	(Negligible)
		104	23K-03	23K-03	0.0	1	0.0	5.8540	None	37.779E-6	0.0038366	0.0038822	-40.507E-6	-14.545E-6	1.1368E+6 0	(Negligible)
		105	23K-04	23K-04	0.0	1	0.0	5.1820	None	72.558E-6	0.0043700	0.0044509	-45.666E-6	-19.312E-6	672330. 0	(Negligible)
		106	23K-05	23K-05	0.0	1	0.0	5.5460	None	121.23E-6	0.0047557	0.0048972	-49.662E-6	-26.835E-6	465100. 0	(Negligible)
		107	23K-06	23K-06	0.0	1	0.0	1.0005	None	66.403E-6	0.0044513	0.0044682	-49.383E-6	-24.600E-6	122210. 0	(Negligible)
						2	1.0005	4.3435	None	102.48E-6	0.0040269	0.0041275	-40.268E-6	-29.891E-6	483020. 0	(Negligible)
		108	23K-07	23K-07	0.0	1	0.0	5.5350	None	154.00E-6	0.0040109	0.0041903	-40.107E-6	-39.777E-6	414170. 0	(Negligible)
		109	23K-08	23K-08	0.0	1	0.0	9.8490	None	0.0070463	0.033489	0.044013	-334.78E-6	-518.16E-6	5492.7 0	(Negligible)
		110	23K-09	23K-09	0.0	1	0.0	5.5350	None	167.67E-6	0.0041691	0.0043645	-41.689E-6	183.93E-6	383960. 0	(Negligible)
		111	23K-10	23K-10	0.0	1	0.0	3.1814	None	180.64E-6	0.0061051	0.0062426	-62.496E-6	-189.12E-6	216490. 0	(Negligible)
						2	3.1814	1.6103	None	448.15E-6	0.0050542	0.0052359	-62.496E-6	-189.12E-6	49584. 0	(Negligible)
						3	4.7918	0.55222	None	17.135E-6	0.0040340	0.0040364	-40.339E-6	-171.38E-6	402870. 0	(Negligible)
		112	23K-11	23K-11	0.0	1	0.0	10.328	None	0.0075159	0.033482	0.044792	-334.71E-6	490.35E-6	4796.7 0	(Negligible)
		113	23K-12	23K-12	0.0	1	0.0	10.402	None	0.0062776	0.031150	0.040606	-323.26E-6	-441.96E-6	5103.0 0	(Negligible)
		114	23K-13	23K-13	0.0	1	0.0	5.5300	None	312.80E-6	0.0059817	0.0063459	-61.998E-6	180.47E-6	214550. 0	(Negligible)
		115	23K-14	23K-14	0.0	1	0.0	5.1930	None	543.49E-6	0.0053652	0.0059722	-55.615E-6	-156.32E-6	6065.3 0	(Negligible)
		116	23K-15	23K-15	0.0	1	0.0	10.168	None	0.0041109	0.029379	0.035551	-305.27E-6	395.65E-6	5406.9 0	(Negligible)
		117	23K-16	23K-16	0.0	1	0.0	10.285	None	0.0024962	0.027630	0.031385	-287.96E-6	-360.90E-6	2437.8 0	(Negligible)
		118	23K-17	23K-17	0.0	1	0.0	4.5090	None	157.85E-6	0.0041158	0.0043469	-41.156E-6	-62.596E-6	348990. 0	(Negligible)
		119	23K-18	23K-18	0.0	1	0.0	0.17174	None	0.0	0.033614	0.033614	-336.03E-6	-185.92E-6	12597. 0	(Negligible)
						2	0.17174	5.1753	None	0.0031457	0.033614	0.038349	-336.03E-6	-488.08E-6	4346.5 0	(Negligible)
		120	23K-19	23K-19	0.0	1	0.0	4.5380	None	149.19E-6	0.0040761	0.0042949	-40.759E-6	171.06E-6	366360. 0	(Negligible)
		121	23AB-01	23AB-01	0.0	1	0.0	4.0040	None	1.1534E-6	264.65E-6	265.40E-6	-2.6494E-6	41.755E-6	38.307E+6 0	(Negligible)
		122	23AB-02	23AB-02	0.0	1	0.0	0.21700	None	9.6127E-6	0.055701	0.055701	-556.95E-6	606.72E-6	280640. 1	(Very Slight)
		123	23AB-03	23AB-03	0.0	1	0.0	4.7900	None	621.99E-9	276.80E-6	277.27E-6	-2.7712E-6	42.901E-6	70.838E+6 0	(Negligible)
		124	23AB-04	23AB-04	0.0	1	0.0	6.4460	None	0.0017007	0.057682	0.059338	-602.63E-6	-607.57E-6	24283. 1	(Very Slight)
		125	23AB-05	23AB-05	0.0	1	0.0	1.0140	None	2.5867E-6	284.18E-6	284.64E-6	-2.8432E-6	32.612E-6	4.8559E+6 0	(Negligible)
		126	23AB-06	23AB-06	0.0	1	0.0	6.4020	None	0.0057655	0.064742	0.070327	-693.99E-6	-465.43E-6	9895.0 1	(Very Slight)
		127	23AB-07	23AB-07	0.0	1	0.0	5.0370	None	43.743E-6	456.26E-6	491.13E-6	-4.5852E-6	2.4071E-6	1.4095E+6 0	(Negligible)
		128	23AB-08	23AB-08	0.0	1	0.0	0.28100	None	376.03E-6	0.070358	0.070376	-704.39E-6	-24.086E-6	9269.8 1	(Very Slight)
		129	23AB-09	23AB-09	0.0	1	0.0	5.6300	None	29.423E-6	272.53E-6	298.23E-6	-2.7369E-6	2.3416E-6	2.3481E+6 0	(Negligible)
		130	23AB-10	23AB-10	0.0	1	0.0	3.0530	None	0.0035607	0.068055	0.069860	-703.62E-6	231.34E-6	9359.3 1	(Very Slight)
		131	23AB-11	23AB-11	0.0	1	0.0	1.8460	None	8.3206E-6	307.23E-6	309.81E-6	-3.0757E-6	17.487E-6	2.7460E+6 0	(Negligible)
		132	23AB-12	23AB-12	0.0	1	0.0	2.8680	None	0.0022535	0.063363	0.064440	-650.12E-6	425.07E-6	13690. 1	(Very Slight)
		133	23AB-13	23AB-13	0.0	1	0.0	1.0320	None	4.9670E-6	469.58E-6	470.46E-6	-4.6989E-6	-38.191E-6	2.5691E+6 0	(Negligible)

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
		134	23AB-14	23AB-14	0.0	1	0.0	6.4610	None	0.0021618	0.058375	0.060484	-612.44E-6	603.74E-6	20811.	1 (Very Slight)
		135	23AB-15	23AB-15	0.0	1	0.0	7.7350	None	43.230E-6	579.70E-6	627.74E-6	-5.8368E-6	46.025E-6	2.1060E+6	0 (Negligible)
		136	28K-01	28K-01	0.0	All vertical displacements are less than the limit sensitivity.										
		137	28K-02	28K-02	0.0	All vertical displacements are less than the limit sensitivity.										
		138	28K-03	28K-03	0.0	1	4.9736	2.5778	None	160.08E-6	0.029872	0.029973	-298.63E-6	-48.422E-6	97969.	0 (Negligible)
						2	7.5515	1.4005	None	42.907E-6	0.029872	0.029887	-298.63E-6	-35.415E-6	281710.	0 (Negligible)
		139	28K-04	28K-04	0.0	1	0.0	2.8795	None	20.925E-6	0.0071413	0.0071560	-71.408E-6	17.573E-6	1.0007E+6	0 (Negligible)
						2	2.8795	4.8255	None	65.929E-6	0.0071414	0.0072113	-71.409E-6	20.835E-6	490390.	0 (Negligible)
		140	28K-05	28K-05	0.0	1	0.0	0.0	None	0.0	0.0	35.763E-9	-302.06E-6	46.209E-6	91824.	0 (Negligible)
		141	28K-06	28K-06	0.0	All vertical displacements are less than the limit sensitivity.										
		142	28K-07	28K-07	0.0	All vertical displacements are less than the limit sensitivity.										

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Specific Building Damage Results - Critical Values for All Segments within Each Sub-Building

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Slope	Max Settlement [mm]	Max Tensile Strain [%]	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging) [m]	Min Radius of Curvature (Sagging) [m]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	0.0020259	0.026562	-348.43E-6	10.159	0.026971	-285.35E-6	-348.43E-6	-	-	0 (Negligible)
		2	16S-02	16S-02	0.0	0.017033	0.050980	0.0020792	10.159	0.067845	0.0066237	0.0020792	-	-	1 (Very Slight)
		3	16S-03	16S-03	0.0	0.015164	-0.028121	0.0014479	6.6423	0.011193	0.0062350	0.0014479	-	-	0 (Negligible)
		4	16S-04	16S-04	0.0	0.0085084	0.032524	-502.75E-6	5.2454	0.032571	-342.17E-6	-502.75E-6	-	-	0 (Negligible)
		5	16S-05	16S-05	0.0	0.0030935	0.045743	-168.74E-6	5.0828	0.046631	-540.52E-6	-168.74E-6	-	-	0 (Negligible)
		6	16S-06	16S-06	0.0	0.0018785	0.080437	-569.01E-6	8.3599	0.080449	-823.06E-6	-569.01E-6	-	-	2 (Slight)
		7	BS-01	BS-01	0.0	0.15456	-0.10892	-0.0065580	10.376	0.12407	0.0018495	-0.0065580	-	51.220	2 (Slight)
		8	BS-02	BS-02	0.0	0.0089792	0.083324	729.94E-6	10.376	0.085169	-933.53E-6	729.94E-6	-	-	2 (Slight)
		21	BS-15	BS-15	0.0	326.10E-6	0.024405	-242.34E-6	0.87137	0.024405	-245.73E-6	-242.34E-6	-	-	0 (Negligible)
		22	BS-16	BS-16	0.0	0.0018376	0.030636	-377.76E-6	2.4332	0.031755	-364.14E-6	-377.76E-6	-	-	0 (Negligible)
		23	BS-17	BS-17	0.0	247.16E-6	-0.0058951	146.70E-6	2.4336	0.0011876	63.272E-6	146.70E-6	-	-	0 (Negligible)
		24	BS-18	BS-18	0.0	0.0040884	0.025265	-388.07E-6	4.7495	0.025316	544.93E-6	-388.07E-6	-	-	0 (Negligible)
		27	SB-03	SB-03	0.0	0.0061046	0.041621	-684.03E-6	3.2616	0.046299	-631.13E-6	-684.03E-6	-	-	0 (Negligible)
		28	SB-04	SB-04	0.0	0.060102	-0.048920	0.0032237	4.8057	0.050938	0.0015454	0.0032237	-	-	1 (Very Slight)
		29	SB-05	SB-05	0.0	0.0040791	0.039011	489.68E-6	4.3228	0.040569	-429.90E-6	489.68E-6	-	-	0 (Negligible)
		39	HL-01	HL-01	0.0	558.40E-6	0.0049829	-152.51E-6	0.92860	0.0049829	-53.897E-6	-152.51E-6	-	-	0 (Negligible)
		40	HL-02	HL-02	0.0	325.70E-6	0.018336	235.17E-6	0.92863	0.018336	-184.45E-6	235.17E-6	-	-	0 (Negligible)
		42	CH-01	CH-01	0.0	0.0014787	-0.032088	-328.49E-6	4.9201	0.020257	476.09E-6	-328.49E-6	-	-	0 (Negligible)
		43	CH-02	CH-02	0.0	0.012444	-0.19223	418.27E-6	6.7600	0.039110	0.0029621	418.27E-6	-	-	0 (Negligible)
		44	CH-03	CH-03	0.0	0.0088725	0.036463	465.80E-6	5.6816	0.040375	748.24E-6	465.80E-6	-	-	0 (Negligible)
		46	CH-05	CH-05	0.0	0.0035716	0.024562	304.64E-6	5.5332	0.053089	-663.43E-6	304.64E-6	-	-	1 (Very Slight)
		47	CH-06	CH-06	0.0	0.0033547	0.027801	406.25E-6	4.8887	0.031778	-344.38E-6	406.25E-6	-	-	0 (Negligible)
		48	CH-07	CH-07	0.0	708.72E-6	0.0011609	117.09E-6	0.56182	0.0022315	-31.030E-6	117.09E-6	-	-	0 (Negligible)
		53	10S-01	10S-01	0.0	0.0019020	0.035047	360.38E-6	1.7357	0.036470	-479.62E-6	360.38E-6	-	-	0 (Negligible)
		59	10S-07	10S-07	0.0	0.0010060	0.020006	-285.50E-6	1.4068	0.020659	-292.05E-6	-285.50E-6	-	-	0 (Negligible)
		60	10S-08	10S-08	0.0	0.0017812	-0.0085290	-113.23E-6	1.7632	0.0019446	106.20E-6	-113.23E-6	-	-	0 (Negligible)
		64	12S-01	12S-01	0.0	0.0075431	-0.068091	-301.42E-6	7.2524	0.039007	992.66E-6	-301.42E-6	-	-	0 (Negligible)
		65	12S-02	12S-02	0.0	0.0034070	0.057896	649.88E-6	7.1293	0.060472	-614.80E-6	649.88E-6	-	-	1 (Very Slight)
		66	12S-03	12S-03	0.0	0.0019343	0.027792	-107.73E-6	3.9476	0.027792	-277.89E-6	-107.73E-6	-	-	0 (Negligible)
		67	12S-04	12S-04	0.0	0.0023270	0.055472	590.77E-6	3.9477	0.057114	-565.85E-6	590.77E-6	-	-	1 (Very Slight)
		68	12S-05	12S-05	0.0	0.0017973	0.021163	109.58E-6	1.7705	0.021195	-242.74E-6	109.58E-6	-	-	0 (Negligible)
		69	12S-06	12S-06	0.0	0.0011225	0.025761	-413.41E-6	4.6772	0.026537	-291.77E-6	-413.41E-6	-	-	0 (Negligible)
		70	14S-01	14S-01	0.0	0.0030226	0.029001	-245.89E-6	12.001	0.029898	-364.67E-6	-245.89E-6	-	-	0 (Negligible)
		71	14S-02	14S-02	0.0	0.0077620	-0.056727	999.47E-6	12.001	0.024822	588.29E-6	999.47E-6	-	-	0 (Negligible)
		72	14S-03	14S-03	0.0	0.0017780	-0.010678	113.37E-6	2.7357	0.0022876	185.38E-6	113.37E-6	-	-	0 (Negligible)
		73	14S-04	14S-04	0.0	0.0016865	0.013805	390.37E-6	2.4524	0.013811	-154.58E-6	390.37E-6	-	-	0 (Negligible)
		74	14S-05	14S-05	0.0	0.0023693	0.0038266	133.75E-6	1.6757	0.0040311	-58.968E-6	133.75E-6	-	-	0 (Negligible)
		75	14S-06	14S-06	0.0	103.47E-6	0.0067276	91.809E-6	1.2961	0.0067908	-86.671E-6	91.809E-6	-	-	0 (Negligible)
		76	14S-07	14S-07	0.0	0.0025949	-0.0013237	-420.47E-6	3.2873	0.0019624	72.523E-6	-420.47E-6	-	-	0 (Negligible)
		77	14S-08	14S-08	0.0	0.0022110	0.019370	-144.05E-6	3.9649	0.020222	-204.40E-6	-144.05E-6	-	-	0 (Negligible)
		78	14S-09	14S-09	0.0	161.68E-6	-0.013261	-554.31E-6	6.9483	0.0026524	144.17E-6	-554.31E-6	-	-	0 (Negligible)
		79	14S-10	14S-10	0.0	124.61E-6	0.031456	-144.80E-6	7.1572	0.031502	-321.44E-6	-144.80E-6	-	-	0 (Negligible)
		80	14S-11	14S-11	0.0	0.0034137	-0.033009	-739.34E-6	11.043	0.0066043	378.44E-6	-739.34E-6	-	-	0 (Negligible)
		81	14S-12	14S-12	0.0	0.0030304	0.011867	544.39E-6	3.9649	0.011867	-118.15E-6	544.39E-6	-	-	0 (Negligible)
		82	18S-01	18S-01	0.0	0.0013084	0.020937	265.26E-6	5.0859	0.020975	-210.59E-6	265.26E-6	-	-	0 (Negligible)
		83	18S-02	18S-02	0.0	0.0032605	0.061952	-627.68E-6	6.8087	0.065606	-686.32E-6	-627.68E-6	-	-	1 (Very Slight)
		84	18S-03	18S-03	0.0	670.30E-6	-0.017283	-392.51E-6	7.5921	0.0034640	178.50E-6	-392.51E-6	-	-	0 (Negligible)
		85	18S-04	18S-04	0.0	584.56E-6	0.074419	647.40E-6	7.5924	0.074592	-758.62E-6	647.40E-6	-	-	1 (Very Slight)
		86	18S-05	18S-05	0.0	767.26E-6	0.0030119	-309.27E-6	8.3607	0.0037970	-193.80E-6	-309.27E-6	-	-	0 (Negligible)
		87	20S-01	20S-01	0.0	561.19E-6	0.049685	375.18E-6	2.9501	0.049896	-498.47E-6	375.18E-6	-	-	0 (Negligible)
		88	20S-02	20S-02	0.0	0.0046789	-0.0082815	254.16E-6	2.1513	0.0034544	83.354E-6	254.16E-6	-	-	0 (Negligible)
		89	20S-03	20S-03	0.0	0.0036562	0.041542	-524.11E-6	5.1528	0.046308	-467.91E-6	-524.11E-6	-	-	0 (Negligible)
		90	20S-04	20S-04	0.0	0.0014478	-0.024198	-316.27E-6	6.8133	0.0048970	245.36E-6	-316.27E-6	-	-	0 (Negligible)
		91	20S-05	20S-05	0.0	73.700E-6	-0.0079504	86.989E-6	1.4815	0.0015906	81.958E-6	86.989E-6	-	-	0 (Negligible)
		92	20S-06	20S-06	0.0	0.0023637	0.031528	-413.88E-6	4.1092	0.031572	-362.11E-6	-413.88E-6	-	-	0 (Negligible)
		93	20S-07	20S-07	0.0	242.40E-6	-0.022375	-337.32E-6	5.1475	0.0044970	233.43E-6	-337.32E-6	-	-	0 (Negligible)
		94	HT-01	HT-01	0.0	166.55E-6	0.034508	197.43E-6	1.2590	0.034556	-348.70E-6	197.43E-6	-	-	0 (Negligible)
		95	HT-02	HT-02	0.0	0.0012359	-0.0023777	85.604E-6	1.0425	0.0015358	51.732E-6	85.604E-6	-	-	0 (Negligible)
		96	HT-03	HT-03	0.0	415.60E-6	0.016197	-78.110E-6	0.50131	0.016206	-162.67E-6	-78.110E-6	-	-	0 (Negligible)
		97	HT-04	HT-04	0.0	0.0028635	-0.016694	-344.11E-6	3.8388	0.0033388	166.97E-6	-344.11E-6	-	-	0 (Negligible)
		99	22S-02	22S-02	0.0	0.0013774	0.024126	-129.62E-6	0.67567	0.024137	-242.88E-6	-129.62E-6	-	-	0 (Negligible)
		100	22S-03	22S-03	0.0	569.78E-6	-0.0051890	-23.293E-6	0.71663	0.0010676	96.968E-6	-23.293E-6	-	-	0 (Negligible)
		101	22S-04	22S-04	0.0	730.05E-6	0.018536	112.17E-6	0.68124	0.018548	-191.23E-6	112.17E-6	-	-	0 (Negligible)
		102	23K-01	23K-01	0.0	0.0014352	0.0049366	140.61E-6	1.2559	0.0066642	-51.548E-6	140.61E-6	-	-	0 (Negligible)
		103	23K-02	23K-02	0.0	0.0013456	0.026922	123.94E-6	0.76820	0.027808	-269.15E-6	123.94E-6	-	-	0 (Negligible)
		104	23K-03	23K-03	0.0	37.779E-6	0.0038366	-14.545E-6	0.23096	0.0038822	-40.507E-6	-14.545E-6	-	-	0 (Negligible)
		105	23K-04	23K-04	0.0	72.558E-6	0.0043700	-19.312E-6	0.29613	0.0044509	-45.666E-6	-19.312E-6	-	-	0 (Negligible)
		106	23K-05	23K-05	0.0	121.23E-6	0.0047557	-26.835E-6	0.39373	0.0048972	-49.662E-6	-26.835E-6	-	-	0 (Negligible)
		107	23K-06	23K-06	0.0	102.48E-6	0.0044513	-29.891E-6	0.49304	0.0044682	-49.383E-6	-29.891E-6	-	-	0 (Negligible)
		108	23K-07	23K-07	0.0	154.00E-6	0.0040109	-39.777E-6	0.64855	0.0041903	-40.107E-6	-39.777E-6	-	-	0 (Negligible)
		109	23K-08	23K-08	0.0	0.0070463	0.033489	-518.16E-6	4.0327	0.044013	-334.78E-6	-518.16E-6	-	-	0 (Negligible)
		110	23K-09	23K-09	0.0	167.67E-6	0.0041691	183.93E-6	4.0332	0.0043645	-41.689E-6	183.93E-6	-	-	0 (Negligible)
		111	23K-10	23K-10	0.0	448.15E-6	0.0061051	-189.12E-6	3.3005	0.0062426	-62.496E-6	-189.12E-6	-	-	0 (Negligible)
		112	23K-11	23K-11	0.0	0.0075159	0.033482	490.35E-6	3.3006	0.044792	-334.71E-6	490.35E-6	-	-	0 (Negligible)
		113	23K-12	23K-12	0.0	0.0062776	0.031150	-441.96E-6	2.5448	0.040606	-323.26E-6	-441.96E-6	-	-	0 (Negligible)
		114	23K-13	23K-13	0.0	312.80E-6	0.0059817	180.47E-6	2.5449	0.0063459	-61.998E-6	180.47E-6	-	-	0 (Negligible)
		115	23K-14	23K-14	0.0	543.49E-6	0.0053652	-156.32E-6	1.7720	0.0059722	-55.615E-6	-156.32E-6	-	-	0 (Negligible)
		116	23K-15	23K-15	0.0	0.0041109	0.029379	395.65E-6	1.7721	0.035551	-305.27E-6	395.65E-6	-	-	0 (Negligible)
		117	23K-16	23K-16	0.0	0.0024962	0.027630	-360.90E-6	1.2558	0.031385	-287.96E-6	-360.90E-6	-	-	0 (Negligible)
		118	23K-17	23K-17	0.0	157.85E-6	0.0041158	-62.596E-6	1.0751	0.0043469	-41.156E-6	-62.596E-6	-	-	0 (Negligible)
		119	23K-18	23K-18	0.0	0.0031457	0.033614	-488.08E-6	3.2176	0.038349	-336.03E-6	-488.08E-6	-	-	0 (Negligible)
		120	23K-19	23K-19	0.0	149.19E-6	0.0040761	171.06E-6	3.2180	0.0042949	-40.759E-6	171.06E-6	-	-	0 (Negligible)
		121	23AB-01	23AB-01	0.0	1.1534E-6	264.65E-6	41.755E-6	7.7552	265.40E-6	-2.6494E-6	41.755E-6	-	-	0 (Negligible)
		122	23AB-02	23AB-02	0.0	9.6127E-6	0.055701	606.72E-6	7.5881	0.055701	-556.95E-6	606.72E-6	-	-	1 (Very Slight)
		123	23AB-03	23AB-03	0.0	621.99E-9	276.80E-6	42.901E-6	7.4559	277.27E-6	-2.7712E-6	42.901E-6	-	-	0 (Negligible)
		124	23AB-04	23AB-04	0.0	0.0017007	0.057682	-607.57E-6	10.885	0.059338	-602.63E-6	-607.57E-6	-	-	1 (Very Slight)
		125	23AB-05	23AB-05	0.0	2.5867E-6	284.18E-6	32.612E-6	10.885	284.64E-6	-2.8432E-6	32.612E-6	-	-	0 (Negligible)
		126	23AB-06	23AB-06	0.0	0.0057655	0.064742	-465.43E-6	12.623	0.070327	-693.99E-6	-465.43E-6	-	-	1 (Very Slight)
		127	23AB-07	23AB-07	0.0	43.743E-6	456.26E-6	2.4071E-6	12.624	491.13E-6	-4.5852E-6	2.4071E-6	-	-	0 (Negligible)
		128	23AB-08	23AB-08	0.0	376.03E-6	0.070358	-24.086E-6	12.624	0.070376	-704.39E-6	-24.086E-6	-	-	1 (Very Slight)
		129	23AB-09	23AB-09	0.0	29.423E-6	272.53E-6	2.3416E-6	12.624	298.23E-6	-2.7369E-6	2.3416E-6	-	-	0 (Negligible)
		130	23AB-10	23AB-10	0.0	0.0035607	0.068055	231.34E-6	12.624	0.069860	-703.62E-6	231.34E-6	-	-	1 (Very Slight)
		131	23AB-11	23AB-11	0.0	8.3206E-6	307.23E-6	17.487E-6	12.275	309.81E-6	-3.0757E-6	17.487E-6	-	-	0 (Negligible)
		132	23AB-12	23AB-12	0.0	0.0022535	0.063363	425.07E-6	12.244	0.064440	-650.12E-6	425.07E-6	-	-	1 (Very Slight)
		133	23AB-13	23AB-13	0.0	4.9670E-6	469.58E-6	-38.191E-6	11.269	470.46E-6	-4.6989E-6	-38.191E-6	-	-	0 (Negligible)
		134	23AB-14	23AB-14	0.0	0.0021618	0.058375	603.74E-6	11.269	0.060484	-612.44E-6	603.74E-6	-	-	1 (Very Slight)
		135	23AB-15	23AB-15	0.0	43.230E-6	579.70E-6	46.025E-6	11.230	627.74E-6	-5.8368E-6	46.025E-6	-	-	0 (Negligible)
		138	28K-03	28K-03	0.0	160.08E-6	0.029872	-48.422E-6	0.25117	0.029973	-298.63E-6	-48.422E-6	-	-	0 (Negligible)
		139	28K-04	28K-04	0.0	65.929E-6	0.0071414	20.835E-6	0.25119	0.0072113	-71.409E-6	20.835E-6	-	-	0 (Negligible)
		140	28K-05	28K-05	0.0	0.0	0.0	46.209E-6	0.11680	35.763E-9	-302.06E-6	46.209E-6	-	-	0 (Negligible)

Specific Building Damage Results - Critical Segments within Each Building

Stage Ref.	Stage: Name	Specific	Specific	Parameter	Critical	Critical	Start	End	Curvature	Max Slope	Max	Max	Min	Min	Damage Category

Ref.	Building: Ref.	Building: Name	Sub-Building	Segment				Settlement [mm]	Tensile Strain [%]	Radius of Curvature (Hogging) [m]	Radius of Curvature (Sagging) [m]	
0 Base Model	0	16S-01	Max Slope	16S-01	2	4.8298	6.0170 None	**348.43E-6**	10.159	0.026971	-	- 0 (Negligible)
			Max Settlement	16S-01	2	4.8298	6.0170 None	348.43E-6	**10.159**	0.026971	-	- 0 (Negligible)
			Max Tensile Strain	16S-01	2	4.8298	6.0170 None	348.43E-6	10.159	**0.026971**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	16S-02	Max Slope	16S-02	1	0.0	6.5880 None	**0.0020792**	10.159	0.067845	-	- 1 (Very Slight)
			Max Settlement	16S-02	1	0.0	6.5880 None	0.0020792	**10.159**	0.067845	-	- 1 (Very Slight)
			Max Tensile Strain	16S-02	1	0.0	6.5880 None	0.0020792	10.159	**0.067845**	-	- 1 (Very Slight)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	16S-03	Max Slope	16S-03	1	0.0	2.8020 None	**0.0014479**	6.6423	0.011193	-	- 0 (Negligible)
			Max Settlement	16S-03	1	0.0	2.8020 None	0.0014479	**6.6423**	0.011193	-	- 0 (Negligible)
			Max Tensile Strain	16S-03	1	0.0	2.8020 None	0.0014479	6.6423	**0.011193**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	16S-04	Max Slope	16S-04	2	1.9321	3.0942 None	**502.75E-6**	5.1135	0.030056	-	- 0 (Negligible)
			Max Settlement	16S-04	3	3.0942	5.5091 None	502.75E-6	**5.2454**	0.028323	-	- 0 (Negligible)
			Max Tensile Strain	16S-04	1	0.0	1.9321 None	60.722E-6	5.1652	**0.032571**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	16S-05	Max Slope	16S-05	1	0.0	1.6930 None	**168.74E-6**	4.9114	0.046631	-	- 0 (Negligible)
			Max Settlement	16S-05	2	1.6930	2.9710 None	152.51E-6	**5.0828**	0.043543	-	- 0 (Negligible)
			Max Tensile Strain	16S-05	1	0.0	1.6930 None	168.74E-6	4.9114	**0.046631**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	16S-06	Max Slope	16S-06	2	0.16973	4.2784 None	**569.01E-6**	7.2614	0.050102	-	- 1 (Very Slight)
			Max Settlement	16S-06	4	5.2694	6.2230 None	565.88E-6	**8.3599**	0.080449	-	- 2 (Slight)
			Max Tensile Strain	16S-06	4	5.2694	6.2230 None	565.88E-6	8.3599	**0.080449**	-	- 2 (Slight)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	BS-01	Max Slope	BS-01	6	9.1272	12.148 None	**0.0065580**	8.1658	0.048990	-	- 0 (Negligible)
			Max Settlement	BS-01	7	12.148	12.978 Sagging	0.0065580	**10.376**	0.12407	-	51.220 2 (Slight)
			Max Tensile Strain	BS-01	7	12.148	12.978 Sagging	0.0065580	10.376	**0.12407**	-	51.220 2 (Slight)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)	BS-01	7	12.148	12.978 Sagging	0.0065580	10.376	0.12407	-	**51.220** 2 (Slight)
	0	BS-02	Max Slope	BS-02	1	0.0	4.6343 None	**729.94E-6**	10.376	0.085169	-	- 2 (Slight)
			Max Settlement	BS-02	1	0.0	4.6343 None	729.94E-6	**10.376**	0.085169	-	- 2 (Slight)
			Max Tensile Strain	BS-02	1	0.0	4.6343 None	729.94E-6	10.376	**0.085169**	-	- 2 (Slight)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	BS-03	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-04	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-05	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-06	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-07	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-08	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-09	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-10	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-11	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-12	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-13	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-14	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									
	0	BS-15	Max Slope	BS-15	3	15.037	16.990 None	**242.34E-6**	0.87137	0.023794	-	- 0 (Negligible)
			Max Settlement	BS-15	3	15.037	16.990 None	242.34E-6	**0.87137**	0.023794	-	- 0 (Negligible)
			Max Tensile Strain	BS-15	1	13.992	14.402 None	236.08E-6	0.27779	**0.024405**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	BS-16	Max Slope	BS-16	1	0.0	4.9560 None	**377.76E-6**	2.4332	0.031755	-	- 0 (Negligible)
			Max Settlement	BS-16	1	0.0	4.9560 None	377.76E-6	**2.4332**	0.031755	-	- 0 (Negligible)
			Max Tensile Strain	BS-16	1	0.0	4.9560 None	377.76E-6	2.4332	**0.031755**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	BS-17	Max Slope	BS-17	1	0.0	0.81700 None	**146.70E-6**	2.4336	0.0011876	-	- 0 (Negligible)
			Max Settlement	BS-17	1	0.0	0.81700 None	146.70E-6	**2.4336**	0.0011876	-	- 0 (Negligible)
			Max Tensile Strain	BS-17	1	0.0	0.81700 None	146.70E-6	2.4336	**0.0011876**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	BS-18	Max Slope	BS-18	1	0.0	1.7603 None	**388.07E-6**	2.9898	0.025316	-	- 0 (Negligible)
			Max Settlement	BS-18	2	1.7603	7.9400 None	388.07E-6	**4.7495**	0.0028796	-	- 0 (Negligible)
			Max Tensile Strain	BS-18	1	0.0	1.7603 None	388.07E-6	2.9898	**0.025316**	-	- 0 (Negligible)
			Min Radius of Curvature (Hogging)		-	-	- -	-	-	-	-	- -
			Min Radius of Curvature (Sagging)		-	-	- -	-	-	-	-	- -
	0	SB-01	All vertical displacements are less than the limit sensitivity.									
			All vertical displacements are less than the limit sensitivity.									

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-02	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-03	Max Slope	SB-03	3	22.512	28.926	None	**684.03E-6**	3.2616	0.046299	-	-	0 (Negligible)
				Max Settlement	SB-03	3	22.512	28.926	None	684.03E-6	**3.2616**	0.046299	-	-	0 (Negligible)
				Max Tensile Strain	SB-03	3	22.512	28.926	None	684.03E-6	3.2616	**0.046299**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	SB-04	Max Slope	SB-04	4	3.1673	4.2939	None	**0.0032237**	4.8057	0.050938	-	-	1 (Very Slight)
				Max Settlement	SB-04	4	3.1673	4.2939	None	0.0032237	**4.8057**	0.050938	-	-	1 (Very Slight)
				Max Tensile Strain	SB-04	4	3.1673	4.2939	None	0.0032237	4.8057	**0.050938**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	SB-05	Max Slope	SB-05	1	0.0	1.2665	None	**489.68E-6**	4.3228	0.039043	-	-	0 (Negligible)
				Max Settlement	SB-05	1	0.0	1.2665	None	489.68E-6	**4.3228**	0.039043	-	-	0 (Negligible)
				Max Tensile Strain	SB-05	2	1.2665	10.401	None	489.68E-6	3.7085	**0.040569**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	SB-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-07	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-08	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-09	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-10	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-11	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-12	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-13	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-14	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	HL-01	Max Slope	HL-01	1	8.6807	8.9927	None	**152.51E-6**	0.16317	0.0049829	-	-	0 (Negligible)
				Max Settlement	HL-01	2	8.9927	15.432	None	145.87E-6	**0.92860**	0.0024145	-	-	0 (Negligible)
				Max Tensile Strain	HL-01	1	8.6807	8.9927	None	152.51E-6	0.16317	**0.0049829**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	HL-02	Max Slope	HL-02	3	3.3339	3.7421	None	**235.17E-6**	0.20063	0.018336	-	-	0 (Negligible)
				Max Settlement	HL-02	1	0.0	2.2462	None	232.10E-6	**0.92863**	0.016483	-	-	0 (Negligible)
				Max Tensile Strain	HL-02	3	3.3339	3.7421	None	235.17E-6	0.20063	**0.018336**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	HL-03	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	CH-01	Max Slope	CH-01	1	0.0	5.4723	None	**328.49E-6**	2.5365	0.020257	-	-	0 (Negligible)
				Max Settlement	CH-01	4	10.221	13.710	None	323.51E-6	**4.9201**	0.0064698	-	-	0 (Negligible)
				Max Tensile Strain	CH-01	1	0.0	5.4723	None	328.49E-6	2.5365	**0.020257**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-02	Max Slope	CH-02	5	13.596	24.276	None	**418.27E-6**	6.7600	0.0032572	-	-	0 (Negligible)
				Max Settlement	CH-02	5	13.596	24.276	None	418.27E-6	**6.7600**	0.0032572	-	-	0 (Negligible)
				Max Tensile Strain	CH-02	2	3.6158	5.1687	None	403.15E-6	5.5696	**0.039110**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-03	Max Slope	CH-03	1	0.0	7.4376	None	**465.80E-6**	5.6816	0.032910	-	-	0 (Negligible)
				Max Settlement	CH-03	1	0.0	7.4376	None	465.80E-6	**5.6816**	0.032910	-	-	0 (Negligible)
				Max Tensile Strain	CH-03	2	7.4376	16.831	None	465.80E-6	3.6602	**0.040375**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-04	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	CH-05	Max Slope	CH-05	1	0.0	3.4620	None	**304.64E-6**	5.5332	0.053089	-	-	1 (Very Slight)
				Max Settlement	CH-05	1	0.0	3.4620	None	304.64E-6	**5.5332**	0.053089	-	-	1 (Very Slight)
				Max Tensile Strain	CH-05	1	0.0	3.4620	None	304.64E-6	5.5332	**0.053089**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-06	Max Slope	CH-06	1	0.0	5.3778	None	**406.25E-6**	4.8887	0.011105	-	-	0 (Negligible)
				Max Settlement	CH-06	1	0.0	5.3778	None	406.25E-6	**4.8887**	0.011105	-	-	0 (Negligible)
				Max Tensile Strain	CH-06	2	5.3778	13.451	None	406.25E-6	3.1551	**0.031778**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-07	Max Slope	CH-07	1	0.0	5.3294	None	**117.09E-6**	0.56182	0.0022315	-	-	0 (Negligible)
				Max Settlement	CH-07	1	0.0	5.3294	None	117.09E-6	**0.56182**	0.0022315	-	-	0 (Negligible)
				Max Tensile Strain	CH-07	1	0.0	5.3294	None	117.09E-6	0.56182	**0.0022315**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	CH-08	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	CH-09	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
		0	CH-10	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	CH-11	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-01	Max Slope	10S-01	1	0.0	4.6829	None	**360.38E-6**	1.7357	0.036470	-	-	0 (Negligible)
				Max Settlement	10S-01	1	0.0	4.6829	None	360.38E-6	**1.7357**	0.036470	-	-	0 (Negligible)
				Max Tensile Strain	10S-01	1	0.0	4.6829	None	360.38E-6	1.7357	**0.036470**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	10S-02	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-03	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-04	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-05	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-07	Max Slope	10S-07	3	11.120	15.109	None	**285.50E-6**	1.4068	0.020659	-	-	0 (Negligible)
				Max Settlement	10S-07	3	11.120	15.109	None	285.50E-6	**1.4068**	0.020659	-	-	0 (Negligible)
				Max Tensile Strain	10S-07	3	11.120	15.109	None	285.50E-6	1.4068	**0.020659**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	10S-08	Max Slope	10S-08	1	0.0	6.3146	None	**113.23E-6**	1.7632	0.0019446	-	-	0 (Negligible)
				Max Settlement	10S-08	1	0.0	6.3146	None	113.23E-6	**1.7632**	0.0019446	-	-	0 (Negligible)
				Max Tensile Strain	10S-08	1	0.0	6.3146	None	113.23E-6	1.7632	**0.0019446**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	10S-09	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-10	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	10S-11	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	12S-01	Max Slope	12S-01	6	9.5444	11.324	None	**301.42E-6**	7.0020	0.037425	-	-	0 (Negligible)
				Max Settlement	12S-01	7	11.324	13.303	None	301.42E-6	**7.2524**	0.036967	-	-	0 (Negligible)
				Max Tensile Strain	12S-01	5	7.0890	9.5444	None	202.79E-6	6.6178	**0.039007**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	12S-02	Max Slope	12S-02	1	0.0	4.7378	None	**649.88E-6**	7.1293	0.060472	-	-	1 (Very Slight)
				Max Settlement	12S-02	1	0.0	4.7378	None	649.88E-6	**7.1293**	0.060472	-	-	1 (Very Slight)
				Max Tensile Strain	12S-02	1	0.0	4.7378	None	649.88E-6	7.1293	**0.060472**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	12S-03	Max Slope	12S-03	1	0.0	0.83395	None	**107.73E-6**	3.9173	0.027281	-	-	0 (Negligible)
				Max Settlement	12S-03	2	0.83395	1.1160	None	107.58E-6	**3.9476**	0.027792	-	-	0 (Negligible)
				Max Tensile Strain	12S-03	2	0.83395	1.1160	None	107.58E-6	3.9476	**0.027792**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	12S-04	Max Slope	12S-04	1	0.0	4.3770	None	**590.77E-6**	3.9477	0.057114	-	-	1 (Very Slight)
				Max Settlement	12S-04	1	0.0	4.3770	None	590.77E-6	**3.9477**	0.057114	-	-	1 (Very Slight)
				Max Tensile Strain	12S-04	1	0.0	4.3770	None	590.77E-6	3.9477	**0.057114**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	12S-05	Max Slope	12S-05	5	7.4512	13.722	None	**109.58E-6**	1.7705	0.0019563	-	-	0 (Negligible)
				Max Settlement	12S-05	5	7.4512	13.722	None	109.58E-6	**1.7705**	0.0019563	-	-	0 (Negligible)
				Max Tensile Strain	12S-05	1	0.0	0.61767	None	20.463E-6	1.6809	**0.021195**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	12S-06	Max Slope	12S-06	3	5.3969	7.0281	None	**413.41E-6**	4.0108	0.016800	-	-	0 (Negligible)
				Max Settlement	12S-06	4	7.0281	8.6960	None	410.84E-6	**4.6772**	0.011902	-	-	0 (Negligible)
				Max Tensile Strain	12S-06	1	0.0	4.2791	None	381.81E-6	2.9466	**0.026537**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-01	Max Slope	14S-01	2	2.9226	4.3551	None	**245.89E-6**	11.730	0.0042663	-	-	0 (Negligible)
				Max Settlement	14S-01	3	4.3551	5.8760	None	245.89E-6	**12.001**	0.0046632	-	-	0 (Negligible)
				Max Tensile Strain	14S-01	1	0.0	2.9226	None	191.41E-6	11.502	**0.029898**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-02	Max Slope	14S-02	1	0.0	1.4413	None	**999.47E-6**	12.001	0.012194	-	-	0 (Negligible)
				Max Settlement	14S-02	1	0.0	1.4413	None	999.47E-6	**12.001**	0.012194	-	-	0 (Negligible)
				Max Tensile Strain	14S-02	3	4.9512	14.763	None	709.50E-6	8.4694	**0.024822**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-03	Max Slope	14S-03	1	0.0	6.1150	None	**113.37E-6**	2.7357	0.0022876	-	-	0 (Negligible)
				Max Settlement	14S-03	1	0.0	6.1150	None	113.37E-6	**2.7357**	0.0022876	-	-	0 (Negligible)
				Max Tensile Strain	14S-03	1	0.0	6.1150	None	113.37E-6	2.7357	**0.0022876**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-04	Max Slope	14S-04	3	0.54656	2.2710	None	**390.37E-6**	2.2511	0.0012712	-	-	0 (Negligible)
				Max Settlement	14S-04	1	0.0	0.092956	None	367.48E-6	**2.4524**	0.013350	-	-	0 (Negligible)
				Max Tensile Strain	14S-04	2	0.092956	0.54656	None	369.80E-6	2.4182	**0.013811**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-05	Max Slope	14S-05	2	0.92618	2.4350	None	**133.75E-6**	1.5637	0.0022231	-	-	0 (Negligible)
				Max Settlement	14S-05	1	0.0	0.92618	None	128.63E-6	**1.6757**	587.48E-6	-	-	0 (Negligible)
				Max Tensile Strain	14S-05	3	2.4350	5.0320	None	64.680E-6	1.4376	**0.0040311**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-06	Max Slope	14S-06	1	0.0	2.4860	None	**91.809E-6**	1.2961	0.0067908	-	-	0 (Negligible)
				Max Settlement	14S-06	1	0.0	2.4860	None	91.809E-6	**1.2961**	0.0067908	-	-	0 (Negligible)
				Max Tensile Strain	14S-06	1	0.0	2.4860	None	91.809E-6	1.2961	**0.0067908**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -	
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -	
		0	14S-07	Max Slope	14S-07	1	0.0	6.3630	None	**420.47E-6**	3.2873	0.0019624	-	-	0 (Negligible)
				Max Settlement	14S-07	1	0.0	6.3630	None	420.47E-6	**3.2873**	0.0019624	-	-	0 (Negligible)

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				Max Tensile Strain	14S-07	1	0.0	6.3630	None	420.47E-6	3.2873	**0.0019624**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	14S-08		Max Slope	14S-08	4	2.9391	4.2061	None	**144.05E-6**	3.6501	0.014673	-	-	0 (Negligible)
				Max Settlement	14S-08	5	4.2061	7.5620	None	144.05E-6	**3.9649**	0.020222	-	-	0 (Negligible)
				Max Tensile Strain	14S-08	5	4.2061	7.5620	None	144.05E-6	3.9649	**0.020222**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	14S-09		Max Slope	14S-09	1	0.0	4.1308	None	**554.31E-6**	6.2328	872.72E-6	-	-	0 (Negligible)
				Max Settlement	14S-09	2	4.1308	5.4240	None	554.31E-6	**6.9483**	0.0026524	-	-	0 (Negligible)
				Max Tensile Strain	14S-09	2	4.1308	5.4240	None	554.31E-6	6.9483	**0.0026524**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	14S-10		Max Slope	14S-10	1	0.0	1.4740	None	**144.80E-6**	7.1572	0.031502	-	-	0 (Negligible)
				Max Settlement	14S-10	1	0.0	1.4740	None	144.80E-6	**7.1572**	0.031502	-	-	0 (Negligible)
				Max Tensile Strain	14S-10	1	0.0	1.4740	None	144.80E-6	7.1572	**0.031502**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	14S-11		Max Slope	14S-11	2	0.50240	2.8772	None	**739.34E-6**	9.0690	0.0045908	-	-	0 (Negligible)
				Max Settlement	14S-11	3	2.8772	5.5790	None	739.34E-6	**11.043**	0.0066043	-	-	0 (Negligible)
				Max Tensile Strain	14S-11	3	2.8772	5.5790	None	739.34E-6	11.043	**0.0066043**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	14S-12		Max Slope	14S-12	1	0.0	3.4386	None	**544.39E-6**	3.9649	0.0093063	-	-	0 (Negligible)
				Max Settlement	14S-12	1	0.0	3.4386	None	544.39E-6	**3.9649**	0.0093063	-	-	0 (Negligible)
				Max Tensile Strain	14S-12	2	3.4386	3.7040	None	365.95E-6	2.5497	**0.011867**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	18S-01		Max Slope	18S-01	2	0.75927	2.3599	None	**265.26E-6**	4.8928	0.016730	-	-	0 (Negligible)
				Max Settlement	18S-01	1	0.0	0.75927	None	262.86E-6	**5.0859**	0.020975	-	-	0 (Negligible)
				Max Tensile Strain	18S-01	1	0.0	0.75927	None	262.86E-6	5.0859	**0.020975**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	18S-02		Max Slope	18S-02	1	0.0	7.8270	None	**627.68E-6**	6.8087	0.065606	-	-	1 (Very Slight)
				Max Settlement	18S-02	1	0.0	7.8270	None	627.68E-6	**6.8087**	0.065606	-	-	1 (Very Slight)
				Max Tensile Strain	18S-02	1	0.0	7.8270	None	627.68E-6	6.8087	**0.065606**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	18S-03		Max Slope	18S-03	1	0.0	0.57305	None	**392.51E-6**	7.0281	0.0034640	-	-	0 (Negligible)
				Max Settlement	18S-03	2	0.57305	2.1240	None	392.51E-6	**7.5921**	0.0030779	-	-	0 (Negligible)
				Max Tensile Strain	18S-03	1	0.0	0.57305	None	392.51E-6	7.0281	**0.0034640**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	18S-04		Max Slope	18S-04	1	0.0	1.7460	None	**647.40E-6**	7.5924	0.074592	-	-	1 (Very Slight)
				Max Settlement	18S-04	1	0.0	1.7460	None	647.40E-6	**7.5924**	0.074592	-	-	1 (Very Slight)
				Max Tensile Strain	18S-04	1	0.0	1.7460	None	647.40E-6	7.5924	**0.074592**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	18S-05		Max Slope	18S-05	1	0.0	6.8850	None	**309.27E-6**	8.3607	0.0037970	-	-	0 (Negligible)
				Max Settlement	18S-05	1	0.0	6.8850	None	309.27E-6	**8.3607**	0.0037970	-	-	0 (Negligible)
				Max Tensile Strain	18S-05	1	0.0	6.8850	None	309.27E-6	8.3607	**0.0037970**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-01		Max Slope	20S-01	1	0.0	2.2430	None	**375.18E-6**	2.9501	0.049896	-	-	0 (Negligible)
				Max Settlement	20S-01	1	0.0	2.2430	None	375.18E-6	**2.9501**	0.049896	-	-	0 (Negligible)
				Max Tensile Strain	20S-01	1	0.0	2.2430	None	375.18E-6	2.9501	**0.049896**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-02		Max Slope	20S-02	1	0.0	0.44223	None	**254.16E-6**	2.1513	0.0011105	-	-	0 (Negligible)
				Max Settlement	20S-02	1	0.0	0.44223	None	254.16E-6	**2.1513**	0.0011105	-	-	0 (Negligible)
				Max Tensile Strain	20S-02	2	0.44223	2.1793	None	254.16E-6	2.0411	**0.0034544**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-03		Max Slope	20S-03	1	0.0	10.076	None	**524.11E-6**	5.1528	0.046308	-	-	0 (Negligible)
				Max Settlement	20S-03	1	0.0	10.076	None	524.11E-6	**5.1528**	0.046308	-	-	0 (Negligible)
				Max Tensile Strain	20S-03	1	0.0	10.076	None	524.11E-6	5.1528	**0.046308**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-04		Max Slope	20S-04	1	0.0	6.1650	None	**316.27E-6**	6.8133	0.0048970	-	-	0 (Negligible)
				Max Settlement	20S-04	1	0.0	6.1650	None	316.27E-6	**6.8133**	0.0048970	-	-	0 (Negligible)
				Max Tensile Strain	20S-04	1	0.0	6.1650	None	316.27E-6	6.8133	**0.0048970**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-05		Max Slope	20S-05	1	0.0	2.6100	None	**86.989E-6**	1.4815	0.0015906	-	-	0 (Negligible)
				Max Settlement	20S-05	1	0.0	2.6100	None	86.989E-6	**1.4815**	0.0015906	-	-	0 (Negligible)
				Max Tensile Strain	20S-05	1	0.0	2.6100	None	86.989E-6	1.4815	**0.0015906**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-06		Max Slope	20S-06	1	0.0	10.069	None	**413.88E-6**	4.1092	0.035072	-	-	0 (Negligible)
				Max Settlement	20S-06	1	0.0	10.069	None	413.88E-6	**4.1092**	0.035072	-	-	0 (Negligible)
				Max Tensile Strain	20S-06	1	0.0	10.069	None	413.88E-6	4.1092	**0.035072**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	20S-07		Max Slope	20S-07	1	0.0	3.1450	None	**337.32E-6**	5.1475	0.0044970	-	-	0 (Negligible)
				Max Settlement	20S-07	1	0.0	3.1450	None	337.32E-6	**5.1475**	0.0044970	-	-	0 (Negligible)
				Max Tensile Strain	20S-07	1	0.0	3.1450	None	337.32E-6	5.1475	**0.0044970**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	HT-01		Max Slope	HT-01	1	0.0	1.1250	None	**197.43E-6**	1.2590	0.034556	-	-	0 (Negligible)
				Max Settlement	HT-01	1	0.0	1.1250	None	197.43E-6	**1.2590**	0.034556	-	-	0 (Negligible)
				Max Tensile Strain	HT-01	1	0.0	1.1250	None	197.43E-6	1.2590	**0.034556**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	HT-02		Max Slope	HT-02	1	0.0	9.9085	None	**85.604E-6**	1.0425	485.27E-6	-	-	0 (Negligible)
				Max Settlement	HT-02	1	0.0	9.9085	None	85.604E-6	**1.0425**	485.27E-6	-	-	0 (Negligible)
				Max Tensile Strain	HT-02	2	9.9085	10.965	None	70.266E-6	0.27086	**0.0015358**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	HT-03		Max Slope	HT-03	1	3.8588	4.4298	None	**78.110E-6**	0.16314	0.016206	-	-	0 (Negligible)
				Max Settlement	HT-03	2	4.4298	10.611	None	73.476E-6	**0.50131**	0.013230	-	-	0 (Negligible)
				Max Tensile Strain	HT-03	1	3.8588	4.4298	None	78.110E-6	0.16314	**0.016206**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	HT-04		Max Slope	HT-04	1	0.0	17.047	None	**344.11E-6**	3.7969	0.0011278	-	-	0 (Negligible)
				Max Settlement	HT-04	2	17.047	17.169	None	344.11E-6	**3.8388**	0.0033388	-	-	0 (Negligible)
				Max Tensile Strain	HT-04	2	17.047	17.169	None	344.11E-6	3.8388	**0.0033388**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	22S-01		All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
	0	22S-02		Max Slope	22S-02	2	3.8362	11.931	None	**129.62E-6**	0.67567	0.023355	-	-	0 (Negligible)
				Max Settlement	22S-02	2	3.8362	11.931	None	129.62E-6	**0.67567**	0.023355	-	-	0 (Negligible)
				Max Tensile Strain	22S-02	1	2.9828	3.8362	None	31.543E-6	0.12598	**0.024137**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	22S-03		Max Slope	22S-03	1	0.0	6.7030	None	**23.293E-6**	0.71663	0.0010676	-	-	0 (Negligible)
				Max Settlement	22S-03	1	0.0	6.7030	None	23.293E-6	**0.71663**	0.0010676	-	-	0 (Negligible)
				Max Tensile Strain	22S-03	1	0.0	6.7030	None	23.293E-6	0.71663	**0.0010676**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
	0	22S-04		Max Slope	22S-04	1	0.0	6.1526	None	**112.17E-6**	0.68124	0.016684	-	-	0 (Negligible)
				Max Settlement	22S-04	1	0.0	6.1526	None	112.17E-6	**0.68124**	0.016684	-	-	0 (Negligible)

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				Max Tensile Strain	22S-04	2	6.1526	7.4556	None	64.470E-6	0.19085	**0.018548**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-01	Max Slope	23K-01	1	0.0	5.8320	None	**140.61E-6**	1.2559	0.0066642	-	-	0 (Negligible)
				Max Settlement	23K-01	1	0.0	5.8320	None	140.61E-6	**1.2559**	0.0066642	-	-	0 (Negligible)
				Max Tensile Strain	23K-01	1	0.0	5.8320	None	140.61E-6	1.2559	**0.0066642**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-02	Max Slope	23K-02	1	0.0	9.5176	None	**123.94E-6**	0.76820	0.027808	-	-	0 (Negligible)
				Max Settlement	23K-02	1	0.0	9.5176	None	123.94E-6	**0.76820**	0.027808	-	-	0 (Negligible)
				Max Tensile Strain	23K-02	1	0.0	9.5176	None	123.94E-6	0.76820	**0.027808**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-03	Max Slope	23K-03	1	0.0	5.8540	None	**14.545E-6**	0.23096	0.0038822	-	-	0 (Negligible)
				Max Settlement	23K-03	1	0.0	5.8540	None	14.545E-6	**0.23096**	0.0038822	-	-	0 (Negligible)
				Max Tensile Strain	23K-03	1	0.0	5.8540	None	14.545E-6	0.23096	**0.0038822**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-04	Max Slope	23K-04	1	0.0	5.1820	None	**19.312E-6**	0.29613	0.0044509	-	-	0 (Negligible)
				Max Settlement	23K-04	1	0.0	5.1820	None	19.312E-6	**0.29613**	0.0044509	-	-	0 (Negligible)
				Max Tensile Strain	23K-04	1	0.0	5.1820	None	19.312E-6	0.29613	**0.0044509**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-05	Max Slope	23K-05	1	0.0	5.5460	None	**26.835E-6**	0.39373	0.0048972	-	-	0 (Negligible)
				Max Settlement	23K-05	1	0.0	5.5460	None	26.835E-6	**0.39373**	0.0048972	-	-	0 (Negligible)
				Max Tensile Strain	23K-05	1	0.0	5.5460	None	26.835E-6	0.39373	**0.0048972**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-06	Max Slope	23K-06	2	1.0005	5.3440	None	**29.891E-6**	0.49304	0.0041275	-	-	0 (Negligible)
				Max Settlement	23K-06	2	1.0005	5.3440	None	29.891E-6	**0.49304**	0.0041275	-	-	0 (Negligible)
				Max Tensile Strain	23K-06	1	0.0	1.0005	None	24.600E-6	0.37970	**0.0044682**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-07	Max Slope	23K-07	1	0.0	5.5350	None	**39.777E-6**	0.64855	0.0041903	-	-	0 (Negligible)
				Max Settlement	23K-07	1	0.0	5.5350	None	39.777E-6	**0.64855**	0.0041903	-	-	0 (Negligible)
				Max Tensile Strain	23K-07	1	0.0	5.5350	None	39.777E-6	0.64855	**0.0041903**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-08	Max Slope	23K-08	1	0.0	9.8490	None	**518.16E-6**	4.0327	0.044013	-	-	0 (Negligible)
				Max Settlement	23K-08	1	0.0	9.8490	None	518.16E-6	**4.0327**	0.044013	-	-	0 (Negligible)
				Max Tensile Strain	23K-08	1	0.0	9.8490	None	518.16E-6	4.0327	**0.044013**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-09	Max Slope	23K-09	1	0.0	5.5350	None	**183.93E-6**	4.0332	0.0043645	-	-	0 (Negligible)
				Max Settlement	23K-09	1	0.0	5.5350	None	183.93E-6	**4.0332**	0.0043645	-	-	0 (Negligible)
				Max Tensile Strain	23K-09	1	0.0	5.5350	None	183.93E-6	4.0332	**0.0043645**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-10	Max Slope	23K-10	1	0.0	3.1814	None	**189.12E-6**	2.9178	0.0062426	-	-	0 (Negligible)
				Max Settlement	23K-10	3	4.7918	5.3440	None	171.38E-6	**3.3005**	0.0040364	-	-	0 (Negligible)
				Max Tensile Strain	23K-10	1	0.0	3.1814	None	189.12E-6	2.9178	**0.0062426**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-11	Max Slope	23K-11	1	0.0	10.328	None	**490.35E-6**	3.3006	0.044792	-	-	0 (Negligible)
				Max Settlement	23K-11	1	0.0	10.328	None	490.35E-6	**3.3006**	0.044792	-	-	0 (Negligible)
				Max Tensile Strain	23K-11	1	0.0	10.328	None	490.35E-6	3.3006	**0.044792**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-12	Max Slope	23K-12	1	0.0	10.402	None	**441.96E-6**	2.5448	0.040606	-	-	0 (Negligible)
				Max Settlement	23K-12	1	0.0	10.402	None	441.96E-6	**2.5448**	0.040606	-	-	0 (Negligible)
				Max Tensile Strain	23K-12	1	0.0	10.402	None	441.96E-6	2.5448	**0.040606**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-13	Max Slope	23K-13	1	0.0	5.5300	None	**180.47E-6**	2.5449	0.0063459	-	-	0 (Negligible)
				Max Settlement	23K-13	1	0.0	5.5300	None	180.47E-6	**2.5449**	0.0063459	-	-	0 (Negligible)
				Max Tensile Strain	23K-13	1	0.0	5.5300	None	180.47E-6	2.5449	**0.0063459**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-14	Max Slope	23K-14	1	0.0	5.1930	None	**156.32E-6**	1.7720	0.0059722	-	-	0 (Negligible)
				Max Settlement	23K-14	1	0.0	5.1930	None	156.32E-6	**1.7720**	0.0059722	-	-	0 (Negligible)
				Max Tensile Strain	23K-14	1	0.0	5.1930	None	156.32E-6	1.7720	**0.0059722**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-15	Max Slope	23K-15	1	0.0	10.168	None	**395.65E-6**	1.7721	0.035551	-	-	0 (Negligible)
				Max Settlement	23K-15	1	0.0	10.168	None	395.65E-6	**1.7721**	0.035551	-	-	0 (Negligible)
				Max Tensile Strain	23K-15	1	0.0	10.168	None	395.65E-6	1.7721	**0.035551**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-16	Max Slope	23K-16	1	0.0	10.285	None	**360.90E-6**	1.2558	0.031385	-	-	0 (Negligible)
				Max Settlement	23K-16	1	0.0	10.285	None	360.90E-6	**1.2558**	0.031385	-	-	0 (Negligible)
				Max Tensile Strain	23K-16	1	0.0	10.285	None	360.90E-6	1.2558	**0.031385**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-17	Max Slope	23K-17	1	0.0	4.5090	None	**62.596E-6**	1.0751	0.0043469	-	-	0 (Negligible)
				Max Settlement	23K-17	1	0.0	4.5090	None	62.596E-6	**1.0751**	0.0043469	-	-	0 (Negligible)
				Max Tensile Strain	23K-17	1	0.0	4.5090	None	62.596E-6	1.0751	**0.0043469**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-18	Max Slope	23K-18	2	0.17174	5.3470	None	**488.08E-6**	3.2176	0.038349	-	-	0 (Negligible)
				Max Settlement	23K-18	2	0.17174	5.3470	None	488.08E-6	**3.2176**	0.038349	-	-	0 (Negligible)
				Max Tensile Strain	23K-18	2	0.17174	5.3470	None	488.08E-6	3.2176	**0.038349**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23K-19	Max Slope	23K-19	1	0.0	4.5380	None	**171.06E-6**	3.2180	0.0042949	-	-	0 (Negligible)
				Max Settlement	23K-19	1	0.0	4.5380	None	171.06E-6	**3.2180**	0.0042949	-	-	0 (Negligible)
				Max Tensile Strain	23K-19	1	0.0	4.5380	None	171.06E-6	3.2180	**0.0042949**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-01	Max Slope	23AB-01	1	0.0	4.0040	None	**41.755E-6**	7.7552	265.40E-6	-	-	0 (Negligible)
				Max Settlement	23AB-01	1	0.0	4.0040	None	41.755E-6	**7.7552**	265.40E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-01	1	0.0	4.0040	None	41.755E-6	7.7552	**265.40E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-02	Max Slope	23AB-02	1	0.0	0.21700	None	**606.72E-6**	7.5881	0.055701	-	-	1 (Very Slight)
				Max Settlement	23AB-02	1	0.0	0.21700	None	606.72E-6	**7.5881**	0.055701	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-02	1	0.0	0.21700	None	606.72E-6	7.5881	**0.055701**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-03	Max Slope	23AB-03	1	0.0	4.7900	None	**42.901E-6**	7.4559	277.27E-6	-	-	0 (Negligible)
				Max Settlement	23AB-03	1	0.0	4.7900	None	42.901E-6	**7.4559**	277.27E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-03	1	0.0	4.7900	None	42.901E-6	7.4559	**277.27E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-04	Max Slope	23AB-04	1	0.0	6.4460	None	**607.57E-6**	10.885	0.059338	-	-	1 (Very Slight)
				Max Settlement	23AB-04	1	0.0	6.4460	None	607.57E-6	**10.885**	0.059338	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-04	1	0.0	6.4460	None	607.57E-6	10.885	**0.059338**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-05	Max Slope	23AB-05	1	0.0	1.0140	None	**32.612E-6**	10.885	284.64E-6	-	-	0 (Negligible)
				Max Settlement	23AB-05	1	0.0	1.0140	None	32.612E-6	**10.885**	284.64E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-05	1	0.0	1.0140	None	32.612E-6	10.885	**284.64E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	23AB-06	Max Slope	23AB-06	1	0.0	6.4020	None	**465.43E-6**	12.623	0.070327	-	-	1 (Very Slight)
				Max Settlement	23AB-06	1	0.0	6.4020	None	465.43E-6	**12.623**	0.070327	-	-	1 (Very Slight)

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				Max Tensile Strain	23AB-06	1	0.0	6.4020	None	465.43E-6	12.623	**0.070327**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-07	Max Slope	23AB-07	1	0.0	5.0370	None	**2.4071E-6**	12.624	491.13E-6	-	-	0 (Negligible)
				Max Settlement	23AB-07	1	0.0	5.0370	None	2.4071E-6	**12.624**	491.13E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-07	1	0.0	5.0370	None	2.4071E-6	12.624	**491.13E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-08	Max Slope	23AB-08	1	0.0	0.28100	None	**24.086E-6**	12.624	0.070376	-	-	1 (Very Slight)
				Max Settlement	23AB-08	1	0.0	0.28100	None	24.086E-6	**12.624**	0.070376	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-08	1	0.0	0.28100	None	24.086E-6	12.624	**0.070376**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-09	Max Slope	23AB-09	1	0.0	5.6300	None	**2.3416E-6**	12.624	298.23E-6	-	-	0 (Negligible)
				Max Settlement	23AB-09	1	0.0	5.6300	None	2.3416E-6	**12.624**	298.23E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-09	1	0.0	5.6300	None	2.3416E-6	12.624	**298.23E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-10	Max Slope	23AB-10	1	0.0	3.0530	None	**231.34E-6**	12.624	0.069860	-	-	1 (Very Slight)
				Max Settlement	23AB-10	1	0.0	3.0530	None	231.34E-6	**12.624**	0.069860	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-10	1	0.0	3.0530	None	231.34E-6	12.624	**0.069860**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-11	Max Slope	23AB-11	1	0.0	1.8460	None	**17.487E-6**	12.275	309.81E-6	-	-	0 (Negligible)
				Max Settlement	23AB-11	1	0.0	1.8460	None	17.487E-6	**12.275**	309.81E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-11	1	0.0	1.8460	None	17.487E-6	12.275	**309.81E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-12	Max Slope	23AB-12	1	0.0	2.8680	None	**425.07E-6**	12.244	0.064440	-	-	1 (Very Slight)
				Max Settlement	23AB-12	1	0.0	2.8680	None	425.07E-6	**12.244**	0.064440	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-12	1	0.0	2.8680	None	425.07E-6	12.244	**0.064440**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-13	Max Slope	23AB-13	1	0.0	1.0320	None	**38.191E-6**	11.269	470.46E-6	-	-	0 (Negligible)
				Max Settlement	23AB-13	1	0.0	1.0320	None	38.191E-6	**11.269**	470.46E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-13	1	0.0	1.0320	None	38.191E-6	11.269	**470.46E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-14	Max Slope	23AB-14	1	0.0	6.4610	None	**603.74E-6**	11.269	0.060484	-	-	1 (Very Slight)
				Max Settlement	23AB-14	1	0.0	6.4610	None	603.74E-6	**11.269**	0.060484	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-14	1	0.0	6.4610	None	603.74E-6	11.269	**0.060484**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	23AB-15	Max Slope	23AB-15	1	0.0	7.7350	None	**46.025E-6**	11.230	627.74E-6	-	-	0 (Negligible)
				Max Settlement	23AB-15	1	0.0	7.7350	None	46.025E-6	**11.230**	627.74E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-15	1	0.0	7.7350	None	46.025E-6	11.230	**627.74E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	28K-01	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-02	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-03	Max Slope	28K-03	1	4.9736	7.5515	None	**48.422E-6**	0.20326	0.029973	-	-	0 (Negligible)
				Max Settlement	28K-03	2	7.5515	8.9520	None	35.415E-6	**0.25117**	0.029887	-	-	0 (Negligible)
				Max Tensile Strain	28K-03	1	4.9736	7.5515	None	48.422E-6	0.20326	**0.029973**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	28K-04	Max Slope	28K-04	2	2.8795	7.7050	None	**20.835E-6**	0.20302	0.0072113	-	-	0 (Negligible)
				Max Settlement	28K-04	1	0.0	2.8795	None	17.573E-6	**0.25119**	0.0071560	-	-	0 (Negligible)
				Max Tensile Strain	28K-04	2	2.8795	7.7050	None	20.835E-6	0.20302	**0.0072113**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	28K-05	Max Slope	28K-05	1	0.0	0.0	None	**46.209E-6**	0.11680	35.763E-9	-	-	0 (Negligible)
				Max Settlement	28K-05	1	0.0	0.0	None	46.209E-6	**0.11680**	35.763E-9	-	-	0 (Negligible)
				Max Tensile Strain	28K-05	1	0.0	0.0	None	46.209E-6	0.11680	**35.763E-9**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	-	-	-	-	-	-	-	-	-	-	-
		0	28K-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-07	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											

Specific Building Damage Results - All Combined Segments

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Combined Segment	Start [m]	Length [m]	Curvature	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Tensile Strain [%]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	No combined segments for this stage, specific building and offset.							
		2	16S-02	16S-02	0.0	No combined segments for this stage, specific building and offset.							
		3	16S-03	16S-03	0.0	No combined segments for this stage, specific building and offset.							
		4	16S-04	16S-04	0.0	No combined segments for this stage, specific building and offset.							
		5	16S-05	16S-05	0.0	No combined segments for this stage, specific building and offset.							
		6	16S-06	16S-06	0.0	1	0.0	6.2230	None	0.0018779	0.057311	0.059090	1 (Very Slight)
		7	BS-01	BS-01	0.0	1	0.0	2.9835	None	775.78E-6	-0.043401	0.0086914	0 (Negligible)
						2	2.9835	1.3503	None	611.84E-6	-0.029140	0.0058387	0 (Negligible)
						3	4.3337	1.8117	None	142.58E-6	0.0079500	0.0079829	0 (Negligible)
						4	6.1454	1.0161	None	572.33E-6	0.0089572	0.0090316	0 (Negligible)
						5	7.1615	5.8165	Hogging	0.046451	0.0090662	0.049710	0 (Negligible)
		8	BS-02	BS-02	0.0	1	0.0	15.377	Hogging	0.0081977	0.058588	0.065899	1 (Very Slight)
						2	15.377	1.6359	None	404.79E-6	0.012259	0.012343	0 (Negligible)
						3	17.013	4.6758	None	0.0037130	0.0054347	0.0075771	0 (Negligible)
						4	21.688	1.3196	None	141.58E-6	0.0053018	0.0053256	0 (Negligible)
						5	23.008	3.6115	None	149.13E-6	0.0058275	0.0058950	0 (Negligible)
						6	26.620	2.8605	None	415.15E-6	0.0038642	0.0040143	0 (Negligible)
		9	BS-03	BS-03	0.0	No combined segments for this stage, specific building and offset.							
		10	BS-04	BS-04	0.0	No combined segments for this stage, specific building and offset.							
		11	BS-05	BS-05	0.0	No combined segments for this stage, specific building and offset.							
		12	BS-06	BS-06	0.0	No combined segments for this stage, specific building and offset.							
		13	BS-07	BS-07	0.0	No combined segments for this stage, specific building and offset.							
		14	BS-08	BS-08	0.0	No combined segments for this stage, specific building and offset.							
		15	BS-09	BS-09	0.0	No combined segments for this stage, specific building and offset.							
		16	BS-10	BS-10	0.0	No combined segments for this stage, specific building and offset.							
		17	BS-11	BS-11	0.0	No combined segments for this stage, specific building and offset.							
		18	BS-12	BS-12	0.0	No combined segments for this stage, specific building and offset.							
		19	BS-13	BS-13	0.0	No combined segments for this stage, specific building and offset.							
		20	BS-14	BS-14	0.0	No combined segments for this stage, specific building and offset.							
		21	BS-15	BS-15	0.0	No combined segments for this stage, specific building and offset.							
		22	BS-16	BS-16	0.0	No combined segments for this stage, specific building and offset.							
		23	BS-17	BS-17	0.0	No combined segments for this stage, specific building and offset.							

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Damage Category
		24	BS-18	BS-18	0.0	No combined segments for this stage, specific building and offset.							
		25	SB-01	SB-01	0.0	No combined segments for this stage, specific building and offset.							
		26	SB-02	SB-02	0.0	No combined segments for this stage, specific building and offset.							
		27	SB-03	SB-03	0.0	No combined segments for this stage, specific building and offset.							
		28	SB-04	SB-04	0.0	No combined segments for this stage, specific building and offset.							
		29	SB-05	SB-05	0.0	No combined segments for this stage, specific building and offset.							
		30	SB-06	SB-06	0.0	No combined segments for this stage, specific building and offset.							
		31	SB-07	SB-07	0.0	No combined segments for this stage, specific building and offset.							
		32	SB-08	SB-08	0.0	No combined segments for this stage, specific building and offset.							
		33	SB-09	SB-09	0.0	No combined segments for this stage, specific building and offset.							
		34	SB-10	SB-10	0.0	No combined segments for this stage, specific building and offset.							
		35	SB-11	SB-11	0.0	No combined segments for this stage, specific building and offset.							
		36	SB-12	SB-12	0.0	No combined segments for this stage, specific building and offset.							
		37	SB-13	SB-13	0.0	No combined segments for this stage, specific building and offset.							
		38	SB-14	SB-14	0.0	No combined segments for this stage, specific building and offset.							
		39	HL-01	HL-01	0.0	No combined segments for this stage, specific building and offset.							
		40	HL-02	HL-02	0.0	No combined segments for this stage, specific building and offset.							
		41	HL-03	HL-03	0.0	No combined segments for this stage, specific building and offset.							
		42	CH-01	CH-01	0.0	No combined segments for this stage, specific building and offset.							
		43	CH-02	CH-02	0.0	No combined segments for this stage, specific building and offset.							
		44	CH-03	CH-03	0.0	No combined segments for this stage, specific building and offset.							
		45	CH-04	CH-04	0.0	No combined segments for this stage, specific building and offset.							
		46	CH-05	CH-05	0.0	No combined segments for this stage, specific building and offset.							
		47	CH-06	CH-06	0.0	No combined segments for this stage, specific building and offset.							
		48	CH-07	CH-07	0.0	No combined segments for this stage, specific building and offset.							
		49	CH-08	CH-08	0.0	No combined segments for this stage, specific building and offset.							
		50	CH-09	CH-09	0.0	No combined segments for this stage, specific building and offset.							
		51	CH-10	CH-10	0.0	No combined segments for this stage, specific building and offset.							
		52	CH-11	CH-11	0.0	No combined segments for this stage, specific building and offset.							
		53	10S-01	10S-01	0.0	No combined segments for this stage, specific building and offset.							
		54	10S-02	10S-02	0.0	No combined segments for this stage, specific building and offset.							
		55	10S-03	10S-03	0.0	No combined segments for this stage, specific building and offset.							
		56	10S-04	10S-04	0.0	No combined segments for this stage, specific building and offset.							
		57	10S-05	10S-05	0.0	No combined segments for this stage, specific building and offset.							
		58	10S-06	10S-06	0.0	No combined segments for this stage, specific building and offset.							
		59	10S-07	10S-07	0.0	No combined segments for this stage, specific building and offset.							
		60	10S-08	10S-08	0.0	No combined segments for this stage, specific building and offset.							
		61	10S-09	10S-09	0.0	No combined segments for this stage, specific building and offset.							
		62	10S-10	10S-10	0.0	No combined segments for this stage, specific building and offset.							
		63	10S-11	10S-11	0.0	No combined segments for this stage, specific building and offset.							
		64	12S-01	12S-01	0.0	No combined segments for this stage, specific building and offset.							
		65	12S-02	12S-02	0.0	No combined segments for this stage, specific building and offset.							
		66	12S-03	12S-03	0.0	No combined segments for this stage, specific building and offset.							
		67	12S-04	12S-04	0.0	No combined segments for this stage, specific building and offset.							
		68	12S-05	12S-05	0.0	No combined segments for this stage, specific building and offset.							
		69	12S-06	12S-06	0.0	No combined segments for this stage, specific building and offset.							
		70	14S-01	14S-01	0.0	No combined segments for this stage, specific building and offset.							
		71	14S-02	14S-02	0.0	No combined segments for this stage, specific building and offset.							
		72	14S-03	14S-03	0.0	No combined segments for this stage, specific building and offset.							
		73	14S-04	14S-04	0.0	No combined segments for this stage, specific building and offset.							
		74	14S-05	14S-05	0.0	No combined segments for this stage, specific building and offset.							
		75	14S-06	14S-06	0.0	No combined segments for this stage, specific building and offset.							
		76	14S-07	14S-07	0.0	No combined segments for this stage, specific building and offset.							
		77	14S-08	14S-08	0.0	No combined segments for this stage, specific building and offset.							
		78	14S-09	14S-09	0.0	No combined segments for this stage, specific building and offset.							
		79	14S-10	14S-10	0.0	No combined segments for this stage, specific building and offset.							
		80	14S-11	14S-11	0.0	No combined segments for this stage, specific building and offset.							
		81	14S-12	14S-12	0.0	No combined segments for this stage, specific building and offset.							
		82	18S-01	18S-01	0.0	No combined segments for this stage, specific building and offset.							
		83	18S-02	18S-02	0.0	No combined segments for this stage, specific building and offset.							
		84	18S-03	18S-03	0.0	No combined segments for this stage, specific building and offset.							
		85	18S-04	18S-04	0.0	No combined segments for this stage, specific building and offset.							
		86	18S-05	18S-05	0.0	No combined segments for this stage, specific building and offset.							
		87	20S-01	20S-01	0.0	No combined segments for this stage, specific building and offset.							
		88	20S-02	20S-02	0.0	No combined segments for this stage, specific building and offset.							
		89	20S-03	20S-03	0.0	No combined segments for this stage, specific building and offset.							
		90	20S-04	20S-04	0.0	No combined segments for this stage, specific building and offset.							
		91	20S-05	20S-05	0.0	No combined segments for this stage, specific building and offset.							
		92	20S-06	20S-06	0.0	No combined segments for this stage, specific building and offset.							
		93	20S-07	20S-07	0.0	No combined segments for this stage, specific building and offset.							
		94	HT-01	HT-01	0.0	No combined segments for this stage, specific building and offset.							
		95	HT-02	HT-02	0.0	No combined segments for this stage, specific building and offset.							
		96	HT-03	HT-03	0.0	No combined segments for this stage, specific building and offset.							
		97	HT-04	HT-04	0.0	No combined segments for this stage, specific building and offset.							
		98	22S-01	22S-01	0.0	No combined segments for this stage, specific building and offset.							
		99	22S-02	22S-02	0.0	No combined segments for this stage, specific building and offset.							
		100	22S-03	22S-03	0.0	No combined segments for this stage, specific building and offset.							
		101	22S-04	22S-04	0.0	No combined segments for this stage, specific building and offset.							
		102	23K-01	23K-01	0.0	No combined segments for this stage, specific building and offset.							
		103	23K-02	23K-02	0.0	No combined segments for this stage, specific building and offset.							
		104	23K-03	23K-03	0.0	No combined segments for this stage, specific building and offset.							
		105	23K-04	23K-04	0.0	No combined segments for this stage, specific building and offset.							
		106	23K-05	23K-05	0.0	No combined segments for this stage, specific building and offset.							
		107	23K-06	23K-06	0.0	No combined segments for this stage, specific building and offset.							
		108	23K-07	23K-07	0.0	No combined segments for this stage, specific building and offset.							
		109	23K-08	23K-08	0.0	No combined segments for this stage, specific building and offset.							
		110	23K-09	23K-09	0.0	No combined segments for this stage, specific building and offset.							
		111	23K-10	23K-10	0.0	No combined segments for this stage, specific building and offset.							
		112	23K-11	23K-11	0.0	No combined segments for this stage, specific building and offset.							
		113	23K-12	23K-12	0.0	No combined segments for this stage, specific building and offset.							
		114	23K-13	23K-13	0.0	No combined segments for this stage, specific building and offset.							
		115	23K-14	23K-14	0.0	No combined segments for this stage, specific building and offset.							
		116	23K-15	23K-15	0.0	No combined segments for this stage, specific building and offset.							
		117	23K-16	23K-16	0.0	No combined segments for this stage, specific building and offset.							
		118	23K-17	23K-17	0.0	No combined segments for this stage, specific building and offset.							
		119	23K-18	23K-18	0.0	No combined segments for this stage, specific building and offset.							
		120	23K-19	23K-19	0.0	No combined segments for this stage, specific building and offset.							
		121	23AB-01	23AB-01	0.0	No combined segments for this stage, specific building and offset.							
		122	23AB-02	23AB-02	0.0	No combined segments for this stage, specific building and offset.							
		123	23AB-03	23AB-03	0.0	No combined segments for this stage, specific building and offset.							
		124	23AB-04	23AB-04	0.0	No combined segments for this stage, specific building and offset.							
		125	23AB-05	23AB-05	0.0	No combined segments for this stage, specific building and offset.							
		126	23AB-06	23AB-06	0.0	No combined segments for this stage, specific building and offset.							
		127	23AB-07	23AB-07	0.0	No combined segments for this stage, specific building and offset.							
		128	23AB-08	23AB-08	0.0	No combined segments for this stage, specific building and offset.							
		129	23AB-09	23AB-09	0.0	No combined segments for this stage, specific building and offset.							
		130	23AB-10	23AB-10	0.0	No combined segments for this stage, specific building and offset.							
		131	23AB-11	23AB-11	0.0	No combined segments for this stage, specific building and offset.							
		132	23AB-12	23AB-12	0.0	No combined segments for this stage, specific building and offset.							
		133	23AB-13	23AB-13	0.0	No combined segments for this stage, specific building and offset.							
		134	23AB-14	23AB-14	0.0	No combined segments for this stage, specific building and offset.							
		135	23AB-15	23AB-15	0.0	No combined segments for this stage, specific building and offset.							
		136	28K-01	28K-01	0.0	No combined segments for this stage, specific building and offset.							
		137	28K-02	28K-02	0.0	No combined segments for this stage, specific building and offset.							
		138	28K-03	28K-03	0.0	No combined segments for this stage, specific building and offset.							
		139	28K-04	28K-04	0.0	No combined segments for this stage, specific building and offset.							
		140	28K-05	28K-05	0.0	No combined segments for this stage, specific building and offset.							
		141	28K-06	28K-06	0.0	No combined segments for this stage, specific building and offset.							
		142	28K-07	28K-07	0.0	No combined segments for this stage, specific building and offset.							

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Titles

Job No.: 1157
Job Title: Highgate School
Sub-title: Dyne House and Island Building GMA
Calculation Heading: A2
Initials: SB
Checker:
Date Saved: 09-Sep-2024
Date Checked:
Notes:
File Name: B2 Excav + Wall Installation +Loading.xdd
File Path: C:\Users\A-squared\A-squared Dropbox\A2 matrix\A2-projects-1001-2000\1157 - Highgate School 2019\03 - Calculations\06 20240730 - 2nd update\GMA\Xdisp

History

Date	Time	By	Notes
03-Dec-2019	12:09	A-squared	New
03-Dec-2019	12:28	A-squared	
04-Dec-2019	11:33	A-squared	
04-Dec-2019	11:42	A-squared	
04-Dec-2019	12:26	A-squared	
04-Dec-2019	12:29	A-squared	
04-Dec-2019	13:16	A-squared	
04-Dec-2019	14:46	A-squared	
04-Dec-2019	15:59	A-squared	
04-Dec-2019	16:17	A-squared	
04-Dec-2019	16:25	A-squared	
04-Dec-2019	16:52	A-squared	
04-Dec-2019	17:37	A-squared	
05-Dec-2019	11:10	A-squared	
06-Dec-2019	12:23	A-squared	
09-Dec-2019	00:34	A-squared	
09-Dec-2019	17:51	hamed	
02-Aug-2024	10:28	A-squared	
09-Aug-2024	17:27	A-squared	
12-Aug-2024	17:11	A-squared	
13-Aug-2024	11:48	A-squared	
13-Aug-2024	15:37	A-squared	
09-Sep-2024	13:05	A-squared	
09-Sep-2024	14:36	A-squared	
09-Sep-2024	17:19	A-squared	
09-Sep-2024	17:41	A-squared	
10-Sep-2024	08:48	A-squared	Open

Displacement Lines

Ref.	Name	x1 [m]	y1 [m]	z1 [m]	x2 [m]	y2 [m]	z2 [m]	Intervals [No.]	Surface type for tunnels	Interpolate imported displacements	Calculate
1	16S-01	86.49970	85.17730	0.00000	83.20530	80.14150	0.00000	14	Surface	No	Yes
2	16S-02	83.20530	80.14150	0.00000	76.63030	80.56000	0.00000	14	Surface	No	Yes
3	16S-03	76.63030	80.56000	0.00000	74.09120	81.74640	0.00000	6	Surface	No	Yes
4	16S-04	74.09120	81.74640	0.00000	78.40230	88.09530	0.00000	16	Surface	No	Yes
5	16S-05	78.40230	88.09530	0.00000	81.32480	88.63460	0.00000	6	Surface	No	Yes
6	16S-06	81.32480	88.63460	0.00000	86.49970	85.17730	0.00000	14	Surface	No	Yes
7	BS-01	41.07740	85.19800	0.00000	53.23290	80.64880	0.00000	26	Surface	No	Yes
8	BS-02	53.23290	80.64880	0.00000	42.51740	52.13290	0.00000	62	Surface	No	Yes
9	BS-03	42.51740	52.13290	0.00000	42.17240	52.11540	0.00000	2	Surface	No	Yes
10	BS-04	42.17240	52.11540	0.00000	39.63950	46.85170	0.00000	12	Surface	No	Yes
11	BS-05	39.63950	46.85170	0.00000	37.99000	47.16020	0.00000	4	Surface	No	Yes
12	BS-06	37.99000	47.16020	0.00000	36.51990	47.82810	0.00000	4	Surface	No	Yes
13	BS-07	36.51990	47.82810	0.00000	34.49770	50.18930	0.00000	8	Surface	No	Yes
14	BS-08	34.49770	50.18930	0.00000	32.12670	51.31390	0.00000	6	Surface	No	Yes
15	BS-09	32.12670	51.31390	0.00000	32.87920	53.12180	0.00000	4	Surface	No	Yes
16	BS-10	32.87920	53.12180	0.00000	31.33990	53.64740	0.00000	4	Surface	No	Yes
17	BS-11	31.33990	53.64740	0.00000	31.19190	53.16840	0.00000	2	Surface	No	Yes
18	BS-12	31.19190	53.16840	0.00000	28.24390	54.40430	0.00000	8	Surface	No	Yes
19	BS-13	28.24390	54.40430	0.00000	29.54720	57.70510	0.00000	8	Surface	No	Yes
20	BS-14	29.54720	57.70510	0.00000	31.85950	56.75830	0.00000	6	Surface	No	Yes
21	BS-15	31.85950	56.75830	0.00000	37.79640	72.67750	0.00000	34	Surface	No	Yes
22	BS-16	37.79640	72.67750	0.00000	39.20230	77.43090	0.00000	10	Surface	No	Yes
23	BS-17	39.20230	77.43090	0.00000	38.43440	77.71030	0.00000	2	Surface	No	Yes
24	BS-18	38.43440	77.71030	0.00000	41.07740	85.19800	0.00000	16	Surface	No	Yes
25	SB-01	80.55960	128.61410	0.00000	81.13390	129.59790	0.00000	4	Surface	No	Yes
26	SB-02	81.13390	129.59790	0.00000	89.14240	124.70300	0.00000	20	Surface	No	Yes
27	SB-03	89.14240	124.70300	0.00000	73.53980	100.34490	0.00000	58	Surface	No	Yes
28	SB-04	73.53980	100.34490	0.00000	65.93010	105.17790	0.00000	20	Surface	No	Yes
29	SB-05	65.93010	105.17790	0.00000	74.10680	118.07820	0.00000	32	Surface	No	Yes
30	SB-06	74.10680	118.07820	0.00000	70.98220	119.61800	0.00000	8	Surface	No	Yes
31	SB-07	70.98220	119.61800	0.00000	70.38470	118.22480	0.00000	4	Surface	No	Yes
32	SB-08	70.38470	118.22480	0.00000	44.31930	131.98290	0.00000	60	Surface	No	Yes
33	SB-09	44.31930	131.98290	0.00000	51.65870	146.07890	0.00000	32	Surface	No	Yes
34	SB-10	51.65870	146.07890	0.00000	59.61210	141.39690	0.00000	20	Surface	No	Yes
35	SB-11	59.61210	141.39690	0.00000	75.98430	132.89110	0.00000	38	Surface	No	Yes
36	SB-12	75.98430	132.89110	0.00000	76.90880	132.21500	0.00000	4	Surface	No	Yes
37	SB-13	76.90880	132.21500	0.00000	76.33510	131.08120	0.00000	4	Surface	No	Yes
38	SB-14	76.33510	131.08120	0.00000	80.55960	128.61410	0.00000	10	Surface	No	Yes
39	HL-01	50.98220	128.46600	0.00000	43.94760	114.73030	0.00000	32	Surface	No	Yes
40	HL-02	43.94760	114.73030	0.00000	37.36020	118.28250	0.00000	16	Surface	No	Yes
41	HL-03	37.36020	118.28250	0.00000	44.31930	131.98290	0.00000	32	Surface	No	Yes
42	CH-01	43.98880	114.70780	0.00000	56.08310	108.24940	0.00000	28	Surface	No	Yes
43	CH-02	56.08310	108.24940	0.00000	44.38770	86.97580	0.00000	50	Surface	No	Yes
44	CH-03	44.38770	86.97580	0.00000	25.93000	97.76960	0.00000	44	Surface	No	Yes
45	CH-04	25.93000	97.76960	0.00000	37.36040	118.28280	0.00000	48	Surface	No	Yes
46	CH-05	44.38770	86.97580	0.00000	41.03370	86.11560	0.00000	8	Surface	No	Yes
47	CH-06	41.03370	86.11560	0.00000	29.42230	92.90730	0.00000	28	Surface	No	Yes
48	CH-07	29.42230	92.90730	0.00000	24.55210	85.67300	0.00000	18	Surface	No	Yes
49	CH-08	24.55210	85.67300	0.00000	24.16950	85.90510	0.00000	2	Surface	No	Yes
50	CH-09	24.16950	85.90510	0.00000	22.25690	83.20670	0.00000	8	Surface	No	Yes
51	CH-10	22.25690	83.20670	0.00000	18.11130	85.84720	0.00000	10	Surface	No	Yes
52	CH-11	18.11130	85.84720	0.00000	25.93050	97.77050	0.00000	30	Surface	No	Yes
53	10S-01	60.26430	42.08760	0.00000	57.77080	36.14360	0.00000	14	Surface	No	Yes
54	10S-02	57.77080	36.14360	0.00000	54.91210	37.26910	0.00000	8	Surface	No	Yes
55	10S-03	54.91210	37.26910	0.00000	54.06250	35.40070	0.00000	6	Surface	No	Yes
56	10S-04	54.06250	35.40070	0.00000	55.90000	34.60740	0.00000	6	Surface	No	Yes
57	10S-05	55.90000	34.60740	0.00000	53.30950	28.60710	0.00000	14	Surface	No	Yes
58	10S-06	53.30950	28.60710	0.00000	46.58180	31.16640	0.00000	16	Surface	No	Yes
59	10S-07	46.58180	31.16640	0.00000	52.66200	44.99820	0.00000	32	Surface	No	Yes
60	10S-08	52.66200	44.99820	0.00000	60.26430	42.08760	0.00000	18	Surface	No	Yes
61	10S-09	55.90000	34.60740	0.00000	59.97500	32.99120	0.00000	10	Surface	No	Yes
62	10S-10	59.97500	32.99120	0.00000	57.49980	26.93420	0.00000	14	Surface	No	Yes
63	10S-11	57.49980	26.93420	0.00000	53.30950	28.60710	0.00000	10	Surface	No	Yes
64	12S-01	56.42810	52.89730	0.00000	70.66640	48.88690	0.00000	30	Surface	No	Yes
65	12S-02	70.66640	48.88690	0.00000	68.32350	43.73440	0.00000	12	Surface	No	Yes
66	12S-03	68.32350	43.73440	0.00000	67.26410	44.08820	0.00000	4	Surface	No	Yes
67	12S-04	67.26410	44.08820	0.00000	65.69450	40.00190	0.00000	10	Surface	No	Yes
68	12S-05	65.69450	40.00190	0.00000	52.89570	44.95010	0.00000	28	Surface	No	Yes

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface type for tunnels	Interpolate imported displacements	Calculate
69	12S-06	52.89570	44.95010	0.00000	56.42810	52.89730	0.00000	18	Surface	No	Yes
70	14S-01	92.77120	50.75620	0.00000	98.63620	50.38480	0.00000	12	Surface	No	Yes
71	14S-02	98.63620	50.38480	0.00000	98.27100	35.62610	0.00000	30	Surface	No	Yes
72	14S-03	98.27100	35.62610	0.00000	92.16740	36.00230	0.00000	14	Surface	No	Yes
73	14S-04	92.16740	36.00230	0.00000	92.40030	33.74250	0.00000	6	Surface	No	Yes
74	14S-05	92.40030	33.74250	0.00000	87.39420	33.22650	0.00000	12	Surface	No	Yes
75	14S-06	87.39420	33.22650	0.00000	84.96610	32.69190	0.00000	6	Surface	No	Yes
76	14S-07	84.96610	32.69190	0.00000	84.24980	39.01460	0.00000	14	Surface	No	Yes
77	14S-08	84.24980	39.01460	0.00000	91.78250	39.68670	0.00000	16	Surface	No	Yes
78	14S-09	91.78250	39.68670	0.00000	91.28600	45.08870	0.00000	12	Surface	No	Yes
79	14S-10	91.28600	45.08870	0.00000	92.75790	45.17660	0.00000	4	Surface	No	Yes
80	14S-11	92.75790	45.17660	0.00000	92.77120	50.75620	0.00000	12	Surface	No	Yes
81	14S-12	91.78250	39.68670	0.00000	92.16740	36.00230	0.00000	8	Surface	No	Yes
82	18S-01	81.33400	88.63190	0.00000	86.41230	96.00810	0.00000	18	Surface	No	Yes
83	18S-02	86.41230	96.00810	0.00000	92.95060	91.70430	0.00000	16	Surface	No	Yes
84	18S-03	92.95060	91.70430	0.00000	91.78190	89.93000	0.00000	6	Surface	No	Yes
85	18S-04	91.78190	89.93000	0.00000	90.32680	90.89600	0.00000	4	Surface	No	Yes
86	18S-05	90.32680	90.89600	0.00000	86.49690	85.17440	0.00000	14	Surface	No	Yes
87	20S-01	86.41230	96.00810	0.00000	84.52910	97.22690	0.00000	6	Surface	No	Yes
88	20S-02	84.52910	97.22690	0.00000	87.92950	102.39110	0.00000	14	Surface	No	Yes
89	20S-03	87.92950	102.39110	0.00000	96.34550	96.84960	0.00000	22	Surface	No	Yes
90	20S-04	96.34550	96.84960	0.00000	92.95490	91.70020	0.00000	14	Surface	No	Yes
91	20S-05	87.93150	102.38980	0.00000	89.37460	104.56500	0.00000	6	Surface	No	Yes
92	20S-06	89.37460	104.56500	0.00000	98.06690	99.48250	0.00000	22	Surface	No	Yes
93	20S-07	98.06690	99.48250	0.00000	96.33700	96.85520	0.00000	8	Surface	No	Yes
94	HT-01	89.37270	104.57010	0.00000	88.40380	105.14270	0.00000	4	Surface	No	Yes
95	HT-02	88.40380	105.14270	0.00000	96.95640	119.99620	0.00000	36	Surface	No	Yes
96	HT-03	96.95640	119.99620	0.00000	106.14990	114.69620	0.00000	22	Surface	No	Yes
97	HT-04	106.14990	114.69620	0.00000	97.55640	99.83220	0.00000	36	Surface	No	Yes
98	22S-01	111.36030	124.06920	0.00000	117.67220	121.87340	0.00000	14	Surface	No	Yes
99	22S-02	117.67220	121.87340	0.00000	113.74630	110.60680	0.00000	24	Surface	No	Yes
100	22S-03	113.74630	110.60680	0.00000	107.41530	112.81150	0.00000	14	Surface	No	Yes
101	22S-04	107.41530	112.81150	0.00000	111.36030	124.06920	0.00000	24	Surface	No	Yes
102	23K-01	126.87040	106.75440	0.00000	121.35490	108.65170	0.00000	12	Surface	No	Yes
103	23K-02	121.35490	108.65170	0.00000	124.50830	117.78880	0.00000	20	Surface	No	Yes
104	23K-03	124.50830	117.78880	0.00000	130.05210	115.90790	0.00000	12	Surface	No	Yes
105	23K-04	130.24640	116.47000	0.00000	135.14280	114.77200	0.00000	12	Surface	No	Yes
106	23K-05	135.32920	115.30920	0.00000	140.56920	113.49180	0.00000	12	Surface	No	Yes
107	23K-06	140.75790	114.06100	0.00000	145.80760	112.31000	0.00000	12	Surface	No	Yes
108	23K-07	145.92710	112.67510	0.00000	151.15830	110.86520	0.00000	12	Surface	No	Yes
109	23K-08	151.15830	110.86520	0.00000	147.93780	101.55660	0.00000	20	Surface	No	Yes
110	23K-09	147.93780	101.55660	0.00000	142.71890	103.40190	0.00000	12	Surface	No	Yes
111	23K-10	137.49760	104.66790	0.00000	142.54690	102.91530	0.00000	12	Surface	No	Yes
112	23K-11	142.54690	102.91530	0.00000	145.92710	112.67510	0.00000	22	Surface	No	Yes
113	23K-12	140.75790	114.06100	0.00000	137.34700	104.23380	0.00000	22	Surface	No	Yes
114	23K-13	137.34700	104.23380	0.00000	132.13560	106.08440	0.00000	12	Surface	No	Yes
115	23K-14	127.09450	107.39930	0.00000	132.00260	105.70020	0.00000	12	Surface	No	Yes
116	23K-15	132.00260	105.70020	0.00000	135.32920	115.30920	0.00000	22	Surface	No	Yes
117	23K-16	130.24640	116.47000	0.00000	126.87040	106.75440	0.00000	22	Surface	No	Yes
118	23K-17	150.73130	109.63110	0.00000	154.98620	108.13750	0.00000	10	Surface	No	Yes
119	23K-18	154.98620	108.13750	0.00000	153.26510	103.07420	0.00000	12	Surface	No	Yes
120	23K-19	153.26510	103.07420	0.00000	148.98040	104.57010	0.00000	10	Surface	No	Yes
121	23AB-01	147.70060	95.28400	0.00000	151.69590	95.55920	0.00000	10	Surface	No	Yes
122	23AB-02	151.69590	95.55920	0.00000	151.67850	95.77640	0.00000	2	Surface	No	Yes
123	23AB-03	151.67850	95.77640	0.00000	156.45740	96.11380	0.00000	10	Surface	No	Yes
124	23AB-04	156.45740	96.11380	0.00000	156.91140	89.68290	0.00000	14	Surface	No	Yes
125	23AB-05	156.91140	89.68290	0.00000	157.92310	89.75230	0.00000	4	Surface	No	Yes
126	23AB-06	157.92310	89.75230	0.00000	158.43810	83.37010	0.00000	14	Surface	No	Yes
127	23AB-07	158.43810	83.37010	0.00000	153.41680	82.96500	0.00000	12	Surface	No	Yes
128	23AB-08	153.41680	82.96500	0.00000	153.39420	83.24560	0.00000	2	Surface	No	Yes
129	23AB-09	153.39420	83.24560	0.00000	147.77430	82.89600	0.00000	12	Surface	No	Yes
130	23AB-10	147.77430	82.89600	0.00000	147.53430	85.93970	0.00000	8	Surface	No	Yes
131	23AB-11	147.53430	85.93970	0.00000	149.37650	86.06600	0.00000	4	Surface	No	Yes
132	23AB-12	149.37650	86.06600	0.00000	149.18030	88.92790	0.00000	6	Surface	No	Yes
133	23AB-13	149.18030	88.92790	0.00000	148.15150	88.83780	0.00000	4	Surface	No	Yes
134	23AB-14	148.15150	88.83780	0.00000	147.70060	95.28400	0.00000	14	Surface	No	Yes
135	23AB-15	149.18030	88.92790	0.00000	156.87950	89.68080	0.00000	16	Surface	No	Yes
136	28K-01	157.04370	132.95660	0.00000	166.97510	127.93910	0.00000	24	Surface	No	Yes
137	28K-02	166.97510	127.93910	0.00000	166.97510	124.18080	0.00000	8	Surface	No	Yes
138	28K-03	166.97510	124.18080	0.00000	162.93810	116.19020	0.00000	18	Surface	No	Yes
139	28K-04	162.93810	116.19020	0.00000	156.00440	119.55240	0.00000	16	Surface	No	Yes
140	28K-05	156.00440	119.55240	0.00000	159.23750	126.13830	0.00000	16	Surface	No	Yes
141	28K-06	159.23750	126.13830	0.00000	154.79550	128.31900	0.00000	10	Surface	No	Yes
142	28K-07	154.79550	128.31900	0.00000	157.04370	132.95660	0.00000	12	Surface	No	Yes

Displacement Grids

Ref.	Name	Extrusion: Direction	Base line start: X [m]	Base line start: Y [m]	Base line start: Z(level) [m]	Base line end: X [m]	Base line end: Y [m]	Base line end: Z(level) [m]	Base line: Intervals [No.]	Extrusion: Distance [m]	Extrusion: Intervals [No.]	Surface type for tunnels	Calculate
1	A	Global X	0.00000	0.00000	0.00000	-	150.00000	0.00000	30	107.00000	21	Surface	Yes
2	B	Global X	107.00000	0.00000	0.00000	-	150.00000	0.00000	30	103.00000	20	Surface	Yes

Imported Displacements

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
1	ID Set #	1	86.49970	85.17730	0.00000	0.00000	0.00000	0.60185	1,2,6
		2	86.26439	84.81760	0.00000	0.00000	0.00000	0.61880	1,2,6
		3	86.02907	84.45790	0.00000	0.00000	0.00000	0.63679	1,2,6
		4	85.79376	84.09820	0.00000	0.00000	0.00000	0.65592	1,2,6
		5	85.55844	83.73850	0.00000	0.00000	0.00000	0.67633	1,2,6
		6	85.32313	83.37880	0.00000	0.00000	0.00000	0.69813	1,2,6
		7	85.08781	83.01910	0.00000	0.00000	0.00000	0.72149	1,2,6
		8	84.85250	82.65940	0.00000	0.00000	0.00000	0.74655	1,2,6
		9	84.61719	82.29970	0.00000	0.00000	0.00000	0.77350	1,2,6
		10	84.38187	81.94000	0.00000	0.00000	0.00000	0.80254	1,2,6
		11	84.14656	81.58030	0.00000	0.00000	0.00000	0.83390	1,2,6
		12	83.91124	81.22060	0.00000	0.00000	0.00000	0.86781	1,2,6
		13	83.67593	80.86090	0.00000	0.00000	0.00000	0.90455	1,2,6
		14	83.44061	80.50120	0.00000	0.00000	0.00000	0.94443	1,2,6
		15	83.20530	80.14150	0.00000	0.00000	0.00000	0.98779	1,2,6
		16	82.73566	80.17139	0.00000	0.00000	0.00000	1.00608	1,2,6
		17	82.26601	80.20129	0.00000	0.00000	0.00000	1.02552	1,2,6
		18	81.79637	80.23118	0.00000	0.00000	0.00000	1.04592	1,2,6
		19	81.32673	80.26107	0.00000	0.00000	0.00000	1.06705	1,2,6
		20	80.85709	80.29096	0.00000	0.00000	0.00000	1.08866	1,2,6
		21	80.38744	80.32086	0.00000	0.00000	0.00000	1.11049	1,2,6
		22	79.91780	80.35075	0.00000	0.00000	0.00000	1.13223	1,2,6
		23	79.44816	80.38064	0.00000	0.00000	0.00000	1.15360	1,2,6
		24	78.97851	80.41054	0.00000	0.00000	0.00000	1.17425	1,2,6
		25	78.50887	80.44043	0.00000	0.00000	0.00000	1.19389	1,2,6
		26	78.03923	80.47032	0.00000	0.00000	0.00000	1.21219	1,2,6
		27	77.56959	80.50021	0.00000	0.00000	0.00000	1.22885	1,2,6
		28	77.09994	80.53011	0.00000	0.00000	0.00000	1.24360	1,2,6
		29	76.63030	80.56000	0.00000	0.00000	0.00000	1.25619	1,2,6
		30	76.20712	80.75773	0.00000	0.00000	0.00000	1.23584	1,2,6
		31	75.78393	80.95547	0.00000	0.00000	0.00000	1.21417	1,2,6
		32	75.36075	81.15320	0.00000	0.00000	0.00000	1.19156	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		33	74.93757	81.35093	0.00000	0.00000	0.00000	1.16837	1,2,6
		34	74.51438	81.54867	0.00000	0.00000	0.00000	1.14498	1,2,6
		35	74.09120	81.74640	0.00000	0.00000	0.00000	1.12174	1,2,6
		36	74.36064	82.14321	0.00000	0.00000	0.00000	1.06553	1,2,6
		37	74.63009	82.54001	0.00000	0.00000	0.00000	1.01274	1,2,6
		38	74.89953	82.93682	0.00000	0.00000	0.00000	0.96319	1,2,6
		39	75.16898	83.33362	0.00000	0.00000	0.00000	0.91673	1,2,6
		40	75.43842	83.73043	0.00000	0.00000	0.00000	0.87318	1,2,6
		41	75.70786	84.12724	0.00000	0.00000	0.00000	0.83236	1,2,6
		42	75.97731	84.52404	0.00000	0.00000	0.00000	0.79409	1,2,6
		43	76.24675	84.92085	0.00000	0.00000	0.00000	0.75819	1,2,6
		44	76.51619	85.31766	0.00000	0.00000	0.00000	0.72450	1,2,6
		45	76.78564	85.71446	0.00000	0.00000	0.00000	0.69286	1,2,6
		46	77.05508	86.11127	0.00000	0.00000	0.00000	0.66312	1,2,6
		47	77.32452	86.50808	0.00000	0.00000	0.00000	0.63513	1,2,6
		48	77.59397	86.90488	0.00000	0.00000	0.00000	0.60878	1,2,6
		49	77.86341	87.30169	0.00000	0.00000	0.00000	0.58392	1,2,6
		50	78.13286	87.69849	0.00000	0.00000	0.00000	0.56046	1,2,6
		51	78.40230	88.09530	0.00000	0.00000	0.00000	0.53828	1,2,6
		52	78.88938	88.18518	0.00000	0.00000	0.00000	0.52673	1,2,6
		53	79.37647	88.27507	0.00000	0.00000	0.00000	0.51574	1,2,6
		54	79.86355	88.36495	0.00000	0.00000	0.00000	0.50532	1,2,6
		55	80.35063	88.45483	0.00000	0.00000	0.00000	0.49549	1,2,6
		56	80.83772	88.54472	0.00000	0.00000	0.00000	0.48626	1,2,6
		57	81.32480	88.63460	0.00000	0.00000	0.00000	0.47765	1,2,6
		58	81.69444	88.38765	0.00000	0.00000	0.00000	0.48369	1,2,6
		59	82.06407	88.14070	0.00000	0.00000	0.00000	0.49017	1,2,6
		60	82.43371	87.89375	0.00000	0.00000	0.00000	0.49706	1,2,6
		61	82.80334	87.64680	0.00000	0.00000	0.00000	0.50437	1,2,6
		62	83.17298	87.39985	0.00000	0.00000	0.00000	0.51209	1,2,6
		63	83.54261	87.15290	0.00000	0.00000	0.00000	0.52023	1,2,6
		64	83.91225	86.90595	0.00000	0.00000	0.00000	0.52879	1,2,6
		65	84.28189	86.65900	0.00000	0.00000	0.00000	0.53778	1,2,6
		66	84.65152	86.41205	0.00000	0.00000	0.00000	0.54721	1,2,6
		67	85.02116	86.16510	0.00000	0.00000	0.00000	0.55711	1,2,6
		68	85.39079	85.91815	0.00000	0.00000	0.00000	0.56749	1,2,6
		69	85.76043	85.67120	0.00000	0.00000	0.00000	0.57839	1,2,6
		70	86.13006	85.42425	0.00000	0.00000	0.00000	0.58983	1,2,6
		71	41.07740	85.19800	0.00000	0.00000	0.00000	2.63447	1,2,6
		72	41.54492	85.02303	0.00000	0.00000	0.00000	2.97442	1,2,6
		73	42.01244	84.84806	0.00000	0.00000	0.00000	3.37157	1,2,6
		74	42.47996	84.67309	0.00000	0.00000	0.00000	3.83811	1,2,6
		75	42.94748	84.49812	0.00000	0.00000	0.00000	4.39352	1,2,6
		76	43.41500	84.32315	0.00000	0.00000	0.00000	5.06666	1,2,6
		77	43.88252	84.14818	0.00000	0.00000	0.00000	5.89792	1,2,6
		78	44.35003	83.97322	0.00000	0.00000	0.00000	7.09161	1,2,6
		79	44.81755	83.79825	0.00000	0.00000	0.00000	7.94110	1,2,6
		80	45.28507	83.62328	0.00000	0.00000	0.00000	8.57936	1,2,6
		81	45.75259	83.44831	0.00000	0.00000	0.00000	9.05393	1,2,6
		82	46.22011	83.27334	0.00000	0.00000	0.00000	9.39759	1,2,6
		83	46.68763	83.09837	0.00000	0.00000	0.00000	9.63560	1,2,6
		84	47.15515	82.92340	0.00000	0.00000	0.00000	9.78450	1,2,6
		85	47.62267	82.74843	0.00000	0.00000	0.00000	9.85413	1,2,6
		86	48.09019	82.57346	0.00000	0.00000	0.00000	9.85147	1,2,6
		87	48.55771	82.39849	0.00000	0.00000	0.00000	9.78411	1,2,6
		88	49.02523	82.22352	0.00000	0.00000	0.00000	9.65906	1,2,6
		89	49.49275	82.04855	0.00000	0.00000	0.00000	9.47527	1,2,6
		90	49.96027	81.87358	0.00000	0.00000	0.00000	9.21854	1,2,6
		91	50.42778	81.69862	0.00000	0.00000	0.00000	8.86247	1,2,6
		92	50.89530	81.52365	0.00000	0.00000	0.00000	8.37174	1,2,6
		93	51.36282	81.34868	0.00000	0.00000	0.00000	7.70688	1,2,6
		94	51.83034	81.17371	0.00000	0.00000	0.00000	6.83081	1,2,6
		95	52.29786	80.99874	0.00000	0.00000	0.00000	5.59296	1,2,6
		96	52.76538	80.82377	0.00000	0.00000	0.00000	4.71641	1,2,6
		97	53.23290	80.64880	0.00000	0.00000	0.00000	4.02342	1,2,6
		98	53.06007	80.18887	0.00000	0.00000	0.00000	3.72297	1,2,6
		99	52.88724	79.72893	0.00000	0.00000	0.00000	3.41270	1,2,6
		100	52.71441	79.26900	0.00000	0.00000	0.00000	3.10226	1,2,6
		101	52.54158	78.80906	0.00000	0.00000	0.00000	2.80395	1,2,6
		102	52.36875	78.34913	0.00000	0.00000	0.00000	2.52834	1,2,6
		103	52.19592	77.88920	0.00000	0.00000	0.00000	2.28112	1,2,6
		104	52.02309	77.42926	0.00000	0.00000	0.00000	2.06324	1,2,6
		105	51.85025	76.96933	0.00000	0.00000	0.00000	1.87275	1,2,6
		106	51.67742	76.50940	0.00000	0.00000	0.00000	1.70649	1,2,6
		107	51.50459	76.04946	0.00000	0.00000	0.00000	1.56106	1,2,6
		108	51.33176	75.58953	0.00000	0.00000	0.00000	1.43337	1,2,6
		109	51.15893	75.12959	0.00000	0.00000	0.00000	1.32071	1,2,6
		110	50.98610	74.66966	0.00000	0.00000	0.00000	1.22084	1,2,6
		111	50.81327	74.20973	0.00000	0.00000	0.00000	1.13186	1,2,6
		112	50.64044	73.74979	0.00000	0.00000	0.00000	1.05221	1,2,6
		113	50.46761	73.28986	0.00000	0.00000	0.00000	0.98060	1,2,6
		114	50.29478	72.82992	0.00000	0.00000	0.00000	0.91593	1,2,6
		115	50.12195	72.36999	0.00000	0.00000	0.00000	0.85729	1,2,6
		116	49.94912	71.91006	0.00000	0.00000	0.00000	0.80393	1,2,6
		117	49.77629	71.45012	0.00000	0.00000	0.00000	0.75520	1,2,6
		118	49.60346	70.99019	0.00000	0.00000	0.00000	0.71053	1,2,6
		119	49.43063	70.53025	0.00000	0.00000	0.00000	0.66946	1,2,6
		120	49.25780	70.07032	0.00000	0.00000	0.00000	0.63158	1,2,6
		121	49.08496	69.61039	0.00000	0.00000	0.00000	0.59654	1,2,6
		122	48.91213	69.15045	0.00000	0.00000	0.00000	0.56404	1,2,6
		123	48.73930	68.69052	0.00000	0.00000	0.00000	0.53382	1,2,6
		124	48.56647	68.23059	0.00000	0.00000	0.00000	0.50564	1,2,6
		125	48.39364	67.77065	0.00000	0.00000	0.00000	0.47931	1,2,6
		126	48.22081	67.31072	0.00000	0.00000	0.00000	0.45465	1,2,6
		127	48.04798	66.85078	0.00000	0.00000	0.00000	0.43150	1,2,6
		128	47.87515	66.39085	0.00000	0.00000	0.00000	0.40974	1,2,6
		129	47.70232	65.93092	0.00000	0.00000	0.00000	0.38924	1,2,6
		130	47.52949	65.47098	0.00000	0.00000	0.00000	0.36989	1,2,6
		131	47.35666	65.01105	0.00000	0.00000	0.00000	0.35160	1,2,6
		132	47.18383	64.55111	0.00000	0.00000	0.00000	0.33429	1,2,6
		133	47.01100	64.09118	0.00000	0.00000	0.00000	0.31788	1,2,6
		134	46.83817	63.63125	0.00000	0.00000	0.00000	0.30230	1,2,6
		135	46.66534	63.17131	0.00000	0.00000	0.00000	0.28750	1,2,6
		136	46.49250	62.71138	0.00000	0.00000	0.00000	0.27341	1,2,6
		137	46.31967	62.25145	0.00000	0.00000	0.00000	0.26000	1,2,6
		138	46.14684	61.79151	0.00000	0.00000	0.00000	0.24721	1,2,6
		139	45.97401	61.33158	0.00000	0.00000	0.00000	0.23502	1,2,6
		140	45.80118	60.87164	0.00000	0.00000	0.00000	0.22337	1,2,6
		141	45.62835	60.41171	0.00000	0.00000	0.00000	0.21224	1,2,6
		142	45.45552	59.95178	0.00000	0.00000	0.00000	0.20161	1,2,6
		143	45.28269	59.49184	0.00000	0.00000	0.00000	0.19143	1,2,6
		144	45.10986	59.03191	0.00000	0.00000	0.00000	0.18169	1,2,6
		145	44.93703	58.57197	0.00000	0.00000	0.00000	0.17237	1,2,6
		146	44.76420	58.11204	0.00000	0.00000	0.00000	0.16344	1,2,6
		147	44.59137	57.65211	0.00000	0.00000	0.00000	0.15488	1,2,6
		148	44.41854	57.19217	0.00000	0.00000	0.00000	0.14668	1,2,6
		149	44.24571	56.73224	0.00000	0.00000	0.00000	0.13882	1,2,6
		150	44.07288	56.27230	0.00000	0.00000	0.00000	0.13128	1,2,6
		151	43.90005	55.81237	0.00000	0.00000	0.00000	0.12405	1,2,6
		152	43.72721	55.35244	0.00000	0.00000	0.00000	0.11711	1,2,6
		153	43.55438	54.89250	0.00000	0.00000	0.00000	0.11046	1,2,6
		154	43.38155	54.43257	0.00000	0.00000	0.00000	0.10407	1,2,6
		155	43.20872	53.97264	0.00000	0.00000	0.00000	0.09794	1,2,6
		156	43.03589	53.51270	0.00000	0.00000	0.00000	0.09206	1,2,6
		157	42.86306	53.05277	0.00000	0.00000	0.00000	0.08642	1,2,6
		158	42.69023	52.59283	0.00000	0.00000	0.00000	0.08101	1,2,6
		159	42.51740	52.13290	0.00000	0.00000	0.00000	0.07581	1,2,6
		160	42.34490	52.12415	0.00000	0.00000	0.00000	0.07436	1,2,6
		161	42.17240	52.11540	0.00000	0.00000	0.00000	0.07293	1,2,6
		162	41.96133	51.67676	0.00000	0.00000	0.00000	0.06794	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		163	41.75025	51.23812	0.00000	0.00000	0.00000	0.06316	1,2,6
		164	41.53918	50.79948	0.00000	0.00000	0.00000	0.05858	1,2,6
		165	41.32810	50.36083	0.00000	0.00000	0.00000	0.05419	1,2,6
		166	41.11702	49.92219	0.00000	0.00000	0.00000	0.04999	1,2,6
		167	40.90595	49.48355	0.00000	0.00000	0.00000	0.04597	1,2,6
		168	40.69488	49.04491	0.00000	0.00000	0.00000	0.04211	1,2,6
		169	40.48380	48.60627	0.00000	0.00000	0.00000	0.03843	1,2,6
		170	40.27273	48.16763	0.00000	0.00000	0.00000	0.03489	1,2,6
		171	40.06165	47.72898	0.00000	0.00000	0.00000	0.03151	1,2,6
		172	39.85057	47.29034	0.00000	0.00000	0.00000	0.02828	1,2,6
		173	39.63950	46.85170	0.00000	0.00000	0.00000	0.02519	1,2,6
		174	39.22713	46.92883	0.00000	0.00000	0.00000	0.02373	1,2,6
		175	38.81475	47.00595	0.00000	0.00000	0.00000	0.02232	1,2,6
		176	38.40237	47.08308	0.00000	0.00000	0.00000	0.02094	1,2,6
		177	37.99000	47.16020	0.00000	0.00000	0.00000	0.01960	1,2,6
		178	37.62248	47.32717	0.00000	0.00000	0.00000	0.01885	1,2,6
		179	37.25495	47.49415	0.00000	0.00000	0.00000	0.01812	1,2,6
		180	36.88743	47.66112	0.00000	0.00000	0.00000	0.01740	1,2,6
		181	36.51990	47.82810	0.00000	0.00000	0.00000	0.01670	1,2,6
		182	36.26713	48.12325	0.00000	0.00000	0.00000	0.01695	1,2,6
		183	36.01435	48.41840	0.00000	0.00000	0.00000	0.01721	1,2,6
		184	35.76158	48.71355	0.00000	0.00000	0.00000	0.01747	1,2,6
		185	35.50880	49.00870	0.00000	0.00000	0.00000	0.01773	1,2,6
		186	35.25603	49.30385	0.00000	0.00000	0.00000	0.01799	1,2,6
		187	35.00325	49.59900	0.00000	0.00000	0.00000	0.01825	1,2,6
		188	34.75048	49.89415	0.00000	0.00000	0.00000	0.01851	1,2,6
		189	34.49770	50.18930	0.00000	0.00000	0.00000	0.01877	1,2,6
		190	34.10253	50.37673	0.00000	0.00000	0.00000	0.01804	1,2,6
		191	33.70737	50.56417	0.00000	0.00000	0.00000	0.01731	1,2,6
		192	33.31220	50.75160	0.00000	0.00000	0.00000	0.01660	1,2,6
		193	32.91703	50.93903	0.00000	0.00000	0.00000	0.01590	1,2,6
		194	32.52187	51.12647	0.00000	0.00000	0.00000	0.01521	1,2,6
		195	32.12670	51.31390	0.00000	0.00000	0.00000	0.01452	1,2,6
		196	32.31482	51.76588	0.00000	0.00000	0.00000	0.01698	1,2,6
		197	32.50295	52.21785	0.00000	0.00000	0.00000	0.01956	1,2,6
		198	32.69107	52.66983	0.00000	0.00000	0.00000	0.02226	1,2,6
		199	32.87920	53.12180	0.00000	0.00000	0.00000	0.02508	1,2,6
		200	32.49437	53.25320	0.00000	0.00000	0.00000	0.02404	1,2,6
		201	32.10955	53.38460	0.00000	0.00000	0.00000	0.02302	1,2,6
		202	31.72472	53.51600	0.00000	0.00000	0.00000	0.02202	1,2,6
		203	31.33990	53.64740	0.00000	0.00000	0.00000	0.02103	1,2,6
		204	31.26590	53.40790	0.00000	0.00000	0.00000	0.01972	1,2,6
		205	31.19190	53.16840	0.00000	0.00000	0.00000	0.01844	1,2,6
		206	30.82340	53.32289	0.00000	0.00000	0.00000	0.01766	1,2,6
		207	30.45490	53.47738	0.00000	0.00000	0.00000	0.01690	1,2,6
		208	30.08640	53.63186	0.00000	0.00000	0.00000	0.01614	1,2,6
		209	29.71790	53.78635	0.00000	0.00000	0.00000	0.01539	1,2,6
		210	29.34940	53.94084	0.00000	0.00000	0.00000	0.01464	1,2,6
		211	28.98090	54.09533	0.00000	0.00000	0.00000	0.01390	1,2,6
		212	28.61240	54.24981	0.00000	0.00000	0.00000	0.01317	1,2,6
		213	28.24390	54.40430	0.00000	0.00000	0.00000	0.01245	1,2,6
		214	28.40681	54.81690	0.00000	0.00000	0.00000	0.01453	1,2,6
		215	28.56972	55.22950	0.00000	0.00000	0.00000	0.01670	1,2,6
		216	28.73264	55.64210	0.00000	0.00000	0.00000	0.01897	1,2,6
		217	28.89555	56.05470	0.00000	0.00000	0.00000	0.02134	1,2,6
		218	29.05846	56.46730	0.00000	0.00000	0.00000	0.02380	1,2,6
		219	29.22137	56.87990	0.00000	0.00000	0.00000	0.02638	1,2,6
		220	29.38429	57.29250	0.00000	0.00000	0.00000	0.02906	1,2,6
		221	29.54720	57.70510	0.00000	0.00000	0.00000	0.03187	1,2,6
		222	29.93258	57.54730	0.00000	0.00000	0.00000	0.03299	1,2,6
		223	30.31797	57.38950	0.00000	0.00000	0.00000	0.03411	1,2,6
		224	30.70335	57.23170	0.00000	0.00000	0.00000	0.03524	1,2,6
		225	31.08873	57.07390	0.00000	0.00000	0.00000	0.03638	1,2,6
		226	31.47412	56.91610	0.00000	0.00000	0.00000	0.03753	1,2,6
		227	31.85950	56.75830	0.00000	0.00000	0.00000	0.03869	1,2,6
		228	32.03411	57.22651	0.00000	0.00000	0.00000	0.04232	1,2,6
		229	32.20873	57.69472	0.00000	0.00000	0.00000	0.04613	1,2,6
		230	32.38334	58.16294	0.00000	0.00000	0.00000	0.05013	1,2,6
		231	32.55796	58.63115	0.00000	0.00000	0.00000	0.05433	1,2,6
		232	32.73257	59.09936	0.00000	0.00000	0.00000	0.05874	1,2,6
		233	32.90719	59.56757	0.00000	0.00000	0.00000	0.06338	1,2,6
		234	33.08180	60.03578	0.00000	0.00000	0.00000	0.06826	1,2,6
		235	33.25642	60.50399	0.00000	0.00000	0.00000	0.07339	1,2,6
		236	33.43103	60.97221	0.00000	0.00000	0.00000	0.07879	1,2,6
		237	33.60565	61.44042	0.00000	0.00000	0.00000	0.08448	1,2,6
		238	33.78026	61.90863	0.00000	0.00000	0.00000	0.09048	1,2,6
		239	33.95488	62.37684	0.00000	0.00000	0.00000	0.09680	1,2,6
		240	34.12949	62.84505	0.00000	0.00000	0.00000	0.10347	1,2,6
		241	34.30411	63.31326	0.00000	0.00000	0.00000	0.11052	1,2,6
		242	34.47872	63.78148	0.00000	0.00000	0.00000	0.11796	1,2,6
		243	34.65334	64.24969	0.00000	0.00000	0.00000	0.12583	1,2,6
		244	34.82795	64.71790	0.00000	0.00000	0.00000	0.13415	1,2,6
		245	35.00256	65.18611	0.00000	0.00000	0.00000	0.14297	1,2,6
		246	35.17718	65.65432	0.00000	0.00000	0.00000	0.15232	1,2,6
		247	35.35179	66.12254	0.00000	0.00000	0.00000	0.16224	1,2,6
		248	35.52641	66.59075	0.00000	0.00000	0.00000	0.17277	1,2,6
		249	35.70102	67.05896	0.00000	0.00000	0.00000	0.18396	1,2,6
		250	35.87564	67.52717	0.00000	0.00000	0.00000	0.19587	1,2,6
		251	36.05025	67.99538	0.00000	0.00000	0.00000	0.20856	1,2,6
		252	36.22487	68.46359	0.00000	0.00000	0.00000	0.22209	1,2,6
		253	36.39948	68.93181	0.00000	0.00000	0.00000	0.23653	1,2,6
		254	36.57410	69.40002	0.00000	0.00000	0.00000	0.25197	1,2,6
		255	36.74871	69.86823	0.00000	0.00000	0.00000	0.26850	1,2,6
		256	36.92333	70.33644	0.00000	0.00000	0.00000	0.28621	1,2,6
		257	37.09794	70.80465	0.00000	0.00000	0.00000	0.30523	1,2,6
		258	37.27256	71.27286	0.00000	0.00000	0.00000	0.32567	1,2,6
		259	37.44717	71.74108	0.00000	0.00000	0.00000	0.34768	1,2,6
		260	37.62179	72.20929	0.00000	0.00000	0.00000	0.37141	1,2,6
		261	37.79640	72.67750	0.00000	0.00000	0.00000	0.39705	1,2,6
		262	37.93699	73.15284	0.00000	0.00000	0.00000	0.42366	1,2,6
		263	38.07758	73.62818	0.00000	0.00000	0.00000	0.45240	1,2,6
		264	38.21817	74.10352	0.00000	0.00000	0.00000	0.48348	1,2,6
		265	38.35876	74.57886	0.00000	0.00000	0.00000	0.51715	1,2,6
		266	38.49935	75.05420	0.00000	0.00000	0.00000	0.55368	1,2,6
		267	38.63994	75.52954	0.00000	0.00000	0.00000	0.59338	1,2,6
		268	38.78053	76.00488	0.00000	0.00000	0.00000	0.63660	1,2,6
		269	38.92112	76.48022	0.00000	0.00000	0.00000	0.68374	1,2,6
		270	39.06171	76.95556	0.00000	0.00000	0.00000	0.73523	1,2,6
		271	39.20230	77.43090	0.00000	0.00000	0.00000	0.79159	1,2,6
		272	38.81835	77.57060	0.00000	0.00000	0.00000	0.76453	1,2,6
		273	38.43440	77.71030	0.00000	0.00000	0.00000	0.73761	1,2,6
		274	38.59959	78.17828	0.00000	0.00000	0.00000	0.79412	1,2,6
		275	38.76478	78.64626	0.00000	0.00000	0.00000	0.85594	1,2,6
		276	38.92996	79.11424	0.00000	0.00000	0.00000	0.92366	1,2,6
		277	39.09515	79.58222	0.00000	0.00000	0.00000	0.99792	1,2,6
		278	39.26034	80.05021	0.00000	0.00000	0.00000	1.07940	1,2,6
		279	39.42553	80.51819	0.00000	0.00000	0.00000	1.16883	1,2,6
		280	39.59071	80.98617	0.00000	0.00000	0.00000	1.26695	1,2,6
		281	39.75590	81.45415	0.00000	0.00000	0.00000	1.37447	1,2,6
		282	39.92109	81.92213	0.00000	0.00000	0.00000	1.49207	1,2,6
		283	40.08628	82.39011	0.00000	0.00000	0.00000	1.62025	1,2,6
		284	40.25146	82.85809	0.00000	0.00000	0.00000	1.75941	1,2,6
		285	40.41665	83.32608	0.00000	0.00000	0.00000	1.90978	1,2,6
		286	40.58184	83.79406	0.00000	0.00000	0.00000	2.07163	1,2,6
		287	40.74703	84.26204	0.00000	0.00000	0.00000	2.24549	1,2,6
		288	40.91221	84.73002	0.00000	0.00000	0.00000	2.43251	1,2,6
		289	80.55960	128.61410	0.00000	0.00000	0.00000	-0.01960	1,2,6
		290	80.70318	128.86005	0.00000	0.00000	0.00000	-0.02051	1,2,6
		291	80.84675	129.10600	0.00000	0.00000	0.00000	-0.02139	1,2,6
		292	80.99032	129.35195	0.00000	0.00000	0.00000	-0.02225	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		293	81.13390	129.59790	0.00000	0.00000	0.00000	-0.02308	1,2,6
		294	81.53432	129.35315	0.00000	0.00000	0.00000	-0.02310	1,2,6
		295	81.93475	129.10841	0.00000	0.00000	0.00000	-0.02311	1,2,6
		296	82.33518	128.86366	0.00000	0.00000	0.00000	-0.02311	1,2,6
		297	82.73560	128.61892	0.00000	0.00000	0.00000	-0.02311	1,2,6
		298	83.13603	128.37418	0.00000	0.00000	0.00000	-0.02309	1,2,6
		299	83.53645	128.12943	0.00000	0.00000	0.00000	-0.02306	1,2,6
		300	83.93688	127.88469	0.00000	0.00000	0.00000	-0.02302	1,2,6
		301	84.33730	127.63994	0.00000	0.00000	0.00000	-0.02297	1,2,6
		302	84.73772	127.39520	0.00000	0.00000	0.00000	-0.02290	1,2,6
		303	85.13815	127.15045	0.00000	0.00000	0.00000	-0.02282	1,2,6
		304	85.53857	126.90570	0.00000	0.00000	0.00000	-0.02272	1,2,6
		305	85.93900	126.66096	0.00000	0.00000	0.00000	-0.02260	1,2,6
		306	86.33943	126.41621	0.00000	0.00000	0.00000	-0.02246	1,2,6
		307	86.73985	126.17147	0.00000	0.00000	0.00000	-0.02230	1,2,6
		308	87.14028	125.92673	0.00000	0.00000	0.00000	-0.02212	1,2,6
		309	87.54070	125.68198	0.00000	0.00000	0.00000	-0.02191	1,2,6
		310	87.94112	125.43724	0.00000	0.00000	0.00000	-0.02168	1,2,6
		311	88.34155	125.19249	0.00000	0.00000	0.00000	-0.02141	1,2,6
		312	88.74197	124.94774	0.00000	0.00000	0.00000	-0.02112	1,2,6
		313	89.14240	124.70300	0.00000	0.00000	0.00000	-0.02080	1,2,6
		314	88.87339	124.28303	0.00000	0.00000	0.00000	-0.01928	1,2,6
		315	88.60438	123.86307	0.00000	0.00000	0.00000	-0.01769	1,2,6
		316	88.33537	123.44310	0.00000	0.00000	0.00000	-0.01604	1,2,6
		317	88.06636	123.02313	0.00000	0.00000	0.00000	-0.01431	1,2,6
		318	87.79735	122.60316	0.00000	0.00000	0.00000	-0.01252	1,2,6
		319	87.52834	122.18320	0.00000	0.00000	0.00000	-0.01064	1,2,6
		320	87.25933	121.76323	0.00000	0.00000	0.00000	-0.00869	1,2,6
		321	86.99032	121.34326	0.00000	0.00000	0.00000	-0.00666	1,2,6
		322	86.72131	120.92329	0.00000	0.00000	0.00000	-0.00454	1,2,6
		323	86.45230	120.50333	0.00000	0.00000	0.00000	-0.00233	1,2,6
		324	86.18329	120.08336	0.00000	0.00000	0.00000	-0.00003	1,2,6
		325	85.91428	119.66339	0.00000	0.00000	0.00000	0.00236	1,2,6
		326	85.64527	119.24343	0.00000	0.00000	0.00000	0.00486	1,2,6
		327	85.37626	118.82346	0.00000	0.00000	0.00000	0.00747	1,2,6
		328	85.10724	118.40349	0.00000	0.00000	0.00000	0.01018	1,2,6
		329	84.83823	117.98352	0.00000	0.00000	0.00000	0.01301	1,2,6
		330	84.56922	117.56356	0.00000	0.00000	0.00000	0.01596	1,2,6
		331	84.30021	117.14359	0.00000	0.00000	0.00000	0.01903	1,2,6
		332	84.03120	116.72362	0.00000	0.00000	0.00000	0.02224	1,2,6
		333	83.76219	116.30366	0.00000	0.00000	0.00000	0.02558	1,2,6
		334	83.49318	115.88369	0.00000	0.00000	0.00000	0.02906	1,2,6
		335	83.22417	115.46372	0.00000	0.00000	0.00000	0.03270	1,2,6
		336	82.95516	115.04375	0.00000	0.00000	0.00000	0.03649	1,2,6
		337	82.68615	114.62379	0.00000	0.00000	0.00000	0.04044	1,2,6
		338	82.41714	114.20382	0.00000	0.00000	0.00000	0.04457	1,2,6
		339	82.14813	113.78385	0.00000	0.00000	0.00000	0.04887	1,2,6
		340	81.87912	113.36388	0.00000	0.00000	0.00000	0.05337	1,2,6
		341	81.61011	112.94392	0.00000	0.00000	0.00000	0.05805	1,2,6
		342	81.34110	112.52395	0.00000	0.00000	0.00000	0.06295	1,2,6
		343	81.07209	112.10398	0.00000	0.00000	0.00000	0.06806	1,2,6
		344	80.80308	111.68402	0.00000	0.00000	0.00000	0.07339	1,2,6
		345	80.53407	111.26405	0.00000	0.00000	0.00000	0.07896	1,2,6
		346	80.26506	110.84408	0.00000	0.00000	0.00000	0.08478	1,2,6
		347	79.99605	110.42411	0.00000	0.00000	0.00000	0.09085	1,2,6
		348	79.72704	110.00415	0.00000	0.00000	0.00000	0.09720	1,2,6
		349	79.45803	109.58418	0.00000	0.00000	0.00000	0.10383	1,2,6
		350	79.18902	109.16421	0.00000	0.00000	0.00000	0.11075	1,2,6
		351	78.92001	108.74424	0.00000	0.00000	0.00000	0.11799	1,2,6
		352	78.65100	108.32428	0.00000	0.00000	0.00000	0.12554	1,2,6
		353	78.38199	107.90431	0.00000	0.00000	0.00000	0.13344	1,2,6
		354	78.11298	107.48434	0.00000	0.00000	0.00000	0.14169	1,2,6
		355	77.84397	107.06438	0.00000	0.00000	0.00000	0.15031	1,2,6
		356	77.57496	106.64441	0.00000	0.00000	0.00000	0.15932	1,2,6
		357	77.30594	106.22444	0.00000	0.00000	0.00000	0.16874	1,2,6
		358	77.03693	105.80447	0.00000	0.00000	0.00000	0.17857	1,2,6
		359	76.76792	105.38451	0.00000	0.00000	0.00000	0.18884	1,2,6
		360	76.49891	104.96454	0.00000	0.00000	0.00000	0.19957	1,2,6
		361	76.22990	104.54457	0.00000	0.00000	0.00000	0.21078	1,2,6
		362	75.96089	104.12461	0.00000	0.00000	0.00000	0.22248	1,2,6
		363	75.69188	103.70464	0.00000	0.00000	0.00000	0.23469	1,2,6
		364	75.42287	103.28467	0.00000	0.00000	0.00000	0.24744	1,2,6
		365	75.15386	102.86470	0.00000	0.00000	0.00000	0.26074	1,2,6
		366	74.88485	102.44474	0.00000	0.00000	0.00000	0.27461	1,2,6
		367	74.61584	102.02477	0.00000	0.00000	0.00000	0.28907	1,2,6
		368	74.34683	101.60480	0.00000	0.00000	0.00000	0.30414	1,2,6
		369	74.07782	101.18483	0.00000	0.00000	0.00000	0.31984	1,2,6
		370	73.80881	100.76487	0.00000	0.00000	0.00000	0.33618	1,2,6
		371	73.53980	100.34490	0.00000	0.00000	0.00000	0.35317	1,2,6
		372	73.15932	100.58655	0.00000	0.00000	0.00000	0.36165	1,2,6
		373	72.77883	100.82820	0.00000	0.00000	0.00000	0.37068	1,2,6
		374	72.39835	101.06985	0.00000	0.00000	0.00000	0.38028	1,2,6
		375	72.01786	101.31150	0.00000	0.00000	0.00000	0.39045	1,2,6
		376	71.63738	101.55315	0.00000	0.00000	0.00000	0.40121	1,2,6
		377	71.25689	101.79480	0.00000	0.00000	0.00000	0.41255	1,2,6
		378	70.87641	102.03645	0.00000	0.00000	0.00000	0.42448	1,2,6
		379	70.49592	102.27810	0.00000	0.00000	0.00000	0.43700	1,2,6
		380	70.11544	102.51975	0.00000	0.00000	0.00000	0.45012	1,2,6
		381	69.73495	102.76140	0.00000	0.00000	0.00000	0.46382	1,2,6
		382	69.35447	103.00305	0.00000	0.00000	0.00000	0.47811	1,2,6
		383	68.97398	103.24470	0.00000	0.00000	0.00000	0.49297	1,2,6
		384	68.59350	103.48635	0.00000	0.00000	0.00000	0.50838	1,2,6
		385	68.21301	103.72800	0.00000	0.00000	0.00000	0.52434	1,2,6
		386	67.83253	103.96965	0.00000	0.00000	0.00000	0.54080	1,2,6
		387	67.45204	104.21130	0.00000	0.00000	0.00000	0.55772	1,2,6
		388	67.07156	104.45295	0.00000	0.00000	0.00000	0.57507	1,2,6
		389	66.69107	104.69460	0.00000	0.00000	0.00000	0.59277	1,2,6
		390	66.31059	104.93625	0.00000	0.00000	0.00000	0.61075	1,2,6
		391	65.93010	105.17790	0.00000	0.00000	0.00000	0.62892	1,2,6
		392	66.18562	105.58103	0.00000	0.00000	0.00000	0.58536	1,2,6
		393	66.44114	105.98417	0.00000	0.00000	0.00000	0.54517	1,2,6
		394	66.69667	106.38730	0.00000	0.00000	0.00000	0.50803	1,2,6
		395	66.95219	106.79044	0.00000	0.00000	0.00000	0.47368	1,2,6
		396	67.20771	107.19357	0.00000	0.00000	0.00000	0.44187	1,2,6
		397	67.46323	107.59671	0.00000	0.00000	0.00000	0.41237	1,2,6
		398	67.71875	107.99984	0.00000	0.00000	0.00000	0.38497	1,2,6
		399	67.97428	108.40297	0.00000	0.00000	0.00000	0.35951	1,2,6
		400	68.22980	108.80611	0.00000	0.00000	0.00000	0.33581	1,2,6
		401	68.48532	109.20924	0.00000	0.00000	0.00000	0.31372	1,2,6
		402	68.74084	109.61238	0.00000	0.00000	0.00000	0.29312	1,2,6
		403	68.99636	110.01551	0.00000	0.00000	0.00000	0.27389	1,2,6
		404	69.25188	110.41865	0.00000	0.00000	0.00000	0.25591	1,2,6
		405	69.50741	110.82178	0.00000	0.00000	0.00000	0.23908	1,2,6
		406	69.76293	111.22492	0.00000	0.00000	0.00000	0.22332	1,2,6
		407	70.01845	111.62805	0.00000	0.00000	0.00000	0.20855	1,2,6
		408	70.27397	112.03118	0.00000	0.00000	0.00000	0.19469	1,2,6
		409	70.52949	112.43432	0.00000	0.00000	0.00000	0.18167	1,2,6
		410	70.78502	112.83745	0.00000	0.00000	0.00000	0.16943	1,2,6
		411	71.04054	113.24059	0.00000	0.00000	0.00000	0.15792	1,2,6
		412	71.29606	113.64372	0.00000	0.00000	0.00000	0.14709	1,2,6
		413	71.55158	114.04686	0.00000	0.00000	0.00000	0.13688	1,2,6
		414	71.80710	114.44999	0.00000	0.00000	0.00000	0.12726	1,2,6
		415	72.06262	114.85313	0.00000	0.00000	0.00000	0.11819	1,2,6
		416	72.31815	115.25626	0.00000	0.00000	0.00000	0.10962	1,2,6
		417	72.57367	115.65939	0.00000	0.00000	0.00000	0.10153	1,2,6
		418	72.82919	116.06253	0.00000	0.00000	0.00000	0.09389	1,2,6
		419	73.08471	116.46566	0.00000	0.00000	0.00000	0.08666	1,2,6
		420	73.34023	116.86880	0.00000	0.00000	0.00000	0.07982	1,2,6
		421	73.59576	117.27193	0.00000	0.00000	0.00000	0.07335	1,2,6
		422	73.85128	117.67507	0.00000	0.00000	0.00000	0.06722	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		423	74.10680	118.07820	0.00000	0.00000	0.00000	0.06142	1,2,6
		424	73.71622	118.27067	0.00000	0.00000	0.00000	0.06231	1,2,6
		425	73.32565	118.46315	0.00000	0.00000	0.00000	0.06319	1,2,6
		426	72.93507	118.65563	0.00000	0.00000	0.00000	0.06404	1,2,6
		427	72.54450	118.84810	0.00000	0.00000	0.00000	0.06488	1,2,6
		428	72.15393	119.04058	0.00000	0.00000	0.00000	0.06569	1,2,6
		429	71.76335	119.23305	0.00000	0.00000	0.00000	0.06647	1,2,6
		430	71.37278	119.42552	0.00000	0.00000	0.00000	0.06721	1,2,6
		431	70.98220	119.61800	0.00000	0.00000	0.00000	0.06791	1,2,6
		432	70.83282	119.26970	0.00000	0.00000	0.00000	0.07286	1,2,6
		433	70.68345	118.92140	0.00000	0.00000	0.00000	0.07804	1,2,6
		434	70.53408	118.57310	0.00000	0.00000	0.00000	0.08345	1,2,6
		435	70.38470	118.22480	0.00000	0.00000	0.00000	0.08911	1,2,6
		436	69.95028	118.45410	0.00000	0.00000	0.00000	0.08990	1,2,6
		437	69.51585	118.68340	0.00000	0.00000	0.00000	0.09061	1,2,6
		438	69.08143	118.91271	0.00000	0.00000	0.00000	0.09123	1,2,6
		439	68.64701	119.14201	0.00000	0.00000	0.00000	0.09176	1,2,6
		440	68.21258	119.37131	0.00000	0.00000	0.00000	0.09219	1,2,6
		441	67.77816	119.60061	0.00000	0.00000	0.00000	0.09253	1,2,6
		442	67.34374	119.82991	0.00000	0.00000	0.00000	0.09275	1,2,6
		443	66.90931	120.05921	0.00000	0.00000	0.00000	0.09287	1,2,6
		444	66.47489	120.28852	0.00000	0.00000	0.00000	0.09287	1,2,6
		445	66.04047	120.51782	0.00000	0.00000	0.00000	0.09276	1,2,6
		446	65.60604	120.74712	0.00000	0.00000	0.00000	0.09253	1,2,6
		447	65.17162	120.97642	0.00000	0.00000	0.00000	0.09218	1,2,6
		448	64.73720	121.20572	0.00000	0.00000	0.00000	0.09172	1,2,6
		449	64.30277	121.43502	0.00000	0.00000	0.00000	0.09113	1,2,6
		450	63.86835	121.66433	0.00000	0.00000	0.00000	0.09043	1,2,6
		451	63.43393	121.89363	0.00000	0.00000	0.00000	0.08962	1,2,6
		452	62.99950	122.12293	0.00000	0.00000	0.00000	0.08869	1,2,6
		453	62.56508	122.35223	0.00000	0.00000	0.00000	0.08765	1,2,6
		454	62.13066	122.58153	0.00000	0.00000	0.00000	0.08651	1,2,6
		455	61.69623	122.81083	0.00000	0.00000	0.00000	0.08526	1,2,6
		456	61.26181	123.04014	0.00000	0.00000	0.00000	0.08392	1,2,6
		457	60.82739	123.26944	0.00000	0.00000	0.00000	0.08248	1,2,6
		458	60.39296	123.49874	0.00000	0.00000	0.00000	0.08095	1,2,6
		459	59.95854	123.72804	0.00000	0.00000	0.00000	0.07933	1,2,6
		460	59.52412	123.95734	0.00000	0.00000	0.00000	0.07764	1,2,6
		461	59.08969	124.18664	0.00000	0.00000	0.00000	0.07588	1,2,6
		462	58.65527	124.41594	0.00000	0.00000	0.00000	0.07405	1,2,6
		463	58.22085	124.64525	0.00000	0.00000	0.00000	0.07217	1,2,6
		464	57.78642	124.87455	0.00000	0.00000	0.00000	0.07023	1,2,6
		465	57.35200	125.10385	0.00000	0.00000	0.00000	0.06824	1,2,6
		466	56.91758	125.33315	0.00000	0.00000	0.00000	0.06621	1,2,6
		467	56.48315	125.56245	0.00000	0.00000	0.00000	0.06414	1,2,6
		468	56.04873	125.79175	0.00000	0.00000	0.00000	0.06205	1,2,6
		469	55.61431	126.02106	0.00000	0.00000	0.00000	0.05993	1,2,6
		470	55.17988	126.25036	0.00000	0.00000	0.00000	0.05779	1,2,6
		471	54.74546	126.47966	0.00000	0.00000	0.00000	0.05564	1,2,6
		472	54.31104	126.70896	0.00000	0.00000	0.00000	0.05348	1,2,6
		473	53.87661	126.93826	0.00000	0.00000	0.00000	0.05133	1,2,6
		474	53.44219	127.16756	0.00000	0.00000	0.00000	0.04917	1,2,6
		475	53.00777	127.39687	0.00000	0.00000	0.00000	0.04702	1,2,6
		476	52.57334	127.62617	0.00000	0.00000	0.00000	0.04487	1,2,6
		477	52.13892	127.85547	0.00000	0.00000	0.00000	0.04275	1,2,6
		478	51.70450	128.08477	0.00000	0.00000	0.00000	0.04064	1,2,6
		479	51.27007	128.31407	0.00000	0.00000	0.00000	0.03855	1,2,6
		480	50.83565	128.54337	0.00000	0.00000	0.00000	0.03649	1,2,6
		481	50.40123	128.77268	0.00000	0.00000	0.00000	0.03445	1,2,6
		482	49.96680	129.00198	0.00000	0.00000	0.00000	0.03244	1,2,6
		483	49.53238	129.23128	0.00000	0.00000	0.00000	0.03046	1,2,6
		484	49.09796	129.46058	0.00000	0.00000	0.00000	0.02852	1,2,6
		485	48.66353	129.68988	0.00000	0.00000	0.00000	0.02661	1,2,6
		486	48.22911	129.91918	0.00000	0.00000	0.00000	0.02474	1,2,6
		487	47.79469	130.14849	0.00000	0.00000	0.00000	0.02291	1,2,6
		488	47.36026	130.37779	0.00000	0.00000	0.00000	0.02112	1,2,6
		489	46.92584	130.60709	0.00000	0.00000	0.00000	0.01937	1,2,6
		490	46.49142	130.83639	0.00000	0.00000	0.00000	0.01766	1,2,6
		491	46.05699	131.06569	0.00000	0.00000	0.00000	0.01599	1,2,6
		492	45.62257	131.29500	0.00000	0.00000	0.00000	0.01436	1,2,6
		493	45.18815	131.52430	0.00000	0.00000	0.00000	0.01278	1,2,6
		494	44.75372	131.75360	0.00000	0.00000	0.00000	0.01124	1,2,6
		495	44.31930	131.98290	0.00000	0.00000	0.00000	0.00974	1,2,6
		496	44.54866	132.42340	0.00000	0.00000	0.00000	0.00781	1,2,6
		497	44.77801	132.86390	0.00000	0.00000	0.00000	0.00596	1,2,6
		498	45.00737	133.30440	0.00000	0.00000	0.00000	0.00417	1,2,6
		499	45.23672	133.74490	0.00000	0.00000	0.00000	0.00244	1,2,6
		500	45.46608	134.18540	0.00000	0.00000	0.00000	0.00078	1,2,6
		501	45.69544	134.62590	0.00000	0.00000	0.00000	-0.00082	1,2,6
		502	45.92479	135.06640	0.00000	0.00000	0.00000	-0.00235	1,2,6
		503	46.15415	135.50690	0.00000	0.00000	0.00000	-0.00383	1,2,6
		504	46.38351	135.94740	0.00000	0.00000	0.00000	-0.00525	1,2,6
		505	46.61286	136.38790	0.00000	0.00000	0.00000	-0.00662	1,2,6
		506	46.84222	136.82840	0.00000	0.00000	0.00000	-0.00793	1,2,6
		507	47.07158	137.26890	0.00000	0.00000	0.00000	-0.00919	1,2,6
		508	47.30093	137.70940	0.00000	0.00000	0.00000	-0.01040	1,2,6
		509	47.53029	138.14990	0.00000	0.00000	0.00000	-0.01156	1,2,6
		510	47.75964	138.59040	0.00000	0.00000	0.00000	-0.01267	1,2,6
		511	47.98900	139.03090	0.00000	0.00000	0.00000	-0.01373	1,2,6
		512	48.21836	139.47140	0.00000	0.00000	0.00000	-0.01475	1,2,6
		513	48.44771	139.91190	0.00000	0.00000	0.00000	-0.01573	1,2,6
		514	48.67707	140.35240	0.00000	0.00000	0.00000	-0.01667	1,2,6
		515	48.90642	140.79290	0.00000	0.00000	0.00000	-0.01756	1,2,6
		516	49.13578	141.23340	0.00000	0.00000	0.00000	-0.01842	1,2,6
		517	49.36514	141.67390	0.00000	0.00000	0.00000	-0.01923	1,2,6
		518	49.59449	142.11440	0.00000	0.00000	0.00000	-0.02002	1,2,6
		519	49.82385	142.55490	0.00000	0.00000	0.00000	-0.02076	1,2,6
		520	50.05321	142.99540	0.00000	0.00000	0.00000	-0.02147	1,2,6
		521	50.28256	143.43590	0.00000	0.00000	0.00000	-0.02215	1,2,6
		522	50.51192	143.87640	0.00000	0.00000	0.00000	-0.02280	1,2,6
		523	50.74128	144.31690	0.00000	0.00000	0.00000	-0.02342	1,2,6
		524	50.97063	144.75740	0.00000	0.00000	0.00000	-0.02401	1,2,6
		525	51.19999	145.19790	0.00000	0.00000	0.00000	-0.02457	1,2,6
		526	51.42934	145.63840	0.00000	0.00000	0.00000	-0.02510	1,2,6
		527	51.65870	146.07890	0.00000	0.00000	0.00000	-0.02561	1,2,6
		528	52.05637	145.84480	0.00000	0.00000	0.00000	-0.02550	1,2,6
		529	52.45404	145.61070	0.00000	0.00000	0.00000	-0.02539	1,2,6
		530	52.85171	145.37660	0.00000	0.00000	0.00000	-0.02528	1,2,6
		531	53.24938	145.14250	0.00000	0.00000	0.00000	-0.02516	1,2,6
		532	53.64705	144.90840	0.00000	0.00000	0.00000	-0.02504	1,2,6
		533	54.04472	144.67430	0.00000	0.00000	0.00000	-0.02491	1,2,6
		534	54.44239	144.44020	0.00000	0.00000	0.00000	-0.02479	1,2,6
		535	54.84006	144.20610	0.00000	0.00000	0.00000	-0.02466	1,2,6
		536	55.23773	143.97200	0.00000	0.00000	0.00000	-0.02452	1,2,6
		537	55.63540	143.73790	0.00000	0.00000	0.00000	-0.02439	1,2,6
		538	56.03307	143.50380	0.00000	0.00000	0.00000	-0.02425	1,2,6
		539	56.43074	143.26970	0.00000	0.00000	0.00000	-0.02411	1,2,6
		540	56.82841	143.03560	0.00000	0.00000	0.00000	-0.02397	1,2,6
		541	57.22608	142.80150	0.00000	0.00000	0.00000	-0.02382	1,2,6
		542	57.62375	142.56740	0.00000	0.00000	0.00000	-0.02368	1,2,6
		543	58.02142	142.33330	0.00000	0.00000	0.00000	-0.02353	1,2,6
		544	58.41909	142.09920	0.00000	0.00000	0.00000	-0.02339	1,2,6
		545	58.81676	141.86510	0.00000	0.00000	0.00000	-0.02324	1,2,6
		546	59.21443	141.63100	0.00000	0.00000	0.00000	-0.02309	1,2,6
		547	59.61210	141.39690	0.00000	0.00000	0.00000	-0.02294	1,2,6
		548	60.04295	141.17306	0.00000	0.00000	0.00000	-0.02283	1,2,6
		549	60.47379	140.94923	0.00000	0.00000	0.00000	-0.02273	1,2,6
		550	60.90464	140.72539	0.00000	0.00000	0.00000	-0.02263	1,2,6
		551	61.33549	140.50155	0.00000	0.00000	0.00000	-0.02253	1,2,6
		552	61.76634	140.27772	0.00000	0.00000	0.00000	-0.02243	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		553	62.19718	140.05388	0.00000	0.00000	0.00000	-0.02234	1,2,6
		554	62.62803	139.83004	0.00000	0.00000	0.00000	-0.02225	1,2,6
		555	63.05888	139.60621	0.00000	0.00000	0.00000	-0.02217	1,2,6
		556	63.48973	139.38237	0.00000	0.00000	0.00000	-0.02209	1,2,6
		557	63.92057	139.15853	0.00000	0.00000	0.00000	-0.02202	1,2,6
		558	64.35142	138.93469	0.00000	0.00000	0.00000	-0.02196	1,2,6
		559	64.78227	138.71086	0.00000	0.00000	0.00000	-0.02190	1,2,6
		560	65.21312	138.48702	0.00000	0.00000	0.00000	-0.02185	1,2,6
		561	65.64396	138.26318	0.00000	0.00000	0.00000	-0.02180	1,2,6
		562	66.07481	138.03935	0.00000	0.00000	0.00000	-0.02176	1,2,6
		563	66.50566	137.81551	0.00000	0.00000	0.00000	-0.02173	1,2,6
		564	66.93651	137.59167	0.00000	0.00000	0.00000	-0.02171	1,2,6
		565	67.36735	137.36784	0.00000	0.00000	0.00000	-0.02169	1,2,6
		566	67.79820	137.14400	0.00000	0.00000	0.00000	-0.02168	1,2,6
		567	68.22905	136.92016	0.00000	0.00000	0.00000	-0.02168	1,2,6
		568	68.65989	136.69633	0.00000	0.00000	0.00000	-0.02169	1,2,6
		569	69.09074	136.47249	0.00000	0.00000	0.00000	-0.02170	1,2,6
		570	69.52159	136.24865	0.00000	0.00000	0.00000	-0.02172	1,2,6
		571	69.95244	136.02482	0.00000	0.00000	0.00000	-0.02175	1,2,6
		572	70.38328	135.80098	0.00000	0.00000	0.00000	-0.02179	1,2,6
		573	70.81413	135.57714	0.00000	0.00000	0.00000	-0.02184	1,2,6
		574	71.24498	135.35331	0.00000	0.00000	0.00000	-0.02190	1,2,6
		575	71.67583	135.12947	0.00000	0.00000	0.00000	-0.02196	1,2,6
		576	72.10667	134.90563	0.00000	0.00000	0.00000	-0.02203	1,2,6
		577	72.53752	134.68179	0.00000	0.00000	0.00000	-0.02211	1,2,6
		578	72.96837	134.45796	0.00000	0.00000	0.00000	-0.02219	1,2,6
		579	73.39922	134.23412	0.00000	0.00000	0.00000	-0.02228	1,2,6
		580	73.83006	134.01028	0.00000	0.00000	0.00000	-0.02238	1,2,6
		581	74.26091	133.78645	0.00000	0.00000	0.00000	-0.02249	1,2,6
		582	74.69176	133.56261	0.00000	0.00000	0.00000	-0.02260	1,2,6
		583	75.12261	133.33877	0.00000	0.00000	0.00000	-0.02271	1,2,6
		584	75.55345	133.11494	0.00000	0.00000	0.00000	-0.02283	1,2,6
		585	75.98430	132.89110	0.00000	0.00000	0.00000	-0.02296	1,2,6
		586	76.21542	132.72207	0.00000	0.00000	0.00000	-0.02291	1,2,6
		587	76.44655	132.55305	0.00000	0.00000	0.00000	-0.02287	1,2,6
		588	76.67767	132.38403	0.00000	0.00000	0.00000	-0.02282	1,2,6
		589	76.90880	132.21500	0.00000	0.00000	0.00000	-0.02278	1,2,6
		590	76.76538	131.93155	0.00000	0.00000	0.00000	-0.02188	1,2,6
		591	76.62195	131.64810	0.00000	0.00000	0.00000	-0.02095	1,2,6
		592	76.47853	131.36465	0.00000	0.00000	0.00000	-0.01998	1,2,6
		593	76.33510	131.08120	0.00000	0.00000	0.00000	-0.01898	1,2,6
		594	76.75755	130.83449	0.00000	0.00000	0.00000	-0.01904	1,2,6
		595	77.18000	130.58778	0.00000	0.00000	0.00000	-0.01910	1,2,6
		596	77.60245	130.34107	0.00000	0.00000	0.00000	-0.01917	1,2,6
		597	78.02490	130.09436	0.00000	0.00000	0.00000	-0.01923	1,2,6
		598	78.44735	129.84765	0.00000	0.00000	0.00000	-0.01930	1,2,6
		599	78.86980	129.60094	0.00000	0.00000	0.00000	-0.01936	1,2,6
		600	79.29225	129.35423	0.00000	0.00000	0.00000	-0.01943	1,2,6
		601	79.71470	129.10752	0.00000	0.00000	0.00000	-0.01949	1,2,6
		602	80.13715	128.86081	0.00000	0.00000	0.00000	-0.01955	1,2,6
		603	50.98220	128.46600	0.00000	0.00000	0.00000	0.03718	1,2,6
		604	50.76237	128.03676	0.00000	0.00000	0.00000	0.04090	1,2,6
		605	50.54254	127.60752	0.00000	0.00000	0.00000	0.04479	1,2,6
		606	50.32271	127.17828	0.00000	0.00000	0.00000	0.04887	1,2,6
		607	50.10287	126.74904	0.00000	0.00000	0.00000	0.05312	1,2,6
		608	49.88304	126.31980	0.00000	0.00000	0.00000	0.05757	1,2,6
		609	49.66321	125.89056	0.00000	0.00000	0.00000	0.06223	1,2,6
		610	49.44338	125.46132	0.00000	0.00000	0.00000	0.06709	1,2,6
		611	49.22355	125.03208	0.00000	0.00000	0.00000	0.07217	1,2,6
		612	49.00372	124.60283	0.00000	0.00000	0.00000	0.07747	1,2,6
		613	48.78389	124.17359	0.00000	0.00000	0.00000	0.08301	1,2,6
		614	48.56406	123.74435	0.00000	0.00000	0.00000	0.08879	1,2,6
		615	48.34423	123.31511	0.00000	0.00000	0.00000	0.09482	1,2,6
		616	48.12439	122.88587	0.00000	0.00000	0.00000	0.10112	1,2,6
		617	47.90456	122.45663	0.00000	0.00000	0.00000	0.10767	1,2,6
		618	47.68473	122.02739	0.00000	0.00000	0.00000	0.11451	1,2,6
		619	47.46490	121.59815	0.00000	0.00000	0.00000	0.12162	1,2,6
		620	47.24507	121.16891	0.00000	0.00000	0.00000	0.12903	1,2,6
		621	47.02524	120.73967	0.00000	0.00000	0.00000	0.13674	1,2,6
		622	46.80541	120.31043	0.00000	0.00000	0.00000	0.14475	1,2,6
		623	46.58557	119.88119	0.00000	0.00000	0.00000	0.15307	1,2,6
		624	46.36574	119.45195	0.00000	0.00000	0.00000	0.16171	1,2,6
		625	46.14591	119.02271	0.00000	0.00000	0.00000	0.17066	1,2,6
		626	45.92608	118.59347	0.00000	0.00000	0.00000	0.17994	1,2,6
		627	45.70625	118.16423	0.00000	0.00000	0.00000	0.18954	1,2,6
		628	45.48642	117.73498	0.00000	0.00000	0.00000	0.19947	1,2,6
		629	45.26659	117.30574	0.00000	0.00000	0.00000	0.20971	1,2,6
		630	45.04676	116.87650	0.00000	0.00000	0.00000	0.22028	1,2,6
		631	44.82693	116.44726	0.00000	0.00000	0.00000	0.23116	1,2,6
		632	44.60709	116.01802	0.00000	0.00000	0.00000	0.24234	1,2,6
		633	44.38726	115.58878	0.00000	0.00000	0.00000	0.25381	1,2,6
		634	44.16743	115.15954	0.00000	0.00000	0.00000	0.26556	1,2,6
		635	43.94760	114.73030	0.00000	0.00000	0.00000	0.27758	1,2,6
		636	43.53589	114.95231	0.00000	0.00000	0.00000	0.26231	1,2,6
		637	43.12418	115.17432	0.00000	0.00000	0.00000	0.24786	1,2,6
		638	42.71246	115.39634	0.00000	0.00000	0.00000	0.23417	1,2,6
		639	42.30075	115.61835	0.00000	0.00000	0.00000	0.22119	1,2,6
		640	41.88904	115.84036	0.00000	0.00000	0.00000	0.20890	1,2,6
		641	41.47733	116.06238	0.00000	0.00000	0.00000	0.19724	1,2,6
		642	41.06561	116.28439	0.00000	0.00000	0.00000	0.18618	1,2,6
		643	40.65390	116.50640	0.00000	0.00000	0.00000	0.17569	1,2,6
		644	40.24219	116.72841	0.00000	0.00000	0.00000	0.16573	1,2,6
		645	39.83047	116.95042	0.00000	0.00000	0.00000	0.15627	1,2,6
		646	39.41876	117.17244	0.00000	0.00000	0.00000	0.14730	1,2,6
		647	39.00705	117.39445	0.00000	0.00000	0.00000	0.13877	1,2,6
		648	38.59534	117.61646	0.00000	0.00000	0.00000	0.13067	1,2,6
		649	38.18362	117.83848	0.00000	0.00000	0.00000	0.12298	1,2,6
		650	37.77191	118.06049	0.00000	0.00000	0.00000	0.11566	1,2,6
		651	37.36020	118.28250	0.00000	0.00000	0.00000	0.10871	1,2,6
		652	37.57767	118.71064	0.00000	0.00000	0.00000	0.10462	1,2,6
		653	37.79514	119.13877	0.00000	0.00000	0.00000	0.10057	1,2,6
		654	38.01262	119.56691	0.00000	0.00000	0.00000	0.09655	1,2,6
		655	38.23009	119.99505	0.00000	0.00000	0.00000	0.09257	1,2,6
		656	38.44756	120.42319	0.00000	0.00000	0.00000	0.08865	1,2,6
		657	38.66503	120.85133	0.00000	0.00000	0.00000	0.08478	1,2,6
		658	38.88250	121.27946	0.00000	0.00000	0.00000	0.08097	1,2,6
		659	39.09998	121.70760	0.00000	0.00000	0.00000	0.07722	1,2,6
		660	39.31745	122.13574	0.00000	0.00000	0.00000	0.07353	1,2,6
		661	39.53492	122.56387	0.00000	0.00000	0.00000	0.06991	1,2,6
		662	39.75239	122.99201	0.00000	0.00000	0.00000	0.06636	1,2,6
		663	39.96986	123.42015	0.00000	0.00000	0.00000	0.06289	1,2,6
		664	40.18733	123.84829	0.00000	0.00000	0.00000	0.05949	1,2,6
		665	40.40481	124.27643	0.00000	0.00000	0.00000	0.05617	1,2,6
		666	40.62228	124.70456	0.00000	0.00000	0.00000	0.05292	1,2,6
		667	40.83975	125.13270	0.00000	0.00000	0.00000	0.04975	1,2,6
		668	41.05722	125.56084	0.00000	0.00000	0.00000	0.04667	1,2,6
		669	41.27469	125.98897	0.00000	0.00000	0.00000	0.04366	1,2,6
		670	41.49217	126.41711	0.00000	0.00000	0.00000	0.04073	1,2,6
		671	41.70964	126.84525	0.00000	0.00000	0.00000	0.03788	1,2,6
		672	41.92711	127.27339	0.00000	0.00000	0.00000	0.03512	1,2,6
		673	42.14458	127.70153	0.00000	0.00000	0.00000	0.03243	1,2,6
		674	42.36205	128.12966	0.00000	0.00000	0.00000	0.02982	1,2,6
		675	42.57952	128.55780	0.00000	0.00000	0.00000	0.02729	1,2,6
		676	42.79700	128.98594	0.00000	0.00000	0.00000	0.02484	1,2,6
		677	43.01447	129.41407	0.00000	0.00000	0.00000	0.02246	1,2,6
		678	43.23194	129.84221	0.00000	0.00000	0.00000	0.02016	1,2,6
		679	43.44941	130.27035	0.00000	0.00000	0.00000	0.01793	1,2,6
		680	43.66688	130.69849	0.00000	0.00000	0.00000	0.01578	1,2,6
		681	43.88436	131.12662	0.00000	0.00000	0.00000	0.01369	1,2,6
		682	44.10183	131.55476	0.00000	0.00000	0.00000	0.01168	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		683	43.98880	114.70780	0.00000	0.00000	0.00000	0.27916	1,2,6
		684	44.42074	114.47714	0.00000	0.00000	0.00000	0.29611	1,2,6
		685	44.85268	114.24649	0.00000	0.00000	0.00000	0.31407	1,2,6
		686	45.28462	114.01583	0.00000	0.00000	0.00000	0.33311	1,2,6
		687	45.71656	113.78517	0.00000	0.00000	0.00000	0.35329	1,2,6
		688	46.14850	113.55451	0.00000	0.00000	0.00000	0.37471	1,2,6
		689	46.58044	113.32386	0.00000	0.00000	0.00000	0.39743	1,2,6
		690	47.01237	113.09320	0.00000	0.00000	0.00000	0.42157	1,2,6
		691	47.44431	112.86254	0.00000	0.00000	0.00000	0.44720	1,2,6
		692	47.87625	112.63189	0.00000	0.00000	0.00000	0.47442	1,2,6
		693	48.30819	112.40123	0.00000	0.00000	0.00000	0.50336	1,2,6
		694	48.74013	112.17057	0.00000	0.00000	0.00000	0.53410	1,2,6
		695	49.17207	111.93991	0.00000	0.00000	0.00000	0.56677	1,2,6
		696	49.60401	111.70926	0.00000	0.00000	0.00000	0.60146	1,2,6
		697	50.03595	111.47860	0.00000	0.00000	0.00000	0.63827	1,2,6
		698	50.46789	111.24794	0.00000	0.00000	0.00000	0.67729	1,2,6
		699	50.89983	111.01729	0.00000	0.00000	0.00000	0.71857	1,2,6
		700	51.33177	110.78663	0.00000	0.00000	0.00000	0.76213	1,2,6
		701	51.76371	110.55597	0.00000	0.00000	0.00000	0.80792	1,2,6
		702	52.19565	110.32531	0.00000	0.00000	0.00000	0.85581	1,2,6
		703	52.62759	110.09466	0.00000	0.00000	0.00000	0.90558	1,2,6
		704	53.05953	109.86400	0.00000	0.00000	0.00000	0.95684	1,2,6
		705	53.49146	109.63334	0.00000	0.00000	0.00000	1.00907	1,2,6
		706	53.92340	109.40269	0.00000	0.00000	0.00000	1.06154	1,2,6
		707	54.35534	109.17203	0.00000	0.00000	0.00000	1.11337	1,2,6
		708	54.78728	108.94137	0.00000	0.00000	0.00000	1.16354	1,2,6
		709	55.21922	108.71071	0.00000	0.00000	0.00000	1.21094	1,2,6
		710	55.65116	108.48006	0.00000	0.00000	0.00000	1.25445	1,2,6
		711	56.08310	108.24940	0.00000	0.00000	0.00000	1.29303	1,2,6
		712	55.84919	107.82393	0.00000	0.00000	0.00000	1.45471	1,2,6
		713	55.61528	107.39846	0.00000	0.00000	0.00000	1.64823	1,2,6
		714	55.38138	106.97298	0.00000	0.00000	0.00000	1.88314	1,2,6
		715	55.14747	106.54751	0.00000	0.00000	0.00000	2.17273	1,2,6
		716	54.91356	106.12204	0.00000	0.00000	0.00000	2.53549	1,2,6
		717	54.67965	105.69657	0.00000	0.00000	0.00000	2.99644	1,2,6
		718	54.44574	105.27110	0.00000	0.00000	0.00000	3.58682	1,2,6
		719	54.21184	104.84562	0.00000	0.00000	0.00000	4.34111	1,2,6
		720	53.97793	104.42015	0.00000	0.00000	0.00000	5.34025	1,2,6
		721	53.74402	103.99468	0.00000	0.00000	0.00000	6.51514	1,2,6
		722	53.51011	103.56921	0.00000	0.00000	0.00000	7.32502	1,2,6
		723	53.27620	103.14374	0.00000	0.00000	0.00000	7.96203	1,2,6
		724	53.04230	102.71826	0.00000	0.00000	0.00000	8.46157	1,2,6
		725	52.80839	102.29279	0.00000	0.00000	0.00000	8.85608	1,2,6
		726	52.57448	101.86732	0.00000	0.00000	0.00000	9.17243	1,2,6
		727	52.34057	101.44185	0.00000	0.00000	0.00000	9.43076	1,2,6
		728	52.10666	101.01638	0.00000	0.00000	0.00000	9.64557	1,2,6
		729	51.87276	100.59090	0.00000	0.00000	0.00000	9.82715	1,2,6
		730	51.63885	100.16543	0.00000	0.00000	0.00000	9.98285	1,2,6
		731	51.40494	99.73996	0.00000	0.00000	0.00000	10.11796	1,2,6
		732	51.17103	99.31449	0.00000	0.00000	0.00000	10.23631	1,2,6
		733	50.93712	98.88902	0.00000	0.00000	0.00000	10.34071	1,2,6
		734	50.70322	98.46354	0.00000	0.00000	0.00000	10.43319	1,2,6
		735	50.46931	98.03807	0.00000	0.00000	0.00000	10.51524	1,2,6
		736	50.23540	97.61260	0.00000	0.00000	0.00000	10.58794	1,2,6
		737	50.00149	97.18713	0.00000	0.00000	0.00000	10.65209	1,2,6
		738	49.76758	96.76166	0.00000	0.00000	0.00000	10.70826	1,2,6
		739	49.53368	96.33618	0.00000	0.00000	0.00000	10.75688	1,2,6
		740	49.29977	95.91071	0.00000	0.00000	0.00000	10.79824	1,2,6
		741	49.06586	95.48524	0.00000	0.00000	0.00000	10.83255	1,2,6
		742	48.83195	95.05977	0.00000	0.00000	0.00000	10.85995	1,2,6
		743	48.59804	94.63430	0.00000	0.00000	0.00000	10.88048	1,2,6
		744	48.36414	94.20882	0.00000	0.00000	0.00000	10.89414	1,2,6
		745	48.13023	93.78335	0.00000	0.00000	0.00000	10.90082	1,2,6
		746	47.89632	93.35788	0.00000	0.00000	0.00000	10.90033	1,2,6
		747	47.66241	92.93241	0.00000	0.00000	0.00000	10.89237	1,2,6
		748	47.42850	92.50694	0.00000	0.00000	0.00000	10.87650	1,2,6
		749	47.19460	92.08146	0.00000	0.00000	0.00000	10.85212	1,2,6
		750	46.96069	91.65599	0.00000	0.00000	0.00000	10.81841	1,2,6
		751	46.72678	91.23052	0.00000	0.00000	0.00000	10.77430	1,2,6
		752	46.49287	90.80505	0.00000	0.00000	0.00000	10.71833	1,2,6
		753	46.25896	90.37958	0.00000	0.00000	0.00000	10.64855	1,2,6
		754	46.02506	89.95410	0.00000	0.00000	0.00000	10.56232	1,2,6
		755	45.79115	89.52863	0.00000	0.00000	0.00000	10.45600	1,2,6
		756	45.55724	89.10316	0.00000	0.00000	0.00000	10.32446	1,2,6
		757	45.32333	88.67769	0.00000	0.00000	0.00000	10.16041	1,2,6
		758	45.08942	88.25222	0.00000	0.00000	0.00000	9.95318	1,2,6
		759	44.85552	87.82674	0.00000	0.00000	0.00000	9.68720	1,2,6
		760	44.62161	87.40127	0.00000	0.00000	0.00000	9.34005	1,2,6
		761	44.38770	86.97580	0.00000	0.00000	0.00000	8.88125	1,2,6
		762	43.96821	87.22111	0.00000	0.00000	0.00000	8.14674	1,2,6
		763	43.54871	87.46643	0.00000	0.00000	0.00000	7.26425	1,2,6
		764	43.12922	87.71174	0.00000	0.00000	0.00000	6.02692	1,2,6
		765	42.70973	87.95705	0.00000	0.00000	0.00000	5.01075	1,2,6
		766	42.29023	88.20237	0.00000	0.00000	0.00000	4.23042	1,2,6
		767	41.87074	88.44768	0.00000	0.00000	0.00000	3.61282	1,2,6
		768	41.45125	88.69300	0.00000	0.00000	0.00000	3.12315	1,2,6
		769	41.03175	88.93831	0.00000	0.00000	0.00000	2.73086	1,2,6
		770	40.61226	89.18362	0.00000	0.00000	0.00000	2.41172	1,2,6
		771	40.19277	89.42894	0.00000	0.00000	0.00000	2.14783	1,2,6
		772	39.77327	89.67425	0.00000	0.00000	0.00000	1.92632	1,2,6
		773	39.35378	89.91956	0.00000	0.00000	0.00000	1.73787	1,2,6
		774	38.93429	90.16488	0.00000	0.00000	0.00000	1.57569	1,2,6
		775	38.51480	90.41019	0.00000	0.00000	0.00000	1.43472	1,2,6
		776	38.09530	90.65550	0.00000	0.00000	0.00000	1.31113	1,2,6
		777	37.67581	90.90082	0.00000	0.00000	0.00000	1.20195	1,2,6
		778	37.25632	91.14613	0.00000	0.00000	0.00000	1.10489	1,2,6
		779	36.83682	91.39145	0.00000	0.00000	0.00000	1.01811	1,2,6
		780	36.41733	91.63676	0.00000	0.00000	0.00000	0.94013	1,2,6
		781	35.99784	91.88207	0.00000	0.00000	0.00000	0.86974	1,2,6
		782	35.57834	92.12739	0.00000	0.00000	0.00000	0.80596	1,2,6
		783	35.15885	92.37270	0.00000	0.00000	0.00000	0.74795	1,2,6
		784	34.73936	92.61801	0.00000	0.00000	0.00000	0.69503	1,2,6
		785	34.31986	92.86333	0.00000	0.00000	0.00000	0.64661	1,2,6
		786	33.90037	93.10864	0.00000	0.00000	0.00000	0.60220	1,2,6
		787	33.48088	93.35395	0.00000	0.00000	0.00000	0.56136	1,2,6
		788	33.06138	93.59927	0.00000	0.00000	0.00000	0.52372	1,2,6
		789	32.64189	93.84458	0.00000	0.00000	0.00000	0.48897	1,2,6
		790	32.22240	94.08990	0.00000	0.00000	0.00000	0.45682	1,2,6
		791	31.80290	94.33521	0.00000	0.00000	0.00000	0.42703	1,2,6
		792	31.38341	94.58052	0.00000	0.00000	0.00000	0.39939	1,2,6
		793	30.96392	94.82584	0.00000	0.00000	0.00000	0.37369	1,2,6
		794	30.54443	95.07115	0.00000	0.00000	0.00000	0.34978	1,2,6
		795	30.12493	95.31646	0.00000	0.00000	0.00000	0.32750	1,2,6
		796	29.70544	95.56178	0.00000	0.00000	0.00000	0.30672	1,2,6
		797	29.28595	95.80709	0.00000	0.00000	0.00000	0.28731	1,2,6
		798	28.86645	96.05240	0.00000	0.00000	0.00000	0.26917	1,2,6
		799	28.44696	96.29772	0.00000	0.00000	0.00000	0.25220	1,2,6
		800	28.02747	96.54303	0.00000	0.00000	0.00000	0.23630	1,2,6
		801	27.60797	96.78835	0.00000	0.00000	0.00000	0.22141	1,2,6
		802	27.18848	97.03366	0.00000	0.00000	0.00000	0.20743	1,2,6
		803	26.76899	97.27897	0.00000	0.00000	0.00000	0.19432	1,2,6
		804	26.34949	97.52429	0.00000	0.00000	0.00000	0.18200	1,2,6
		805	25.93000	97.76960	0.00000	0.00000	0.00000	0.17042	1,2,6
		806	26.16813	98.19696	0.00000	0.00000	0.00000	0.17307	1,2,6
		807	26.40627	98.62432	0.00000	0.00000	0.00000	0.17557	1,2,6
		808	26.64440	99.05168	0.00000	0.00000	0.00000	0.17792	1,2,6
		809	26.88253	99.47903	0.00000	0.00000	0.00000	0.18012	1,2,6
		810	27.12067	99.90639	0.00000	0.00000	0.00000	0.18216	1,2,6
		811	27.35880	100.33375	0.00000	0.00000	0.00000	0.18404	1,2,6
		812	27.59693	100.76111	0.00000	0.00000	0.00000	0.18574	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		813	27.83507	101.18847	0.00000	0.00000	0.00000	0.18726	1,2,6
		814	28.07320	101.61583	0.00000	0.00000	0.00000	0.18861	1,2,6
		815	28.31133	102.04318	0.00000	0.00000	0.00000	0.18976	1,2,6
		816	28.54947	102.47054	0.00000	0.00000	0.00000	0.19072	1,2,6
		817	28.78760	102.89790	0.00000	0.00000	0.00000	0.19149	1,2,6
		818	29.02573	103.32526	0.00000	0.00000	0.00000	0.19207	1,2,6
		819	29.26387	103.75262	0.00000	0.00000	0.00000	0.19244	1,2,6
		820	29.50200	104.17997	0.00000	0.00000	0.00000	0.19262	1,2,6
		821	29.74013	104.60733	0.00000	0.00000	0.00000	0.19259	1,2,6
		822	29.97827	105.03469	0.00000	0.00000	0.00000	0.19237	1,2,6
		823	30.21640	105.46205	0.00000	0.00000	0.00000	0.19194	1,2,6
		824	30.45453	105.88941	0.00000	0.00000	0.00000	0.19132	1,2,6
		825	30.69267	106.31677	0.00000	0.00000	0.00000	0.19049	1,2,6
		826	30.93080	106.74412	0.00000	0.00000	0.00000	0.18947	1,2,6
		827	31.16893	107.17148	0.00000	0.00000	0.00000	0.18826	1,2,6
		828	31.40707	107.59884	0.00000	0.00000	0.00000	0.18686	1,2,6
		829	31.64520	108.02620	0.00000	0.00000	0.00000	0.18527	1,2,6
		830	31.88333	108.45356	0.00000	0.00000	0.00000	0.18350	1,2,6
		831	32.12147	108.88092	0.00000	0.00000	0.00000	0.18155	1,2,6
		832	32.35960	109.30827	0.00000	0.00000	0.00000	0.17943	1,2,6
		833	32.59773	109.73563	0.00000	0.00000	0.00000	0.17715	1,2,6
		834	32.83587	110.16299	0.00000	0.00000	0.00000	0.17471	1,2,6
		835	33.07400	110.59035	0.00000	0.00000	0.00000	0.17211	1,2,6
		836	33.31213	111.01771	0.00000	0.00000	0.00000	0.16938	1,2,6
		837	33.55027	111.44507	0.00000	0.00000	0.00000	0.16650	1,2,6
		838	33.78840	111.87243	0.00000	0.00000	0.00000	0.16349	1,2,6
		839	34.02653	112.29978	0.00000	0.00000	0.00000	0.16036	1,2,6
		840	34.26467	112.72714	0.00000	0.00000	0.00000	0.15712	1,2,6
		841	34.50280	113.15450	0.00000	0.00000	0.00000	0.15378	1,2,6
		842	34.74093	113.58186	0.00000	0.00000	0.00000	0.15033	1,2,6
		843	34.97907	114.00922	0.00000	0.00000	0.00000	0.14681	1,2,6
		844	35.21720	114.43658	0.00000	0.00000	0.00000	0.14320	1,2,6
		845	35.45533	114.86393	0.00000	0.00000	0.00000	0.13952	1,2,6
		846	35.69347	115.29129	0.00000	0.00000	0.00000	0.13579	1,2,6
		847	35.93160	115.71865	0.00000	0.00000	0.00000	0.13200	1,2,6
		848	36.16973	116.14601	0.00000	0.00000	0.00000	0.12818	1,2,6
		849	36.40787	116.57337	0.00000	0.00000	0.00000	0.12432	1,2,6
		850	36.64600	117.00073	0.00000	0.00000	0.00000	0.12043	1,2,6
		851	36.88413	117.42808	0.00000	0.00000	0.00000	0.11653	1,2,6
		852	37.12227	117.85544	0.00000	0.00000	0.00000	0.11262	1,2,6
		853	43.96845	86.86827	0.00000	0.00000	0.00000	8.06675	1,2,6
		854	43.54920	86.76075	0.00000	0.00000	0.00000	7.16895	1,2,6
		855	43.12995	86.65323	0.00000	0.00000	0.00000	6.20465	1,2,6
		856	42.71070	86.54570	0.00000	0.00000	0.00000	5.06462	1,2,6
		857	42.29145	86.43818	0.00000	0.00000	0.00000	4.25562	1,2,6
		858	41.87220	86.33065	0.00000	0.00000	0.00000	3.63927	1,2,6
		859	41.45295	86.22312	0.00000	0.00000	0.00000	3.14801	1,2,6
		860	41.03370	86.11560	0.00000	0.00000	0.00000	2.75143	1,2,6
		861	40.61901	86.35816	0.00000	0.00000	0.00000	2.46540	1,2,6
		862	40.20431	86.60072	0.00000	0.00000	0.00000	2.21718	1,2,6
		863	39.78962	86.84328	0.00000	0.00000	0.00000	2.00217	1,2,6
		864	39.37493	87.08584	0.00000	0.00000	0.00000	1.81545	1,2,6
		865	38.96024	87.32840	0.00000	0.00000	0.00000	1.65256	1,2,6
		866	38.54554	87.57096	0.00000	0.00000	0.00000	1.50963	1,2,6
		867	38.13085	87.81352	0.00000	0.00000	0.00000	1.38350	1,2,6
		868	37.71616	88.05609	0.00000	0.00000	0.00000	1.27154	1,2,6
		869	37.30146	88.29865	0.00000	0.00000	0.00000	1.17163	1,2,6
		870	36.88677	88.54121	0.00000	0.00000	0.00000	1.08204	1,2,6
		871	36.47208	88.78377	0.00000	0.00000	0.00000	1.00132	1,2,6
		872	36.05739	89.02633	0.00000	0.00000	0.00000	0.92831	1,2,6
		873	35.64269	89.26889	0.00000	0.00000	0.00000	0.86201	1,2,6
		874	35.22800	89.51145	0.00000	0.00000	0.00000	0.80161	1,2,6
		875	34.81331	89.75401	0.00000	0.00000	0.00000	0.74641	1,2,6
		876	34.39861	89.99657	0.00000	0.00000	0.00000	0.69582	1,2,6
		877	33.98392	90.23913	0.00000	0.00000	0.00000	0.64933	1,2,6
		878	33.56923	90.48169	0.00000	0.00000	0.00000	0.60651	1,2,6
		879	33.15454	90.72425	0.00000	0.00000	0.00000	0.56699	1,2,6
		880	32.73984	90.96681	0.00000	0.00000	0.00000	0.53044	1,2,6
		881	32.32515	91.20937	0.00000	0.00000	0.00000	0.49657	1,2,6
		882	31.91046	91.45194	0.00000	0.00000	0.00000	0.46514	1,2,6
		883	31.49576	91.69450	0.00000	0.00000	0.00000	0.43592	1,2,6
		884	31.08107	91.93706	0.00000	0.00000	0.00000	0.40872	1,2,6
		885	30.66638	92.17962	0.00000	0.00000	0.00000	0.38337	1,2,6
		886	30.25169	92.42218	0.00000	0.00000	0.00000	0.35971	1,2,6
		887	29.83699	92.66474	0.00000	0.00000	0.00000	0.33760	1,2,6
		888	29.42230	92.90730	0.00000	0.00000	0.00000	0.31693	1,2,6
		889	29.15173	92.50539	0.00000	0.00000	0.00000	0.30749	1,2,6
		890	28.88117	92.10349	0.00000	0.00000	0.00000	0.29804	1,2,6
		891	28.61060	91.70158	0.00000	0.00000	0.00000	0.28860	1,2,6
		892	28.34003	91.29968	0.00000	0.00000	0.00000	0.27918	1,2,6
		893	28.06947	90.89777	0.00000	0.00000	0.00000	0.26982	1,2,6
		894	27.79890	90.49587	0.00000	0.00000	0.00000	0.26053	1,2,6
		895	27.52833	90.09396	0.00000	0.00000	0.00000	0.25133	1,2,6
		896	27.25777	89.69206	0.00000	0.00000	0.00000	0.24224	1,2,6
		897	26.98720	89.29015	0.00000	0.00000	0.00000	0.23328	1,2,6
		898	26.71663	88.88824	0.00000	0.00000	0.00000	0.22445	1,2,6
		899	26.44607	88.48634	0.00000	0.00000	0.00000	0.21577	1,2,6
		900	26.17550	88.08443	0.00000	0.00000	0.00000	0.20726	1,2,6
		901	25.90493	87.68253	0.00000	0.00000	0.00000	0.19891	1,2,6
		902	25.63437	87.28062	0.00000	0.00000	0.00000	0.19074	1,2,6
		903	25.36380	86.87872	0.00000	0.00000	0.00000	0.18276	1,2,6
		904	25.09323	86.47681	0.00000	0.00000	0.00000	0.17498	1,2,6
		905	24.82267	86.07491	0.00000	0.00000	0.00000	0.16738	1,2,6
		906	24.55210	85.67300	0.00000	0.00000	0.00000	0.15999	1,2,6
		907	24.36080	85.78905	0.00000	0.00000	0.00000	0.15602	1,2,6
		908	24.16950	85.90510	0.00000	0.00000	0.00000	0.15213	1,2,6
		909	23.93042	85.56780	0.00000	0.00000	0.00000	0.14616	1,2,6
		910	23.69135	85.23050	0.00000	0.00000	0.00000	0.14035	1,2,6
		911	23.45228	84.89320	0.00000	0.00000	0.00000	0.13468	1,2,6
		912	23.21320	84.55590	0.00000	0.00000	0.00000	0.12917	1,2,6
		913	22.97413	84.21860	0.00000	0.00000	0.00000	0.12380	1,2,6
		914	22.73505	83.88130	0.00000	0.00000	0.00000	0.11858	1,2,6
		915	22.49598	83.54400	0.00000	0.00000	0.00000	0.11350	1,2,6
		916	22.25690	83.20670	0.00000	0.00000	0.00000	0.10857	1,2,6
		917	21.84234	83.47075	0.00000	0.00000	0.00000	0.10291	1,2,6
		918	21.42778	83.73480	0.00000	0.00000	0.00000	0.09746	1,2,6
		919	21.01322	83.99885	0.00000	0.00000	0.00000	0.09221	1,2,6
		920	20.59866	84.26290	0.00000	0.00000	0.00000	0.08715	1,2,6
		921	20.18410	84.52695	0.00000	0.00000	0.00000	0.08228	1,2,6
		922	19.76954	84.79100	0.00000	0.00000	0.00000	0.07760	1,2,6
		923	19.35498	85.05505	0.00000	0.00000	0.00000	0.07309	1,2,6
		924	18.94042	85.31910	0.00000	0.00000	0.00000	0.06877	1,2,6
		925	18.52586	85.58315	0.00000	0.00000	0.00000	0.06460	1,2,6
		926	18.11130	85.84720	0.00000	0.00000	0.00000	0.06061	1,2,6
		927	18.37194	86.24464	0.00000	0.00000	0.00000	0.06372	1,2,6
		928	18.63258	86.64209	0.00000	0.00000	0.00000	0.06690	1,2,6
		929	18.89322	87.03953	0.00000	0.00000	0.00000	0.07014	1,2,6
		930	19.15386	87.43697	0.00000	0.00000	0.00000	0.07346	1,2,6
		931	19.41450	87.83442	0.00000	0.00000	0.00000	0.07683	1,2,6
		932	19.67514	88.23186	0.00000	0.00000	0.00000	0.08028	1,2,6
		933	19.93578	88.62930	0.00000	0.00000	0.00000	0.08378	1,2,6
		934	20.19642	89.02675	0.00000	0.00000	0.00000	0.08734	1,2,6
		935	20.45706	89.42419	0.00000	0.00000	0.00000	0.09095	1,2,6
		936	20.71770	89.82163	0.00000	0.00000	0.00000	0.09461	1,2,6
		937	20.97834	90.21908	0.00000	0.00000	0.00000	0.09833	1,2,6
		938	21.23898	90.61652	0.00000	0.00000	0.00000	0.10208	1,2,6
		939	21.49962	91.01396	0.00000	0.00000	0.00000	0.10588	1,2,6
		940	21.76026	91.41141	0.00000	0.00000	0.00000	0.10971	1,2,6
		941	22.02090	91.80885	0.00000	0.00000	0.00000	0.11357	1,2,6
		942	22.28154	92.20629	0.00000	0.00000	0.00000	0.11745	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		943	22.54218	92.60374	0.00000	0.00000	0.00000	0.12135	1,2,6
		944	22.80282	93.00118	0.00000	0.00000	0.00000	0.12526	1,2,6
		945	23.06346	93.39862	0.00000	0.00000	0.00000	0.12917	1,2,6
		946	23.32410	93.79607	0.00000	0.00000	0.00000	0.13309	1,2,6
		947	23.58474	94.19351	0.00000	0.00000	0.00000	0.13699	1,2,6
		948	23.84538	94.59095	0.00000	0.00000	0.00000	0.14088	1,2,6
		949	24.10602	94.98840	0.00000	0.00000	0.00000	0.14475	1,2,6
		950	24.36666	95.38584	0.00000	0.00000	0.00000	0.14858	1,2,6
		951	24.62730	95.78328	0.00000	0.00000	0.00000	0.15237	1,2,6
		952	24.88794	96.18073	0.00000	0.00000	0.00000	0.15612	1,2,6
		953	25.14858	96.57817	0.00000	0.00000	0.00000	0.15980	1,2,6
		954	25.40922	96.97561	0.00000	0.00000	0.00000	0.16342	1,2,6
		955	25.66986	97.37306	0.00000	0.00000	0.00000	0.16697	1,2,6
		956	25.93050	97.77050	0.00000	0.00000	0.00000	0.17043	1,2,6
		957	60.26430	42.08760	0.00000	0.00000	0.00000	0.16295	1,2,6
		958	60.08619	41.66303	0.00000	0.00000	0.00000	0.15201	1,2,6
		959	59.90809	41.23846	0.00000	0.00000	0.00000	0.14171	1,2,6
		960	59.72998	40.81389	0.00000	0.00000	0.00000	0.13199	1,2,6
		961	59.55187	40.38931	0.00000	0.00000	0.00000	0.12282	1,2,6
		962	59.37376	39.96474	0.00000	0.00000	0.00000	0.11416	1,2,6
		963	59.19566	39.54017	0.00000	0.00000	0.00000	0.10598	1,2,6
		964	59.01755	39.11560	0.00000	0.00000	0.00000	0.09825	1,2,6
		965	58.83944	38.69103	0.00000	0.00000	0.00000	0.09094	1,2,6
		966	58.66134	38.26646	0.00000	0.00000	0.00000	0.08402	1,2,6
		967	58.48323	37.84189	0.00000	0.00000	0.00000	0.07747	1,2,6
		968	58.30512	37.41731	0.00000	0.00000	0.00000	0.07128	1,2,6
		969	58.12701	36.99274	0.00000	0.00000	0.00000	0.06541	1,2,6
		970	57.94891	36.56817	0.00000	0.00000	0.00000	0.05985	1,2,6
		971	57.77080	36.14360	0.00000	0.00000	0.00000	0.05457	1,2,6
		972	57.41346	36.28429	0.00000	0.00000	0.00000	0.05379	1,2,6
		973	57.05613	36.42498	0.00000	0.00000	0.00000	0.05298	1,2,6
		974	56.69879	36.56566	0.00000	0.00000	0.00000	0.05215	1,2,6
		975	56.34145	36.70635	0.00000	0.00000	0.00000	0.05130	1,2,6
		976	55.98411	36.84704	0.00000	0.00000	0.00000	0.05043	1,2,6
		977	55.62678	36.98772	0.00000	0.00000	0.00000	0.04955	1,2,6
		978	55.26944	37.12841	0.00000	0.00000	0.00000	0.04865	1,2,6
		979	54.91210	37.26910	0.00000	0.00000	0.00000	0.04774	1,2,6
		980	54.77050	36.95770	0.00000	0.00000	0.00000	0.04434	1,2,6
		981	54.62890	36.64630	0.00000	0.00000	0.00000	0.04107	1,2,6
		982	54.48730	36.33490	0.00000	0.00000	0.00000	0.03792	1,2,6
		983	54.34570	36.02350	0.00000	0.00000	0.00000	0.03489	1,2,6
		984	54.20410	35.71210	0.00000	0.00000	0.00000	0.03198	1,2,6
		985	54.06250	35.40070	0.00000	0.00000	0.00000	0.02917	1,2,6
		986	54.36875	35.26848	0.00000	0.00000	0.00000	0.02966	1,2,6
		987	54.67500	35.13627	0.00000	0.00000	0.00000	0.03014	1,2,6
		988	54.98125	35.00405	0.00000	0.00000	0.00000	0.03060	1,2,6
		989	55.28750	34.87183	0.00000	0.00000	0.00000	0.03106	1,2,6
		990	55.59375	34.73962	0.00000	0.00000	0.00000	0.03151	1,2,6
		991	55.90000	34.60740	0.00000	0.00000	0.00000	0.03194	1,2,6
		992	55.71496	34.17881	0.00000	0.00000	0.00000	0.02808	1,2,6
		993	55.52993	33.75021	0.00000	0.00000	0.00000	0.02442	1,2,6
		994	55.34489	33.32162	0.00000	0.00000	0.00000	0.02094	1,2,6
		995	55.15986	32.89303	0.00000	0.00000	0.00000	0.01764	1,2,6
		996	54.97482	32.46444	0.00000	0.00000	0.00000	0.01450	1,2,6
		997	54.78979	32.03584	0.00000	0.00000	0.00000	0.01153	1,2,6
		998	54.60475	31.60725	0.00000	0.00000	0.00000	0.00870	1,2,6
		999	54.41971	31.17866	0.00000	0.00000	0.00000	0.00602	1,2,6
		1000	54.23468	30.75006	0.00000	0.00000	0.00000	0.00347	1,2,6
		1001	54.04964	30.32147	0.00000	0.00000	0.00000	0.00105	1,2,6
		1002	53.86461	29.89288	0.00000	0.00000	0.00000	-0.00124	1,2,6
		1003	53.67957	29.46429	0.00000	0.00000	0.00000	-0.00343	1,2,6
		1004	53.49454	29.03569	0.00000	0.00000	0.00000	-0.00550	1,2,6
		1005	53.30950	28.60710	0.00000	0.00000	0.00000	-0.00746	1,2,6
		1006	52.88902	28.76706	0.00000	0.00000	0.00000	-0.00771	1,2,6
		1007	52.46854	28.92701	0.00000	0.00000	0.00000	-0.00797	1,2,6
		1008	52.04806	29.08697	0.00000	0.00000	0.00000	-0.00823	1,2,6
		1009	51.62758	29.24693	0.00000	0.00000	0.00000	-0.00850	1,2,6
		1010	51.20709	29.40688	0.00000	0.00000	0.00000	-0.00877	1,2,6
		1011	50.78661	29.56684	0.00000	0.00000	0.00000	-0.00905	1,2,6
		1012	50.36613	29.72679	0.00000	0.00000	0.00000	-0.00933	1,2,6
		1013	49.94565	29.88675	0.00000	0.00000	0.00000	-0.00962	1,2,6
		1014	49.52517	30.04671	0.00000	0.00000	0.00000	-0.00991	1,2,6
		1015	49.10469	30.20666	0.00000	0.00000	0.00000	-0.01021	1,2,6
		1016	48.68421	30.36662	0.00000	0.00000	0.00000	-0.01050	1,2,6
		1017	48.26373	30.52658	0.00000	0.00000	0.00000	-0.01080	1,2,6
		1018	47.84324	30.68653	0.00000	0.00000	0.00000	-0.01111	1,2,6
		1019	47.42276	30.84649	0.00000	0.00000	0.00000	-0.01141	1,2,6
		1020	47.00228	31.00644	0.00000	0.00000	0.00000	-0.01171	1,2,6
		1021	46.58180	31.16640	0.00000	0.00000	0.00000	-0.01202	1,2,6
		1022	46.77181	31.59864	0.00000	0.00000	0.00000	-0.01044	1,2,6
		1023	46.96181	32.03089	0.00000	0.00000	0.00000	-0.00877	1,2,6
		1024	47.15182	32.46313	0.00000	0.00000	0.00000	-0.00702	1,2,6
		1025	47.34183	32.89538	0.00000	0.00000	0.00000	-0.00518	1,2,6
		1026	47.53183	33.32762	0.00000	0.00000	0.00000	-0.00325	1,2,6
		1027	47.72184	33.75986	0.00000	0.00000	0.00000	-0.00122	1,2,6
		1028	47.91184	34.19211	0.00000	0.00000	0.00000	0.00092	1,2,6
		1029	48.10185	34.62435	0.00000	0.00000	0.00000	0.00316	1,2,6
		1030	48.29186	35.05659	0.00000	0.00000	0.00000	0.00552	1,2,6
		1031	48.48186	35.48884	0.00000	0.00000	0.00000	0.00800	1,2,6
		1032	48.67187	35.92108	0.00000	0.00000	0.00000	0.01060	1,2,6
		1033	48.86187	36.35332	0.00000	0.00000	0.00000	0.01333	1,2,6
		1034	49.05188	36.78557	0.00000	0.00000	0.00000	0.01620	1,2,6
		1035	49.24189	37.21781	0.00000	0.00000	0.00000	0.01922	1,2,6
		1036	49.43189	37.65006	0.00000	0.00000	0.00000	0.02238	1,2,6
		1037	49.62190	38.08230	0.00000	0.00000	0.00000	0.02570	1,2,6
		1038	49.81191	38.51454	0.00000	0.00000	0.00000	0.02919	1,2,6
		1039	50.00191	38.94679	0.00000	0.00000	0.00000	0.03285	1,2,6
		1040	50.19192	39.37903	0.00000	0.00000	0.00000	0.03670	1,2,6
		1041	50.38193	39.81128	0.00000	0.00000	0.00000	0.04074	1,2,6
		1042	50.57193	40.24352	0.00000	0.00000	0.00000	0.04498	1,2,6
		1043	50.76194	40.67576	0.00000	0.00000	0.00000	0.04943	1,2,6
		1044	50.95194	41.10801	0.00000	0.00000	0.00000	0.05410	1,2,6
		1045	51.14195	41.54025	0.00000	0.00000	0.00000	0.05901	1,2,6
		1046	51.33196	41.97249	0.00000	0.00000	0.00000	0.06416	1,2,6
		1047	51.52196	42.40474	0.00000	0.00000	0.00000	0.06957	1,2,6
		1048	51.71197	42.83698	0.00000	0.00000	0.00000	0.07526	1,2,6
		1049	51.90198	43.26922	0.00000	0.00000	0.00000	0.08123	1,2,6
		1050	52.09198	43.70147	0.00000	0.00000	0.00000	0.08749	1,2,6
		1051	52.28199	44.13371	0.00000	0.00000	0.00000	0.09408	1,2,6
		1052	52.47199	44.56596	0.00000	0.00000	0.00000	0.10099	1,2,6
		1053	52.66200	44.99820	0.00000	0.00000	0.00000	0.10825	1,2,6
		1054	53.08435	44.83650	0.00000	0.00000	0.00000	0.11124	1,2,6
		1055	53.50670	44.67480	0.00000	0.00000	0.00000	0.11426	1,2,6
		1056	53.92905	44.51310	0.00000	0.00000	0.00000	0.11731	1,2,6
		1057	54.35140	44.35140	0.00000	0.00000	0.00000	0.12039	1,2,6
		1058	54.77375	44.18970	0.00000	0.00000	0.00000	0.12349	1,2,6
		1059	55.19610	44.02800	0.00000	0.00000	0.00000	0.12661	1,2,6
		1060	55.61845	43.86630	0.00000	0.00000	0.00000	0.12975	1,2,6
		1061	56.04080	43.70460	0.00000	0.00000	0.00000	0.13288	1,2,6
		1062	56.46315	43.54290	0.00000	0.00000	0.00000	0.13602	1,2,6
		1063	56.88550	43.38120	0.00000	0.00000	0.00000	0.13915	1,2,6
		1064	57.30785	43.21950	0.00000	0.00000	0.00000	0.14226	1,2,6
		1065	57.73020	43.05780	0.00000	0.00000	0.00000	0.14535	1,2,6
		1066	58.15255	42.89610	0.00000	0.00000	0.00000	0.14841	1,2,6
		1067	58.57490	42.73440	0.00000	0.00000	0.00000	0.15143	1,2,6
		1068	58.99725	42.57270	0.00000	0.00000	0.00000	0.15440	1,2,6
		1069	59.41960	42.41100	0.00000	0.00000	0.00000	0.15732	1,2,6
		1070	59.84195	42.24930	0.00000	0.00000	0.00000	0.16017	1,2,6
		1071	56.30750	34.44578	0.00000	0.00000	0.00000	0.03261	1,2,6
		1072	56.71500	34.28416	0.00000	0.00000	0.00000	0.03325	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1073	57.12250	34.12254	0.00000	0.00000	0.00000	0.03388	1,2,6
		1074	57.53000	33.96092	0.00000	0.00000	0.00000	0.03448	1,2,6
		1075	57.93750	33.79930	0.00000	0.00000	0.00000	0.03507	1,2,6
		1076	58.34500	33.63768	0.00000	0.00000	0.00000	0.03562	1,2,6
		1077	58.75250	33.47606	0.00000	0.00000	0.00000	0.03616	1,2,6
		1078	59.16000	33.31444	0.00000	0.00000	0.00000	0.03666	1,2,6
		1079	59.56750	33.15282	0.00000	0.00000	0.00000	0.03714	1,2,6
		1080	59.97500	32.99120	0.00000	0.00000	0.00000	0.03760	1,2,6
		1081	59.79820	32.55856	0.00000	0.00000	0.00000	0.03333	1,2,6
		1082	59.62140	32.12591	0.00000	0.00000	0.00000	0.02928	1,2,6
		1083	59.44460	31.69327	0.00000	0.00000	0.00000	0.02545	1,2,6
		1084	59.26780	31.26063	0.00000	0.00000	0.00000	0.02181	1,2,6
		1085	59.09100	30.82799	0.00000	0.00000	0.00000	0.01836	1,2,6
		1086	58.91420	30.39534	0.00000	0.00000	0.00000	0.01509	1,2,6
		1087	58.73740	29.96270	0.00000	0.00000	0.00000	0.01198	1,2,6
		1088	58.56060	29.53006	0.00000	0.00000	0.00000	0.00904	1,2,6
		1089	58.38380	29.09741	0.00000	0.00000	0.00000	0.00624	1,2,6
		1090	58.20700	28.66477	0.00000	0.00000	0.00000	0.00359	1,2,6
		1091	58.03020	28.23213	0.00000	0.00000	0.00000	0.00108	1,2,6
		1092	57.85340	27.79949	0.00000	0.00000	0.00000	-0.00131	1,2,6
		1093	57.67660	27.36684	0.00000	0.00000	0.00000	-0.00358	1,2,6
		1094	57.49980	26.93420	0.00000	0.00000	0.00000	-0.00573	1,2,6
		1095	57.08077	27.10149	0.00000	0.00000	0.00000	-0.00586	1,2,6
		1096	56.66174	27.26878	0.00000	0.00000	0.00000	-0.00600	1,2,6
		1097	56.24271	27.43607	0.00000	0.00000	0.00000	-0.00615	1,2,6
		1098	55.82368	27.60336	0.00000	0.00000	0.00000	-0.00631	1,2,6
		1099	55.40465	27.77065	0.00000	0.00000	0.00000	-0.00648	1,2,6
		1100	54.98562	27.93794	0.00000	0.00000	0.00000	-0.00666	1,2,6
		1101	54.56659	28.10523	0.00000	0.00000	0.00000	-0.00685	1,2,6
		1102	54.14756	28.27252	0.00000	0.00000	0.00000	-0.00704	1,2,6
		1103	53.72853	28.43981	0.00000	0.00000	0.00000	-0.00725	1,2,6
		1104	56.42810	52.89730	0.00000	0.00000	0.00000	0.33922	1,2,6
		1105	56.90271	52.76362	0.00000	0.00000	0.00000	0.35369	1,2,6
		1106	57.37732	52.62994	0.00000	0.00000	0.00000	0.36885	1,2,6
		1107	57.85193	52.49626	0.00000	0.00000	0.00000	0.38469	1,2,6
		1108	58.32654	52.36258	0.00000	0.00000	0.00000	0.40124	1,2,6
		1109	58.80115	52.22890	0.00000	0.00000	0.00000	0.41849	1,2,6
		1110	59.27576	52.09522	0.00000	0.00000	0.00000	0.43646	1,2,6
		1111	59.75037	51.96154	0.00000	0.00000	0.00000	0.45514	1,2,6
		1112	60.22498	51.82786	0.00000	0.00000	0.00000	0.47451	1,2,6
		1113	60.69959	51.69418	0.00000	0.00000	0.00000	0.49458	1,2,6
		1114	61.17420	51.56050	0.00000	0.00000	0.00000	0.51530	1,2,6
		1115	61.64881	51.42682	0.00000	0.00000	0.00000	0.53665	1,2,6
		1116	62.12342	51.29314	0.00000	0.00000	0.00000	0.55859	1,2,6
		1117	62.59803	51.15946	0.00000	0.00000	0.00000	0.58105	1,2,6
		1118	63.07264	51.02578	0.00000	0.00000	0.00000	0.60397	1,2,6
		1119	63.54725	50.89210	0.00000	0.00000	0.00000	0.62728	1,2,6
		1120	64.02186	50.75842	0.00000	0.00000	0.00000	0.65086	1,2,6
		1121	64.49647	50.62474	0.00000	0.00000	0.00000	0.67460	1,2,6
		1122	64.97108	50.49106	0.00000	0.00000	0.00000	0.69837	1,2,6
		1123	65.44569	50.35738	0.00000	0.00000	0.00000	0.72203	1,2,6
		1124	65.92030	50.22370	0.00000	0.00000	0.00000	0.74539	1,2,6
		1125	66.39491	50.09002	0.00000	0.00000	0.00000	0.76828	1,2,6
		1126	66.86952	49.95634	0.00000	0.00000	0.00000	0.79049	1,2,6
		1127	67.34413	49.82266	0.00000	0.00000	0.00000	0.81179	1,2,6
		1128	67.81874	49.68898	0.00000	0.00000	0.00000	0.83197	1,2,6
		1129	68.29335	49.55530	0.00000	0.00000	0.00000	0.85078	1,2,6
		1130	68.76796	49.42162	0.00000	0.00000	0.00000	0.86799	1,2,6
		1131	69.24257	49.28794	0.00000	0.00000	0.00000	0.88335	1,2,6
		1132	69.71718	49.15426	0.00000	0.00000	0.00000	0.89665	1,2,6
		1133	70.19179	49.02058	0.00000	0.00000	0.00000	0.90769	1,2,6
		1134	70.66640	48.88690	0.00000	0.00000	0.00000	0.91628	1,2,6
		1135	70.47116	48.45752	0.00000	0.00000	0.00000	0.84532	1,2,6
		1136	70.27592	48.02815	0.00000	0.00000	0.00000	0.78072	1,2,6
		1137	70.08067	47.59878	0.00000	0.00000	0.00000	0.72183	1,2,6
		1138	69.88543	47.16940	0.00000	0.00000	0.00000	0.66807	1,2,6
		1139	69.69019	46.74003	0.00000	0.00000	0.00000	0.61889	1,2,6
		1140	69.49495	46.31065	0.00000	0.00000	0.00000	0.57384	1,2,6
		1141	69.29971	45.88128	0.00000	0.00000	0.00000	0.53251	1,2,6
		1142	69.10447	45.45190	0.00000	0.00000	0.00000	0.49452	1,2,6
		1143	68.90923	45.02253	0.00000	0.00000	0.00000	0.45956	1,2,6
		1144	68.71398	44.59315	0.00000	0.00000	0.00000	0.42732	1,2,6
		1145	68.51874	44.16378	0.00000	0.00000	0.00000	0.39756	1,2,6
		1146	68.32350	43.73440	0.00000	0.00000	0.00000	0.37004	1,2,6
		1147	68.05865	43.82285	0.00000	0.00000	0.00000	0.36870	1,2,6
		1148	67.79380	43.91130	0.00000	0.00000	0.00000	0.36719	1,2,6
		1149	67.52895	43.99975	0.00000	0.00000	0.00000	0.36551	1,2,6
		1150	67.26410	44.08820	0.00000	0.00000	0.00000	0.36366	1,2,6
		1151	67.10714	43.67957	0.00000	0.00000	0.00000	0.34036	1,2,6
		1152	66.95018	43.27094	0.00000	0.00000	0.00000	0.31864	1,2,6
		1153	66.79322	42.86231	0.00000	0.00000	0.00000	0.29836	1,2,6
		1154	66.63626	42.45368	0.00000	0.00000	0.00000	0.27940	1,2,6
		1155	66.47930	42.04505	0.00000	0.00000	0.00000	0.26167	1,2,6
		1156	66.32234	41.63642	0.00000	0.00000	0.00000	0.24506	1,2,6
		1157	66.16538	41.22779	0.00000	0.00000	0.00000	0.22949	1,2,6
		1158	66.00842	40.81916	0.00000	0.00000	0.00000	0.21488	1,2,6
		1159	65.85146	40.41053	0.00000	0.00000	0.00000	0.20115	1,2,6
		1160	65.69450	40.00190	0.00000	0.00000	0.00000	0.18824	1,2,6
		1161	65.23740	40.17862	0.00000	0.00000	0.00000	0.18706	1,2,6
		1162	64.78030	40.35534	0.00000	0.00000	0.00000	0.18569	1,2,6
		1163	64.32320	40.53206	0.00000	0.00000	0.00000	0.18413	1,2,6
		1164	63.86610	40.70879	0.00000	0.00000	0.00000	0.18239	1,2,6
		1165	63.40900	40.88551	0.00000	0.00000	0.00000	0.18048	1,2,6
		1166	62.95190	41.06223	0.00000	0.00000	0.00000	0.17839	1,2,6
		1167	62.49480	41.23895	0.00000	0.00000	0.00000	0.17615	1,2,6
		1168	62.03770	41.41567	0.00000	0.00000	0.00000	0.17376	1,2,6
		1169	61.58060	41.59239	0.00000	0.00000	0.00000	0.17122	1,2,6
		1170	61.12350	41.76911	0.00000	0.00000	0.00000	0.16856	1,2,6
		1171	60.66640	41.94584	0.00000	0.00000	0.00000	0.16577	1,2,6
		1172	60.20930	42.12256	0.00000	0.00000	0.00000	0.16287	1,2,6
		1173	59.75220	42.29928	0.00000	0.00000	0.00000	0.15988	1,2,6
		1174	59.29510	42.47600	0.00000	0.00000	0.00000	0.15680	1,2,6
		1175	58.83800	42.65272	0.00000	0.00000	0.00000	0.15365	1,2,6
		1176	58.38090	42.82944	0.00000	0.00000	0.00000	0.15043	1,2,6
		1177	57.92380	43.00616	0.00000	0.00000	0.00000	0.14716	1,2,6
		1178	57.46670	43.18289	0.00000	0.00000	0.00000	0.14384	1,2,6
		1179	57.00960	43.35961	0.00000	0.00000	0.00000	0.14050	1,2,6
		1180	56.55250	43.53633	0.00000	0.00000	0.00000	0.13713	1,2,6
		1181	56.09540	43.71305	0.00000	0.00000	0.00000	0.13375	1,2,6
		1182	55.63830	43.88977	0.00000	0.00000	0.00000	0.13036	1,2,6
		1183	55.18120	44.06649	0.00000	0.00000	0.00000	0.12698	1,2,6
		1184	54.72410	44.24321	0.00000	0.00000	0.00000	0.12361	1,2,6
		1185	54.26700	44.41994	0.00000	0.00000	0.00000	0.12027	1,2,6
		1186	53.80990	44.59666	0.00000	0.00000	0.00000	0.11694	1,2,6
		1187	53.35280	44.77338	0.00000	0.00000	0.00000	0.11366	1,2,6
		1188	52.89570	44.95010	0.00000	0.00000	0.00000	0.11041	1,2,6
		1189	53.09194	45.39161	0.00000	0.00000	0.00000	0.11838	1,2,6
		1190	53.28819	45.83312	0.00000	0.00000	0.00000	0.12676	1,2,6
		1191	53.48443	46.27463	0.00000	0.00000	0.00000	0.13558	1,2,6
		1192	53.68068	46.71614	0.00000	0.00000	0.00000	0.14487	1,2,6
		1193	53.87692	47.15766	0.00000	0.00000	0.00000	0.15463	1,2,6
		1194	54.07317	47.59917	0.00000	0.00000	0.00000	0.16492	1,2,6
		1195	54.26941	48.04068	0.00000	0.00000	0.00000	0.17573	1,2,6
		1196	54.46566	48.48219	0.00000	0.00000	0.00000	0.18712	1,2,6
		1197	54.66190	48.92370	0.00000	0.00000	0.00000	0.19910	1,2,6
		1198	54.85814	49.36521	0.00000	0.00000	0.00000	0.21171	1,2,6
		1199	55.05439	49.80672	0.00000	0.00000	0.00000	0.22498	1,2,6
		1200	55.25063	50.24823	0.00000	0.00000	0.00000	0.23894	1,2,6
		1201	55.44688	50.68974	0.00000	0.00000	0.00000	0.25362	1,2,6
		1202	55.64312	51.13126	0.00000	0.00000	0.00000	0.26907	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1203	55.83937	51.57277	0.00000	0.00000	0.00000	0.28532	1,2,6
		1204	56.03561	52.01428	0.00000	0.00000	0.00000	0.30240	1,2,6
		1205	56.23186	52.45579	0.00000	0.00000	0.00000	0.32035	1,2,6
		1206	92.77120	50.75620	0.00000	0.00000	0.00000	1.14972	1,2,6
		1207	93.25995	50.72525	0.00000	0.00000	0.00000	1.18889	1,2,6
		1208	93.74870	50.69430	0.00000	0.00000	0.00000	1.23282	1,2,6
		1209	94.23745	50.66335	0.00000	0.00000	0.00000	1.28186	1,2,6
		1210	94.72620	50.63240	0.00000	0.00000	0.00000	1.33641	1,2,6
		1211	95.21495	50.60145	0.00000	0.00000	0.00000	1.39702	1,2,6
		1212	95.70370	50.57050	0.00000	0.00000	0.00000	1.46434	1,2,6
		1213	96.19245	50.53955	0.00000	0.00000	0.00000	1.53920	1,2,6
		1214	96.68120	50.50860	0.00000	0.00000	0.00000	1.62271	1,2,6
		1215	97.16995	50.47765	0.00000	0.00000	0.00000	1.71633	1,2,6
		1216	97.65870	50.44670	0.00000	0.00000	0.00000	1.82212	1,2,6
		1217	98.14745	50.41575	0.00000	0.00000	0.00000	1.94312	1,2,6
		1218	98.63620	50.38480	0.00000	0.00000	0.00000	2.08408	1,2,6
		1219	98.62403	49.89284	0.00000	0.00000	0.00000	2.00868	1,2,6
		1220	98.61185	49.40089	0.00000	0.00000	0.00000	1.93043	1,2,6
		1221	98.59968	48.90893	0.00000	0.00000	0.00000	1.84962	1,2,6
		1222	98.58751	48.41697	0.00000	0.00000	0.00000	1.76699	1,2,6
		1223	98.57533	47.92502	0.00000	0.00000	0.00000	1.68399	1,2,6
		1224	98.56316	47.43306	0.00000	0.00000	0.00000	1.60242	1,2,6
		1225	98.55099	46.94110	0.00000	0.00000	0.00000	1.52382	1,2,6
		1226	98.53881	46.44915	0.00000	0.00000	0.00000	1.44902	1,2,6
		1227	98.52664	45.95719	0.00000	0.00000	0.00000	1.37827	1,2,6
		1228	98.51447	45.46523	0.00000	0.00000	0.00000	1.31148	1,2,6
		1229	98.50229	44.97328	0.00000	0.00000	0.00000	1.24841	1,2,6
		1230	98.49012	44.48132	0.00000	0.00000	0.00000	1.18881	1,2,6
		1231	98.47795	43.98936	0.00000	0.00000	0.00000	1.13240	1,2,6
		1232	98.46577	43.49741	0.00000	0.00000	0.00000	1.07894	1,2,6
		1233	98.45360	43.00545	0.00000	0.00000	0.00000	1.02821	1,2,6
		1234	98.44143	42.51349	0.00000	0.00000	0.00000	0.98001	1,2,6
		1235	98.42925	42.02154	0.00000	0.00000	0.00000	0.93418	1,2,6
		1236	98.41708	41.52958	0.00000	0.00000	0.00000	0.89055	1,2,6
		1237	98.40491	41.03762	0.00000	0.00000	0.00000	0.84899	1,2,6
		1238	98.39273	40.54567	0.00000	0.00000	0.00000	0.80936	1,2,6
		1239	98.38056	40.05371	0.00000	0.00000	0.00000	0.77156	1,2,6
		1240	98.36839	39.56175	0.00000	0.00000	0.00000	0.73549	1,2,6
		1241	98.35621	39.06980	0.00000	0.00000	0.00000	0.70104	1,2,6
		1242	98.34404	38.57784	0.00000	0.00000	0.00000	0.66814	1,2,6
		1243	98.33187	38.08588	0.00000	0.00000	0.00000	0.63669	1,2,6
		1244	98.31969	37.59393	0.00000	0.00000	0.00000	0.60664	1,2,6
		1245	98.30752	37.10197	0.00000	0.00000	0.00000	0.57789	1,2,6
		1246	98.29535	36.61001	0.00000	0.00000	0.00000	0.55040	1,2,6
		1247	98.28317	36.11806	0.00000	0.00000	0.00000	0.52411	1,2,6
		1248	98.27100	35.62610	0.00000	0.00000	0.00000	0.49894	1,2,6
		1249	97.83503	35.65297	0.00000	0.00000	0.00000	0.48618	1,2,6
		1250	97.39906	35.67984	0.00000	0.00000	0.00000	0.47370	1,2,6
		1251	96.96309	35.70671	0.00000	0.00000	0.00000	0.46153	1,2,6
		1252	96.52711	35.73359	0.00000	0.00000	0.00000	0.44965	1,2,6
		1253	96.09114	35.76046	0.00000	0.00000	0.00000	0.43808	1,2,6
		1254	95.65517	35.78733	0.00000	0.00000	0.00000	0.42683	1,2,6
		1255	95.21920	35.81420	0.00000	0.00000	0.00000	0.41589	1,2,6
		1256	94.78323	35.84107	0.00000	0.00000	0.00000	0.40528	1,2,6
		1257	94.34726	35.86794	0.00000	0.00000	0.00000	0.39500	1,2,6
		1258	93.91129	35.89481	0.00000	0.00000	0.00000	0.38504	1,2,6
		1259	93.47531	35.92169	0.00000	0.00000	0.00000	0.37542	1,2,6
		1260	93.03934	35.94856	0.00000	0.00000	0.00000	0.36612	1,2,6
		1261	92.60337	35.97543	0.00000	0.00000	0.00000	0.35715	1,2,6
		1262	92.16740	36.00230	0.00000	0.00000	0.00000	0.34852	1,2,6
		1263	92.20622	35.62567	0.00000	0.00000	0.00000	0.33703	1,2,6
		1264	92.24503	35.24903	0.00000	0.00000	0.00000	0.32581	1,2,6
		1265	92.28385	34.87240	0.00000	0.00000	0.00000	0.31487	1,2,6
		1266	92.32267	34.49577	0.00000	0.00000	0.00000	0.30420	1,2,6
		1267	92.36148	34.11913	0.00000	0.00000	0.00000	0.29379	1,2,6
		1268	92.40030	33.74250	0.00000	0.00000	0.00000	0.28365	1,2,6
		1269	91.98313	33.69950	0.00000	0.00000	0.00000	0.27517	1,2,6
		1270	91.56595	33.65650	0.00000	0.00000	0.00000	0.26700	1,2,6
		1271	91.14878	33.61350	0.00000	0.00000	0.00000	0.25913	1,2,6
		1272	90.73160	33.57050	0.00000	0.00000	0.00000	0.25154	1,2,6
		1273	90.31442	33.52750	0.00000	0.00000	0.00000	0.24423	1,2,6
		1274	89.89725	33.48450	0.00000	0.00000	0.00000	0.23719	1,2,6
		1275	89.48007	33.44150	0.00000	0.00000	0.00000	0.23042	1,2,6
		1276	89.06290	33.39850	0.00000	0.00000	0.00000	0.22389	1,2,6
		1277	88.64572	33.35550	0.00000	0.00000	0.00000	0.21761	1,2,6
		1278	88.22855	33.31250	0.00000	0.00000	0.00000	0.21156	1,2,6
		1279	87.81137	33.26950	0.00000	0.00000	0.00000	0.20573	1,2,6
		1280	87.39420	33.22650	0.00000	0.00000	0.00000	0.20013	1,2,6
		1281	86.98952	33.13740	0.00000	0.00000	0.00000	0.19389	1,2,6
		1282	86.58483	33.04830	0.00000	0.00000	0.00000	0.18787	1,2,6
		1283	86.18015	32.95920	0.00000	0.00000	0.00000	0.18207	1,2,6
		1284	85.77547	32.87010	0.00000	0.00000	0.00000	0.17647	1,2,6
		1285	85.37078	32.78100	0.00000	0.00000	0.00000	0.17106	1,2,6
		1286	84.96610	32.69190	0.00000	0.00000	0.00000	0.16584	1,2,6
		1287	84.91494	33.14352	0.00000	0.00000	0.00000	0.17416	1,2,6
		1288	84.86377	33.59514	0.00000	0.00000	0.00000	0.18280	1,2,6
		1289	84.81261	34.04676	0.00000	0.00000	0.00000	0.19176	1,2,6
		1290	84.76144	34.49839	0.00000	0.00000	0.00000	0.20106	1,2,6
		1291	84.71028	34.95001	0.00000	0.00000	0.00000	0.21071	1,2,6
		1292	84.65911	35.40163	0.00000	0.00000	0.00000	0.22074	1,2,6
		1293	84.60795	35.85325	0.00000	0.00000	0.00000	0.23116	1,2,6
		1294	84.55679	36.30487	0.00000	0.00000	0.00000	0.24199	1,2,6
		1295	84.50562	36.75649	0.00000	0.00000	0.00000	0.25326	1,2,6
		1296	84.45446	37.20811	0.00000	0.00000	0.00000	0.26498	1,2,6
		1297	84.40329	37.65974	0.00000	0.00000	0.00000	0.27718	1,2,6
		1298	84.35213	38.11136	0.00000	0.00000	0.00000	0.28990	1,2,6
		1299	84.30096	38.56298	0.00000	0.00000	0.00000	0.30315	1,2,6
		1300	84.24980	39.01460	0.00000	0.00000	0.00000	0.31698	1,2,6
		1301	84.72059	39.05661	0.00000	0.00000	0.00000	0.32320	1,2,6
		1302	85.19139	39.09861	0.00000	0.00000	0.00000	0.32976	1,2,6
		1303	85.66218	39.14062	0.00000	0.00000	0.00000	0.33671	1,2,6
		1304	86.13298	39.18263	0.00000	0.00000	0.00000	0.34406	1,2,6
		1305	86.60377	39.22463	0.00000	0.00000	0.00000	0.35185	1,2,6
		1306	87.07456	39.26664	0.00000	0.00000	0.00000	0.36012	1,2,6
		1307	87.54536	39.30864	0.00000	0.00000	0.00000	0.36889	1,2,6
		1308	88.01615	39.35065	0.00000	0.00000	0.00000	0.37820	1,2,6
		1309	88.48694	39.39266	0.00000	0.00000	0.00000	0.38809	1,2,6
		1310	88.95774	39.43466	0.00000	0.00000	0.00000	0.39859	1,2,6
		1311	89.42853	39.47667	0.00000	0.00000	0.00000	0.40973	1,2,6
		1312	89.89933	39.51868	0.00000	0.00000	0.00000	0.42155	1,2,6
		1313	90.37012	39.56068	0.00000	0.00000	0.00000	0.43407	1,2,6
		1314	90.84091	39.60269	0.00000	0.00000	0.00000	0.44735	1,2,6
		1315	91.31171	39.64469	0.00000	0.00000	0.00000	0.46140	1,2,6
		1316	91.78250	39.68670	0.00000	0.00000	0.00000	0.47627	1,2,6
		1317	91.74112	40.13687	0.00000	0.00000	0.00000	0.49404	1,2,6
		1318	91.69975	40.58703	0.00000	0.00000	0.00000	0.51227	1,2,6
		1319	91.65838	41.03720	0.00000	0.00000	0.00000	0.53096	1,2,6
		1320	91.61700	41.48737	0.00000	0.00000	0.00000	0.55010	1,2,6
		1321	91.57563	41.93753	0.00000	0.00000	0.00000	0.56970	1,2,6
		1322	91.53425	42.38770	0.00000	0.00000	0.00000	0.58974	1,2,6
		1323	91.49287	42.83787	0.00000	0.00000	0.00000	0.61022	1,2,6
		1324	91.45150	43.28803	0.00000	0.00000	0.00000	0.63114	1,2,6
		1325	91.41012	43.73820	0.00000	0.00000	0.00000	0.65248	1,2,6
		1326	91.36875	44.18837	0.00000	0.00000	0.00000	0.67423	1,2,6
		1327	91.32738	44.63853	0.00000	0.00000	0.00000	0.69638	1,2,6
		1328	91.28600	45.08870	0.00000	0.00000	0.00000	0.71891	1,2,6
		1329	91.65398	45.11068	0.00000	0.00000	0.00000	0.73576	1,2,6
		1330	92.02195	45.13265	0.00000	0.00000	0.00000	0.75374	1,2,6
		1331	92.38993	45.15463	0.00000	0.00000	0.00000	0.77288	1,2,6
		1332	92.75790	45.17660	0.00000	0.00000	0.00000	0.79324	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1333	92.75901	45.64157	0.00000	0.00000	0.00000	0.82138	1,2,6
		1334	92.76012	46.10653	0.00000	0.00000	0.00000	0.84999	1,2,6
		1335	92.76122	46.57150	0.00000	0.00000	0.00000	0.87903	1,2,6
		1336	92.76233	47.03647	0.00000	0.00000	0.00000	0.90844	1,2,6
		1337	92.76344	47.50143	0.00000	0.00000	0.00000	0.93817	1,2,6
		1338	92.76455	47.96640	0.00000	0.00000	0.00000	0.96816	1,2,6
		1339	92.76566	48.43137	0.00000	0.00000	0.00000	0.99834	1,2,6
		1340	92.76677	48.89633	0.00000	0.00000	0.00000	1.02865	1,2,6
		1341	92.76788	49.36130	0.00000	0.00000	0.00000	1.05901	1,2,6
		1342	92.76898	49.82627	0.00000	0.00000	0.00000	1.08935	1,2,6
		1343	92.77009	50.29123	0.00000	0.00000	0.00000	1.11961	1,2,6
		1344	91.83061	39.22615	0.00000	0.00000	0.00000	0.45872	1,2,6
		1345	91.87873	38.76560	0.00000	0.00000	0.00000	0.44162	1,2,6
		1346	91.92684	38.30505	0.00000	0.00000	0.00000	0.42499	1,2,6
		1347	91.97495	37.84450	0.00000	0.00000	0.00000	0.40881	1,2,6
		1348	92.02306	37.38395	0.00000	0.00000	0.00000	0.39308	1,2,6
		1349	92.07117	36.92340	0.00000	0.00000	0.00000	0.37779	1,2,6
		1350	92.11929	36.46285	0.00000	0.00000	0.00000	0.36294	1,2,6
		1351	81.33400	88.63190	0.00000	0.00000	0.00000	0.47766	1,2,6
		1352	81.61613	89.04169	0.00000	0.00000	0.00000	0.45961	1,2,6
		1353	81.89826	89.45148	0.00000	0.00000	0.00000	0.44258	1,2,6
		1354	82.18038	89.86127	0.00000	0.00000	0.00000	0.42646	1,2,6
		1355	82.46251	90.27106	0.00000	0.00000	0.00000	0.41119	1,2,6
		1356	82.74464	90.68084	0.00000	0.00000	0.00000	0.39669	1,2,6
		1357	83.02677	91.09063	0.00000	0.00000	0.00000	0.38290	1,2,6
		1358	83.30889	91.50042	0.00000	0.00000	0.00000	0.36977	1,2,6
		1359	83.59102	91.91021	0.00000	0.00000	0.00000	0.35724	1,2,6
		1360	83.87315	92.32000	0.00000	0.00000	0.00000	0.34526	1,2,6
		1361	84.15528	92.72979	0.00000	0.00000	0.00000	0.33380	1,2,6
		1362	84.43741	93.13958	0.00000	0.00000	0.00000	0.32281	1,2,6
		1363	84.71953	93.54937	0.00000	0.00000	0.00000	0.31226	1,2,6
		1364	85.00166	93.95916	0.00000	0.00000	0.00000	0.30212	1,2,6
		1365	85.28379	94.36894	0.00000	0.00000	0.00000	0.29236	1,2,6
		1366	85.56592	94.77873	0.00000	0.00000	0.00000	0.28295	1,2,6
		1367	85.84804	95.18852	0.00000	0.00000	0.00000	0.27387	1,2,6
		1368	86.13017	95.59831	0.00000	0.00000	0.00000	0.26510	1,2,6
		1369	86.41230	96.00810	0.00000	0.00000	0.00000	0.25661	1,2,6
		1370	86.82094	95.73911	0.00000	0.00000	0.00000	0.26273	1,2,6
		1371	87.22959	95.47012	0.00000	0.00000	0.00000	0.26937	1,2,6
		1372	87.63823	95.20114	0.00000	0.00000	0.00000	0.27655	1,2,6
		1373	88.04688	94.93215	0.00000	0.00000	0.00000	0.28429	1,2,6
		1374	88.45552	94.66316	0.00000	0.00000	0.00000	0.29262	1,2,6
		1375	88.86416	94.39418	0.00000	0.00000	0.00000	0.30156	1,2,6
		1376	89.27281	94.12519	0.00000	0.00000	0.00000	0.31115	1,2,6
		1377	89.68145	93.85620	0.00000	0.00000	0.00000	0.32141	1,2,6
		1378	90.09009	93.58721	0.00000	0.00000	0.00000	0.33238	1,2,6
		1379	90.49874	93.31822	0.00000	0.00000	0.00000	0.34410	1,2,6
		1380	90.90738	93.04924	0.00000	0.00000	0.00000	0.35660	1,2,6
		1381	91.31602	92.78025	0.00000	0.00000	0.00000	0.36994	1,2,6
		1382	91.72467	92.51126	0.00000	0.00000	0.00000	0.38417	1,2,6
		1383	92.13331	92.24228	0.00000	0.00000	0.00000	0.39932	1,2,6
		1384	92.54196	91.97329	0.00000	0.00000	0.00000	0.41547	1,2,6
		1385	92.95060	91.70430	0.00000	0.00000	0.00000	0.43267	1,2,6
		1386	92.75582	91.40858	0.00000	0.00000	0.00000	0.43959	1,2,6
		1387	92.56103	91.11287	0.00000	0.00000	0.00000	0.44659	1,2,6
		1388	92.36625	90.81715	0.00000	0.00000	0.00000	0.45366	1,2,6
		1389	92.17147	90.52143	0.00000	0.00000	0.00000	0.46082	1,2,6
		1390	91.97668	90.22572	0.00000	0.00000	0.00000	0.46807	1,2,6
		1391	91.78190	89.93000	0.00000	0.00000	0.00000	0.47541	1,2,6
		1392	91.41813	90.17150	0.00000	0.00000	0.00000	0.45950	1,2,6
		1393	91.05435	90.41300	0.00000	0.00000	0.00000	0.44448	1,2,6
		1394	90.69057	90.65450	0.00000	0.00000	0.00000	0.43031	1,2,6
		1395	90.32680	90.89600	0.00000	0.00000	0.00000	0.41692	1,2,6
		1396	90.05324	90.48731	0.00000	0.00000	0.00000	0.42698	1,2,6
		1397	89.77967	90.07863	0.00000	0.00000	0.00000	0.43733	1,2,6
		1398	89.50611	89.66994	0.00000	0.00000	0.00000	0.44801	1,2,6
		1399	89.23254	89.26126	0.00000	0.00000	0.00000	0.45905	1,2,6
		1400	88.95898	88.85257	0.00000	0.00000	0.00000	0.47051	1,2,6
		1401	88.68541	88.44389	0.00000	0.00000	0.00000	0.48242	1,2,6
		1402	88.41185	88.03520	0.00000	0.00000	0.00000	0.49484	1,2,6
		1403	88.13829	87.62651	0.00000	0.00000	0.00000	0.50782	1,2,6
		1404	87.86472	87.21783	0.00000	0.00000	0.00000	0.52144	1,2,6
		1405	87.59116	86.80914	0.00000	0.00000	0.00000	0.53576	1,2,6
		1406	87.31759	86.40046	0.00000	0.00000	0.00000	0.55088	1,2,6
		1407	87.04403	85.99177	0.00000	0.00000	0.00000	0.56689	1,2,6
		1408	86.77046	85.58309	0.00000	0.00000	0.00000	0.58388	1,2,6
		1409	86.49690	85.17440	0.00000	0.00000	0.00000	0.60198	1,2,6
		1410	86.09843	96.21123	0.00000	0.00000	0.00000	0.25232	1,2,6
		1411	85.78457	96.41437	0.00000	0.00000	0.00000	0.24832	1,2,6
		1412	85.47070	96.61750	0.00000	0.00000	0.00000	0.24459	1,2,6
		1413	85.15683	96.82063	0.00000	0.00000	0.00000	0.24114	1,2,6
		1414	84.84297	97.02377	0.00000	0.00000	0.00000	0.23795	1,2,6
		1415	84.52910	97.22690	0.00000	0.00000	0.00000	0.23502	1,2,6
		1416	84.77199	97.59577	0.00000	0.00000	0.00000	0.22756	1,2,6
		1417	85.01487	97.96464	0.00000	0.00000	0.00000	0.22030	1,2,6
		1418	85.25776	98.33351	0.00000	0.00000	0.00000	0.21325	1,2,6
		1419	85.50064	98.70239	0.00000	0.00000	0.00000	0.20639	1,2,6
		1420	85.74353	99.07126	0.00000	0.00000	0.00000	0.19972	1,2,6
		1421	85.98641	99.44013	0.00000	0.00000	0.00000	0.19323	1,2,6
		1422	86.22930	99.80900	0.00000	0.00000	0.00000	0.18690	1,2,6
		1423	86.47219	100.17787	0.00000	0.00000	0.00000	0.18074	1,2,6
		1424	86.71507	100.54674	0.00000	0.00000	0.00000	0.17474	1,2,6
		1425	86.95796	100.91561	0.00000	0.00000	0.00000	0.16889	1,2,6
		1426	87.20084	101.28449	0.00000	0.00000	0.00000	0.16318	1,2,6
		1427	87.44373	101.65336	0.00000	0.00000	0.00000	0.15762	1,2,6
		1428	87.68661	102.02223	0.00000	0.00000	0.00000	0.15219	1,2,6
		1429	87.92950	102.39110	0.00000	0.00000	0.00000	0.14689	1,2,6
		1430	88.31205	102.13921	0.00000	0.00000	0.00000	0.15065	1,2,6
		1431	88.69459	101.88733	0.00000	0.00000	0.00000	0.15470	1,2,6
		1432	89.07714	101.63544	0.00000	0.00000	0.00000	0.15905	1,2,6
		1433	89.45968	101.38355	0.00000	0.00000	0.00000	0.16372	1,2,6
		1434	89.84223	101.13167	0.00000	0.00000	0.00000	0.16873	1,2,6
		1435	90.22477	100.87978	0.00000	0.00000	0.00000	0.17408	1,2,6
		1436	90.60732	100.62790	0.00000	0.00000	0.00000	0.17978	1,2,6
		1437	90.98986	100.37601	0.00000	0.00000	0.00000	0.18586	1,2,6
		1438	91.37241	100.12412	0.00000	0.00000	0.00000	0.19233	1,2,6
		1439	91.75495	99.87224	0.00000	0.00000	0.00000	0.19921	1,2,6
		1440	92.13750	99.62035	0.00000	0.00000	0.00000	0.20651	1,2,6
		1441	92.52005	99.36846	0.00000	0.00000	0.00000	0.21425	1,2,6
		1442	92.90259	99.11658	0.00000	0.00000	0.00000	0.22245	1,2,6
		1443	93.28514	98.86469	0.00000	0.00000	0.00000	0.23114	1,2,6
		1444	93.66768	98.61280	0.00000	0.00000	0.00000	0.24033	1,2,6
		1445	94.05023	98.36092	0.00000	0.00000	0.00000	0.25005	1,2,6
		1446	94.43277	98.10903	0.00000	0.00000	0.00000	0.26033	1,2,6
		1447	94.81532	97.85715	0.00000	0.00000	0.00000	0.27119	1,2,6
		1448	95.19786	97.60526	0.00000	0.00000	0.00000	0.28266	1,2,6
		1449	95.58041	97.35337	0.00000	0.00000	0.00000	0.29476	1,2,6
		1450	95.96295	97.10149	0.00000	0.00000	0.00000	0.30754	1,2,6
		1451	96.34550	96.84960	0.00000	0.00000	0.00000	0.32102	1,2,6
		1452	96.10331	96.48179	0.00000	0.00000	0.00000	0.32855	1,2,6
		1453	95.86113	96.11397	0.00000	0.00000	0.00000	0.33614	1,2,6
		1454	95.61894	95.74616	0.00000	0.00000	0.00000	0.34380	1,2,6
		1455	95.37676	95.37834	0.00000	0.00000	0.00000	0.35153	1,2,6
		1456	95.13457	95.01053	0.00000	0.00000	0.00000	0.35933	1,2,6
		1457	94.89239	94.64271	0.00000	0.00000	0.00000	0.36719	1,2,6
		1458	94.65020	94.27490	0.00000	0.00000	0.00000	0.37513	1,2,6
		1459	94.40801	93.90709	0.00000	0.00000	0.00000	0.38314	1,2,6
		1460	94.16583	93.53927	0.00000	0.00000	0.00000	0.39123	1,2,6
		1461	93.92364	93.17146	0.00000	0.00000	0.00000	0.39939	1,2,6
		1462	93.68146	92.80364	0.00000	0.00000	0.00000	0.40763	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1463	93.43927	92.43583	0.00000	0.00000	0.00000	0.41596	1,2,6
		1464	93.19709	92.06801	0.00000	0.00000	0.00000	0.42438	1,2,6
		1465	92.95490	91.70020	0.00000	0.00000	0.00000	0.43290	1,2,6
		1466	87.93150	102.38980	0.00000	0.00000	0.00000	0.14691	1,2,6
		1467	88.17202	102.75233	0.00000	0.00000	0.00000	0.14183	1,2,6
		1468	88.41253	103.11487	0.00000	0.00000	0.00000	0.13686	1,2,6
		1469	88.65305	103.47740	0.00000	0.00000	0.00000	0.13202	1,2,6
		1470	88.89357	103.83993	0.00000	0.00000	0.00000	0.12728	1,2,6
		1471	89.13408	104.20247	0.00000	0.00000	0.00000	0.12265	1,2,6
		1472	89.37460	104.56500	0.00000	0.00000	0.00000	0.11812	1,2,6
		1473	89.76970	104.33398	0.00000	0.00000	0.00000	0.12149	1,2,6
		1474	90.16481	104.10295	0.00000	0.00000	0.00000	0.12511	1,2,6
		1475	90.55991	103.87193	0.00000	0.00000	0.00000	0.12900	1,2,6
		1476	90.95502	103.64091	0.00000	0.00000	0.00000	0.13315	1,2,6
		1477	91.35012	103.40989	0.00000	0.00000	0.00000	0.13759	1,2,6
		1478	91.74523	103.17886	0.00000	0.00000	0.00000	0.14232	1,2,6
		1479	92.14033	102.94784	0.00000	0.00000	0.00000	0.14736	1,2,6
		1480	92.53544	102.71682	0.00000	0.00000	0.00000	0.15271	1,2,6
		1481	92.93054	102.48580	0.00000	0.00000	0.00000	0.15839	1,2,6
		1482	93.32565	102.25477	0.00000	0.00000	0.00000	0.16441	1,2,6
		1483	93.72075	102.02375	0.00000	0.00000	0.00000	0.17079	1,2,6
		1484	94.11585	101.79273	0.00000	0.00000	0.00000	0.17753	1,2,6
		1485	94.51096	101.56170	0.00000	0.00000	0.00000	0.18466	1,2,6
		1486	94.90606	101.33068	0.00000	0.00000	0.00000	0.19219	1,2,6
		1487	95.30117	101.09966	0.00000	0.00000	0.00000	0.20014	1,2,6
		1488	95.69627	100.86864	0.00000	0.00000	0.00000	0.20852	1,2,6
		1489	96.09138	100.63761	0.00000	0.00000	0.00000	0.21736	1,2,6
		1490	96.48648	100.40659	0.00000	0.00000	0.00000	0.22667	1,2,6
		1491	96.88159	100.17557	0.00000	0.00000	0.00000	0.23647	1,2,6
		1492	97.27669	99.94455	0.00000	0.00000	0.00000	0.24678	1,2,6
		1493	97.67180	99.71352	0.00000	0.00000	0.00000	0.25763	1,2,6
		1494	98.06690	99.48250	0.00000	0.00000	0.00000	0.26904	1,2,6
		1495	97.85066	99.15409	0.00000	0.00000	0.00000	0.27529	1,2,6
		1496	97.63442	98.82568	0.00000	0.00000	0.00000	0.28161	1,2,6
		1497	97.41819	98.49726	0.00000	0.00000	0.00000	0.28799	1,2,6
		1498	97.20195	98.16885	0.00000	0.00000	0.00000	0.29442	1,2,6
		1499	96.98571	97.84044	0.00000	0.00000	0.00000	0.30091	1,2,6
		1500	96.76947	97.51202	0.00000	0.00000	0.00000	0.30746	1,2,6
		1501	96.55324	97.18361	0.00000	0.00000	0.00000	0.31406	1,2,6
		1502	96.33700	96.85520	0.00000	0.00000	0.00000	0.32071	1,2,6
		1503	89.37270	104.57010	0.00000	0.00000	0.00000	0.11806	1,2,6
		1504	89.13048	104.71325	0.00000	0.00000	0.00000	0.11610	1,2,6
		1505	88.88825	104.85640	0.00000	0.00000	0.00000	0.11423	1,2,6
		1506	88.64602	104.99955	0.00000	0.00000	0.00000	0.11244	1,2,6
		1507	88.40380	105.14270	0.00000	0.00000	0.00000	0.11075	1,2,6
		1508	88.64137	105.55530	0.00000	0.00000	0.00000	0.10577	1,2,6
		1509	88.87894	105.96789	0.00000	0.00000	0.00000	0.10092	1,2,6
		1510	89.11652	106.38049	0.00000	0.00000	0.00000	0.09620	1,2,6
		1511	89.35409	106.79309	0.00000	0.00000	0.00000	0.09159	1,2,6
		1512	89.59166	107.20569	0.00000	0.00000	0.00000	0.08711	1,2,6
		1513	89.82923	107.61828	0.00000	0.00000	0.00000	0.08274	1,2,6
		1514	90.06681	108.03088	0.00000	0.00000	0.00000	0.07848	1,2,6
		1515	90.30438	108.44348	0.00000	0.00000	0.00000	0.07434	1,2,6
		1516	90.54195	108.85608	0.00000	0.00000	0.00000	0.07030	1,2,6
		1517	90.77952	109.26867	0.00000	0.00000	0.00000	0.06636	1,2,6
		1518	91.01709	109.68127	0.00000	0.00000	0.00000	0.06253	1,2,6
		1519	91.25467	110.09387	0.00000	0.00000	0.00000	0.05880	1,2,6
		1520	91.49224	110.50646	0.00000	0.00000	0.00000	0.05516	1,2,6
		1521	91.72981	110.91906	0.00000	0.00000	0.00000	0.05162	1,2,6
		1522	91.96738	111.33166	0.00000	0.00000	0.00000	0.04817	1,2,6
		1523	92.20496	111.74426	0.00000	0.00000	0.00000	0.04481	1,2,6
		1524	92.44253	112.15685	0.00000	0.00000	0.00000	0.04154	1,2,6
		1525	92.68010	112.56945	0.00000	0.00000	0.00000	0.03836	1,2,6
		1526	92.91767	112.98205	0.00000	0.00000	0.00000	0.03527	1,2,6
		1527	93.15524	113.39464	0.00000	0.00000	0.00000	0.03225	1,2,6
		1528	93.39282	113.80724	0.00000	0.00000	0.00000	0.02932	1,2,6
		1529	93.63039	114.21984	0.00000	0.00000	0.00000	0.02647	1,2,6
		1530	93.86796	114.63244	0.00000	0.00000	0.00000	0.02369	1,2,6
		1531	94.10553	115.04503	0.00000	0.00000	0.00000	0.02100	1,2,6
		1532	94.34311	115.45763	0.00000	0.00000	0.00000	0.01837	1,2,6
		1533	94.58068	115.87023	0.00000	0.00000	0.00000	0.01582	1,2,6
		1534	94.81825	116.28283	0.00000	0.00000	0.00000	0.01334	1,2,6
		1535	95.05582	116.69542	0.00000	0.00000	0.00000	0.01093	1,2,6
		1536	95.29339	117.10802	0.00000	0.00000	0.00000	0.00859	1,2,6
		1537	95.53097	117.52062	0.00000	0.00000	0.00000	0.00631	1,2,6
		1538	95.76854	117.93321	0.00000	0.00000	0.00000	0.00410	1,2,6
		1539	96.00611	118.34581	0.00000	0.00000	0.00000	0.00196	1,2,6
		1540	96.24368	118.75841	0.00000	0.00000	0.00000	-0.00013	1,2,6
		1541	96.48126	119.17101	0.00000	0.00000	0.00000	-0.00215	1,2,6
		1542	96.71883	119.58360	0.00000	0.00000	0.00000	-0.00411	1,2,6
		1543	96.95640	119.99620	0.00000	0.00000	0.00000	-0.00601	1,2,6
		1544	97.37429	119.75529	0.00000	0.00000	0.00000	-0.00465	1,2,6
		1545	97.79217	119.51438	0.00000	0.00000	0.00000	-0.00320	1,2,6
		1546	98.21006	119.27347	0.00000	0.00000	0.00000	-0.00167	1,2,6
		1547	98.62795	119.03256	0.00000	0.00000	0.00000	-0.00005	1,2,6
		1548	99.04583	118.79165	0.00000	0.00000	0.00000	0.00165	1,2,6
		1549	99.46372	118.55075	0.00000	0.00000	0.00000	0.00344	1,2,6
		1550	99.88160	118.30984	0.00000	0.00000	0.00000	0.00533	1,2,6
		1551	100.29949	118.06893	0.00000	0.00000	0.00000	0.00732	1,2,6
		1552	100.71738	117.82802	0.00000	0.00000	0.00000	0.00941	1,2,6
		1553	101.13526	117.58711	0.00000	0.00000	0.00000	0.01160	1,2,6
		1554	101.55315	117.34620	0.00000	0.00000	0.00000	0.01390	1,2,6
		1555	101.97104	117.10529	0.00000	0.00000	0.00000	0.01632	1,2,6
		1556	102.38892	116.86438	0.00000	0.00000	0.00000	0.01885	1,2,6
		1557	102.80681	116.62347	0.00000	0.00000	0.00000	0.02149	1,2,6
		1558	103.22470	116.38256	0.00000	0.00000	0.00000	0.02426	1,2,6
		1559	103.64258	116.14165	0.00000	0.00000	0.00000	0.02716	1,2,6
		1560	104.06047	115.90075	0.00000	0.00000	0.00000	0.03019	1,2,6
		1561	104.47835	115.65984	0.00000	0.00000	0.00000	0.03336	1,2,6
		1562	104.89624	115.41893	0.00000	0.00000	0.00000	0.03666	1,2,6
		1563	105.31413	115.17802	0.00000	0.00000	0.00000	0.04011	1,2,6
		1564	105.73201	114.93711	0.00000	0.00000	0.00000	0.04371	1,2,6
		1565	106.14990	114.69620	0.00000	0.00000	0.00000	0.04746	1,2,6
		1566	105.91119	114.28331	0.00000	0.00000	0.00000	0.05117	1,2,6
		1567	105.67248	113.87042	0.00000	0.00000	0.00000	0.05499	1,2,6
		1568	105.43377	113.45753	0.00000	0.00000	0.00000	0.05891	1,2,6
		1569	105.19507	113.04464	0.00000	0.00000	0.00000	0.06293	1,2,6
		1570	104.95636	112.63176	0.00000	0.00000	0.00000	0.06706	1,2,6
		1571	104.71765	112.21887	0.00000	0.00000	0.00000	0.07130	1,2,6
		1572	104.47894	111.80598	0.00000	0.00000	0.00000	0.07564	1,2,6
		1573	104.24023	111.39309	0.00000	0.00000	0.00000	0.08010	1,2,6
		1574	104.00153	110.98020	0.00000	0.00000	0.00000	0.08466	1,2,6
		1575	103.76282	110.56731	0.00000	0.00000	0.00000	0.08934	1,2,6
		1576	103.52411	110.15442	0.00000	0.00000	0.00000	0.09413	1,2,6
		1577	103.28540	109.74153	0.00000	0.00000	0.00000	0.09904	1,2,6
		1578	103.04669	109.32864	0.00000	0.00000	0.00000	0.10406	1,2,6
		1579	102.80798	108.91576	0.00000	0.00000	0.00000	0.10920	1,2,6
		1580	102.56928	108.50287	0.00000	0.00000	0.00000	0.11446	1,2,6
		1581	102.33057	108.08998	0.00000	0.00000	0.00000	0.11983	1,2,6
		1582	102.09186	107.67709	0.00000	0.00000	0.00000	0.12533	1,2,6
		1583	101.85315	107.26420	0.00000	0.00000	0.00000	0.13094	1,2,6
		1584	101.61444	106.85131	0.00000	0.00000	0.00000	0.13668	1,2,6
		1585	101.37573	106.43842	0.00000	0.00000	0.00000	0.14254	1,2,6
		1586	101.13702	106.02553	0.00000	0.00000	0.00000	0.14853	1,2,6
		1587	100.89832	105.61264	0.00000	0.00000	0.00000	0.15463	1,2,6
		1588	100.65961	105.19976	0.00000	0.00000	0.00000	0.16086	1,2,6
		1589	100.42090	104.78687	0.00000	0.00000	0.00000	0.16721	1,2,6
		1590	100.18219	104.37398	0.00000	0.00000	0.00000	0.17369	1,2,6
		1591	99.94348	103.96109	0.00000	0.00000	0.00000	0.18029	1,2,6
		1592	99.70477	103.54820	0.00000	0.00000	0.00000	0.18701	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1593	99.46607	103.13531	0.00000	0.00000	0.00000	0.19386	1,2,6
		1594	99.22736	102.72242	0.00000	0.00000	0.00000	0.20083	1,2,6
		1595	98.98865	102.30953	0.00000	0.00000	0.00000	0.20793	1,2,6
		1596	98.74994	101.89664	0.00000	0.00000	0.00000	0.21515	1,2,6
		1597	98.51123	101.48376	0.00000	0.00000	0.00000	0.22249	1,2,6
		1598	98.27253	101.07087	0.00000	0.00000	0.00000	0.22995	1,2,6
		1599	98.03382	100.65798	0.00000	0.00000	0.00000	0.23753	1,2,6
		1600	97.79511	100.24509	0.00000	0.00000	0.00000	0.24524	1,2,6
		1601	97.55640	99.83220	0.00000	0.00000	0.00000	0.25306	1,2,6
		1602	111.36030	124.06920	0.00000	0.00000	0.00000	0.01287	1,2,6
		1603	111.81115	123.91236	0.00000	0.00000	0.00000	0.01400	1,2,6
		1604	112.26200	123.75551	0.00000	0.00000	0.00000	0.01515	1,2,6
		1605	112.71285	123.59867	0.00000	0.00000	0.00000	0.01634	1,2,6
		1606	113.16370	123.44183	0.00000	0.00000	0.00000	0.01756	1,2,6
		1607	113.61455	123.28499	0.00000	0.00000	0.00000	0.01881	1,2,6
		1608	114.06540	123.12814	0.00000	0.00000	0.00000	0.02009	1,2,6
		1609	114.51625	122.97130	0.00000	0.00000	0.00000	0.02141	1,2,6
		1610	114.96710	122.81446	0.00000	0.00000	0.00000	0.02275	1,2,6
		1611	115.41795	122.65761	0.00000	0.00000	0.00000	0.02413	1,2,6
		1612	115.86880	122.50077	0.00000	0.00000	0.00000	0.02553	1,2,6
		1613	116.31965	122.34393	0.00000	0.00000	0.00000	0.02697	1,2,6
		1614	116.77050	122.18709	0.00000	0.00000	0.00000	0.02844	1,2,6
		1615	117.22135	122.03024	0.00000	0.00000	0.00000	0.02995	1,2,6
		1616	117.67220	121.87340	0.00000	0.00000	0.00000	0.03148	1,2,6
		1617	117.50862	121.40396	0.00000	0.00000	0.00000	0.03433	1,2,6
		1618	117.34504	120.93452	0.00000	0.00000	0.00000	0.03729	1,2,6
		1619	117.18146	120.46507	0.00000	0.00000	0.00000	0.04036	1,2,6
		1620	117.01788	119.99563	0.00000	0.00000	0.00000	0.04356	1,2,6
		1621	116.85430	119.52619	0.00000	0.00000	0.00000	0.04688	1,2,6
		1622	116.69073	119.05675	0.00000	0.00000	0.00000	0.05034	1,2,6
		1623	116.52715	118.58731	0.00000	0.00000	0.00000	0.05393	1,2,6
		1624	116.36357	118.11787	0.00000	0.00000	0.00000	0.05766	1,2,6
		1625	116.19999	117.64843	0.00000	0.00000	0.00000	0.06154	1,2,6
		1626	116.03641	117.17898	0.00000	0.00000	0.00000	0.06557	1,2,6
		1627	115.87283	116.70954	0.00000	0.00000	0.00000	0.06975	1,2,6
		1628	115.70925	116.24010	0.00000	0.00000	0.00000	0.07409	1,2,6
		1629	115.54567	115.77066	0.00000	0.00000	0.00000	0.07860	1,2,6
		1630	115.38209	115.30122	0.00000	0.00000	0.00000	0.08329	1,2,6
		1631	115.21851	114.83177	0.00000	0.00000	0.00000	0.08815	1,2,6
		1632	115.05493	114.36233	0.00000	0.00000	0.00000	0.09319	1,2,6
		1633	114.89135	113.89289	0.00000	0.00000	0.00000	0.09843	1,2,6
		1634	114.72777	113.42345	0.00000	0.00000	0.00000	0.10386	1,2,6
		1635	114.56420	112.95401	0.00000	0.00000	0.00000	0.10950	1,2,6
		1636	114.40062	112.48457	0.00000	0.00000	0.00000	0.11535	1,2,6
		1637	114.23704	112.01512	0.00000	0.00000	0.00000	0.12142	1,2,6
		1638	114.07346	111.54568	0.00000	0.00000	0.00000	0.12771	1,2,6
		1639	113.90988	111.07624	0.00000	0.00000	0.00000	0.13424	1,2,6
		1640	113.74630	110.60680	0.00000	0.00000	0.00000	0.14101	1,2,6
		1641	113.29409	110.76428	0.00000	0.00000	0.00000	0.13640	1,2,6
		1642	112.84187	110.92176	0.00000	0.00000	0.00000	0.13190	1,2,6
		1643	112.38966	111.07924	0.00000	0.00000	0.00000	0.12750	1,2,6
		1644	111.93744	111.23671	0.00000	0.00000	0.00000	0.12322	1,2,6
		1645	111.48523	111.39419	0.00000	0.00000	0.00000	0.11903	1,2,6
		1646	111.03301	111.55167	0.00000	0.00000	0.00000	0.11496	1,2,6
		1647	110.58080	111.70915	0.00000	0.00000	0.00000	0.11099	1,2,6
		1648	110.12859	111.86663	0.00000	0.00000	0.00000	0.10712	1,2,6
		1649	109.67637	112.02411	0.00000	0.00000	0.00000	0.10335	1,2,6
		1650	109.22416	112.18159	0.00000	0.00000	0.00000	0.09969	1,2,6
		1651	108.77194	112.33906	0.00000	0.00000	0.00000	0.09613	1,2,6
		1652	108.31973	112.49654	0.00000	0.00000	0.00000	0.09267	1,2,6
		1653	107.86751	112.65402	0.00000	0.00000	0.00000	0.08931	1,2,6
		1654	107.41530	112.81150	0.00000	0.00000	0.00000	0.08604	1,2,6
		1655	107.57967	113.28057	0.00000	0.00000	0.00000	0.08164	1,2,6
		1656	107.74405	113.74964	0.00000	0.00000	0.00000	0.07739	1,2,6
		1657	107.90842	114.21871	0.00000	0.00000	0.00000	0.07327	1,2,6
		1658	108.07280	114.68778	0.00000	0.00000	0.00000	0.06929	1,2,6
		1659	108.23717	115.15685	0.00000	0.00000	0.00000	0.06544	1,2,6
		1660	108.40155	115.62592	0.00000	0.00000	0.00000	0.06171	1,2,6
		1661	108.56592	116.09500	0.00000	0.00000	0.00000	0.05812	1,2,6
		1662	108.73030	116.56407	0.00000	0.00000	0.00000	0.05464	1,2,6
		1663	108.89468	117.03314	0.00000	0.00000	0.00000	0.05128	1,2,6
		1664	109.05905	117.50221	0.00000	0.00000	0.00000	0.04803	1,2,6
		1665	109.22343	117.97128	0.00000	0.00000	0.00000	0.04489	1,2,6
		1666	109.38780	118.44035	0.00000	0.00000	0.00000	0.04187	1,2,6
		1667	109.55218	118.90942	0.00000	0.00000	0.00000	0.03894	1,2,6
		1668	109.71655	119.37849	0.00000	0.00000	0.00000	0.03612	1,2,6
		1669	109.88093	119.84756	0.00000	0.00000	0.00000	0.03340	1,2,6
		1670	110.04530	120.31663	0.00000	0.00000	0.00000	0.03077	1,2,6
		1671	110.20968	120.78570	0.00000	0.00000	0.00000	0.02824	1,2,6
		1672	110.37405	121.25477	0.00000	0.00000	0.00000	0.02579	1,2,6
		1673	110.53843	121.72385	0.00000	0.00000	0.00000	0.02343	1,2,6
		1674	110.70280	122.19292	0.00000	0.00000	0.00000	0.02116	1,2,6
		1675	110.86718	122.66199	0.00000	0.00000	0.00000	0.01897	1,2,6
		1676	111.03155	123.13106	0.00000	0.00000	0.00000	0.01686	1,2,6
		1677	111.19593	123.60013	0.00000	0.00000	0.00000	0.01483	1,2,6
		1678	126.87040	106.75440	0.00000	0.00000	0.00000	0.29766	1,2,6
		1679	126.41078	106.91251	0.00000	0.00000	0.00000	0.29049	1,2,6
		1680	125.95115	107.07062	0.00000	0.00000	0.00000	0.28340	1,2,6
		1681	125.49152	107.22872	0.00000	0.00000	0.00000	0.27641	1,2,6
		1682	125.03190	107.38683	0.00000	0.00000	0.00000	0.26950	1,2,6
		1683	124.57228	107.54494	0.00000	0.00000	0.00000	0.26268	1,2,6
		1684	124.11265	107.70305	0.00000	0.00000	0.00000	0.25595	1,2,6
		1685	123.65302	107.86116	0.00000	0.00000	0.00000	0.24932	1,2,6
		1686	123.19340	108.01927	0.00000	0.00000	0.00000	0.24278	1,2,6
		1687	122.73377	108.17737	0.00000	0.00000	0.00000	0.23633	1,2,6
		1688	122.27415	108.33548	0.00000	0.00000	0.00000	0.22999	1,2,6
		1689	121.81453	108.49359	0.00000	0.00000	0.00000	0.22373	1,2,6
		1690	121.35490	108.65170	0.00000	0.00000	0.00000	0.21758	1,2,6
		1691	121.51257	109.10855	0.00000	0.00000	0.00000	0.20753	1,2,6
		1692	121.67024	109.56541	0.00000	0.00000	0.00000	0.19786	1,2,6
		1693	121.82791	110.02227	0.00000	0.00000	0.00000	0.18856	1,2,6
		1694	121.98558	110.47912	0.00000	0.00000	0.00000	0.17962	1,2,6
		1695	122.14325	110.93597	0.00000	0.00000	0.00000	0.17102	1,2,6
		1696	122.30092	111.39283	0.00000	0.00000	0.00000	0.16275	1,2,6
		1697	122.45859	111.84968	0.00000	0.00000	0.00000	0.15480	1,2,6
		1698	122.61626	112.30654	0.00000	0.00000	0.00000	0.14716	1,2,6
		1699	122.77393	112.76340	0.00000	0.00000	0.00000	0.13981	1,2,6
		1700	122.93160	113.22025	0.00000	0.00000	0.00000	0.13275	1,2,6
		1701	123.08927	113.67710	0.00000	0.00000	0.00000	0.12596	1,2,6
		1702	123.24694	114.13396	0.00000	0.00000	0.00000	0.11943	1,2,6
		1703	123.40461	114.59082	0.00000	0.00000	0.00000	0.11315	1,2,6
		1704	123.56228	115.04767	0.00000	0.00000	0.00000	0.10712	1,2,6
		1705	123.71995	115.50453	0.00000	0.00000	0.00000	0.10132	1,2,6
		1706	123.87762	115.96138	0.00000	0.00000	0.00000	0.09575	1,2,6
		1707	124.03529	116.41823	0.00000	0.00000	0.00000	0.09039	1,2,6
		1708	124.19296	116.87509	0.00000	0.00000	0.00000	0.08525	1,2,6
		1709	124.35063	117.33195	0.00000	0.00000	0.00000	0.08030	1,2,6
		1710	124.50830	117.78880	0.00000	0.00000	0.00000	0.07555	1,2,6
		1711	124.97028	117.63206	0.00000	0.00000	0.00000	0.07799	1,2,6
		1712	125.43227	117.47532	0.00000	0.00000	0.00000	0.08046	1,2,6
		1713	125.89425	117.31857	0.00000	0.00000	0.00000	0.08296	1,2,6
		1714	126.35623	117.16183	0.00000	0.00000	0.00000	0.08550	1,2,6
		1715	126.81822	117.00509	0.00000	0.00000	0.00000	0.08806	1,2,6
		1716	127.28020	116.84835	0.00000	0.00000	0.00000	0.09067	1,2,6
		1717	127.74218	116.69161	0.00000	0.00000	0.00000	0.09330	1,2,6
		1718	128.20417	116.53487	0.00000	0.00000	0.00000	0.09596	1,2,6
		1719	128.66615	116.37812	0.00000	0.00000	0.00000	0.09865	1,2,6
		1720	129.12813	116.22138	0.00000	0.00000	0.00000	0.10138	1,2,6
		1721	129.59012	116.06464	0.00000	0.00000	0.00000	0.10413	1,2,6
		1722	130.05210	115.90790	0.00000	0.00000	0.00000	0.10691	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1723	130.24640	116.47000	0.00000	0.00000	0.00000	0.09956	1,2,6
		1724	130.65443	116.32850	0.00000	0.00000	0.00000	0.10194	1,2,6
		1725	131.06247	116.18700	0.00000	0.00000	0.00000	0.10434	1,2,6
		1726	131.47050	116.04550	0.00000	0.00000	0.00000	0.10676	1,2,6
		1727	131.87853	115.90400	0.00000	0.00000	0.00000	0.10920	1,2,6
		1728	132.28657	115.76250	0.00000	0.00000	0.00000	0.11166	1,2,6
		1729	132.69460	115.62100	0.00000	0.00000	0.00000	0.11413	1,2,6
		1730	133.10263	115.47950	0.00000	0.00000	0.00000	0.11663	1,2,6
		1731	133.51067	115.33800	0.00000	0.00000	0.00000	0.11914	1,2,6
		1732	133.91870	115.19650	0.00000	0.00000	0.00000	0.12167	1,2,6
		1733	134.32673	115.05500	0.00000	0.00000	0.00000	0.12422	1,2,6
		1734	134.73477	114.91350	0.00000	0.00000	0.00000	0.12678	1,2,6
		1735	135.14280	114.77200	0.00000	0.00000	0.00000	0.12936	1,2,6
		1736	135.32920	115.30920	0.00000	0.00000	0.00000	0.12106	1,2,6
		1737	135.76587	115.15775	0.00000	0.00000	0.00000	0.12368	1,2,6
		1738	136.20253	115.00630	0.00000	0.00000	0.00000	0.12631	1,2,6
		1739	136.63920	114.85485	0.00000	0.00000	0.00000	0.12896	1,2,6
		1740	137.07587	114.70340	0.00000	0.00000	0.00000	0.13162	1,2,6
		1741	137.51253	114.55195	0.00000	0.00000	0.00000	0.13430	1,2,6
		1742	137.94920	114.40050	0.00000	0.00000	0.00000	0.13698	1,2,6
		1743	138.38587	114.24905	0.00000	0.00000	0.00000	0.13967	1,2,6
		1744	138.82253	114.09760	0.00000	0.00000	0.00000	0.14238	1,2,6
		1745	139.25920	113.94615	0.00000	0.00000	0.00000	0.14509	1,2,6
		1746	139.69587	113.79470	0.00000	0.00000	0.00000	0.14780	1,2,6
		1747	140.13253	113.64325	0.00000	0.00000	0.00000	0.15053	1,2,6
		1748	140.56920	113.49180	0.00000	0.00000	0.00000	0.15325	1,2,6
		1749	140.75790	114.06100	0.00000	0.00000	0.00000	0.14301	1,2,6
		1750	141.17871	113.91508	0.00000	0.00000	0.00000	0.14548	1,2,6
		1751	141.59952	113.76917	0.00000	0.00000	0.00000	0.14796	1,2,6
		1752	142.02033	113.62325	0.00000	0.00000	0.00000	0.15044	1,2,6
		1753	142.44113	113.47733	0.00000	0.00000	0.00000	0.15291	1,2,6
		1754	142.86194	113.33142	0.00000	0.00000	0.00000	0.15539	1,2,6
		1755	143.28275	113.18550	0.00000	0.00000	0.00000	0.15786	1,2,6
		1756	143.70356	113.03958	0.00000	0.00000	0.00000	0.16033	1,2,6
		1757	144.12437	112.89367	0.00000	0.00000	0.00000	0.16280	1,2,6
		1758	144.54518	112.74775	0.00000	0.00000	0.00000	0.16526	1,2,6
		1759	144.96598	112.60183	0.00000	0.00000	0.00000	0.16771	1,2,6
		1760	145.38679	112.45592	0.00000	0.00000	0.00000	0.17015	1,2,6
		1761	145.80760	112.31000	0.00000	0.00000	0.00000	0.17259	1,2,6
		1762	145.92710	112.67510	0.00000	0.00000	0.00000	0.16515	1,2,6
		1763	146.36303	112.52428	0.00000	0.00000	0.00000	0.16755	1,2,6
		1764	146.79897	112.37345	0.00000	0.00000	0.00000	0.16994	1,2,6
		1765	147.23490	112.22262	0.00000	0.00000	0.00000	0.17232	1,2,6
		1766	147.67083	112.07180	0.00000	0.00000	0.00000	0.17468	1,2,6
		1767	148.10677	111.92097	0.00000	0.00000	0.00000	0.17702	1,2,6
		1768	148.54270	111.77015	0.00000	0.00000	0.00000	0.17934	1,2,6
		1769	148.97863	111.61933	0.00000	0.00000	0.00000	0.18165	1,2,6
		1770	149.41457	111.46850	0.00000	0.00000	0.00000	0.18393	1,2,6
		1771	149.85050	111.31767	0.00000	0.00000	0.00000	0.18618	1,2,6
		1772	150.28643	111.16685	0.00000	0.00000	0.00000	0.18841	1,2,6
		1773	150.72237	111.01602	0.00000	0.00000	0.00000	0.19061	1,2,6
		1774	151.15830	110.86520	0.00000	0.00000	0.00000	0.19279	1,2,6
		1775	150.99728	110.39977	0.00000	0.00000	0.00000	0.20384	1,2,6
		1776	150.83625	109.93434	0.00000	0.00000	0.00000	0.21542	1,2,6
		1777	150.67523	109.46891	0.00000	0.00000	0.00000	0.22756	1,2,6
		1778	150.51420	109.00348	0.00000	0.00000	0.00000	0.24028	1,2,6
		1779	150.35317	108.53805	0.00000	0.00000	0.00000	0.25360	1,2,6
		1780	150.19215	108.07262	0.00000	0.00000	0.00000	0.26756	1,2,6
		1781	150.03113	107.60719	0.00000	0.00000	0.00000	0.28219	1,2,6
		1782	149.87010	107.14176	0.00000	0.00000	0.00000	0.29752	1,2,6
		1783	149.70908	106.67633	0.00000	0.00000	0.00000	0.31359	1,2,6
		1784	149.54805	106.21090	0.00000	0.00000	0.00000	0.33043	1,2,6
		1785	149.38702	105.74547	0.00000	0.00000	0.00000	0.34807	1,2,6
		1786	149.22600	105.28004	0.00000	0.00000	0.00000	0.36657	1,2,6
		1787	149.06498	104.81461	0.00000	0.00000	0.00000	0.38596	1,2,6
		1788	148.90395	104.34918	0.00000	0.00000	0.00000	0.40628	1,2,6
		1789	148.74293	103.88375	0.00000	0.00000	0.00000	0.42758	1,2,6
		1790	148.58190	103.41832	0.00000	0.00000	0.00000	0.44992	1,2,6
		1791	148.42087	102.95289	0.00000	0.00000	0.00000	0.47333	1,2,6
		1792	148.25985	102.48746	0.00000	0.00000	0.00000	0.49789	1,2,6
		1793	148.09883	102.02203	0.00000	0.00000	0.00000	0.52364	1,2,6
		1794	147.93780	101.55660	0.00000	0.00000	0.00000	0.55064	1,2,6
		1795	147.50289	101.71037	0.00000	0.00000	0.00000	0.54387	1,2,6
		1796	147.06798	101.86415	0.00000	0.00000	0.00000	0.53706	1,2,6
		1797	146.63307	102.01793	0.00000	0.00000	0.00000	0.53022	1,2,6
		1798	146.19817	102.17170	0.00000	0.00000	0.00000	0.52334	1,2,6
		1799	145.76326	102.32547	0.00000	0.00000	0.00000	0.51645	1,2,6
		1800	145.32835	102.47925	0.00000	0.00000	0.00000	0.50953	1,2,6
		1801	144.89344	102.63303	0.00000	0.00000	0.00000	0.50259	1,2,6
		1802	144.45853	102.78680	0.00000	0.00000	0.00000	0.49564	1,2,6
		1803	144.02363	102.94057	0.00000	0.00000	0.00000	0.48867	1,2,6
		1804	143.58872	103.09435	0.00000	0.00000	0.00000	0.48170	1,2,6
		1805	143.15381	103.24813	0.00000	0.00000	0.00000	0.47473	1,2,6
		1806	142.71890	103.40190	0.00000	0.00000	0.00000	0.46775	1,2,6
		1807	137.49760	104.66790	0.00000	0.00000	0.00000	0.40937	1,2,6
		1808	137.91837	104.52185	0.00000	0.00000	0.00000	0.41621	1,2,6
		1809	138.33915	104.37580	0.00000	0.00000	0.00000	0.42307	1,2,6
		1810	138.75993	104.22975	0.00000	0.00000	0.00000	0.42995	1,2,6
		1811	139.18070	104.08370	0.00000	0.00000	0.00000	0.43685	1,2,6
		1812	139.60147	103.93765	0.00000	0.00000	0.00000	0.44378	1,2,6
		1813	140.02225	103.79160	0.00000	0.00000	0.00000	0.45071	1,2,6
		1814	140.44303	103.64555	0.00000	0.00000	0.00000	0.45767	1,2,6
		1815	140.86380	103.49950	0.00000	0.00000	0.00000	0.46463	1,2,6
		1816	141.28457	103.35345	0.00000	0.00000	0.00000	0.47160	1,2,6
		1817	141.70535	103.20740	0.00000	0.00000	0.00000	0.47859	1,2,6
		1818	142.12613	103.06135	0.00000	0.00000	0.00000	0.48557	1,2,6
		1819	142.54690	102.91530	0.00000	0.00000	0.00000	0.49256	1,2,6
		1820	142.70055	103.35893	0.00000	0.00000	0.00000	0.46990	1,2,6
		1821	142.85419	103.80255	0.00000	0.00000	0.00000	0.44822	1,2,6
		1822	143.00784	104.24618	0.00000	0.00000	0.00000	0.42746	1,2,6
		1823	143.16148	104.68981	0.00000	0.00000	0.00000	0.40760	1,2,6
		1824	143.31513	105.13344	0.00000	0.00000	0.00000	0.38859	1,2,6
		1825	143.46877	105.57706	0.00000	0.00000	0.00000	0.37039	1,2,6
		1826	143.62242	106.02069	0.00000	0.00000	0.00000	0.35297	1,2,6
		1827	143.77606	106.46432	0.00000	0.00000	0.00000	0.33630	1,2,6
		1828	143.92971	106.90795	0.00000	0.00000	0.00000	0.32033	1,2,6
		1829	144.08335	107.35157	0.00000	0.00000	0.00000	0.30504	1,2,6
		1830	144.23700	107.79520	0.00000	0.00000	0.00000	0.29041	1,2,6
		1831	144.39065	108.23883	0.00000	0.00000	0.00000	0.27640	1,2,6
		1832	144.54429	108.68245	0.00000	0.00000	0.00000	0.26298	1,2,6
		1833	144.69794	109.12608	0.00000	0.00000	0.00000	0.25013	1,2,6
		1834	144.85158	109.56971	0.00000	0.00000	0.00000	0.23783	1,2,6
		1835	145.00523	110.01334	0.00000	0.00000	0.00000	0.22605	1,2,6
		1836	145.15887	110.45696	0.00000	0.00000	0.00000	0.21477	1,2,6
		1837	145.31252	110.90059	0.00000	0.00000	0.00000	0.20397	1,2,6
		1838	145.46616	111.34422	0.00000	0.00000	0.00000	0.19362	1,2,6
		1839	145.61981	111.78785	0.00000	0.00000	0.00000	0.18372	1,2,6
		1840	145.77345	112.23147	0.00000	0.00000	0.00000	0.17423	1,2,6
		1841	140.60286	113.61431	0.00000	0.00000	0.00000	0.15100	1,2,6
		1842	140.44782	113.16762	0.00000	0.00000	0.00000	0.15934	1,2,6
		1843	140.29278	112.72093	0.00000	0.00000	0.00000	0.16805	1,2,6
		1844	140.13774	112.27424	0.00000	0.00000	0.00000	0.17713	1,2,6
		1845	139.98270	111.82755	0.00000	0.00000	0.00000	0.18661	1,2,6
		1846	139.82765	111.38085	0.00000	0.00000	0.00000	0.19650	1,2,6
		1847	139.67261	110.93416	0.00000	0.00000	0.00000	0.20682	1,2,6
		1848	139.51757	110.48747	0.00000	0.00000	0.00000	0.21759	1,2,6
		1849	139.36253	110.04078	0.00000	0.00000	0.00000	0.22883	1,2,6
		1850	139.20749	109.59409	0.00000	0.00000	0.00000	0.24056	1,2,6
		1851	139.05245	109.14740	0.00000	0.00000	0.00000	0.25280	1,2,6
		1852	138.89741	108.70071	0.00000	0.00000	0.00000	0.26557	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1853	138.74237	108.25402	0.00000	0.00000	0.00000	0.27890	1,2,6
		1854	138.58733	107.80733	0.00000	0.00000	0.00000	0.29281	1,2,6
		1855	138.43229	107.36064	0.00000	0.00000	0.00000	0.30733	1,2,6
		1856	138.27725	106.91395	0.00000	0.00000	0.00000	0.32249	1,2,6
		1857	138.12220	106.46725	0.00000	0.00000	0.00000	0.33831	1,2,6
		1858	137.96716	106.02056	0.00000	0.00000	0.00000	0.35482	1,2,6
		1859	137.81212	105.57387	0.00000	0.00000	0.00000	0.37205	1,2,6
		1860	137.65708	105.12718	0.00000	0.00000	0.00000	0.39005	1,2,6
		1861	137.50204	104.68049	0.00000	0.00000	0.00000	0.40883	1,2,6
		1862	137.34700	104.23380	0.00000	0.00000	0.00000	0.42845	1,2,6
		1863	136.91272	104.38802	0.00000	0.00000	0.00000	0.42093	1,2,6
		1864	136.47843	104.54223	0.00000	0.00000	0.00000	0.41345	1,2,6
		1865	136.04415	104.69645	0.00000	0.00000	0.00000	0.40601	1,2,6
		1866	135.60987	104.85067	0.00000	0.00000	0.00000	0.39861	1,2,6
		1867	135.17558	105.00488	0.00000	0.00000	0.00000	0.39125	1,2,6
		1868	134.74130	105.15910	0.00000	0.00000	0.00000	0.38394	1,2,6
		1869	134.30702	105.31332	0.00000	0.00000	0.00000	0.37668	1,2,6
		1870	133.87273	105.46753	0.00000	0.00000	0.00000	0.36946	1,2,6
		1871	133.43845	105.62175	0.00000	0.00000	0.00000	0.36230	1,2,6
		1872	133.00417	105.77597	0.00000	0.00000	0.00000	0.35518	1,2,6
		1873	132.56988	105.93018	0.00000	0.00000	0.00000	0.34813	1,2,6
		1874	132.13560	106.08440	0.00000	0.00000	0.00000	0.34112	1,2,6
		1875	127.09450	107.39930	0.00000	0.00000	0.00000	0.27847	1,2,6
		1876	127.50351	107.25771	0.00000	0.00000	0.00000	0.28454	1,2,6
		1877	127.91252	107.11612	0.00000	0.00000	0.00000	0.29066	1,2,6
		1878	128.32153	106.97452	0.00000	0.00000	0.00000	0.29685	1,2,6
		1879	128.73053	106.83293	0.00000	0.00000	0.00000	0.30309	1,2,6
		1880	129.13954	106.69134	0.00000	0.00000	0.00000	0.30939	1,2,6
		1881	129.54855	106.54975	0.00000	0.00000	0.00000	0.31575	1,2,6
		1882	129.95756	106.40816	0.00000	0.00000	0.00000	0.32217	1,2,6
		1883	130.36657	106.26657	0.00000	0.00000	0.00000	0.32864	1,2,6
		1884	130.77558	106.12498	0.00000	0.00000	0.00000	0.33516	1,2,6
		1885	131.18458	105.98338	0.00000	0.00000	0.00000	0.34174	1,2,6
		1886	131.59359	105.84179	0.00000	0.00000	0.00000	0.34836	1,2,6
		1887	132.00260	105.70020	0.00000	0.00000	0.00000	0.35504	1,2,6
		1888	132.15381	106.13697	0.00000	0.00000	0.00000	0.33926	1,2,6
		1889	132.30502	106.57375	0.00000	0.00000	0.00000	0.32411	1,2,6
		1890	132.45623	107.01052	0.00000	0.00000	0.00000	0.30957	1,2,6
		1891	132.60744	107.44729	0.00000	0.00000	0.00000	0.29561	1,2,6
		1892	132.75865	107.88406	0.00000	0.00000	0.00000	0.28221	1,2,6
		1893	132.90985	108.32084	0.00000	0.00000	0.00000	0.26935	1,2,6
		1894	133.06106	108.75761	0.00000	0.00000	0.00000	0.25700	1,2,6
		1895	133.21227	109.19438	0.00000	0.00000	0.00000	0.24514	1,2,6
		1896	133.36348	109.63115	0.00000	0.00000	0.00000	0.23375	1,2,6
		1897	133.51469	110.06793	0.00000	0.00000	0.00000	0.22282	1,2,6
		1898	133.66590	110.50470	0.00000	0.00000	0.00000	0.21232	1,2,6
		1899	133.81711	110.94147	0.00000	0.00000	0.00000	0.20224	1,2,6
		1900	133.96832	111.37825	0.00000	0.00000	0.00000	0.19256	1,2,6
		1901	134.11953	111.81502	0.00000	0.00000	0.00000	0.18327	1,2,6
		1902	134.27074	112.25179	0.00000	0.00000	0.00000	0.17434	1,2,6
		1903	134.42195	112.68856	0.00000	0.00000	0.00000	0.16577	1,2,6
		1904	134.57315	113.12534	0.00000	0.00000	0.00000	0.15754	1,2,6
		1905	134.72436	113.56211	0.00000	0.00000	0.00000	0.14964	1,2,6
		1906	134.87557	113.99888	0.00000	0.00000	0.00000	0.14205	1,2,6
		1907	135.02678	114.43565	0.00000	0.00000	0.00000	0.13477	1,2,6
		1908	135.17799	114.87243	0.00000	0.00000	0.00000	0.12777	1,2,6
		1909	130.09295	116.02838	0.00000	0.00000	0.00000	0.10530	1,2,6
		1910	129.93949	115.58676	0.00000	0.00000	0.00000	0.11127	1,2,6
		1911	129.78604	115.14515	0.00000	0.00000	0.00000	0.11749	1,2,6
		1912	129.63258	114.70353	0.00000	0.00000	0.00000	0.12396	1,2,6
		1913	129.47913	114.26191	0.00000	0.00000	0.00000	0.13069	1,2,6
		1914	129.32567	113.82029	0.00000	0.00000	0.00000	0.13770	1,2,6
		1915	129.17222	113.37867	0.00000	0.00000	0.00000	0.14499	1,2,6
		1916	129.01876	112.93705	0.00000	0.00000	0.00000	0.15258	1,2,6
		1917	128.86531	112.49544	0.00000	0.00000	0.00000	0.16048	1,2,6
		1918	128.71185	112.05382	0.00000	0.00000	0.00000	0.16870	1,2,6
		1919	128.55840	111.61220	0.00000	0.00000	0.00000	0.17725	1,2,6
		1920	128.40495	111.17058	0.00000	0.00000	0.00000	0.18615	1,2,6
		1921	128.25149	110.72896	0.00000	0.00000	0.00000	0.19541	1,2,6
		1922	128.09804	110.28735	0.00000	0.00000	0.00000	0.20504	1,2,6
		1923	127.94458	109.84573	0.00000	0.00000	0.00000	0.21507	1,2,6
		1924	127.79113	109.40411	0.00000	0.00000	0.00000	0.22551	1,2,6
		1925	127.63767	108.96249	0.00000	0.00000	0.00000	0.23637	1,2,6
		1926	127.48422	108.52087	0.00000	0.00000	0.00000	0.24767	1,2,6
		1927	127.33076	108.07925	0.00000	0.00000	0.00000	0.25942	1,2,6
		1928	127.17731	107.63764	0.00000	0.00000	0.00000	0.27166	1,2,6
		1929	127.02385	107.19602	0.00000	0.00000	0.00000	0.28440	1,2,6
		1930	150.73130	109.63110	0.00000	0.00000	0.00000	0.22327	1,2,6
		1931	151.15679	109.48174	0.00000	0.00000	0.00000	0.22574	1,2,6
		1932	151.58228	109.33238	0.00000	0.00000	0.00000	0.22818	1,2,6
		1933	152.00777	109.18302	0.00000	0.00000	0.00000	0.23059	1,2,6
		1934	152.43326	109.03366	0.00000	0.00000	0.00000	0.23296	1,2,6
		1935	152.85875	108.88430	0.00000	0.00000	0.00000	0.23529	1,2,6
		1936	153.28424	108.73494	0.00000	0.00000	0.00000	0.23758	1,2,6
		1937	153.70973	108.58558	0.00000	0.00000	0.00000	0.23982	1,2,6
		1938	154.13522	108.43622	0.00000	0.00000	0.00000	0.24202	1,2,6
		1939	154.56071	108.28686	0.00000	0.00000	0.00000	0.24417	1,2,6
		1940	154.98620	108.13750	0.00000	0.00000	0.00000	0.24627	1,2,6
		1941	154.84277	107.71556	0.00000	0.00000	0.00000	0.25878	1,2,6
		1942	154.69935	107.29362	0.00000	0.00000	0.00000	0.27185	1,2,6
		1943	154.55593	106.87167	0.00000	0.00000	0.00000	0.28550	1,2,6
		1944	154.41250	106.44973	0.00000	0.00000	0.00000	0.29976	1,2,6
		1945	154.26907	106.02779	0.00000	0.00000	0.00000	0.31464	1,2,6
		1946	154.12565	105.60585	0.00000	0.00000	0.00000	0.33020	1,2,6
		1947	153.98222	105.18391	0.00000	0.00000	0.00000	0.34644	1,2,6
		1948	153.83880	104.76197	0.00000	0.00000	0.00000	0.36341	1,2,6
		1949	153.69538	104.34002	0.00000	0.00000	0.00000	0.38114	1,2,6
		1950	153.55195	103.91808	0.00000	0.00000	0.00000	0.39966	1,2,6
		1951	153.40852	103.49614	0.00000	0.00000	0.00000	0.41902	1,2,6
		1952	153.26510	103.07420	0.00000	0.00000	0.00000	0.43924	1,2,6
		1953	152.83663	103.22379	0.00000	0.00000	0.00000	0.43527	1,2,6
		1954	152.40816	103.37338	0.00000	0.00000	0.00000	0.43122	1,2,6
		1955	151.97969	103.52297	0.00000	0.00000	0.00000	0.42709	1,2,6
		1956	151.55122	103.67256	0.00000	0.00000	0.00000	0.42290	1,2,6
		1957	151.12275	103.82215	0.00000	0.00000	0.00000	0.41864	1,2,6
		1958	150.69428	103.97174	0.00000	0.00000	0.00000	0.41432	1,2,6
		1959	150.26581	104.12133	0.00000	0.00000	0.00000	0.40994	1,2,6
		1960	149.83734	104.27092	0.00000	0.00000	0.00000	0.40552	1,2,6
		1961	149.40887	104.42051	0.00000	0.00000	0.00000	0.40104	1,2,6
		1962	148.98040	104.57010	0.00000	0.00000	0.00000	0.39651	1,2,6
		1963	147.70060	95.28400	0.00000	0.00000	0.00000	1.06212	1,2,6
		1964	148.10013	95.31152	0.00000	0.00000	0.00000	1.05561	1,2,6
		1965	148.49966	95.33904	0.00000	0.00000	0.00000	1.04894	1,2,6
		1966	148.89919	95.36656	0.00000	0.00000	0.00000	1.04211	1,2,6
		1967	149.29872	95.39408	0.00000	0.00000	0.00000	1.03512	1,2,6
		1968	149.69825	95.42160	0.00000	0.00000	0.00000	1.02796	1,2,6
		1969	150.09778	95.44912	0.00000	0.00000	0.00000	1.02065	1,2,6
		1970	150.49731	95.47664	0.00000	0.00000	0.00000	1.01317	1,2,6
		1971	150.89684	95.50416	0.00000	0.00000	0.00000	1.00553	1,2,6
		1972	151.29637	95.53168	0.00000	0.00000	0.00000	0.99773	1,2,6
		1973	151.69590	95.55920	0.00000	0.00000	0.00000	0.98977	1,2,6
		1974	151.68720	95.66780	0.00000	0.00000	0.00000	0.97864	1,2,6
		1975	151.67850	95.77640	0.00000	0.00000	0.00000	0.96764	1,2,6
		1976	152.15639	95.81014	0.00000	0.00000	0.00000	0.95804	1,2,6
		1977	152.63428	95.84388	0.00000	0.00000	0.00000	0.94823	1,2,6
		1978	153.11217	95.87762	0.00000	0.00000	0.00000	0.93819	1,2,6
		1979	153.59006	95.91136	0.00000	0.00000	0.00000	0.92794	1,2,6
		1980	154.06795	95.94510	0.00000	0.00000	0.00000	0.91747	1,2,6
		1981	154.54584	95.97884	0.00000	0.00000	0.00000	0.90679	1,2,6
		1982	155.02373	96.01258	0.00000	0.00000	0.00000	0.89590	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		1983	155.50162	96.04632	0.00000	0.00000	0.00000	0.88481	1,2,6
		1984	155.97951	96.08006	0.00000	0.00000	0.00000	0.87351	1,2,6
		1985	156.45740	96.11380	0.00000	0.00000	0.00000	0.86201	1,2,6
		1986	156.48983	95.65445	0.00000	0.00000	0.00000	0.90425	1,2,6
		1987	156.52226	95.19510	0.00000	0.00000	0.00000	0.94865	1,2,6
		1988	156.55469	94.73575	0.00000	0.00000	0.00000	0.99534	1,2,6
		1989	156.58711	94.27640	0.00000	0.00000	0.00000	1.04445	1,2,6
		1990	156.61954	93.81705	0.00000	0.00000	0.00000	1.09615	1,2,6
		1991	156.65197	93.35770	0.00000	0.00000	0.00000	1.15060	1,2,6
		1992	156.68440	92.89835	0.00000	0.00000	0.00000	1.20796	1,2,6
		1993	156.71683	92.43900	0.00000	0.00000	0.00000	1.26844	1,2,6
		1994	156.74926	91.97965	0.00000	0.00000	0.00000	1.33225	1,2,6
		1995	156.78169	91.52030	0.00000	0.00000	0.00000	1.39960	1,2,6
		1996	156.81411	91.06095	0.00000	0.00000	0.00000	1.47076	1,2,6
		1997	156.84654	90.60160	0.00000	0.00000	0.00000	1.54598	1,2,6
		1998	156.87897	90.14225	0.00000	0.00000	0.00000	1.62559	1,2,6
		1999	156.91140	89.68290	0.00000	0.00000	0.00000	1.70989	1,2,6
		2000	157.16432	89.70025	0.00000	0.00000	0.00000	1.69746	1,2,6
		2001	157.41725	89.71760	0.00000	0.00000	0.00000	1.68489	1,2,6
		2002	157.67018	89.73495	0.00000	0.00000	0.00000	1.67217	1,2,6
		2003	157.92310	89.75230	0.00000	0.00000	0.00000	1.65931	1,2,6
		2004	157.95989	89.29643	0.00000	0.00000	0.00000	1.74510	1,2,6
		2005	157.99667	88.84056	0.00000	0.00000	0.00000	1.83610	1,2,6
		2006	158.03346	88.38469	0.00000	0.00000	0.00000	1.93274	1,2,6
		2007	158.07024	87.92881	0.00000	0.00000	0.00000	2.03549	1,2,6
		2008	158.10703	87.47294	0.00000	0.00000	0.00000	2.14490	1,2,6
		2009	158.14381	87.01707	0.00000	0.00000	0.00000	2.26156	1,2,6
		2010	158.18060	86.56120	0.00000	0.00000	0.00000	2.38616	1,2,6
		2011	158.21739	86.10533	0.00000	0.00000	0.00000	2.51950	1,2,6
		2012	158.25417	85.64946	0.00000	0.00000	0.00000	2.66245	1,2,6
		2013	158.29096	85.19359	0.00000	0.00000	0.00000	2.81607	1,2,6
		2014	158.32774	84.73771	0.00000	0.00000	0.00000	2.98156	1,2,6
		2015	158.36453	84.28184	0.00000	0.00000	0.00000	3.16035	1,2,6
		2016	158.40131	83.82597	0.00000	0.00000	0.00000	3.35414	1,2,6
		2017	158.43810	83.37010	0.00000	0.00000	0.00000	3.56496	1,2,6
		2018	158.01966	83.33634	0.00000	0.00000	0.00000	3.61349	1,2,6
		2019	157.60122	83.30258	0.00000	0.00000	0.00000	3.66093	1,2,6
		2020	157.18277	83.26883	0.00000	0.00000	0.00000	3.70732	1,2,6
		2021	156.76433	83.23507	0.00000	0.00000	0.00000	3.75268	1,2,6
		2022	156.34589	83.20131	0.00000	0.00000	0.00000	3.79706	1,2,6
		2023	155.92745	83.16755	0.00000	0.00000	0.00000	3.84048	1,2,6
		2024	155.50901	83.13379	0.00000	0.00000	0.00000	3.88299	1,2,6
		2025	155.09057	83.10003	0.00000	0.00000	0.00000	3.92462	1,2,6
		2026	154.67212	83.06628	0.00000	0.00000	0.00000	3.96541	1,2,6
		2027	154.25368	83.03252	0.00000	0.00000	0.00000	4.00537	1,2,6
		2028	153.83524	82.99876	0.00000	0.00000	0.00000	4.04456	1,2,6
		2029	153.41680	82.96500	0.00000	0.00000	0.00000	4.08299	1,2,6
		2030	153.40550	83.10530	0.00000	0.00000	0.00000	4.00645	1,2,6
		2031	153.39420	83.24560	0.00000	0.00000	0.00000	3.93196	1,2,6
		2032	152.92587	83.21647	0.00000	0.00000	0.00000	3.96792	1,2,6
		2033	152.45755	83.18733	0.00000	0.00000	0.00000	4.00295	1,2,6
		2034	151.98923	83.15820	0.00000	0.00000	0.00000	4.03709	1,2,6
		2035	151.52090	83.12907	0.00000	0.00000	0.00000	4.07038	1,2,6
		2036	151.05257	83.09993	0.00000	0.00000	0.00000	4.10284	1,2,6
		2037	150.58425	83.07080	0.00000	0.00000	0.00000	4.13452	1,2,6
		2038	150.11593	83.04167	0.00000	0.00000	0.00000	4.16544	1,2,6
		2039	149.64760	83.01253	0.00000	0.00000	0.00000	4.19565	1,2,6
		2040	149.17927	82.98340	0.00000	0.00000	0.00000	4.22516	1,2,6
		2041	148.71095	82.95427	0.00000	0.00000	0.00000	4.25401	1,2,6
		2042	148.24263	82.92513	0.00000	0.00000	0.00000	4.28222	1,2,6
		2043	147.77430	82.89600	0.00000	0.00000	0.00000	4.30983	1,2,6
		2044	147.74430	83.27646	0.00000	0.00000	0.00000	4.09877	1,2,6
		2045	147.71430	83.65693	0.00000	0.00000	0.00000	3.90205	1,2,6
		2046	147.68430	84.03739	0.00000	0.00000	0.00000	3.71816	1,2,6
		2047	147.65430	84.41785	0.00000	0.00000	0.00000	3.54580	1,2,6
		2048	147.62430	84.79831	0.00000	0.00000	0.00000	3.38389	1,2,6
		2049	147.59430	85.17878	0.00000	0.00000	0.00000	3.23148	1,2,6
		2050	147.56430	85.55924	0.00000	0.00000	0.00000	3.08775	1,2,6
		2051	147.53430	85.93970	0.00000	0.00000	0.00000	2.95201	1,2,6
		2052	147.99485	85.97128	0.00000	0.00000	0.00000	2.93267	1,2,6
		2053	148.45540	86.00285	0.00000	0.00000	0.00000	2.91285	1,2,6
		2054	148.91595	86.03442	0.00000	0.00000	0.00000	2.89253	1,2,6
		2055	149.37650	86.06600	0.00000	0.00000	0.00000	2.87170	1,2,6
		2056	149.34380	86.54298	0.00000	0.00000	0.00000	2.71606	1,2,6
		2057	149.31110	87.01997	0.00000	0.00000	0.00000	2.57059	1,2,6
		2058	149.27840	87.49695	0.00000	0.00000	0.00000	2.43440	1,2,6
		2059	149.24570	87.97393	0.00000	0.00000	0.00000	2.30670	1,2,6
		2060	149.21300	88.45092	0.00000	0.00000	0.00000	2.18679	1,2,6
		2061	149.18030	88.92790	0.00000	0.00000	0.00000	2.07404	1,2,6
		2062	148.92310	88.90538	0.00000	0.00000	0.00000	2.08369	1,2,6
		2063	148.66590	88.88285	0.00000	0.00000	0.00000	2.09324	1,2,6
		2064	148.40870	88.86033	0.00000	0.00000	0.00000	2.10266	1,2,6
		2065	148.15150	88.83780	0.00000	0.00000	0.00000	2.11197	1,2,6
		2066	148.11929	89.29824	0.00000	0.00000	0.00000	2.00757	1,2,6
		2067	148.08709	89.75869	0.00000	0.00000	0.00000	1.90898	1,2,6
		2068	148.05488	90.21913	0.00000	0.00000	0.00000	1.81581	1,2,6
		2069	148.02267	90.67957	0.00000	0.00000	0.00000	1.72769	1,2,6
		2070	147.99046	91.14001	0.00000	0.00000	0.00000	1.64427	1,2,6
		2071	147.95826	91.60046	0.00000	0.00000	0.00000	1.56526	1,2,6
		2072	147.92605	92.06090	0.00000	0.00000	0.00000	1.49036	1,2,6
		2073	147.89384	92.52134	0.00000	0.00000	0.00000	1.41932	1,2,6
		2074	147.86164	92.98179	0.00000	0.00000	0.00000	1.35191	1,2,6
		2075	147.82943	93.44223	0.00000	0.00000	0.00000	1.28790	1,2,6
		2076	147.79722	93.90267	0.00000	0.00000	0.00000	1.22710	1,2,6
		2077	147.76501	94.36311	0.00000	0.00000	0.00000	1.16932	1,2,6
		2078	147.73281	94.82356	0.00000	0.00000	0.00000	1.11437	1,2,6
		2079	149.66150	88.97496	0.00000	0.00000	0.00000	2.05453	1,2,6
		2080	150.14270	89.02201	0.00000	0.00000	0.00000	2.03462	1,2,6
		2081	150.62390	89.06907	0.00000	0.00000	0.00000	2.01432	1,2,6
		2082	151.10510	89.11612	0.00000	0.00000	0.00000	1.99360	1,2,6
		2083	151.58630	89.16318	0.00000	0.00000	0.00000	1.97247	1,2,6
		2084	152.06750	89.21024	0.00000	0.00000	0.00000	1.95093	1,2,6
		2085	152.54870	89.25729	0.00000	0.00000	0.00000	1.92895	1,2,6
		2086	153.02990	89.30435	0.00000	0.00000	0.00000	1.90655	1,2,6
		2087	153.51110	89.35141	0.00000	0.00000	0.00000	1.88371	1,2,6
		2088	153.99230	89.39846	0.00000	0.00000	0.00000	1.86044	1,2,6
		2089	154.47350	89.44552	0.00000	0.00000	0.00000	1.83672	1,2,6
		2090	154.95470	89.49258	0.00000	0.00000	0.00000	1.81255	1,2,6
		2091	155.43590	89.53963	0.00000	0.00000	0.00000	1.78794	1,2,6
		2092	155.91710	89.58669	0.00000	0.00000	0.00000	1.76289	1,2,6
		2093	156.39830	89.63374	0.00000	0.00000	0.00000	1.73738	1,2,6
		2094	156.87950	89.68080	0.00000	0.00000	0.00000	1.71143	1,2,6
		2095	157.04370	132.95660	0.00000	0.00000	0.00000	-0.01113	1,2,6
		2096	157.45751	132.74754	0.00000	0.00000	0.00000	-0.01080	1,2,6
		2097	157.87132	132.53848	0.00000	0.00000	0.00000	-0.01047	1,2,6
		2098	158.28512	132.32941	0.00000	0.00000	0.00000	-0.01014	1,2,6
		2099	158.69893	132.12035	0.00000	0.00000	0.00000	-0.00981	1,2,6
		2100	159.11274	131.91129	0.00000	0.00000	0.00000	-0.00947	1,2,6
		2101	159.52655	131.70222	0.00000	0.00000	0.00000	-0.00914	1,2,6
		2102	159.94036	131.49316	0.00000	0.00000	0.00000	-0.00881	1,2,6
		2103	160.35417	131.28410	0.00000	0.00000	0.00000	-0.00848	1,2,6
		2104	160.76798	131.07504	0.00000	0.00000	0.00000	-0.00816	1,2,6
		2105	161.18178	130.86597	0.00000	0.00000	0.00000	-0.00783	1,2,6
		2106	161.59559	130.65691	0.00000	0.00000	0.00000	-0.00750	1,2,6
		2107	162.00940	130.44785	0.00000	0.00000	0.00000	-0.00718	1,2,6
		2108	162.42321	130.23879	0.00000	0.00000	0.00000	-0.00686	1,2,6
		2109	162.83702	130.02973	0.00000	0.00000	0.00000	-0.00654	1,2,6
		2110	163.25082	129.82066	0.00000	0.00000	0.00000	-0.00622	1,2,6
		2111	163.66463	129.61160	0.00000	0.00000	0.00000	-0.00590	1,2,6
		2112	164.07844	129.40254	0.00000	0.00000	0.00000	-0.00559	1,2,6

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2113	164.49225	129.19348	0.00000	0.00000	0.00000	-0.00528	1,2,6
		2114	164.90606	128.98441	0.00000	0.00000	0.00000	-0.00497	1,2,6
		2115	165.31987	128.77535	0.00000	0.00000	0.00000	-0.00467	1,2,6
		2116	165.73368	128.56629	0.00000	0.00000	0.00000	-0.00437	1,2,6
		2117	166.14748	128.35722	0.00000	0.00000	0.00000	-0.00407	1,2,6
		2118	166.56129	128.14816	0.00000	0.00000	0.00000	-0.00378	1,2,6
		2119	166.97510	127.93910	0.00000	0.00000	0.00000	-0.00350	1,2,6
		2120	166.97510	127.46931	0.00000	0.00000	0.00000	-0.00207	1,2,6
		2121	166.97510	126.99953	0.00000	0.00000	0.00000	-0.00057	1,2,6
		2122	166.97510	126.52974	0.00000	0.00000	0.00000	0.00101	1,2,6
		2123	166.97510	126.05995	0.00000	0.00000	0.00000	0.00265	1,2,6
		2124	166.97510	125.59016	0.00000	0.00000	0.00000	0.00438	1,2,6
		2125	166.97510	125.12037	0.00000	0.00000	0.00000	0.00619	1,2,6
		2126	166.97510	124.65059	0.00000	0.00000	0.00000	0.00808	1,2,6
		2127	166.97510	124.18080	0.00000	0.00000	0.00000	0.01006	1,2,6
		2128	166.75082	123.73688	0.00000	0.00000	0.00000	0.01231	1,2,6
		2129	166.52654	123.29296	0.00000	0.00000	0.00000	0.01468	1,2,6
		2130	166.30227	122.84903	0.00000	0.00000	0.00000	0.01717	1,2,6
		2131	166.07799	122.40511	0.00000	0.00000	0.00000	0.01978	1,2,6
		2132	165.85371	121.96119	0.00000	0.00000	0.00000	0.02253	1,2,6
		2133	165.62943	121.51727	0.00000	0.00000	0.00000	0.02542	1,2,6
		2134	165.40516	121.07334	0.00000	0.00000	0.00000	0.02845	1,2,6
		2135	165.18088	120.62942	0.00000	0.00000	0.00000	0.03163	1,2,6
		2136	164.95660	120.18550	0.00000	0.00000	0.00000	0.03497	1,2,6
		2137	164.73232	119.74158	0.00000	0.00000	0.00000	0.03848	1,2,6
		2138	164.50804	119.29766	0.00000	0.00000	0.00000	0.04216	1,2,6
		2139	164.28377	118.85373	0.00000	0.00000	0.00000	0.04603	1,2,6
		2140	164.05949	118.40981	0.00000	0.00000	0.00000	0.05009	1,2,6
		2141	163.83521	117.96589	0.00000	0.00000	0.00000	0.05434	1,2,6
		2142	163.61093	117.52197	0.00000	0.00000	0.00000	0.05881	1,2,6
		2143	163.38666	117.07804	0.00000	0.00000	0.00000	0.06350	1,2,6
		2144	163.16238	116.63412	0.00000	0.00000	0.00000	0.06842	1,2,6
		2145	162.93810	116.19020	0.00000	0.00000	0.00000	0.07358	1,2,6
		2146	162.50474	116.40034	0.00000	0.00000	0.00000	0.07257	1,2,6
		2147	162.07139	116.61047	0.00000	0.00000	0.00000	0.07155	1,2,6
		2148	161.63803	116.82061	0.00000	0.00000	0.00000	0.07050	1,2,6
		2149	161.20468	117.03075	0.00000	0.00000	0.00000	0.06944	1,2,6
		2150	160.77132	117.24089	0.00000	0.00000	0.00000	0.06836	1,2,6
		2151	160.33796	117.45103	0.00000	0.00000	0.00000	0.06726	1,2,6
		2152	159.90461	117.66116	0.00000	0.00000	0.00000	0.06615	1,2,6
		2153	159.47125	117.87130	0.00000	0.00000	0.00000	0.06502	1,2,6
		2154	159.03789	118.08144	0.00000	0.00000	0.00000	0.06388	1,2,6
		2155	158.60454	118.29157	0.00000	0.00000	0.00000	0.06272	1,2,6
		2156	158.17118	118.50171	0.00000	0.00000	0.00000	0.06156	1,2,6
		2157	157.73782	118.71185	0.00000	0.00000	0.00000	0.06038	1,2,6
		2158	157.30447	118.92199	0.00000	0.00000	0.00000	0.05919	1,2,6
		2159	156.87111	119.13213	0.00000	0.00000	0.00000	0.05800	1,2,6
		2160	156.43776	119.34226	0.00000	0.00000	0.00000	0.05680	1,2,6
		2161	156.00440	119.55240	0.00000	0.00000	0.00000	0.05559	1,2,6
		2162	156.20647	119.96402	0.00000	0.00000	0.00000	0.05170	1,2,6
		2163	156.40854	120.37564	0.00000	0.00000	0.00000	0.04796	1,2,6
		2164	156.61061	120.78726	0.00000	0.00000	0.00000	0.04439	1,2,6
		2165	156.81268	121.19888	0.00000	0.00000	0.00000	0.04096	1,2,6
		2166	157.01474	121.61049	0.00000	0.00000	0.00000	0.03768	1,2,6
		2167	157.21681	122.02211	0.00000	0.00000	0.00000	0.03454	1,2,6
		2168	157.41888	122.43373	0.00000	0.00000	0.00000	0.03153	1,2,6
		2169	157.62095	122.84535	0.00000	0.00000	0.00000	0.02865	1,2,6
		2170	157.82302	123.25697	0.00000	0.00000	0.00000	0.02589	1,2,6
		2171	158.02509	123.66859	0.00000	0.00000	0.00000	0.02325	1,2,6
		2172	158.22716	124.08021	0.00000	0.00000	0.00000	0.02072	1,2,6
		2173	158.42923	124.49183	0.00000	0.00000	0.00000	0.01831	1,2,6
		2174	158.63129	124.90344	0.00000	0.00000	0.00000	0.01599	1,2,6
		2175	158.83336	125.31506	0.00000	0.00000	0.00000	0.01378	1,2,6
		2176	159.03543	125.72668	0.00000	0.00000	0.00000	0.01167	1,2,6
		2177	159.23750	126.13830	0.00000	0.00000	0.00000	0.00964	1,2,6
		2178	158.79330	126.35637	0.00000	0.00000	0.00000	0.00906	1,2,6
		2179	158.34910	126.57444	0.00000	0.00000	0.00000	0.00848	1,2,6
		2180	157.90490	126.79251	0.00000	0.00000	0.00000	0.00789	1,2,6
		2181	157.46070	127.01058	0.00000	0.00000	0.00000	0.00731	1,2,6
		2182	157.01650	127.22865	0.00000	0.00000	0.00000	0.00672	1,2,6
		2183	156.57230	127.44672	0.00000	0.00000	0.00000	0.00613	1,2,6
		2184	156.12810	127.66479	0.00000	0.00000	0.00000	0.00553	1,2,6
		2185	155.68390	127.88286	0.00000	0.00000	0.00000	0.00494	1,2,6
		2186	155.23970	128.10093	0.00000	0.00000	0.00000	0.00435	1,2,6
		2187	154.79550	128.31900	0.00000	0.00000	0.00000	0.00376	1,2,6
		2188	154.98285	128.70547	0.00000	0.00000	0.00000	0.00220	1,2,6
		2189	155.17020	129.09193	0.00000	0.00000	0.00000	0.00071	1,2,6
		2190	155.35755	129.47840	0.00000	0.00000	0.00000	-0.00071	1,2,6
		2191	155.54490	129.86487	0.00000	0.00000	0.00000	-0.00208	1,2,6
		2192	155.73225	130.25133	0.00000	0.00000	0.00000	-0.00339	1,2,6
		2193	155.91960	130.63780	0.00000	0.00000	0.00000	-0.00465	1,2,6
		2194	156.10695	131.02427	0.00000	0.00000	0.00000	-0.00585	1,2,6
		2195	156.29430	131.41073	0.00000	0.00000	0.00000	-0.00700	1,2,6
		2196	156.48165	131.79720	0.00000	0.00000	0.00000	-0.00810	1,2,6
		2197	156.66900	132.18367	0.00000	0.00000	0.00000	-0.00916	1,2,6
		2198	156.85635	132.57013	0.00000	0.00000	0.00000	-0.01016	1,2,6
		2199	0.00000	0.00000	0.00000	0.00000	0.00000	-0.02374	1
		2200	5.09524	0.00000	0.00000	0.00000	0.00000	-0.02526	1
		2201	10.19048	0.00000	0.00000	0.00000	0.00000	-0.02684	1
		2202	15.28571	0.00000	0.00000	0.00000	0.00000	-0.02848	1
		2203	20.38095	0.00000	0.00000	0.00000	0.00000	-0.03015	1
		2204	25.47619	0.00000	0.00000	0.00000	0.00000	-0.03186	1
		2205	30.57143	0.00000	0.00000	0.00000	0.00000	-0.03358	1
		2206	35.66667	0.00000	0.00000	0.00000	0.00000	-0.03530	1
		2207	40.76190	0.00000	0.00000	0.00000	0.00000	-0.03699	1
		2208	45.85714	0.00000	0.00000	0.00000	0.00000	-0.03863	1
		2209	50.95238	0.00000	0.00000	0.00000	0.00000	-0.04019	1
		2210	56.04762	0.00000	0.00000	0.00000	0.00000	-0.04165	1
		2211	61.14286	0.00000	0.00000	0.00000	0.00000	-0.04295	1
		2212	66.23810	0.00000	0.00000	0.00000	0.00000	-0.04405	1
		2213	71.33333	0.00000	0.00000	0.00000	0.00000	-0.04487	1
		2214	76.42857	0.00000	0.00000	0.00000	0.00000	-0.04530	1
		2215	81.52381	0.00000	0.00000	0.00000	0.00000	-0.04523	1
		2216	86.61905	0.00000	0.00000	0.00000	0.00000	-0.04454	1
		2217	91.71429	0.00000	0.00000	0.00000	0.00000	-0.04311	1
		2218	96.80952	0.00000	0.00000	0.00000	0.00000	-0.04090	1
		2219	101.90476	0.00000	0.00000	0.00000	0.00000	-0.03790	1
		2220	107.00000	0.00000	0.00000	0.00000	0.00000	-0.00690	1
		2221	0.00000	5.00000	0.00000	0.00000	0.00000	-0.02455	1
		2222	5.09524	5.00000	0.00000	0.00000	0.00000	-0.02611	1
		2223	10.19048	5.00000	0.00000	0.00000	0.00000	-0.02772	1
		2224	15.28571	5.00000	0.00000	0.00000	0.00000	-0.02937	1
		2225	20.38095	5.00000	0.00000	0.00000	0.00000	-0.03105	1
		2226	25.47619	5.00000	0.00000	0.00000	0.00000	-0.03272	1
		2227	30.57143	5.00000	0.00000	0.00000	0.00000	-0.03436	1
		2228	35.66667	5.00000	0.00000	0.00000	0.00000	-0.03595	1
		2229	40.76190	5.00000	0.00000	0.00000	0.00000	-0.03745	1
		2230	45.85714	5.00000	0.00000	0.00000	0.00000	-0.03883	1
		2231	50.95238	5.00000	0.00000	0.00000	0.00000	-0.04006	1
		2232	56.04762	5.00000	0.00000	0.00000	0.00000	-0.04109	1
		2233	61.14286	5.00000	0.00000	0.00000	0.00000	-0.04188	1
		2234	66.23810	5.00000	0.00000	0.00000	0.00000	-0.04234	1
		2235	71.33333	5.00000	0.00000	0.00000	0.00000	-0.04237	1
		2236	76.42857	5.00000	0.00000	0.00000	0.00000	-0.04182	1
		2237	81.52381	5.00000	0.00000	0.00000	0.00000	-0.04049	1
		2238	86.61905	5.00000	0.00000	0.00000	0.00000	-0.03817	1
		2239	91.71429	5.00000	0.00000	0.00000	0.00000	-0.03468	1
		2240	96.80952	5.00000	0.00000	0.00000	0.00000	-0.02990	1
		2241	101.90476	5.00000	0.00000	0.00000	0.00000	-0.02385	1
		2242	107.00000	5.00000	0.00000	0.00000	0.00000	0.00934	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2243	0.00000	10.00000	0.00000	0.00000	0.00000	-0.02529	1
		2244	5.09524	10.00000	0.00000	0.00000	0.00000	-0.02688	1
		2245	10.19048	10.00000	0.00000	0.00000	0.00000	-0.02849	1
		2246	15.28571	10.00000	0.00000	0.00000	0.00000	-0.03012	1
		2247	20.38095	10.00000	0.00000	0.00000	0.00000	-0.03174	1
		2248	25.47619	10.00000	0.00000	0.00000	0.00000	-0.03330	1
		2249	30.57143	10.00000	0.00000	0.00000	0.00000	-0.03477	1
		2250	35.66667	10.00000	0.00000	0.00000	0.00000	-0.03610	1
		2251	40.76190	10.00000	0.00000	0.00000	0.00000	-0.03725	1
		2252	45.85714	10.00000	0.00000	0.00000	0.00000	-0.03815	1
		2253	50.95238	10.00000	0.00000	0.00000	0.00000	-0.03878	1
		2254	56.04762	10.00000	0.00000	0.00000	0.00000	-0.03906	1
		2255	61.14286	10.00000	0.00000	0.00000	0.00000	-0.03896	1
		2256	66.23810	10.00000	0.00000	0.00000	0.00000	-0.03837	1
		2257	71.33333	10.00000	0.00000	0.00000	0.00000	-0.03714	1
		2258	76.42857	10.00000	0.00000	0.00000	0.00000	-0.03504	1
		2259	81.52381	10.00000	0.00000	0.00000	0.00000	-0.03174	1
		2260	86.61905	10.00000	0.00000	0.00000	0.00000	-0.02686	1
		2261	91.71429	10.00000	0.00000	0.00000	0.00000	-0.02006	1
		2262	96.80952	10.00000	0.00000	0.00000	0.00000	-0.01112	1
		2263	101.90476	10.00000	0.00000	0.00000	0.00000	-0.00002	1
		2264	107.00000	10.00000	0.00000	0.00000	0.00000	0.03510	1
		2265	0.00000	15.00000	0.00000	0.00000	0.00000	-0.02596	1
		2266	5.09524	15.00000	0.00000	0.00000	0.00000	-0.02754	1
		2267	10.19048	15.00000	0.00000	0.00000	0.00000	-0.02912	1
		2268	15.28571	15.00000	0.00000	0.00000	0.00000	-0.03067	1
		2269	20.38095	15.00000	0.00000	0.00000	0.00000	-0.03215	1
		2270	25.47619	15.00000	0.00000	0.00000	0.00000	-0.03350	1
		2271	30.57143	15.00000	0.00000	0.00000	0.00000	-0.03466	1
		2272	35.66667	15.00000	0.00000	0.00000	0.00000	-0.03555	1
		2273	40.76190	15.00000	0.00000	0.00000	0.00000	-0.03609	1
		2274	45.85714	15.00000	0.00000	0.00000	0.00000	-0.03620	1
		2275	50.95238	15.00000	0.00000	0.00000	0.00000	-0.03581	1
		2276	56.04762	15.00000	0.00000	0.00000	0.00000	-0.03485	1
		2277	61.14286	15.00000	0.00000	0.00000	0.00000	-0.03328	1
		2278	66.23810	15.00000	0.00000	0.00000	0.00000	-0.03099	1
		2279	71.33333	15.00000	0.00000	0.00000	0.00000	-0.02781	1
		2280	76.42857	15.00000	0.00000	0.00000	0.00000	-0.02337	1
		2281	81.52381	15.00000	0.00000	0.00000	0.00000	-0.01710	1
		2282	86.61905	15.00000	0.00000	0.00000	0.00000	-0.00831	1
		2283	91.71429	15.00000	0.00000	0.00000	0.00000	0.00369	1
		2284	96.80952	15.00000	0.00000	0.00000	0.00000	0.01936	1
		2285	101.90476	15.00000	0.00000	0.00000	0.00000	0.03874	1
		2286	107.00000	15.00000	0.00000	0.00000	0.00000	0.07527	1
		2287	0.00000	20.00000	0.00000	0.00000	0.00000	-0.02652	1
		2288	5.09524	20.00000	0.00000	0.00000	0.00000	-0.02805	1
		2289	10.19048	20.00000	0.00000	0.00000	0.00000	-0.02955	1
		2290	15.28571	20.00000	0.00000	0.00000	0.00000	-0.03095	1
		2291	20.38095	20.00000	0.00000	0.00000	0.00000	-0.03219	1
		2292	25.47619	20.00000	0.00000	0.00000	0.00000	-0.03319	1
		2293	30.57143	20.00000	0.00000	0.00000	0.00000	-0.03385	1
		2294	35.66667	20.00000	0.00000	0.00000	0.00000	-0.03403	1
		2295	40.76190	20.00000	0.00000	0.00000	0.00000	-0.03360	1
		2296	45.85714	20.00000	0.00000	0.00000	0.00000	-0.03243	1
		2297	50.95238	20.00000	0.00000	0.00000	0.00000	-0.03037	1
		2298	56.04762	20.00000	0.00000	0.00000	0.00000	-0.02738	1
		2299	61.14286	20.00000	0.00000	0.00000	0.00000	-0.02340	1
		2300	66.23810	20.00000	0.00000	0.00000	0.00000	-0.01841	1
		2301	71.33333	20.00000	0.00000	0.00000	0.00000	-0.01223	1
		2302	76.42857	20.00000	0.00000	0.00000	0.00000	-0.00435	1
		2303	81.52381	20.00000	0.00000	0.00000	0.00000	0.00622	1
		2304	86.61905	20.00000	0.00000	0.00000	0.00000	0.02082	1
		2305	91.71429	20.00000	0.00000	0.00000	0.00000	0.04087	1
		2306	96.80952	20.00000	0.00000	0.00000	0.00000	0.06733	1
		2307	101.90476	20.00000	0.00000	0.00000	0.00000	0.10039	1
		2308	107.00000	20.00000	0.00000	0.00000	0.00000	0.13742	1
		2309	0.00000	25.00000	0.00000	0.00000	0.00000	-0.02694	1
		2310	5.09524	25.00000	0.00000	0.00000	0.00000	-0.02839	1
		2311	10.19048	25.00000	0.00000	0.00000	0.00000	-0.02972	1
		2312	15.28571	25.00000	0.00000	0.00000	0.00000	-0.03087	1
		2313	20.38095	25.00000	0.00000	0.00000	0.00000	-0.03175	1
		2314	25.47619	25.00000	0.00000	0.00000	0.00000	-0.03221	1
		2315	30.57143	25.00000	0.00000	0.00000	0.00000	-0.03210	1
		2316	35.66667	25.00000	0.00000	0.00000	0.00000	-0.03121	1
		2317	40.76190	25.00000	0.00000	0.00000	0.00000	-0.02929	1
		2318	45.85714	25.00000	0.00000	0.00000	0.00000	-0.02609	1
		2319	50.95238	25.00000	0.00000	0.00000	0.00000	-0.02138	1
		2320	56.04762	25.00000	0.00000	0.00000	0.00000	-0.01502	1
		2321	61.14286	25.00000	0.00000	0.00000	0.00000	-0.00706	1
		2322	66.23810	25.00000	0.00000	0.00000	0.00000	0.00234	1
		2323	71.33333	25.00000	0.00000	0.00000	0.00000	0.01315	1
		2324	76.42857	25.00000	0.00000	0.00000	0.00000	0.02597	1
		2325	81.52381	25.00000	0.00000	0.00000	0.00000	0.04247	1
		2326	86.61905	25.00000	0.00000	0.00000	0.00000	0.06536	1
		2327	91.71429	25.00000	0.00000	0.00000	0.00000	0.09763	1
		2328	96.80952	25.00000	0.00000	0.00000	0.00000	0.14146	1
		2329	101.90476	25.00000	0.00000	0.00000	0.00000	0.19735	1
		2330	107.00000	25.00000	0.00000	0.00000	0.00000	0.23332	1
		2331	0.00000	30.00000	0.00000	0.00000	0.00000	-0.02720	1
		2332	5.09524	30.00000	0.00000	0.00000	0.00000	-0.02848	1
		2333	10.19048	30.00000	0.00000	0.00000	0.00000	-0.02957	1
		2334	15.28571	30.00000	0.00000	0.00000	0.00000	-0.03035	1
		2335	20.38095	30.00000	0.00000	0.00000	0.00000	-0.03067	1
		2336	25.47619	30.00000	0.00000	0.00000	0.00000	-0.03035	1
		2337	30.57143	30.00000	0.00000	0.00000	0.00000	-0.02912	1
		2338	35.66667	30.00000	0.00000	0.00000	0.00000	-0.02666	1
		2339	40.76190	30.00000	0.00000	0.00000	0.00000	-0.02252	1
		2340	45.85714	30.00000	0.00000	0.00000	0.00000	-0.01622	1
		2341	50.95238	30.00000	0.00000	0.00000	0.00000	-0.00725	1
		2342	56.04762	30.00000	0.00000	0.00000	0.00000	0.00470	1
		2343	61.14286	30.00000	0.00000	0.00000	0.00000	0.01952	1
		2344	66.23810	30.00000	0.00000	0.00000	0.00000	0.03650	1
		2345	71.33333	30.00000	0.00000	0.00000	0.00000	0.05474	1
		2346	76.42857	30.00000	0.00000	0.00000	0.00000	0.07444	1
		2347	81.52381	30.00000	0.00000	0.00000	0.00000	0.09842	1
		2348	86.61905	30.00000	0.00000	0.00000	0.00000	0.13227	1
		2349	91.71429	30.00000	0.00000	0.00000	0.00000	0.18267	1
		2350	96.80952	30.00000	0.00000	0.00000	0.00000	0.25466	1
		2351	101.90476	30.00000	0.00000	0.00000	0.00000	0.34950	1
		2352	107.00000	30.00000	0.00000	0.00000	0.00000	0.38185	1
		2353	0.00000	35.00000	0.00000	0.00000	0.00000	-0.02726	1
		2354	5.09524	35.00000	0.00000	0.00000	0.00000	-0.02830	1
		2355	10.19048	35.00000	0.00000	0.00000	0.00000	-0.02901	1
		2356	15.28571	35.00000	0.00000	0.00000	0.00000	-0.02924	1
		2357	20.38095	35.00000	0.00000	0.00000	0.00000	-0.02878	1
		2358	25.47619	35.00000	0.00000	0.00000	0.00000	-0.02734	1
		2359	30.57143	35.00000	0.00000	0.00000	0.00000	-0.02453	1
		2360	35.66667	35.00000	0.00000	0.00000	0.00000	-0.01983	1
		2361	40.76190	35.00000	0.00000	0.00000	0.00000	-0.01250	1
		2362	45.85714	35.00000	0.00000	0.00000	0.00000	-0.00156	1
		2363	50.95238	35.00000	0.00000	0.00000	0.00000	0.01414	1
		2364	56.04762	35.00000	0.00000	0.00000	0.00000	0.03556	1
		2365	61.14286	35.00000	0.00000	0.00000	0.00000	0.06277	1
		2366	66.23810	35.00000	0.00000	0.00000	0.00000	0.09394	1
		2367	71.33333	35.00000	0.00000	0.00000	0.00000	0.12536	1
		2368	76.42857	35.00000	0.00000	0.00000	0.00000	0.15458	1
		2369	81.52381	35.00000	0.00000	0.00000	0.00000	0.18589	1
		2370	86.61905	35.00000	0.00000	0.00000	0.00000	0.23174	1
		2371	91.71429	35.00000	0.00000	0.00000	0.00000	0.30782	1
		2372	96.80952	35.00000	0.00000	0.00000	0.00000	0.42637	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2373	101.90476	35.00000	0.00000	0.00000	0.00000	0.59049	1
		2374	107.00000	35.00000	0.00000	0.00000	0.00000	0.61498	1
		2375	0.00000	40.00000	0.00000	0.00000	0.00000	-0.02707	1
		2376	5.09524	40.00000	0.00000	0.00000	0.00000	-0.02776	1
		2377	10.19048	40.00000	0.00000	0.00000	0.00000	-0.02795	1
		2378	15.28571	40.00000	0.00000	0.00000	0.00000	-0.02741	1
		2379	20.38095	40.00000	0.00000	0.00000	0.00000	-0.02583	1
		2380	25.47619	40.00000	0.00000	0.00000	0.00000	-0.02283	1
		2381	30.57143	40.00000	0.00000	0.00000	0.00000	-0.01784	1
		2382	35.66667	40.00000	0.00000	0.00000	0.00000	-0.01005	1
		2383	40.76190	40.00000	0.00000	0.00000	0.00000	0.00175	1
		2384	45.85714	40.00000	0.00000	0.00000	0.00000	0.01941	1
		2385	50.95238	40.00000	0.00000	0.00000	0.00000	0.04551	1
		2386	56.04762	40.00000	0.00000	0.00000	0.00000	0.08302	1
		2387	61.14286	40.00000	0.00000	0.00000	0.00000	0.13383	1
		2388	66.23810	40.00000	0.00000	0.00000	0.00000	0.19492	1
		2389	71.33333	40.00000	0.00000	0.00000	0.00000	0.25434	1
		2390	76.42857	40.00000	0.00000	0.00000	0.00000	0.29735	1
		2391	81.52381	40.00000	0.00000	0.00000	0.00000	0.32839	1
		2392	86.61905	40.00000	0.00000	0.00000	0.00000	0.37877	1
		2393	91.71429	40.00000	0.00000	0.00000	0.00000	0.48743	1
		2394	96.80952	40.00000	0.00000	0.00000	0.00000	0.68583	1
		2395	101.90476	40.00000	0.00000	0.00000	0.00000	0.98338	1
		2396	107.00000	40.00000	0.00000	0.00000	0.00000	0.99319	1
		2397	0.00000	45.00000	0.00000	0.00000	0.00000	-0.02661	1
		2398	5.09524	45.00000	0.00000	0.00000	0.00000	-0.02681	1
		2399	10.19048	45.00000	0.00000	0.00000	0.00000	-0.02627	1
		2400	15.28571	45.00000	0.00000	0.00000	0.00000	-0.02465	1
		2401	20.38095	45.00000	0.00000	0.00000	0.00000	-0.02153	1
		2402	25.47619	45.00000	0.00000	0.00000	0.00000	-0.01635	1
		2403	30.57143	45.00000	0.00000	0.00000	0.00000	-0.00835	1
		2404	35.66667	45.00000	0.00000	0.00000	0.00000	0.00362	1
		2405	40.76190	45.00000	0.00000	0.00000	0.00000	0.02144	1
		2406	45.85714	45.00000	0.00000	0.00000	0.00000	0.04834	1
		2407	50.95238	45.00000	0.00000	0.00000	0.00000	0.08975	1
		2408	56.04762	45.00000	0.00000	0.00000	0.00000	0.15402	1
		2409	61.14286	45.00000	0.00000	0.00000	0.00000	0.25107	1
		2410	66.23810	45.00000	0.00000	0.00000	0.00000	0.38315	1
		2411	71.33333	45.00000	0.00000	0.00000	0.00000	0.51905	1
		2412	76.42857	45.00000	0.00000	0.00000	0.00000	0.58746	1
		2413	81.52381	45.00000	0.00000	0.00000	0.00000	0.57950	1
		2414	86.61905	45.00000	0.00000	0.00000	0.00000	0.59490	1
		2415	91.71429	45.00000	0.00000	0.00000	0.00000	0.73229	1
		2416	96.80952	45.00000	0.00000	0.00000	0.00000	1.07529	1
		2417	101.90476	45.00000	0.00000	0.00000	0.00000	1.69058	1
		2418	107.00000	45.00000	0.00000	0.00000	0.00000	1.66896	1
		2419	0.00000	50.00000	0.00000	0.00000	0.00000	-0.02583	1
		2420	5.09524	50.00000	0.00000	0.00000	0.00000	-0.02539	1
		2421	10.19048	50.00000	0.00000	0.00000	0.00000	-0.02386	1
		2422	15.28571	50.00000	0.00000	0.00000	0.00000	-0.02075	1
		2423	20.38095	50.00000	0.00000	0.00000	0.00000	-0.01546	1
		2424	25.47619	50.00000	0.00000	0.00000	0.00000	-0.00722	1
		2425	30.57143	50.00000	0.00000	0.00000	0.00000	0.00497	1
		2426	35.66667	50.00000	0.00000	0.00000	0.00000	0.02262	1
		2427	40.76190	50.00000	0.00000	0.00000	0.00000	0.04829	1
		2428	45.85714	50.00000	0.00000	0.00000	0.00000	0.08703	1
		2429	50.95238	50.00000	0.00000	0.00000	0.00000	0.14904	1
		2430	56.04762	50.00000	0.00000	0.00000	0.00000	0.25424	1
		2431	61.14286	50.00000	0.00000	0.00000	0.00000	0.43829	1
		2432	66.23810	50.00000	0.00000	0.00000	0.00000	0.74742	1
		2433	71.33333	50.00000	0.00000	0.00000	0.00000	1.14697	1
		2434	76.42857	50.00000	0.00000	0.00000	0.00000	1.29710	1
		2435	81.52381	50.00000	0.00000	0.00000	0.00000	1.06580	1
		2436	86.61905	50.00000	0.00000	0.00000	0.00000	0.90493	1
		2437	91.71429	50.00000	0.00000	0.00000	0.00000	1.02939	1
		2438	96.80952	50.00000	0.00000	0.00000	0.00000	1.59480	1
		2439	101.90476	50.00000	0.00000	0.00000	0.00000	3.71204	1
		2440	107.00000	50.00000	0.00000	0.00000	0.00000	3.63955	1
		2441	0.00000	55.00000	0.00000	0.00000	0.00000	-0.02474	1
		2442	5.09524	55.00000	0.00000	0.00000	0.00000	-0.02346	1
		2443	10.19048	55.00000	0.00000	0.00000	0.00000	-0.02060	1
		2444	15.28571	55.00000	0.00000	0.00000	0.00000	-0.01547	1
		2445	20.38095	55.00000	0.00000	0.00000	0.00000	-0.00714	1
		2446	25.47619	55.00000	0.00000	0.00000	0.00000	0.00549	1
		2447	30.57143	55.00000	0.00000	0.00000	0.00000	0.02377	1
		2448	35.66667	55.00000	0.00000	0.00000	0.00000	0.04944	1
		2449	40.76190	55.00000	0.00000	0.00000	0.00000	0.08541	1
		2450	45.85714	55.00000	0.00000	0.00000	0.00000	0.13821	1
		2451	50.95238	55.00000	0.00000	0.00000	0.00000	0.22389	1
		2452	56.04762	55.00000	0.00000	0.00000	0.00000	0.38125	1
		2453	61.14286	55.00000	0.00000	0.00000	0.00000	0.70236	1
		2454	66.23810	55.00000	0.00000	0.00000	0.00000	1.39329	1
		2455	71.33333	55.00000	0.00000	0.00000	0.00000	2.71986	1
		2456	76.42857	55.00000	0.00000	0.00000	0.00000	3.40011	1
		2457	81.52381	55.00000	0.00000	0.00000	0.00000	1.97274	1
		2458	86.61905	55.00000	0.00000	0.00000	0.00000	1.30163	1
		2459	91.71429	55.00000	0.00000	0.00000	0.00000	1.32333	1
		2460	96.80952	55.00000	0.00000	0.00000	0.00000	2.04203	1
		2461	101.90476	55.00000	0.00000	0.00000	0.00000	4.71470	1
		2462	107.00000	55.00000	0.00000	0.00000	0.00000	5.23239	1
		2463	0.00000	60.00000	0.00000	0.00000	0.00000	-0.02333	1
		2464	5.09524	60.00000	0.00000	0.00000	0.00000	-0.02101	1
		2465	10.19048	60.00000	0.00000	0.00000	0.00000	-0.01646	1
		2466	15.28571	60.00000	0.00000	0.00000	0.00000	-0.00860	1
		2467	20.38095	60.00000	0.00000	0.00000	0.00000	0.00398	1
		2468	25.47619	60.00000	0.00000	0.00000	0.00000	0.02307	1
		2469	30.57143	60.00000	0.00000	0.00000	0.00000	0.05065	1
		2470	35.66667	60.00000	0.00000	0.00000	0.00000	0.08871	1
		2471	40.76190	60.00000	0.00000	0.00000	0.00000	0.13956	1
		2472	45.85714	60.00000	0.00000	0.00000	0.00000	0.20884	1
		2473	50.95238	60.00000	0.00000	0.00000	0.00000	0.31578	1
		2474	56.04762	60.00000	0.00000	0.00000	0.00000	0.51900	1
		2475	61.14286	60.00000	0.00000	0.00000	0.00000	0.98514	1
		2476	66.23810	60.00000	0.00000	0.00000	0.00000	2.19020	1
		2477	71.33333	60.00000	0.00000	0.00000	0.00000	5.45557	1
		2478	76.42857	60.00000	0.00000	0.00000	0.00000	7.75705	1
		2479	81.52381	60.00000	0.00000	0.00000	0.00000	3.02103	1
		2480	86.61905	60.00000	0.00000	0.00000	0.00000	1.66503	1
		2481	91.71429	60.00000	0.00000	0.00000	0.00000	1.53706	1
		2482	96.80952	60.00000	0.00000	0.00000	0.00000	2.30808	1
		2483	101.90476	60.00000	0.00000	0.00000	0.00000	5.21089	1
		2484	107.00000	60.00000	0.00000	0.00000	0.00000	5.89514	1
		2485	0.00000	65.00000	0.00000	0.00000	0.00000	-0.02167	1
		2486	5.09524	65.00000	0.00000	0.00000	0.00000	-0.01812	1
		2487	10.19048	65.00000	0.00000	0.00000	0.00000	-0.01148	1
		2488	15.28571	65.00000	0.00000	0.00000	0.00000	-0.00013	1
		2489	20.38095	65.00000	0.00000	0.00000	0.00000	0.01829	1
		2490	25.47619	65.00000	0.00000	0.00000	0.00000	0.04691	1
		2491	30.57143	65.00000	0.00000	0.00000	0.00000	0.08945	1
		2492	35.66667	65.00000	0.00000	0.00000	0.00000	0.14912	1
		2493	40.76190	65.00000	0.00000	0.00000	0.00000	0.22652	1
		2494	45.85714	65.00000	0.00000	0.00000	0.00000	0.32003	1
		2495	50.95238	65.00000	0.00000	0.00000	0.00000	0.44016	1
		2496	56.04762	65.00000	0.00000	0.00000	0.00000	0.65233	1
		2497	61.14286	65.00000	0.00000	0.00000	0.00000	1.17006	1
		2498	66.23810	65.00000	0.00000	0.00000	0.00000	2.62577	1
		2499	71.33333	65.00000	0.00000	0.00000	0.00000	7.01135	1
		2500	76.42857	65.00000	0.00000	0.00000	0.00000	8.82683	1
		2501	81.52381	65.00000	0.00000	0.00000	0.00000	3.43805	1
		2502	86.61905	65.00000	0.00000	0.00000	0.00000	1.80646	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2503	91.71429	65.00000	0.00000	0.00000	0.00000	1.60463	1
		2504	96.80952	65.00000	0.00000	0.00000	0.00000	2.36737	1
		2505	101.90476	65.00000	0.00000	0.00000	0.00000	5.26338	1
		2506	107.00000	65.00000	0.00000	0.00000	0.00000	5.80573	1
		2507	0.00000	70.00000	0.00000	0.00000	0.00000	-0.01987	1
		2508	5.09524	70.00000	0.00000	0.00000	0.00000	-0.01496	1
		2509	10.19048	70.00000	0.00000	0.00000	0.00000	-0.00593	1
		2510	15.28571	70.00000	0.00000	0.00000	0.00000	0.00966	1
		2511	20.38095	70.00000	0.00000	0.00000	0.00000	0.03566	1
		2512	25.47619	70.00000	0.00000	0.00000	0.00000	0.07792	1
		2513	30.57143	70.00000	0.00000	0.00000	0.00000	0.14475	1
		2514	35.66667	70.00000	0.00000	0.00000	0.00000	0.24569	1
		2515	40.76190	70.00000	0.00000	0.00000	0.00000	0.38371	1
		2516	45.85714	70.00000	0.00000	0.00000	0.00000	0.53709	1
		2517	50.95238	70.00000	0.00000	0.00000	0.00000	0.66633	1
		2518	56.04762	70.00000	0.00000	0.00000	0.00000	0.81322	1
		2519	61.14286	70.00000	0.00000	0.00000	0.00000	1.20457	1
		2520	66.23810	70.00000	0.00000	0.00000	0.00000	2.39152	1
		2521	71.33333	70.00000	0.00000	0.00000	0.00000	6.14187	1
		2522	76.42857	70.00000	0.00000	0.00000	0.00000	7.71692	1
		2523	81.52381	70.00000	0.00000	0.00000	0.00000	2.98543	1
		2524	86.61905	70.00000	0.00000	0.00000	0.00000	1.64699	1
		2525	91.71429	70.00000	0.00000	0.00000	0.00000	1.50341	1
		2526	96.80952	70.00000	0.00000	0.00000	0.00000	2.22363	1
		2527	101.90476	70.00000	0.00000	0.00000	0.00000	4.96984	1
		2528	107.00000	70.00000	0.00000	0.00000	0.00000	5.37661	1
		2529	0.00000	75.00000	0.00000	0.00000	0.00000	-0.01810	1
		2530	5.09524	75.00000	0.00000	0.00000	0.00000	-0.01182	1
		2531	10.19048	75.00000	0.00000	0.00000	0.00000	-0.00032	1
		2532	15.28571	75.00000	0.00000	0.00000	0.00000	0.01990	1
		2533	20.38095	75.00000	0.00000	0.00000	0.00000	0.05480	1
		2534	25.47619	75.00000	0.00000	0.00000	0.00000	0.11484	1
		2535	30.57143	75.00000	0.00000	0.00000	0.00000	0.21870	1
		2536	35.66667	75.00000	0.00000	0.00000	0.00000	0.39933	1
		2537	40.76190	75.00000	0.00000	0.00000	0.00000	0.70228	1
		2538	45.85714	75.00000	0.00000	0.00000	0.00000	1.09985	1
		2539	50.95238	75.00000	0.00000	0.00000	0.00000	1.29242	1
		2540	56.04762	75.00000	0.00000	0.00000	0.00000	1.16093	1
		2541	61.14286	75.00000	0.00000	0.00000	0.00000	1.19389	1
		2542	66.23810	75.00000	0.00000	0.00000	0.00000	1.71898	1
		2543	71.33333	75.00000	0.00000	0.00000	0.00000	2.90044	1
		2544	76.42857	75.00000	0.00000	0.00000	0.00000	3.19329	1
		2545	81.52381	75.00000	0.00000	0.00000	0.00000	1.93084	1
		2546	86.61905	75.00000	0.00000	0.00000	0.00000	1.27933	1
		2547	91.71429	75.00000	0.00000	0.00000	0.00000	1.26701	1
		2548	96.80952	75.00000	0.00000	0.00000	0.00000	1.88959	1
		2549	101.90476	75.00000	0.00000	0.00000	0.00000	4.32062	1
		2550	107.00000	75.00000	0.00000	0.00000	0.00000	4.61193	1
		2551	0.00000	80.00000	0.00000	0.00000	0.00000	-0.01654	1
		2552	5.09524	80.00000	0.00000	0.00000	0.00000	-0.00910	1
		2553	10.19048	80.00000	0.00000	0.00000	0.00000	0.00461	1
		2554	15.28571	80.00000	0.00000	0.00000	0.00000	0.02913	1
		2555	20.38095	80.00000	0.00000	0.00000	0.00000	0.07284	1
		2556	25.47619	80.00000	0.00000	0.00000	0.00000	0.15219	1
		2557	30.57143	80.00000	0.00000	0.00000	0.00000	0.30291	1
		2558	35.66667	80.00000	0.00000	0.00000	0.00000	0.61594	1
		2559	40.76190	80.00000	0.00000	0.00000	0.00000	1.38727	1
		2560	45.85714	80.00000	0.00000	0.00000	0.00000	3.51369	1
		2561	50.95238	80.00000	0.00000	0.00000	0.00000	5.31823	1
		2562	56.04762	80.00000	0.00000	0.00000	0.00000	2.14240	1
		2563	61.14286	80.00000	0.00000	0.00000	0.00000	1.33820	1
		2564	66.23810	80.00000	0.00000	0.00000	0.00000	1.22294	1
		2565	71.33333	80.00000	0.00000	0.00000	0.00000	1.37740	1
		2566	76.42857	80.00000	0.00000	0.00000	0.00000	1.36822	1
		2567	81.52381	80.00000	0.00000	0.00000	0.00000	1.08791	1
		2568	86.61905	80.00000	0.00000	0.00000	0.00000	0.89816	1
		2569	91.71429	80.00000	0.00000	0.00000	0.00000	0.96996	1
		2570	96.80952	80.00000	0.00000	0.00000	0.00000	1.39694	1
		2571	101.90476	80.00000	0.00000	0.00000	0.00000	2.42381	1
		2572	107.00000	80.00000	0.00000	0.00000	0.00000	2.52605	1
		2573	0.00000	85.00000	0.00000	0.00000	0.00000	-0.01541	1
		2574	5.09524	85.00000	0.00000	0.00000	0.00000	-0.00717	1
		2575	10.19048	85.00000	0.00000	0.00000	0.00000	0.00804	1
		2576	15.28571	85.00000	0.00000	0.00000	0.00000	0.03558	1
		2577	20.38095	85.00000	0.00000	0.00000	0.00000	0.08570	1
		2578	25.47619	85.00000	0.00000	0.00000	0.00000	0.17993	1
		2579	30.57143	85.00000	0.00000	0.00000	0.00000	0.37027	1
		2580	35.66667	85.00000	0.00000	0.00000	0.00000	0.81893	1
		2581	40.76190	85.00000	0.00000	0.00000	0.00000	2.38250	1
		2582	45.85714	85.00000	0.00000	0.00000	0.00000	10.23709	1
		2583	50.95238	85.00000	0.00000	0.00000	0.00000	11.76059	1
		2584	56.04762	85.00000	0.00000	0.00000	0.00000	4.47577	1
		2585	61.14286	85.00000	0.00000	0.00000	0.00000	1.74282	1
		2586	66.23810	85.00000	0.00000	0.00000	0.00000	1.06366	1
		2587	71.33333	85.00000	0.00000	0.00000	0.00000	0.85405	1
		2588	76.42857	85.00000	0.00000	0.00000	0.00000	0.74873	1
		2589	81.52381	85.00000	0.00000	0.00000	0.00000	0.65100	1
		2590	86.61905	85.00000	0.00000	0.00000	0.00000	0.61049	1
		2591	91.71429	85.00000	0.00000	0.00000	0.00000	0.69139	1
		2592	96.80952	85.00000	0.00000	0.00000	0.00000	0.94074	1
		2593	101.90476	85.00000	0.00000	0.00000	0.00000	1.39018	1
		2594	107.00000	85.00000	0.00000	0.00000	0.00000	1.40793	1
		2595	0.00000	90.00000	0.00000	0.00000	0.00000	-0.01483	1
		2596	5.09524	90.00000	0.00000	0.00000	0.00000	-0.00634	1
		2597	10.19048	90.00000	0.00000	0.00000	0.00000	0.00935	1
		2598	15.28571	90.00000	0.00000	0.00000	0.00000	0.03782	1
		2599	20.38095	90.00000	0.00000	0.00000	0.00000	0.08988	1
		2600	25.47619	90.00000	0.00000	0.00000	0.00000	0.18832	1
		2601	30.57143	90.00000	0.00000	0.00000	0.00000	0.38836	1
		2602	35.66667	90.00000	0.00000	0.00000	0.00000	0.85843	1
		2603	40.76190	90.00000	0.00000	0.00000	0.00000	2.40493	1
		2604	45.85714	90.00000	0.00000	0.00000	0.00000	10.29252	1
		2605	50.95238	90.00000	0.00000	0.00000	0.00000	13.19761	1
		2606	56.04762	90.00000	0.00000	0.00000	0.00000	9.52383	1
		2607	61.14286	90.00000	0.00000	0.00000	0.00000	2.35253	1
		2608	66.23810	90.00000	0.00000	0.00000	0.00000	1.05926	1
		2609	71.33333	90.00000	0.00000	0.00000	0.00000	0.66348	1
		2610	76.42857	90.00000	0.00000	0.00000	0.00000	0.50198	1
		2611	81.52381	90.00000	0.00000	0.00000	0.00000	0.42714	1
		2612	86.61905	90.00000	0.00000	0.00000	0.00000	0.41354	1
		2613	91.71429	90.00000	0.00000	0.00000	0.00000	0.47144	1
		2614	96.80952	90.00000	0.00000	0.00000	0.00000	0.61540	1
		2615	101.90476	90.00000	0.00000	0.00000	0.00000	0.85229	1
		2616	107.00000	90.00000	0.00000	0.00000	0.00000	0.86310	1
		2617	0.00000	95.00000	0.00000	0.00000	0.00000	-0.01487	1
		2618	5.09524	95.00000	0.00000	0.00000	0.00000	-0.00670	1
		2619	10.19048	95.00000	0.00000	0.00000	0.00000	0.00833	1
		2620	15.28571	95.00000	0.00000	0.00000	0.00000	0.03541	1
		2621	20.38095	95.00000	0.00000	0.00000	0.00000	0.08435	1
		2622	25.47619	95.00000	0.00000	0.00000	0.00000	0.17502	1
		2623	30.57143	95.00000	0.00000	0.00000	0.00000	0.35191	1
		2624	35.66667	95.00000	0.00000	0.00000	0.00000	0.73046	1
		2625	40.76190	95.00000	0.00000	0.00000	0.00000	1.68510	1
		2626	45.85714	95.00000	0.00000	0.00000	0.00000	5.22100	1
		2627	50.95238	95.00000	0.00000	0.00000	0.00000	12.51883	1
		2628	56.04762	95.00000	0.00000	0.00000	0.00000	10.30175	1
		2629	61.14286	95.00000	0.00000	0.00000	0.00000	2.60223	1
		2630	66.23810	95.00000	0.00000	0.00000	0.00000	1.02407	1
		2631	71.33333	95.00000	0.00000	0.00000	0.00000	0.55751	1
		2632	76.42857	95.00000	0.00000	0.00000	0.00000	0.37300	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2633	81.52381	95.00000	0.00000	0.00000	0.00000	0.29591	1
		2634	86.61905	95.00000	0.00000	0.00000	0.00000	0.27862	1
		2635	91.71429	95.00000	0.00000	0.00000	0.00000	0.31069	1
		2636	96.80952	95.00000	0.00000	0.00000	0.00000	0.39172	1
		2637	101.90476	95.00000	0.00000	0.00000	0.00000	0.52022	1
		2638	107.00000	95.00000	0.00000	0.00000	0.00000	0.53736	1
		2639	0.00000	100.00000	0.00000	0.00000	0.00000	-0.01546	1
		2640	5.09524	100.00000	0.00000	0.00000	0.00000	-0.00812	1
		2641	10.19048	100.00000	0.00000	0.00000	0.00000	0.00527	1
		2642	15.28571	100.00000	0.00000	0.00000	0.00000	0.02906	1
		2643	20.38095	100.00000	0.00000	0.00000	0.00000	0.07105	1
		2644	25.47619	100.00000	0.00000	0.00000	0.00000	0.14595	1
		2645	30.57143	100.00000	0.00000	0.00000	0.00000	0.28327	1
		2646	35.66667	100.00000	0.00000	0.00000	0.00000	0.54760	1
		2647	40.76190	100.00000	0.00000	0.00000	0.00000	1.10365	1
		2648	45.85714	100.00000	0.00000	0.00000	0.00000	2.56964	1
		2649	50.95238	100.00000	0.00000	0.00000	0.00000	9.29664	1
		2650	56.04762	100.00000	0.00000	0.00000	0.00000	10.01041	1
		2651	61.14286	100.00000	0.00000	0.00000	0.00000	2.38163	1
		2652	66.23810	100.00000	0.00000	0.00000	0.00000	0.87149	1
		2653	71.33333	100.00000	0.00000	0.00000	0.00000	0.45131	1
		2654	76.42857	100.00000	0.00000	0.00000	0.00000	0.28040	1
		2655	81.52381	100.00000	0.00000	0.00000	0.00000	0.20634	1
		2656	86.61905	100.00000	0.00000	0.00000	0.00000	0.18346	1
		2657	91.71429	100.00000	0.00000	0.00000	0.00000	0.19652	1
		2658	96.80952	100.00000	0.00000	0.00000	0.00000	0.23999	1
		2659	101.90476	100.00000	0.00000	0.00000	0.00000	0.30992	1
		2660	107.00000	100.00000	0.00000	0.00000	0.00000	0.33315	1
		2661	0.00000	105.00000	0.00000	0.00000	0.00000	-0.01645	1
		2662	5.09524	105.00000	0.00000	0.00000	0.00000	-0.01030	1
		2663	10.19048	105.00000	0.00000	0.00000	0.00000	0.00084	1
		2664	15.28571	105.00000	0.00000	0.00000	0.00000	0.02025	1
		2665	20.38095	105.00000	0.00000	0.00000	0.00000	0.05349	1
		2666	25.47619	105.00000	0.00000	0.00000	0.00000	0.11011	1
		2667	30.57143	105.00000	0.00000	0.00000	0.00000	0.20701	1
		2668	35.66667	105.00000	0.00000	0.00000	0.00000	0.37532	1
		2669	40.76190	105.00000	0.00000	0.00000	0.00000	0.67822	1
		2670	45.85714	105.00000	0.00000	0.00000	0.00000	1.28135	1
		2671	50.95238	105.00000	0.00000	0.00000	0.00000	2.94907	1
		2672	56.04762	105.00000	0.00000	0.00000	0.00000	3.26572	1
		2673	61.14286	105.00000	0.00000	0.00000	0.00000	1.34424	1
		2674	66.23810	105.00000	0.00000	0.00000	0.00000	0.61322	1
		2675	71.33333	105.00000	0.00000	0.00000	0.00000	0.33079	1
		2676	76.42857	105.00000	0.00000	0.00000	0.00000	0.20026	1
		2677	81.52381	105.00000	0.00000	0.00000	0.00000	0.13824	1
		2678	86.61905	105.00000	0.00000	0.00000	0.00000	0.11439	1
		2679	91.71429	105.00000	0.00000	0.00000	0.00000	0.11619	1
		2680	96.80952	105.00000	0.00000	0.00000	0.00000	0.13779	1
		2681	101.90476	105.00000	0.00000	0.00000	0.00000	0.17525	1
		2682	107.00000	105.00000	0.00000	0.00000	0.00000	0.20255	1
		2683	0.00000	110.00000	0.00000	0.00000	0.00000	-0.01765	1
		2684	5.09524	110.00000	0.00000	0.00000	0.00000	-0.01285	1
		2685	10.19048	110.00000	0.00000	0.00000	0.00000	-0.00419	1
		2686	15.28571	110.00000	0.00000	0.00000	0.00000	0.01062	1
		2687	20.38095	110.00000	0.00000	0.00000	0.00000	0.03515	1
		2688	25.47619	110.00000	0.00000	0.00000	0.00000	0.07495	1
		2689	30.57143	110.00000	0.00000	0.00000	0.00000	0.13846	1
		2690	35.66667	110.00000	0.00000	0.00000	0.00000	0.23810	1
		2691	40.76190	110.00000	0.00000	0.00000	0.00000	0.39101	1
		2692	45.85714	110.00000	0.00000	0.00000	0.00000	0.61489	1
		2693	50.95238	110.00000	0.00000	0.00000	0.00000	0.87372	1
		2694	56.04762	110.00000	0.00000	0.00000	0.00000	0.88452	1
		2695	61.14286	110.00000	0.00000	0.00000	0.00000	0.61091	1
		2696	66.23810	110.00000	0.00000	0.00000	0.00000	0.36572	1
		2697	71.33333	110.00000	0.00000	0.00000	0.00000	0.21556	1
		2698	76.42857	110.00000	0.00000	0.00000	0.00000	0.13036	1
		2699	81.52381	110.00000	0.00000	0.00000	0.00000	0.08445	1
		2700	86.61905	110.00000	0.00000	0.00000	0.00000	0.06352	1
		2701	91.71429	110.00000	0.00000	0.00000	0.00000	0.05992	1
		2702	96.80952	110.00000	0.00000	0.00000	0.00000	0.06932	1
		2703	101.90476	110.00000	0.00000	0.00000	0.00000	0.08864	1
		2704	107.00000	110.00000	0.00000	0.00000	0.00000	0.11824	1
		2705	0.00000	115.00000	0.00000	0.00000	0.00000	-0.01888	1
		2706	5.09524	115.00000	0.00000	0.00000	0.00000	-0.01540	1
		2707	10.19048	115.00000	0.00000	0.00000	0.00000	-0.00911	1
		2708	15.28571	115.00000	0.00000	0.00000	0.00000	0.00149	1
		2709	20.38095	115.00000	0.00000	0.00000	0.00000	0.01850	1
		2710	25.47619	115.00000	0.00000	0.00000	0.00000	0.04482	1
		2711	30.57143	115.00000	0.00000	0.00000	0.00000	0.08410	1
		2712	35.66667	115.00000	0.00000	0.00000	0.00000	0.14007	1
		2713	40.76190	115.00000	0.00000	0.00000	0.00000	0.21435	1
		2714	45.85714	115.00000	0.00000	0.00000	0.00000	0.29974	1
		2715	50.95238	115.00000	0.00000	0.00000	0.00000	0.36620	1
		2716	56.04762	115.00000	0.00000	0.00000	0.00000	0.36397	1
		2717	61.14286	115.00000	0.00000	0.00000	0.00000	0.29065	1
		2718	66.23810	115.00000	0.00000	0.00000	0.00000	0.19913	1
		2719	71.33333	115.00000	0.00000	0.00000	0.00000	0.12475	1
		2720	76.42857	115.00000	0.00000	0.00000	0.00000	0.07392	1
		2721	81.52381	115.00000	0.00000	0.00000	0.00000	0.04272	1
		2722	86.61905	115.00000	0.00000	0.00000	0.00000	0.02625	1
		2723	91.71429	115.00000	0.00000	0.00000	0.00000	0.02082	1
		2724	96.80952	115.00000	0.00000	0.00000	0.00000	0.02379	1
		2725	101.90476	115.00000	0.00000	0.00000	0.00000	0.03307	1
		2726	107.00000	115.00000	0.00000	0.00000	0.00000	0.06361	1
		2727	0.00000	120.00000	0.00000	0.00000	0.00000	-0.01997	1
		2728	5.09524	120.00000	0.00000	0.00000	0.00000	-0.01769	1
		2729	10.19048	120.00000	0.00000	0.00000	0.00000	-0.01344	1
		2730	15.28571	120.00000	0.00000	0.00000	0.00000	-0.00634	1
		2731	20.38095	120.00000	0.00000	0.00000	0.00000	0.00478	1
		2732	25.47619	120.00000	0.00000	0.00000	0.00000	0.02128	1
		2733	30.57143	120.00000	0.00000	0.00000	0.00000	0.04447	1
		2734	35.66667	120.00000	0.00000	0.00000	0.00000	0.07487	1
		2735	40.76190	120.00000	0.00000	0.00000	0.00000	0.11081	1
		2736	45.85714	120.00000	0.00000	0.00000	0.00000	0.14605	1
		2737	50.95238	120.00000	0.00000	0.00000	0.00000	0.16849	1
		2738	56.04762	120.00000	0.00000	0.00000	0.00000	0.16583	1
		2739	61.14286	120.00000	0.00000	0.00000	0.00000	0.13820	1
		2740	66.23810	120.00000	0.00000	0.00000	0.00000	0.09897	1
		2741	71.33333	120.00000	0.00000	0.00000	0.00000	0.06147	1
		2742	76.42857	120.00000	0.00000	0.00000	0.00000	0.03203	1
		2743	81.52381	120.00000	0.00000	0.00000	0.00000	0.01173	1
		2744	86.61905	120.00000	0.00000	0.00000	0.00000	-0.00042	1
		2745	91.71429	120.00000	0.00000	0.00000	0.00000	-0.00590	1
		2746	96.80952	120.00000	0.00000	0.00000	0.00000	-0.00609	1
		2747	101.90476	120.00000	0.00000	0.00000	0.00000	-0.00224	1
		2748	107.00000	120.00000	0.00000	0.00000	0.00000	0.02826	1
		2749	0.00000	125.00000	0.00000	0.00000	0.00000	-0.02082	1
		2750	5.09524	125.00000	0.00000	0.00000	0.00000	-0.01953	1
		2751	10.19048	125.00000	0.00000	0.00000	0.00000	-0.01693	1
		2752	15.28571	125.00000	0.00000	0.00000	0.00000	-0.01252	1
		2753	20.38095	125.00000	0.00000	0.00000	0.00000	-0.00570	1
		2754	25.47619	125.00000	0.00000	0.00000	0.00000	0.00411	1
		2755	30.57143	125.00000	0.00000	0.00000	0.00000	0.01722	1
		2756	35.66667	125.00000	0.00000	0.00000	0.00000	0.03329	1
		2757	40.76190	125.00000	0.00000	0.00000	0.00000	0.05069	1
		2758	45.85714	125.00000	0.00000	0.00000	0.00000	0.06598	1
		2759	50.95238	125.00000	0.00000	0.00000	0.00000	0.07435	1
		2760	56.04762	125.00000	0.00000	0.00000	0.00000	0.07198	1
		2761	61.14286	125.00000	0.00000	0.00000	0.00000	0.05912	1
		2762	66.23810	125.00000	0.00000	0.00000	0.00000	0.04011	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2763	71.33333	125.00000	0.00000	0.00000	0.00000	0.02021	1
		2764	76.42857	125.00000	0.00000	0.00000	0.00000	0.00298	1
		2765	81.52381	125.00000	0.00000	0.00000	0.00000	-0.01009	1
		2766	86.61905	125.00000	0.00000	0.00000	0.00000	-0.01882	1
		2767	91.71429	125.00000	0.00000	0.00000	0.00000	-0.02366	1
		2768	96.80952	125.00000	0.00000	0.00000	0.00000	-0.02523	1
		2769	101.90476	125.00000	0.00000	0.00000	0.00000	-0.02424	1
		2770	107.00000	125.00000	0.00000	0.00000	0.00000	0.00555	1
		2771	0.00000	130.00000	0.00000	0.00000	0.00000	-0.02137	1
		2772	5.09524	130.00000	0.00000	0.00000	0.00000	-0.02086	1
		2773	10.19048	130.00000	0.00000	0.00000	0.00000	-0.01951	1
		2774	15.28571	130.00000	0.00000	0.00000	0.00000	-0.01705	1
		2775	20.38095	130.00000	0.00000	0.00000	0.00000	-0.01319	1
		2776	25.47619	130.00000	0.00000	0.00000	0.00000	-0.00774	1
		2777	30.57143	130.00000	0.00000	0.00000	0.00000	-0.00071	1
		2778	35.66667	130.00000	0.00000	0.00000	0.00000	0.00746	1
		2779	40.76190	130.00000	0.00000	0.00000	0.00000	0.01570	1
		2780	45.85714	130.00000	0.00000	0.00000	0.00000	0.02227	1
		2781	50.95238	130.00000	0.00000	0.00000	0.00000	0.02517	1
		2782	56.04762	130.00000	0.00000	0.00000	0.00000	0.02301	1
		2783	61.14286	130.00000	0.00000	0.00000	0.00000	0.01596	1
		2784	66.23810	130.00000	0.00000	0.00000	0.00000	0.00567	1
		2785	71.33333	130.00000	0.00000	0.00000	0.00000	-0.00561	1
		2786	76.42857	130.00000	0.00000	0.00000	0.00000	-0.01606	1
		2787	81.52381	130.00000	0.00000	0.00000	0.00000	-0.02462	1
		2788	86.61905	130.00000	0.00000	0.00000	0.00000	-0.03089	1
		2789	91.71429	130.00000	0.00000	0.00000	0.00000	-0.03494	1
		2790	96.80952	130.00000	0.00000	0.00000	0.00000	-0.03699	1
		2791	101.90476	130.00000	0.00000	0.00000	0.00000	-0.03742	1
		2792	107.00000	130.00000	0.00000	0.00000	0.00000	-0.00884	1
		2793	0.00000	135.00000	0.00000	0.00000	0.00000	-0.02164	1
		2794	5.09524	135.00000	0.00000	0.00000	0.00000	-0.02169	1
		2795	10.19048	135.00000	0.00000	0.00000	0.00000	-0.02124	1
		2796	15.28571	135.00000	0.00000	0.00000	0.00000	-0.02012	1
		2797	20.38095	135.00000	0.00000	0.00000	0.00000	-0.01823	1
		2798	25.47619	135.00000	0.00000	0.00000	0.00000	-0.01551	1
		2799	30.57143	135.00000	0.00000	0.00000	0.00000	-0.01207	1
		2800	35.66667	135.00000	0.00000	0.00000	0.00000	-0.00823	1
		2801	40.76190	135.00000	0.00000	0.00000	0.00000	-0.00463	1
		2802	45.85714	135.00000	0.00000	0.00000	0.00000	-0.00214	1
		2803	50.95238	135.00000	0.00000	0.00000	0.00000	-0.00163	1
		2804	56.04762	135.00000	0.00000	0.00000	0.00000	-0.00365	1
		2805	61.14286	135.00000	0.00000	0.00000	0.00000	-0.00811	1
		2806	66.23810	135.00000	0.00000	0.00000	0.00000	-0.01430	1
		2807	71.33333	135.00000	0.00000	0.00000	0.00000	-0.02120	1
		2808	76.42857	135.00000	0.00000	0.00000	0.00000	-0.02787	1
		2809	81.52381	135.00000	0.00000	0.00000	0.00000	-0.03367	1
		2810	86.61905	135.00000	0.00000	0.00000	0.00000	-0.03827	1
		2811	91.71429	135.00000	0.00000	0.00000	0.00000	-0.04159	1
		2812	96.80952	135.00000	0.00000	0.00000	0.00000	-0.04370	1
		2813	101.90476	135.00000	0.00000	0.00000	0.00000	-0.04478	1
		2814	107.00000	135.00000	0.00000	0.00000	0.00000	-0.01769	1
		2815	0.00000	140.00000	0.00000	0.00000	0.00000	-0.02162	1
		2816	5.09524	140.00000	0.00000	0.00000	0.00000	-0.02208	1
		2817	10.19048	140.00000	0.00000	0.00000	0.00000	-0.02223	1
		2818	15.28571	140.00000	0.00000	0.00000	0.00000	-0.02201	1
		2819	20.38095	140.00000	0.00000	0.00000	0.00000	-0.02137	1
		2820	25.47619	140.00000	0.00000	0.00000	0.00000	-0.02032	1
		2821	30.57143	140.00000	0.00000	0.00000	0.00000	-0.01895	1
		2822	35.66667	140.00000	0.00000	0.00000	0.00000	-0.01749	1
		2823	40.76190	140.00000	0.00000	0.00000	0.00000	-0.01629	1
		2824	45.85714	140.00000	0.00000	0.00000	0.00000	-0.01578	1
		2825	50.95238	140.00000	0.00000	0.00000	0.00000	-0.01636	1
		2826	56.04762	140.00000	0.00000	0.00000	0.00000	-0.01827	1
		2827	61.14286	140.00000	0.00000	0.00000	0.00000	-0.02145	1
		2828	66.23810	140.00000	0.00000	0.00000	0.00000	-0.02557	1
		2829	71.33333	140.00000	0.00000	0.00000	0.00000	-0.03014	1
		2830	76.42857	140.00000	0.00000	0.00000	0.00000	-0.03467	1
		2831	81.52381	140.00000	0.00000	0.00000	0.00000	-0.03879	1
		2832	86.61905	140.00000	0.00000	0.00000	0.00000	-0.04226	1
		2833	91.71429	140.00000	0.00000	0.00000	0.00000	-0.04498	1
		2834	96.80952	140.00000	0.00000	0.00000	0.00000	-0.04697	1
		2835	101.90476	140.00000	0.00000	0.00000	0.00000	-0.04829	1
		2836	107.00000	140.00000	0.00000	0.00000	0.00000	-0.02288	1
		2837	0.00000	145.00000	0.00000	0.00000	0.00000	-0.02138	1
		2838	5.09524	145.00000	0.00000	0.00000	0.00000	-0.02209	1
		2839	10.19048	145.00000	0.00000	0.00000	0.00000	-0.02263	1
		2840	15.28571	145.00000	0.00000	0.00000	0.00000	-0.02297	1
		2841	20.38095	145.00000	0.00000	0.00000	0.00000	-0.02311	1
		2842	25.47619	145.00000	0.00000	0.00000	0.00000	-0.02304	1
		2843	30.57143	145.00000	0.00000	0.00000	0.00000	-0.02286	1
		2844	35.66667	145.00000	0.00000	0.00000	0.00000	-0.02269	1
		2845	40.76190	145.00000	0.00000	0.00000	0.00000	-0.02273	1
		2846	45.85714	145.00000	0.00000	0.00000	0.00000	-0.02320	1
		2847	50.95238	145.00000	0.00000	0.00000	0.00000	-0.02428	1
		2848	56.04762	145.00000	0.00000	0.00000	0.00000	-0.02608	1
		2849	61.14286	145.00000	0.00000	0.00000	0.00000	-0.02856	1
		2850	66.23810	145.00000	0.00000	0.00000	0.00000	-0.03156	1
		2851	71.33333	145.00000	0.00000	0.00000	0.00000	-0.03483	1
		2852	76.42857	145.00000	0.00000	0.00000	0.00000	-0.03811	1
		2853	81.52381	145.00000	0.00000	0.00000	0.00000	-0.04118	1
		2854	86.61905	145.00000	0.00000	0.00000	0.00000	-0.04388	1
		2855	91.71429	145.00000	0.00000	0.00000	0.00000	-0.04615	1
		2856	96.80952	145.00000	0.00000	0.00000	0.00000	-0.04794	1
		2857	101.90476	145.00000	0.00000	0.00000	0.00000	-0.04930	1
		2858	107.00000	145.00000	0.00000	0.00000	0.00000	-0.02563	1
		2859	0.00000	150.00000	0.00000	0.00000	0.00000	-0.02094	1
		2860	5.09524	150.00000	0.00000	0.00000	0.00000	-0.02180	1
		2861	10.19048	150.00000	0.00000	0.00000	0.00000	-0.02258	1
		2862	15.28571	150.00000	0.00000	0.00000	0.00000	-0.02327	1
		2863	20.38095	150.00000	0.00000	0.00000	0.00000	-0.02385	1
		2864	25.47619	150.00000	0.00000	0.00000	0.00000	-0.02436	1
		2865	30.57143	150.00000	0.00000	0.00000	0.00000	-0.02483	1
		2866	35.66667	150.00000	0.00000	0.00000	0.00000	-0.02535	1
		2867	40.76190	150.00000	0.00000	0.00000	0.00000	-0.02602	1
		2868	45.85714	150.00000	0.00000	0.00000	0.00000	-0.02695	1
		2869	50.95238	150.00000	0.00000	0.00000	0.00000	-0.02824	1
		2870	56.04762	150.00000	0.00000	0.00000	0.00000	-0.02992	1
		2871	61.14286	150.00000	0.00000	0.00000	0.00000	-0.03198	1
		2872	66.23810	150.00000	0.00000	0.00000	0.00000	-0.03433	1
		2873	71.33333	150.00000	0.00000	0.00000	0.00000	-0.03683	1
		2874	76.42857	150.00000	0.00000	0.00000	0.00000	-0.03934	1
		2875	81.52381	150.00000	0.00000	0.00000	0.00000	-0.04173	1
		2876	86.61905	150.00000	0.00000	0.00000	0.00000	-0.04391	1
		2877	91.71429	150.00000	0.00000	0.00000	0.00000	-0.04581	1
		2878	96.80952	150.00000	0.00000	0.00000	0.00000	-0.04741	1
		2879	101.90476	150.00000	0.00000	0.00000	0.00000	-0.04870	1
		2880	107.00000	150.00000	0.00000	0.00000	0.00000	-0.02678	1
		2881	112.15000	0.00000	0.00000	0.00000	0.00000	-0.00249	1
		2882	117.30000	0.00000	0.00000	0.00000	0.00000	0.00208	1
		2883	122.45000	0.00000	0.00000	0.00000	0.00000	0.00655	1
		2884	127.60000	0.00000	0.00000	0.00000	0.00000	0.01063	1
		2885	132.75000	0.00000	0.00000	0.00000	0.00000	0.01404	1
		2886	137.90000	0.00000	0.00000	0.00000	0.00000	0.01650	1
		2887	143.05000	0.00000	0.00000	0.00000	0.00000	0.01781	1
		2888	148.20000	0.00000	0.00000	0.00000	0.00000	0.01782	1
		2889	153.35000	0.00000	0.00000	0.00000	0.00000	0.01649	1
		2890	158.50000	0.00000	0.00000	0.00000	0.00000	0.01388	1
		2891	163.65000	0.00000	0.00000	0.00000	0.00000	0.01015	1
		2892	168.80000	0.00000	0.00000	0.00000	0.00000	0.00559	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		2893	173.95000	0.00000	0.00000	0.00000	0.00000	0.00053	1
		2894	179.10000	0.00000	0.00000	0.00000	0.00000	-0.00464	1
		2895	184.25000	0.00000	0.00000	0.00000	0.00000	-0.00956	1
		2896	189.40000	0.00000	0.00000	0.00000	0.00000	-0.01392	1
		2897	194.55000	0.00000	0.00000	0.00000	0.00000	-0.01754	1
		2898	199.70000	0.00000	0.00000	0.00000	0.00000	-0.02033	1
		2899	204.85000	0.00000	0.00000	0.00000	0.00000	-0.02229	1
		2900	210.00000	0.00000	0.00000	0.00000	0.00000	-0.02348	1
		2901	112.15000	5.00000	0.00000	0.00000	0.00000	0.01696	1
		2902	117.30000	5.00000	0.00000	0.00000	0.00000	0.02484	1
		2903	122.45000	5.00000	0.00000	0.00000	0.00000	0.03252	1
		2904	127.60000	5.00000	0.00000	0.00000	0.00000	0.03952	1
		2905	132.75000	5.00000	0.00000	0.00000	0.00000	0.04535	1
		2906	137.90000	5.00000	0.00000	0.00000	0.00000	0.04957	1
		2907	143.05000	5.00000	0.00000	0.00000	0.00000	0.05180	1
		2908	148.20000	5.00000	0.00000	0.00000	0.00000	0.05179	1
		2909	153.35000	5.00000	0.00000	0.00000	0.00000	0.04946	1
		2910	158.50000	5.00000	0.00000	0.00000	0.00000	0.04488	1
		2911	163.65000	5.00000	0.00000	0.00000	0.00000	0.03835	1
		2912	168.80000	5.00000	0.00000	0.00000	0.00000	0.03032	1
		2913	173.95000	5.00000	0.00000	0.00000	0.00000	0.02140	1
		2914	179.10000	5.00000	0.00000	0.00000	0.00000	0.01227	1
		2915	184.25000	5.00000	0.00000	0.00000	0.00000	0.00359	1
		2916	189.40000	5.00000	0.00000	0.00000	0.00000	-0.00414	1
		2917	194.55000	5.00000	0.00000	0.00000	0.00000	-0.01059	1
		2918	199.70000	5.00000	0.00000	0.00000	0.00000	-0.01564	1
		2919	204.85000	5.00000	0.00000	0.00000	0.00000	-0.01933	1
		2920	210.00000	5.00000	0.00000	0.00000	0.00000	-0.02178	1
		2921	112.15000	10.00000	0.00000	0.00000	0.00000	0.04797	1
		2922	117.30000	10.00000	0.00000	0.00000	0.00000	0.06128	1
		2923	122.45000	10.00000	0.00000	0.00000	0.00000	0.07428	1
		2924	127.60000	10.00000	0.00000	0.00000	0.00000	0.08617	1
		2925	132.75000	10.00000	0.00000	0.00000	0.00000	0.09611	1
		2926	137.90000	10.00000	0.00000	0.00000	0.00000	0.10332	1
		2927	143.05000	10.00000	0.00000	0.00000	0.00000	0.10717	1
		2928	148.20000	10.00000	0.00000	0.00000	0.00000	0.10721	1
		2929	153.35000	10.00000	0.00000	0.00000	0.00000	0.10327	1
		2930	158.50000	10.00000	0.00000	0.00000	0.00000	0.09548	1
		2931	163.65000	10.00000	0.00000	0.00000	0.00000	0.08426	1
		2932	168.80000	10.00000	0.00000	0.00000	0.00000	0.07041	1
		2933	173.95000	10.00000	0.00000	0.00000	0.00000	0.05500	1
		2934	179.10000	10.00000	0.00000	0.00000	0.00000	0.03925	1
		2935	184.25000	10.00000	0.00000	0.00000	0.00000	0.02434	1
		2936	189.40000	10.00000	0.00000	0.00000	0.00000	0.01114	1
		2937	194.55000	10.00000	0.00000	0.00000	0.00000	0.00020	1
		2938	199.70000	10.00000	0.00000	0.00000	0.00000	-0.00836	1
		2939	204.85000	10.00000	0.00000	0.00000	0.00000	-0.01465	1
		2940	210.00000	10.00000	0.00000	0.00000	0.00000	-0.01897	1
		2941	112.15000	15.00000	0.00000	0.00000	0.00000	0.09676	1
		2942	117.30000	15.00000	0.00000	0.00000	0.00000	0.11906	1
		2943	122.45000	15.00000	0.00000	0.00000	0.00000	0.14093	1
		2944	127.60000	15.00000	0.00000	0.00000	0.00000	0.16103	1
		2945	132.75000	15.00000	0.00000	0.00000	0.00000	0.17794	1
		2946	137.90000	15.00000	0.00000	0.00000	0.00000	0.19030	1
		2947	143.05000	15.00000	0.00000	0.00000	0.00000	0.19701	1
		2948	148.20000	15.00000	0.00000	0.00000	0.00000	0.19730	1
		2949	153.35000	15.00000	0.00000	0.00000	0.00000	0.19083	1
		2950	158.50000	15.00000	0.00000	0.00000	0.00000	0.17774	1
		2951	163.65000	15.00000	0.00000	0.00000	0.00000	0.15870	1
		2952	168.80000	15.00000	0.00000	0.00000	0.00000	0.13502	1
		2953	173.95000	15.00000	0.00000	0.00000	0.00000	0.10858	1
		2954	179.10000	15.00000	0.00000	0.00000	0.00000	0.08165	1
		2955	184.25000	15.00000	0.00000	0.00000	0.00000	0.05637	1
		2956	189.40000	15.00000	0.00000	0.00000	0.00000	0.03430	1
		2957	194.55000	15.00000	0.00000	0.00000	0.00000	0.01627	1
		2958	199.70000	15.00000	0.00000	0.00000	0.00000	0.00236	1
		2959	204.85000	15.00000	0.00000	0.00000	0.00000	-0.00778	1
		2960	210.00000	15.00000	0.00000	0.00000	0.00000	-0.01479	1
		2961	112.15000	20.00000	0.00000	0.00000	0.00000	0.17313	1
		2962	117.30000	20.00000	0.00000	0.00000	0.00000	0.21037	1
		2963	122.45000	20.00000	0.00000	0.00000	0.00000	0.24712	1
		2964	127.60000	20.00000	0.00000	0.00000	0.00000	0.28113	1
		2965	132.75000	20.00000	0.00000	0.00000	0.00000	0.31000	1
		2966	137.90000	20.00000	0.00000	0.00000	0.00000	0.33134	1
		2967	143.05000	20.00000	0.00000	0.00000	0.00000	0.34316	1
		2968	148.20000	20.00000	0.00000	0.00000	0.00000	0.34416	1
		2969	153.35000	20.00000	0.00000	0.00000	0.00000	0.33373	1
		2970	158.50000	20.00000	0.00000	0.00000	0.00000	0.31197	1
		2971	163.65000	20.00000	0.00000	0.00000	0.00000	0.27980	1
		2972	168.80000	20.00000	0.00000	0.00000	0.00000	0.23929	1
		2973	173.95000	20.00000	0.00000	0.00000	0.00000	0.19386	1
		2974	179.10000	20.00000	0.00000	0.00000	0.00000	0.14775	1
		2975	184.25000	20.00000	0.00000	0.00000	0.00000	0.10503	1
		2976	189.40000	20.00000	0.00000	0.00000	0.00000	0.06852	1
		2977	194.55000	20.00000	0.00000	0.00000	0.00000	0.03939	1
		2978	199.70000	20.00000	0.00000	0.00000	0.00000	0.01745	1
		2979	204.85000	20.00000	0.00000	0.00000	0.00000	0.00172	1
		2980	210.00000	20.00000	0.00000	0.00000	0.00000	-0.00902	1
		2981	112.15000	25.00000	0.00000	0.00000	0.00000	0.29273	1
		2982	117.30000	25.00000	0.00000	0.00000	0.00000	0.35504	1
		2983	122.45000	25.00000	0.00000	0.00000	0.00000	0.41694	1
		2984	127.60000	25.00000	0.00000	0.00000	0.00000	0.47484	1
		2985	132.75000	25.00000	0.00000	0.00000	0.00000	0.52461	1
		2986	137.90000	25.00000	0.00000	0.00000	0.00000	0.56186	1
		2987	143.05000	25.00000	0.00000	0.00000	0.00000	0.58291	1
		2988	148.20000	25.00000	0.00000	0.00000	0.00000	0.58562	1
		2989	153.35000	25.00000	0.00000	0.00000	0.00000	0.56908	1
		2990	158.50000	25.00000	0.00000	0.00000	0.00000	0.53318	1
		2991	163.65000	25.00000	0.00000	0.00000	0.00000	0.47888	1
		2992	168.80000	25.00000	0.00000	0.00000	0.00000	0.40919	1
		2993	173.95000	25.00000	0.00000	0.00000	0.00000	0.33021	1
		2994	179.10000	25.00000	0.00000	0.00000	0.00000	0.25040	1
		2995	184.25000	25.00000	0.00000	0.00000	0.00000	0.17791	1
		2996	189.40000	25.00000	0.00000	0.00000	0.00000	0.11783	1
		2997	194.55000	25.00000	0.00000	0.00000	0.00000	0.07151	1
		2998	199.70000	25.00000	0.00000	0.00000	0.00000	0.03776	1
		2999	204.85000	25.00000	0.00000	0.00000	0.00000	0.01423	1
		3000	210.00000	25.00000	0.00000	0.00000	0.00000	-0.00154	1
		3001	112.15000	30.00000	0.00000	0.00000	0.00000	0.48144	1
		3002	117.30000	30.00000	0.00000	0.00000	0.00000	0.58632	1
		3003	122.45000	30.00000	0.00000	0.00000	0.00000	0.69120	1
		3004	127.60000	30.00000	0.00000	0.00000	0.00000	0.79092	1
		3005	132.75000	30.00000	0.00000	0.00000	0.00000	0.87854	1
		3006	137.90000	30.00000	0.00000	0.00000	0.00000	0.94495	1
		3007	143.05000	30.00000	0.00000	0.00000	0.00000	0.98286	1
		3008	148.20000	30.00000	0.00000	0.00000	0.00000	0.98924	1
		3009	153.35000	30.00000	0.00000	0.00000	0.00000	0.96340	1
		3010	158.50000	30.00000	0.00000	0.00000	0.00000	0.90475	1
		3011	163.65000	30.00000	0.00000	0.00000	0.00000	0.81312	1
		3012	168.80000	30.00000	0.00000	0.00000	0.00000	0.69172	1
		3013	173.95000	30.00000	0.00000	0.00000	0.00000	0.55125	1
		3014	179.10000	30.00000	0.00000	0.00000	0.00000	0.40989	1
		3015	184.25000	30.00000	0.00000	0.00000	0.00000	0.28535	1
		3016	189.40000	30.00000	0.00000	0.00000	0.00000	0.18675	1
		3017	194.55000	30.00000	0.00000	0.00000	0.00000	0.11434	1
		3018	199.70000	30.00000	0.00000	0.00000	0.00000	0.06379	1
		3019	204.85000	30.00000	0.00000	0.00000	0.00000	0.02978	1
		3020	210.00000	30.00000	0.00000	0.00000	0.00000	0.00758	1
		3021	112.15000	35.00000	0.00000	0.00000	0.00000	0.78450	1
		3022	117.30000	35.00000	0.00000	0.00000	0.00000	0.96319	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		3023	122.45000	35.00000	0.00000	0.00000	0.00000	1.14245	1
		3024	127.60000	35.00000	0.00000	0.00000	0.00000	1.31782	1
		3025	132.75000	35.00000	0.00000	0.00000	0.00000	1.47905	1
		3026	137.90000	35.00000	0.00000	0.00000	0.00000	1.60262	1
		3027	143.05000	35.00000	0.00000	0.00000	0.00000	1.67164	1
		3028	148.20000	35.00000	0.00000	0.00000	0.00000	1.68499	1
		3029	153.35000	35.00000	0.00000	0.00000	0.00000	1.64523	1
		3030	158.50000	35.00000	0.00000	0.00000	0.00000	1.55092	1
		3031	163.65000	35.00000	0.00000	0.00000	0.00000	1.39692	1
		3032	168.80000	35.00000	0.00000	0.00000	0.00000	1.18120	1
		3033	173.95000	35.00000	0.00000	0.00000	0.00000	0.92031	1
		3034	179.10000	35.00000	0.00000	0.00000	0.00000	0.65861	1
		3035	184.25000	35.00000	0.00000	0.00000	0.00000	0.44001	1
		3036	189.40000	35.00000	0.00000	0.00000	0.00000	0.27899	1
		3037	194.55000	35.00000	0.00000	0.00000	0.00000	0.16836	1
		3038	199.70000	35.00000	0.00000	0.00000	0.00000	0.09519	1
		3039	204.85000	35.00000	0.00000	0.00000	0.00000	0.04792	1
		3040	210.00000	35.00000	0.00000	0.00000	0.00000	0.01797	1
		3041	112.15000	40.00000	0.00000	0.00000	0.00000	1.28987	1
		3042	117.30000	40.00000	0.00000	0.00000	0.00000	1.60261	1
		3043	122.45000	40.00000	0.00000	0.00000	0.00000	1.91190	1
		3044	127.60000	40.00000	0.00000	0.00000	0.00000	2.23057	1
		3045	132.75000	40.00000	0.00000	0.00000	0.00000	2.56234	1
		3046	137.90000	40.00000	0.00000	0.00000	0.00000	2.81457	1
		3047	143.05000	40.00000	0.00000	0.00000	0.00000	2.93990	1
		3048	148.20000	40.00000	0.00000	0.00000	0.00000	2.96368	1
		3049	153.35000	40.00000	0.00000	0.00000	0.00000	2.90336	1
		3050	158.50000	40.00000	0.00000	0.00000	0.00000	2.75606	1
		3051	163.65000	40.00000	0.00000	0.00000	0.00000	2.50157	1
		3052	168.80000	40.00000	0.00000	0.00000	0.00000	2.10836	1
		3053	173.95000	40.00000	0.00000	0.00000	0.00000	1.57863	1
		3054	179.10000	40.00000	0.00000	0.00000	0.00000	1.04808	1
		3055	184.25000	40.00000	0.00000	0.00000	0.00000	0.65249	1
		3056	189.40000	40.00000	0.00000	0.00000	0.00000	0.39392	1
		3057	194.55000	40.00000	0.00000	0.00000	0.00000	0.23128	1
		3058	199.70000	40.00000	0.00000	0.00000	0.00000	0.13007	1
		3059	204.85000	40.00000	0.00000	0.00000	0.00000	0.06741	1
		3060	210.00000	40.00000	0.00000	0.00000	0.00000	0.02887	1
		3061	112.15000	45.00000	0.00000	0.00000	0.00000	2.20429	1
		3062	117.30000	45.00000	0.00000	0.00000	0.00000	2.79788	1
		3063	122.45000	45.00000	0.00000	0.00000	0.00000	3.33544	1
		3064	127.60000	45.00000	0.00000	0.00000	0.00000	3.92202	1
		3065	132.75000	45.00000	0.00000	0.00000	0.00000	4.92291	1
		3066	137.90000	45.00000	0.00000	0.00000	0.00000	5.55374	1
		3067	143.05000	45.00000	0.00000	0.00000	0.00000	5.76220	1
		3068	148.20000	45.00000	0.00000	0.00000	0.00000	5.79363	1
		3069	153.35000	45.00000	0.00000	0.00000	0.00000	5.70339	1
		3070	158.50000	45.00000	0.00000	0.00000	0.00000	5.48412	1
		3071	163.65000	45.00000	0.00000	0.00000	0.00000	5.08340	1
		3072	168.80000	45.00000	0.00000	0.00000	0.00000	4.36644	1
		3073	173.95000	45.00000	0.00000	0.00000	0.00000	2.99144	1
		3074	179.10000	45.00000	0.00000	0.00000	0.00000	1.64246	1
		3075	184.25000	45.00000	0.00000	0.00000	0.00000	0.91419	1
		3076	189.40000	45.00000	0.00000	0.00000	0.00000	0.52046	1
		3077	194.55000	45.00000	0.00000	0.00000	0.00000	0.29628	1
		3078	199.70000	45.00000	0.00000	0.00000	0.00000	0.16468	1
		3079	204.85000	45.00000	0.00000	0.00000	0.00000	0.08623	1
		3080	210.00000	45.00000	0.00000	0.00000	0.00000	0.03921	1
		3081	112.15000	50.00000	0.00000	0.00000	0.00000	4.32714	1
		3082	117.30000	50.00000	0.00000	0.00000	0.00000	5.97523	1
		3083	122.45000	50.00000	0.00000	0.00000	0.00000	6.92143	1
		3084	127.60000	50.00000	0.00000	0.00000	0.00000	7.73124	1
		3085	132.75000	50.00000	0.00000	0.00000	0.00000	11.66654	1
		3086	137.90000	50.00000	0.00000	0.00000	0.00000	12.74350	1
		3087	143.05000	50.00000	0.00000	0.00000	0.00000	12.98555	1
		3088	148.20000	50.00000	0.00000	0.00000	0.00000	13.00603	1
		3089	153.35000	50.00000	0.00000	0.00000	0.00000	12.87459	1
		3090	158.50000	50.00000	0.00000	0.00000	0.00000	12.56830	1
		3091	163.65000	50.00000	0.00000	0.00000	0.00000	11.98968	1
		3092	168.80000	50.00000	0.00000	0.00000	0.00000	10.86193	1
		3093	173.95000	50.00000	0.00000	0.00000	0.00000	7.88812	1
		3094	179.10000	50.00000	0.00000	0.00000	0.00000	2.33797	1
		3095	184.25000	50.00000	0.00000	0.00000	0.00000	1.16248	1
		3096	189.40000	50.00000	0.00000	0.00000	0.00000	0.63282	1
		3097	194.55000	50.00000	0.00000	0.00000	0.00000	0.35217	1
		3098	199.70000	50.00000	0.00000	0.00000	0.00000	0.19386	1
		3099	204.85000	50.00000	0.00000	0.00000	0.00000	0.10188	1
		3100	210.00000	50.00000	0.00000	0.00000	0.00000	0.04771	1
		3101	112.15000	55.00000	0.00000	0.00000	0.00000	9.64475	1
		3102	117.30000	55.00000	0.00000	0.00000	0.00000	12.09543	1
		3103	122.45000	55.00000	0.00000	0.00000	0.00000	13.20961	1
		3104	127.60000	55.00000	0.00000	0.00000	0.00000	13.92355	1
		3105	132.75000	55.00000	0.00000	0.00000	0.00000	14.59939	1
		3106	137.90000	55.00000	0.00000	0.00000	0.00000	15.05019	1
		3107	143.05000	55.00000	0.00000	0.00000	0.00000	15.22057	1
		3108	148.20000	55.00000	0.00000	0.00000	0.00000	15.20619	1
		3109	153.35000	55.00000	0.00000	0.00000	0.00000	15.02495	1
		3110	158.50000	55.00000	0.00000	0.00000	0.00000	14.62408	1
		3111	163.65000	55.00000	0.00000	0.00000	0.00000	13.85377	1
		3112	168.80000	55.00000	0.00000	0.00000	0.00000	12.31275	1
		3113	173.95000	55.00000	0.00000	0.00000	0.00000	7.24318	1
		3114	179.10000	55.00000	0.00000	0.00000	0.00000	2.60007	1
		3115	184.25000	55.00000	0.00000	0.00000	0.00000	1.29876	1
		3116	189.40000	55.00000	0.00000	0.00000	0.00000	0.70095	1
		3117	194.55000	55.00000	0.00000	0.00000	0.00000	0.38741	1
		3118	199.70000	55.00000	0.00000	0.00000	0.00000	0.21258	1
		3119	204.85000	55.00000	0.00000	0.00000	0.00000	0.11199	1
		3120	210.00000	55.00000	0.00000	0.00000	0.00000	0.05322	1
		3121	112.15000	60.00000	0.00000	0.00000	0.00000	11.37452	1
		3122	117.30000	60.00000	0.00000	0.00000	0.00000	13.58355	1
		3123	122.45000	60.00000	0.00000	0.00000	0.00000	14.67099	1
		3124	127.60000	60.00000	0.00000	0.00000	0.00000	15.31131	1
		3125	132.75000	60.00000	0.00000	0.00000	0.00000	15.73348	1
		3126	137.90000	60.00000	0.00000	0.00000	0.00000	15.98879	1
		3127	143.05000	60.00000	0.00000	0.00000	0.00000	16.08460	1
		3128	148.20000	60.00000	0.00000	0.00000	0.00000	16.02906	1
		3129	153.35000	60.00000	0.00000	0.00000	0.00000	15.79848	1
		3130	158.50000	60.00000	0.00000	0.00000	0.00000	15.30426	1
		3131	163.65000	60.00000	0.00000	0.00000	0.00000	14.32446	1
		3132	168.80000	60.00000	0.00000	0.00000	0.00000	12.23308	1
		3133	173.95000	60.00000	0.00000	0.00000	0.00000	5.42860	1
		3134	179.10000	60.00000	0.00000	0.00000	0.00000	2.47091	1
		3135	184.25000	60.00000	0.00000	0.00000	0.00000	1.29616	1
		3136	189.40000	60.00000	0.00000	0.00000	0.00000	0.71138	1
		3137	194.55000	60.00000	0.00000	0.00000	0.00000	0.39575	1
		3138	199.70000	60.00000	0.00000	0.00000	0.00000	0.21787	1
		3139	204.85000	60.00000	0.00000	0.00000	0.00000	0.11512	1
		3140	210.00000	60.00000	0.00000	0.00000	0.00000	0.05500	1
		3141	112.15000	65.00000	0.00000	0.00000	0.00000	11.02568	1
		3142	117.30000	65.00000	0.00000	0.00000	0.00000	13.78606	1
		3143	122.45000	65.00000	0.00000	0.00000	0.00000	14.96330	1
		3144	127.60000	65.00000	0.00000	0.00000	0.00000	15.58455	1
		3145	132.75000	65.00000	0.00000	0.00000	0.00000	15.93718	1
		3146	137.90000	65.00000	0.00000	0.00000	0.00000	16.12253	1
		3147	143.05000	65.00000	0.00000	0.00000	0.00000	16.17277	1
		3148	148.20000	65.00000	0.00000	0.00000	0.00000	16.08582	1
		3149	153.35000	65.00000	0.00000	0.00000	0.00000	15.81891	1
		3150	158.50000	65.00000	0.00000	0.00000	0.00000	15.24942	1
		3151	163.65000	65.00000	0.00000	0.00000	0.00000	14.04363	1
		3152	168.80000	65.00000	0.00000	0.00000	0.00000	11.00207	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		3153	173.95000	65.00000	0.00000	0.00000	0.00000	4.23001	1
		3154	179.10000	65.00000	0.00000	0.00000	0.00000	2.17556	1
		3155	184.25000	65.00000	0.00000	0.00000	0.00000	1.19439	1
		3156	189.40000	65.00000	0.00000	0.00000	0.00000	0.67114	1
		3157	194.55000	65.00000	0.00000	0.00000	0.00000	0.37822	1
		3158	199.70000	65.00000	0.00000	0.00000	0.00000	0.20967	1
		3159	204.85000	65.00000	0.00000	0.00000	0.00000	0.11108	1
		3160	210.00000	65.00000	0.00000	0.00000	0.00000	0.05292	1
		3161	112.15000	70.00000	0.00000	0.00000	0.00000	9.01329	1
		3162	117.30000	70.00000	0.00000	0.00000	0.00000	13.15949	1
		3163	122.45000	70.00000	0.00000	0.00000	0.00000	14.42608	1
		3164	127.60000	70.00000	0.00000	0.00000	0.00000	15.02983	1
		3165	132.75000	70.00000	0.00000	0.00000	0.00000	15.34367	1
		3166	137.90000	70.00000	0.00000	0.00000	0.00000	15.49164	1
		3167	143.05000	70.00000	0.00000	0.00000	0.00000	15.51444	1
		3168	148.20000	70.00000	0.00000	0.00000	0.00000	15.41091	1
		3169	153.35000	70.00000	0.00000	0.00000	0.00000	15.13320	1
		3170	158.50000	70.00000	0.00000	0.00000	0.00000	14.54075	1
		3171	163.65000	70.00000	0.00000	0.00000	0.00000	13.20066	1
		3172	168.80000	70.00000	0.00000	0.00000	0.00000	7.49445	1
		3173	173.95000	70.00000	0.00000	0.00000	0.00000	3.37457	1
		3174	179.10000	70.00000	0.00000	0.00000	0.00000	1.83023	1
		3175	184.25000	70.00000	0.00000	0.00000	0.00000	1.03756	1
		3176	189.40000	70.00000	0.00000	0.00000	0.00000	0.59587	1
		3177	194.55000	70.00000	0.00000	0.00000	0.00000	0.34061	1
		3178	199.70000	70.00000	0.00000	0.00000	0.00000	0.19026	1
		3179	204.85000	70.00000	0.00000	0.00000	0.00000	0.10082	1
		3180	210.00000	70.00000	0.00000	0.00000	0.00000	0.04740	1
		3181	112.15000	75.00000	0.00000	0.00000	0.00000	7.24626	1
		3182	117.30000	75.00000	0.00000	0.00000	0.00000	11.49361	1
		3183	122.45000	75.00000	0.00000	0.00000	0.00000	12.73597	1
		3184	127.60000	75.00000	0.00000	0.00000	0.00000	13.27320	1
		3185	132.75000	75.00000	0.00000	0.00000	0.00000	13.54130	1
		3186	137.90000	75.00000	0.00000	0.00000	0.00000	13.65761	1
		3187	143.05000	75.00000	0.00000	0.00000	0.00000	13.65538	1
		3188	148.20000	75.00000	0.00000	0.00000	0.00000	13.54619	1
		3189	153.35000	75.00000	0.00000	0.00000	0.00000	13.28963	1
		3190	158.50000	75.00000	0.00000	0.00000	0.00000	12.75765	1
		3191	163.65000	75.00000	0.00000	0.00000	0.00000	11.56281	1
		3192	168.80000	75.00000	0.00000	0.00000	0.00000	6.20237	1
		3193	173.95000	75.00000	0.00000	0.00000	0.00000	2.65326	1
		3194	179.10000	75.00000	0.00000	0.00000	0.00000	1.47036	1
		3195	184.25000	75.00000	0.00000	0.00000	0.00000	0.85472	1
		3196	189.40000	75.00000	0.00000	0.00000	0.00000	0.50089	1
		3197	194.55000	75.00000	0.00000	0.00000	0.00000	0.29030	1
		3198	199.70000	75.00000	0.00000	0.00000	0.00000	0.16318	1
		3199	204.85000	75.00000	0.00000	0.00000	0.00000	0.08604	1
		3200	210.00000	75.00000	0.00000	0.00000	0.00000	0.03927	1
		3201	112.15000	80.00000	0.00000	0.00000	0.00000	3.77797	1
		3202	117.30000	80.00000	0.00000	0.00000	0.00000	5.35296	1
		3203	122.45000	80.00000	0.00000	0.00000	0.00000	6.15460	1
		3204	127.60000	80.00000	0.00000	0.00000	0.00000	6.55718	1
		3205	132.75000	80.00000	0.00000	0.00000	0.00000	6.76539	1
		3206	137.90000	80.00000	0.00000	0.00000	0.00000	6.85164	1
		3207	143.05000	80.00000	0.00000	0.00000	0.00000	6.80324	1
		3208	148.20000	80.00000	0.00000	0.00000	0.00000	6.69629	1
		3209	153.35000	80.00000	0.00000	0.00000	0.00000	6.48740	1
		3210	158.50000	80.00000	0.00000	0.00000	0.00000	6.08379	1
		3211	163.65000	80.00000	0.00000	0.00000	0.00000	5.28745	1
		3212	168.80000	80.00000	0.00000	0.00000	0.00000	3.49945	1
		3213	173.95000	80.00000	0.00000	0.00000	0.00000	1.88384	1
		3214	179.10000	80.00000	0.00000	0.00000	0.00000	1.10738	1
		3215	184.25000	80.00000	0.00000	0.00000	0.00000	0.66587	1
		3216	189.40000	80.00000	0.00000	0.00000	0.00000	0.39910	1
		3217	194.55000	80.00000	0.00000	0.00000	0.00000	0.23445	1
		3218	199.70000	80.00000	0.00000	0.00000	0.00000	0.13219	1
		3219	204.85000	80.00000	0.00000	0.00000	0.00000	0.06872	1
		3220	210.00000	80.00000	0.00000	0.00000	0.00000	0.02957	1
		3221	112.15000	85.00000	0.00000	0.00000	0.00000	1.93668	1
		3222	117.30000	85.00000	0.00000	0.00000	0.00000	2.48392	1
		3223	122.45000	85.00000	0.00000	0.00000	0.00000	2.89819	1
		3224	127.60000	85.00000	0.00000	0.00000	0.00000	3.15760	1
		3225	132.75000	85.00000	0.00000	0.00000	0.00000	3.30395	1
		3226	137.90000	85.00000	0.00000	0.00000	0.00000	3.36755	1
		3227	143.05000	85.00000	0.00000	0.00000	0.00000	3.36158	1
		3228	148.20000	85.00000	0.00000	0.00000	0.00000	3.29021	1
		3229	153.35000	85.00000	0.00000	0.00000	0.00000	3.13920	1
		3230	158.50000	85.00000	0.00000	0.00000	0.00000	2.87209	1
		3231	163.65000	85.00000	0.00000	0.00000	0.00000	2.43657	1
		3232	168.80000	85.00000	0.00000	0.00000	0.00000	1.82421	1
		3233	173.95000	85.00000	0.00000	0.00000	0.00000	1.21919	1
		3234	179.10000	85.00000	0.00000	0.00000	0.00000	0.78060	1
		3235	184.25000	85.00000	0.00000	0.00000	0.00000	0.49034	1
		3236	189.40000	85.00000	0.00000	0.00000	0.00000	0.30139	1
		3237	194.55000	85.00000	0.00000	0.00000	0.00000	0.17918	1
		3238	199.70000	85.00000	0.00000	0.00000	0.00000	0.10069	1
		3239	204.85000	85.00000	0.00000	0.00000	0.00000	0.05073	1
		3240	210.00000	85.00000	0.00000	0.00000	0.00000	0.01931	1
		3241	112.15000	90.00000	0.00000	0.00000	0.00000	1.12693	1
		3242	117.30000	90.00000	0.00000	0.00000	0.00000	1.39190	1
		3243	122.45000	90.00000	0.00000	0.00000	0.00000	1.61275	1
		3244	127.60000	90.00000	0.00000	0.00000	0.00000	1.76923	1
		3245	132.75000	90.00000	0.00000	0.00000	0.00000	1.86484	1
		3246	137.90000	90.00000	0.00000	0.00000	0.00000	1.90857	1
		3247	143.05000	90.00000	0.00000	0.00000	0.00000	1.90609	1
		3248	148.20000	90.00000	0.00000	0.00000	0.00000	1.85768	1
		3249	153.35000	90.00000	0.00000	0.00000	0.00000	1.75688	1
		3250	158.50000	90.00000	0.00000	0.00000	0.00000	1.59197	1
		3251	163.65000	90.00000	0.00000	0.00000	0.00000	1.35490	1
		3252	168.80000	90.00000	0.00000	0.00000	0.00000	1.06252	1
		3253	173.95000	90.00000	0.00000	0.00000	0.00000	0.76877	1
		3254	179.10000	90.00000	0.00000	0.00000	0.00000	0.52445	1
		3255	184.25000	90.00000	0.00000	0.00000	0.00000	0.34303	1
		3256	189.40000	90.00000	0.00000	0.00000	0.00000	0.21571	1
		3257	194.55000	90.00000	0.00000	0.00000	0.00000	0.12906	1
		3258	199.70000	90.00000	0.00000	0.00000	0.00000	0.07134	1
		3259	204.85000	90.00000	0.00000	0.00000	0.00000	0.03359	1
		3260	210.00000	90.00000	0.00000	0.00000	0.00000	0.00937	1
		3261	112.15000	95.00000	0.00000	0.00000	0.00000	0.67884	1
		3262	117.30000	95.00000	0.00000	0.00000	0.00000	0.82013	1
		3263	122.45000	95.00000	0.00000	0.00000	0.00000	0.94276	1
		3264	127.60000	95.00000	0.00000	0.00000	0.00000	1.03536	1
		3265	132.75000	95.00000	0.00000	0.00000	0.00000	1.09510	1
		3266	137.90000	95.00000	0.00000	0.00000	0.00000	1.12334	1
		3267	143.05000	95.00000	0.00000	0.00000	0.00000	1.12162	1
		3268	148.20000	95.00000	0.00000	0.00000	0.00000	1.08975	1
		3269	153.35000	95.00000	0.00000	0.00000	0.00000	1.02546	1
		3270	158.50000	95.00000	0.00000	0.00000	0.00000	0.92608	1
		3271	163.65000	95.00000	0.00000	0.00000	0.00000	0.79297	1
		3272	168.80000	95.00000	0.00000	0.00000	0.00000	0.63719	1
		3273	173.95000	95.00000	0.00000	0.00000	0.00000	0.47955	1
		3274	179.10000	95.00000	0.00000	0.00000	0.00000	0.34020	1
		3275	184.25000	95.00000	0.00000	0.00000	0.00000	0.22894	1
		3276	189.40000	95.00000	0.00000	0.00000	0.00000	0.14592	1
		3277	194.55000	95.00000	0.00000	0.00000	0.00000	0.08670	1
		3278	199.70000	95.00000	0.00000	0.00000	0.00000	0.04581	1
		3279	204.85000	95.00000	0.00000	0.00000	0.00000	0.01834	1
		3280	210.00000	95.00000	0.00000	0.00000	0.00000	0.00039	1
		3281	112.15000	100.00000	0.00000	0.00000	0.00000	0.41169	1
		3282	117.30000	100.00000	0.00000	0.00000	0.00000	0.49022	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		3283	122.45000	100.00000	0.00000	0.00000	0.00000	0.55990	1
		3284	127.60000	100.00000	0.00000	0.00000	0.00000	0.61440	1
		3285	132.75000	100.00000	0.00000	0.00000	0.00000	0.65076	1
		3286	137.90000	100.00000	0.00000	0.00000	0.00000	0.66826	1
		3287	143.05000	100.00000	0.00000	0.00000	0.00000	0.66690	1
		3288	148.20000	100.00000	0.00000	0.00000	0.00000	0.64648	1
		3289	153.35000	100.00000	0.00000	0.00000	0.00000	0.60648	1
		3290	158.50000	100.00000	0.00000	0.00000	0.00000	0.54700	1
		3291	163.65000	100.00000	0.00000	0.00000	0.00000	0.47045	1
		3292	168.80000	100.00000	0.00000	0.00000	0.00000	0.38308	1
		3293	173.95000	100.00000	0.00000	0.00000	0.00000	0.29426	1
		3294	179.10000	100.00000	0.00000	0.00000	0.00000	0.21311	1
		3295	184.25000	100.00000	0.00000	0.00000	0.00000	0.14525	1
		3296	189.40000	100.00000	0.00000	0.00000	0.00000	0.09224	1
		3297	194.55000	100.00000	0.00000	0.00000	0.00000	0.05289	1
		3298	199.70000	100.00000	0.00000	0.00000	0.00000	0.02485	1
		3299	204.85000	100.00000	0.00000	0.00000	0.00000	0.00556	1
		3300	210.00000	100.00000	0.00000	0.00000	0.00000	-0.00725	1
		3301	112.15000	105.00000	0.00000	0.00000	0.00000	0.24681	1
		3302	117.30000	105.00000	0.00000	0.00000	0.00000	0.29128	1
		3303	122.45000	105.00000	0.00000	0.00000	0.00000	0.33131	1
		3304	127.60000	105.00000	0.00000	0.00000	0.00000	0.36330	1
		3305	132.75000	105.00000	0.00000	0.00000	0.00000	0.38506	1
		3306	137.90000	105.00000	0.00000	0.00000	0.00000	0.39560	1
		3307	143.05000	105.00000	0.00000	0.00000	0.00000	0.39453	1
		3308	148.20000	105.00000	0.00000	0.00000	0.00000	0.38170	1
		3309	153.35000	105.00000	0.00000	0.00000	0.00000	0.35716	1
		3310	158.50000	105.00000	0.00000	0.00000	0.00000	0.32160	1
		3311	163.65000	105.00000	0.00000	0.00000	0.00000	0.27691	1
		3312	168.80000	105.00000	0.00000	0.00000	0.00000	0.22657	1
		3313	173.95000	105.00000	0.00000	0.00000	0.00000	0.17522	1
		3314	179.10000	105.00000	0.00000	0.00000	0.00000	0.12732	1
		3315	184.25000	105.00000	0.00000	0.00000	0.00000	0.08603	1
		3316	189.40000	105.00000	0.00000	0.00000	0.00000	0.05268	1
		3317	194.55000	105.00000	0.00000	0.00000	0.00000	0.02715	1
		3318	199.70000	105.00000	0.00000	0.00000	0.00000	0.00847	1
		3319	204.85000	105.00000	0.00000	0.00000	0.00000	-0.00461	1
		3320	210.00000	105.00000	0.00000	0.00000	0.00000	-0.01339	1
		3321	112.15000	110.00000	0.00000	0.00000	0.00000	0.14324	1
		3322	117.30000	110.00000	0.00000	0.00000	0.00000	0.16856	1
		3323	122.45000	110.00000	0.00000	0.00000	0.00000	0.19162	1
		3324	127.60000	110.00000	0.00000	0.00000	0.00000	0.21031	1
		3325	132.75000	110.00000	0.00000	0.00000	0.00000	0.22317	1
		3326	137.90000	110.00000	0.00000	0.00000	0.00000	0.22939	1
		3327	143.05000	110.00000	0.00000	0.00000	0.00000	0.22857	1
		3328	148.20000	110.00000	0.00000	0.00000	0.00000	0.22061	1
		3329	153.35000	110.00000	0.00000	0.00000	0.00000	0.20570	1
		3330	158.50000	110.00000	0.00000	0.00000	0.00000	0.18446	1
		3331	163.65000	110.00000	0.00000	0.00000	0.00000	0.15816	1
		3332	168.80000	110.00000	0.00000	0.00000	0.00000	0.12876	1
		3333	173.95000	110.00000	0.00000	0.00000	0.00000	0.09867	1
		3334	179.10000	110.00000	0.00000	0.00000	0.00000	0.07024	1
		3335	184.25000	110.00000	0.00000	0.00000	0.00000	0.04521	1
		3336	189.40000	110.00000	0.00000	0.00000	0.00000	0.02451	1
		3337	194.55000	110.00000	0.00000	0.00000	0.00000	0.00830	1
		3338	199.70000	110.00000	0.00000	0.00000	0.00000	-0.00377	1
		3339	204.85000	110.00000	0.00000	0.00000	0.00000	-0.01232	1
		3340	210.00000	110.00000	0.00000	0.00000	0.00000	-0.01805	1
		3341	112.15000	115.00000	0.00000	0.00000	0.00000	0.07761	1
		3342	117.30000	115.00000	0.00000	0.00000	0.00000	0.09197	1
		3343	122.45000	115.00000	0.00000	0.00000	0.00000	0.10520	1
		3344	127.60000	115.00000	0.00000	0.00000	0.00000	0.11603	1
		3345	132.75000	115.00000	0.00000	0.00000	0.00000	0.12354	1
		3346	137.90000	115.00000	0.00000	0.00000	0.00000	0.12715	1
		3347	143.05000	115.00000	0.00000	0.00000	0.00000	0.12654	1
		3348	148.20000	115.00000	0.00000	0.00000	0.00000	0.12167	1
		3349	153.35000	115.00000	0.00000	0.00000	0.00000	0.11268	1
		3350	158.50000	115.00000	0.00000	0.00000	0.00000	0.10003	1
		3351	163.65000	115.00000	0.00000	0.00000	0.00000	0.08452	1
		3352	168.80000	115.00000	0.00000	0.00000	0.00000	0.06727	1
		3353	173.95000	115.00000	0.00000	0.00000	0.00000	0.04958	1
		3354	179.10000	115.00000	0.00000	0.00000	0.00000	0.03271	1
		3355	184.25000	115.00000	0.00000	0.00000	0.00000	0.01766	1
		3356	189.40000	115.00000	0.00000	0.00000	0.00000	0.00503	1
		3357	194.55000	115.00000	0.00000	0.00000	0.00000	-0.00500	1
		3358	199.70000	115.00000	0.00000	0.00000	0.00000	-0.01253	1
		3359	204.85000	115.00000	0.00000	0.00000	0.00000	-0.01787	1
		3360	210.00000	115.00000	0.00000	0.00000	0.00000	-0.02138	1
		3361	112.15000	120.00000	0.00000	0.00000	0.00000	0.03593	1
		3362	117.30000	120.00000	0.00000	0.00000	0.00000	0.04396	1
		3363	122.45000	120.00000	0.00000	0.00000	0.00000	0.05146	1
		3364	127.60000	120.00000	0.00000	0.00000	0.00000	0.05766	1
		3365	132.75000	120.00000	0.00000	0.00000	0.00000	0.06198	1
		3366	137.90000	120.00000	0.00000	0.00000	0.00000	0.06403	1
		3367	143.05000	120.00000	0.00000	0.00000	0.00000	0.06361	1
		3368	148.20000	120.00000	0.00000	0.00000	0.00000	0.06066	1
		3369	153.35000	120.00000	0.00000	0.00000	0.00000	0.05530	1
		3370	158.50000	120.00000	0.00000	0.00000	0.00000	0.04783	1
		3371	163.65000	120.00000	0.00000	0.00000	0.00000	0.03873	1
		3372	168.80000	120.00000	0.00000	0.00000	0.00000	0.02864	1
		3373	173.95000	120.00000	0.00000	0.00000	0.00000	0.01830	1
		3374	179.10000	120.00000	0.00000	0.00000	0.00000	0.00839	1
		3375	184.25000	120.00000	0.00000	0.00000	0.00000	-0.00051	1
		3376	189.40000	120.00000	0.00000	0.00000	0.00000	-0.00803	1
		3377	194.55000	120.00000	0.00000	0.00000	0.00000	-0.01402	1
		3378	199.70000	120.00000	0.00000	0.00000	0.00000	-0.01850	1
		3379	204.85000	120.00000	0.00000	0.00000	0.00000	-0.02162	1
		3380	210.00000	120.00000	0.00000	0.00000	0.00000	-0.02356	1
		3381	112.15000	125.00000	0.00000	0.00000	0.00000	0.00958	1
		3382	117.30000	125.00000	0.00000	0.00000	0.00000	0.01394	1
		3383	122.45000	125.00000	0.00000	0.00000	0.00000	0.01810	1
		3384	127.60000	125.00000	0.00000	0.00000	0.00000	0.02157	1
		3385	132.75000	125.00000	0.00000	0.00000	0.00000	0.02401	1
		3386	137.90000	125.00000	0.00000	0.00000	0.00000	0.02515	1
		3387	143.05000	125.00000	0.00000	0.00000	0.00000	0.02487	1
		3388	148.20000	125.00000	0.00000	0.00000	0.00000	0.02312	1
		3389	153.35000	125.00000	0.00000	0.00000	0.00000	0.01998	1
		3390	158.50000	125.00000	0.00000	0.00000	0.00000	0.01564	1
		3391	163.65000	125.00000	0.00000	0.00000	0.00000	0.01038	1
		3392	168.80000	125.00000	0.00000	0.00000	0.00000	0.00457	1
		3393	173.95000	125.00000	0.00000	0.00000	0.00000	-0.00138	1
		3394	179.10000	125.00000	0.00000	0.00000	0.00000	-0.00707	1
		3395	184.25000	125.00000	0.00000	0.00000	0.00000	-0.01218	1
		3396	189.40000	125.00000	0.00000	0.00000	0.00000	-0.01648	1
		3397	194.55000	125.00000	0.00000	0.00000	0.00000	-0.01986	1
		3398	199.70000	125.00000	0.00000	0.00000	0.00000	-0.02233	1
		3399	204.85000	125.00000	0.00000	0.00000	0.00000	-0.02394	1
		3400	210.00000	125.00000	0.00000	0.00000	0.00000	-0.02481	1
		3401	112.15000	130.00000	0.00000	0.00000	0.00000	-0.00687	1
		3402	117.30000	130.00000	0.00000	0.00000	0.00000	-0.00462	1
		3403	122.45000	130.00000	0.00000	0.00000	0.00000	-0.00242	1
		3404	127.60000	130.00000	0.00000	0.00000	0.00000	-0.00053	1
		3405	132.75000	130.00000	0.00000	0.00000	0.00000	0.00080	1
		3406	137.90000	130.00000	0.00000	0.00000	0.00000	0.00142	1
		3407	143.05000	130.00000	0.00000	0.00000	0.00000	0.00124	1
		3408	148.20000	130.00000	0.00000	0.00000	0.00000	0.00024	1
		3409	153.35000	130.00000	0.00000	0.00000	0.00000	-0.00154	1
		3410	158.50000	130.00000	0.00000	0.00000	0.00000	-0.00399	1
		3411	163.65000	130.00000	0.00000	0.00000	0.00000	-0.00695	1
		3412	168.80000	130.00000	0.00000	0.00000	0.00000	-0.01019	1

Set: Ref.	Set: Name	Result: Ref.	Coordinates: x [m]	Coordinates: y [m]	Coordinates: z [m]	Displacements: x [mm]	Displacements: y [mm]	Displacements: z [mm]	
		3413	173.95000	130.00000	0.00000	0.00000	0.00000	-0.01348	1
		3414	179.10000	130.00000	0.00000	0.00000	0.00000	-0.01661	1
		3415	184.25000	130.00000	0.00000	0.00000	0.00000	-0.01938	1
		3416	189.40000	130.00000	0.00000	0.00000	0.00000	-0.02167	1
		3417	194.55000	130.00000	0.00000	0.00000	0.00000	-0.02339	1
		3418	199.70000	130.00000	0.00000	0.00000	0.00000	-0.02455	1
		3419	204.85000	130.00000	0.00000	0.00000	0.00000	-0.02517	1
		3420	210.00000	130.00000	0.00000	0.00000	0.00000	-0.02532	1
		3421	112.15000	135.00000	0.00000	0.00000	0.00000	-0.01689	1
		3422	117.30000	135.00000	0.00000	0.00000	0.00000	-0.01585	1
		3423	122.45000	135.00000	0.00000	0.00000	0.00000	-0.01477	1
		3424	127.60000	135.00000	0.00000	0.00000	0.00000	-0.01381	1
		3425	132.75000	135.00000	0.00000	0.00000	0.00000	-0.01311	1
		3426	137.90000	135.00000	0.00000	0.00000	0.00000	-0.01279	1
		3427	143.05000	135.00000	0.00000	0.00000	0.00000	-0.01289	1
		3428	148.20000	135.00000	0.00000	0.00000	0.00000	-0.01342	1
		3429	153.35000	135.00000	0.00000	0.00000	0.00000	-0.01438	1
		3430	158.50000	135.00000	0.00000	0.00000	0.00000	-0.01569	1
		3431	163.65000	135.00000	0.00000	0.00000	0.00000	-0.01725	1
		3432	168.80000	135.00000	0.00000	0.00000	0.00000	-0.01894	1
		3433	173.95000	135.00000	0.00000	0.00000	0.00000	-0.02064	1
		3434	179.10000	135.00000	0.00000	0.00000	0.00000	-0.02221	1
		3435	184.25000	135.00000	0.00000	0.00000	0.00000	-0.02355	1
		3436	189.40000	135.00000	0.00000	0.00000	0.00000	-0.02459	1
		3437	194.55000	135.00000	0.00000	0.00000	0.00000	-0.02527	1
		3438	199.70000	135.00000	0.00000	0.00000	0.00000	-0.02560	1
		3439	204.85000	135.00000	0.00000	0.00000	0.00000	-0.02559	1
		3440	210.00000	135.00000	0.00000	0.00000	0.00000	-0.02527	1
		3441	112.15000	140.00000	0.00000	0.00000	0.00000	-0.02272	1
		3442	117.30000	140.00000	0.00000	0.00000	0.00000	-0.02235	1
		3443	122.45000	140.00000	0.00000	0.00000	0.00000	-0.02190	1
		3444	127.60000	140.00000	0.00000	0.00000	0.00000	-0.02147	1
		3445	132.75000	140.00000	0.00000	0.00000	0.00000	-0.02114	1
		3446	137.90000	140.00000	0.00000	0.00000	0.00000	-0.02098	1
		3447	143.05000	140.00000	0.00000	0.00000	0.00000	-0.02102	1
		3448	148.20000	140.00000	0.00000	0.00000	0.00000	-0.02127	1
		3449	153.35000	140.00000	0.00000	0.00000	0.00000	-0.02172	1
		3450	158.50000	140.00000	0.00000	0.00000	0.00000	-0.02234	1
		3451	163.65000	140.00000	0.00000	0.00000	0.00000	-0.02307	1
		3452	168.80000	140.00000	0.00000	0.00000	0.00000	-0.02384	1
		3453	173.95000	140.00000	0.00000	0.00000	0.00000	-0.02457	1
		3454	179.10000	140.00000	0.00000	0.00000	0.00000	-0.02521	1
		3455	184.25000	140.00000	0.00000	0.00000	0.00000	-0.02568	1
		3456	189.40000	140.00000	0.00000	0.00000	0.00000	-0.02596	1
		3457	194.55000	140.00000	0.00000	0.00000	0.00000	-0.02600	1
		3458	199.70000	140.00000	0.00000	0.00000	0.00000	-0.02582	1
		3459	204.85000	140.00000	0.00000	0.00000	0.00000	-0.02541	1
		3460	210.00000	140.00000	0.00000	0.00000	0.00000	-0.02482	1
		3461	112.15000	145.00000	0.00000	0.00000	0.00000	-0.02581	1
		3462	117.30000	145.00000	0.00000	0.00000	0.00000	-0.02581	1
		3463	122.45000	145.00000	0.00000	0.00000	0.00000	-0.02571	1
		3464	127.60000	145.00000	0.00000	0.00000	0.00000	-0.02557	1
		3465	132.75000	145.00000	0.00000	0.00000	0.00000	-0.02545	1
		3466	137.90000	145.00000	0.00000	0.00000	0.00000	-0.02537	1
		3467	143.05000	145.00000	0.00000	0.00000	0.00000	-0.02536	1
		3468	148.20000	145.00000	0.00000	0.00000	0.00000	-0.02544	1
		3469	153.35000	145.00000	0.00000	0.00000	0.00000	-0.02559	1
		3470	158.50000	145.00000	0.00000	0.00000	0.00000	-0.02580	1
		3471	163.65000	145.00000	0.00000	0.00000	0.00000	-0.02603	1
		3472	168.80000	145.00000	0.00000	0.00000	0.00000	-0.02625	1
		3473	173.95000	145.00000	0.00000	0.00000	0.00000	-0.02642	1
		3474	179.10000	145.00000	0.00000	0.00000	0.00000	-0.02650	1
		3475	184.25000	145.00000	0.00000	0.00000	0.00000	-0.02646	1
		3476	189.40000	145.00000	0.00000	0.00000	0.00000	-0.02628	1
		3477	194.55000	145.00000	0.00000	0.00000	0.00000	-0.02595	1
		3478	199.70000	145.00000	0.00000	0.00000	0.00000	-0.02546	1
		3479	204.85000	145.00000	0.00000	0.00000	0.00000	-0.02483	1
		3480	210.00000	145.00000	0.00000	0.00000	0.00000	-0.02408	1
		3481	112.15000	150.00000	0.00000	0.00000	0.00000	-0.02712	1
		3482	117.30000	150.00000	0.00000	0.00000	0.00000	-0.02731	1
		3483	122.45000	150.00000	0.00000	0.00000	0.00000	-0.02740	1
		3484	127.60000	150.00000	0.00000	0.00000	0.00000	-0.02742	1
		3485	132.75000	150.00000	0.00000	0.00000	0.00000	-0.02740	1
		3486	137.90000	150.00000	0.00000	0.00000	0.00000	-0.02736	1
		3487	143.05000	150.00000	0.00000	0.00000	0.00000	-0.02733	1
		3488	148.20000	150.00000	0.00000	0.00000	0.00000	-0.02730	1
		3489	153.35000	150.00000	0.00000	0.00000	0.00000	-0.02727	1
		3490	158.50000	150.00000	0.00000	0.00000	0.00000	-0.02723	1
		3491	163.65000	150.00000	0.00000	0.00000	0.00000	-0.02718	1
		3492	168.80000	150.00000	0.00000	0.00000	0.00000	-0.02708	1
		3493	173.95000	150.00000	0.00000	0.00000	0.00000	-0.02693	1
		3494	179.10000	150.00000	0.00000	0.00000	0.00000	-0.02669	1
		3495	184.25000	150.00000	0.00000	0.00000	0.00000	-0.02635	1
		3496	189.40000	150.00000	0.00000	0.00000	0.00000	-0.02592	1
		3497	194.55000	150.00000	0.00000	0.00000	0.00000	-0.02537	1
		3498	199.70000	150.00000	0.00000	0.00000	0.00000	-0.02472	1
		3499	204.85000	150.00000	0.00000	0.00000	0.00000	-0.02398	1
		3500	210.00000	150.00000	0.00000	0.00000	0.00000	-0.02315	1

1 - Data point coincident with displacement location. Its displacement has been added to those calculated by Xdisp.
2 - Data point coincident with horizontal movement calculation point for a specific building. Its displacement has been added before performing building damage calculations.
6 - Data point coincident with vertical movement calculation point for a specific building. Its displacement has been added before performing building damage calculations.

Polygonal Excavations

Ref. 1
Excavation Name: **Excavation - Island**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	54.537	102.73	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	60.192	99.670	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	60.942	96.557	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	59.195	93.331	-5.0000	Yes	No	-	-	-	-	-	-
5	62.131	89.915	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	60.731	88.712	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
7	57.609	90.405	-5.0000	Yes	No	-	-	-	-	-	-
8	53.446	82.717	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
9	45.899	86.804	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	54.537	102.73	60.192	99.670	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
2	60.192	99.670	60.942	96.557	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	60.942	96.557	59.195	93.331	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	59.195	93.331	62.131	89.915	Exc. in front of high stiffness wall in stiff clay	Exc. in front of high stiffness wall in stiff clay

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
					(CIRIA C580 Fig. 2.11(b))	(CIRIA C580 Fig. 2.11(a))
5	62.131	89.915	60.731	88.712	No vertical ground movement	No horizontal ground movement
6	60.731	88.712	57.609	90.405	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
7	57.609	90.405	53.446	82.717	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
8	53.446	82.717	45.899	86.804	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
9	45.899	86.804	54.537	102.73	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))

Ref. 2
Excavation Name: **Excavation - DH Extension**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	70.978	81.319	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	76.429	80.337	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	76.429	51.608	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	62.210	55.687	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	62.210	63.651	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	67.943	78.704	-5.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	70.978	81.319	76.429	80.337	No vertical ground movement	No horizontal ground movement
2	76.429	80.337	76.429	51.608	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
3	76.429	51.608	62.210	55.687	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
4	62.210	55.687	62.210	63.651	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
5	62.210	63.651	67.943	78.704	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
6	67.943	78.704	70.978	81.319	No vertical ground movement	No horizontal ground movement

Ref. 3
Excavation Name: **Excavation - Rear Block**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	116.20	77.278	-12.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
2	116.20	77.278	-11.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
3	166.98	77.282	-11.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
4	166.98	77.282	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
5	173.17	77.283	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
6	173.17	49.477	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
7	166.98	49.477	-4.1100	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
8	166.98	49.477	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
9	133.91	49.481	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
10	110.28	56.324	-7.0000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000
11	110.28	56.324	-12.000	Yes	Yes	25.000	67.000	25.000	25.000	67.000	25.000

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	116.20	77.278	116.20	77.278	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
2	116.20	77.278	166.98	77.282	Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
3	166.98	77.282	166.98	77.282	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
4	166.98	77.282	173.17	77.283	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
5	173.17	77.283	173.17	49.477	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
6	173.17	49.477	166.98	49.477	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
7	166.98	49.477	166.98	49.477	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
8	166.98	49.477	133.91	49.481	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
9	133.91	49.481	110.28	56.324	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
10	110.28	56.324	110.28	56.324	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
11	110.28	56.324	116.20	77.278	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))

Ref. 4
Excavation Name: **Installation - Island**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	54.537	102.73	-10.000	Yes	No	-	-	-	-	-	-
2	60.192	99.670	-10.000	Yes	No	-	-	-	-	-	-
3	60.942	96.557	-10.000	Yes	No	-	-	-	-	-	-
4	59.195	93.331	-10.000	Yes	No	-	-	-	-	-	-
5	62.131	89.915	-10.000	Yes	No	-	-	-	-	-	-
6	60.731	88.712	-10.000	Yes	No	-	-	-	-	-	-
7	57.609	90.405	-10.000	Yes	No	-	-	-	-	-	-

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
8	53.446	82.717	-10.000	Yes	No	-	-	-	-	-	-
9	45.899	86.804	-10.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	54.537	102.73	60.192	99.670	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
2	60.192	99.670	60.942	96.557	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
3	60.942	96.557	59.195	93.331	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
4	59.195	93.331	62.131	89.915	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
5	62.131	89.915	60.731	88.712	No vertical ground movement	No horizontal ground movement
6	60.731	88.712	57.609	90.405	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
7	57.609	90.405	53.446	82.717	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
8	53.446	82.717	45.899	86.804	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
9	45.899	86.804	54.537	102.73	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Ref. 5
Excavation Name: **Installation - DH Extension**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	70.978	81.319	-10.000	Yes	No	-	-	-	-	-	-
2	76.429	80.337	-10.000	Yes	No	-	-	-	-	-	-
3	76.429	51.608	-10.000	Yes	No	-	-	-	-	-	-
4	62.210	55.687	-10.000	Yes	No	-	-	-	-	-	-
5	62.210	63.651	-10.000	Yes	No	-	-	-	-	-	-
6	67.943	78.704	-10.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	70.978	81.319	76.429	80.337	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
2	76.429	80.337	76.429	51.608	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
3	76.429	51.608	62.210	55.687	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
4	62.210	55.687	62.210	63.651	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
5	62.210	63.651	67.943	78.704	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
6	67.943	78.704	70.978	81.319	No vertical ground movement	No horizontal ground movement

Ref. 6
Excavation Name: **Installation - Rear Block**
Surface level [m]: 0.0
Contribution: Positive

Corner	x [m]	y [m]	Base Level [m]	Arc Enabled	Stiffened	Prev. Side: d [m]	Prev. Side: p1 [%]	Prev. Side: p2* [%]	Next Side: d [m]	Next Side: p1 [%]	Next Side: p2* [%]
1	116.20	77.278	-22.000	Yes	No	-	-	-	-	-	-
2	116.20	77.278	-15.000	Yes	No	-	-	-	-	-	-
3	166.98	77.282	-15.000	Yes	No	-	-	-	-	-	-
4	166.98	77.282	-10.000	Yes	No	-	-	-	-	-	-
5	173.17	77.283	-10.000	Yes	No	-	-	-	-	-	-
6	173.17	49.477	-10.000	Yes	No	-	-	-	-	-	-
7	166.98	49.477	-10.000	Yes	No	-	-	-	-	-	-
8	166.98	49.477	-15.000	Yes	No	-	-	-	-	-	-
9	133.91	49.481	-15.000	Yes	No	-	-	-	-	-	-
10	110.28	56.324	-15.000	Yes	No	-	-	-	-	-	-
11	110.28	56.324	-22.000	Yes	No	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	116.20	77.278	116.20	77.278	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
2	116.20	77.278	166.98	77.282	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
3	166.98	77.282	166.98	77.282	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
4	166.98	77.282	173.17	77.283	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
5	173.17	77.283	173.17	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
6	173.17	49.477	166.98	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
7	166.98	49.477	166.98	49.477	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
8	166.98	49.477	133.91	49.481	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
9	133.91	49.481	110.28	56.324	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
10	110.28	56.324	110.28	56.324	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
11	110.28	56.324	116.20	77.278	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))	Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal

Circular Excavations

Vertical Ground Movement Curves

Curve Name: **No vertical ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = 0.0x + 0.0
Coeff. of Determination:

Curve Name: **Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.040][2.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.039][0.100,0.000,0.049][0.200,0.000,0.056][0.300,0.000,0.062]
[0.400,0.000,0.067][0.500,0.000,0.070][0.600,0.000,0.072][0.700,0.000,0.073]
[0.800,0.000,0.073][0.900,0.000,0.072][1.000,0.000,0.070][1.100,0.000,0.068]
[1.200,0.000,0.065][1.300,0.000,0.061][1.400,0.000,0.058][1.500,0.000,0.054]
[1.600,0.000,0.050][1.700,0.000,0.046][1.800,0.000,0.042][1.900,0.000,0.038]
[2.000,0.000,0.034][2.100,0.000,0.030][2.200,0.000,0.027][2.300,0.000,0.023]
[2.400,0.000,0.020][2.500,0.000,0.017][2.600,0.000,0.014][2.700,0.000,0.012]
[2.800,0.000,0.010][2.900,0.000,0.008][3.000,0.000,0.007][3.100,0.000,0.005]
[3.200,0.000,0.004][3.300,0.000,0.004][3.400,0.000,0.003][3.500,0.000,0.002]
[3.600,0.000,0.002][3.700,0.000,0.002][3.800,0.000,0.001][3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-2.6455E-3x^4 + 2.8495E-2x^3 - 1.0051E-1x^2 + 1.0569E-1x + 3.8990E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.040][2.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.039][0.100,0.000,0.049][0.200,0.000,0.056][0.300,0.000,0.062]
[0.400,0.000,0.067][0.500,0.000,0.070][0.600,0.000,0.072][0.700,0.000,0.073]
[0.800,0.000,0.073][0.900,0.000,0.072][1.000,0.000,0.070][1.100,0.000,0.068]
[1.200,0.000,0.065][1.300,0.000,0.061][1.400,0.000,0.058][1.500,0.000,0.054]
[1.600,0.000,0.050][1.700,0.000,0.046][1.800,0.000,0.042][1.900,0.000,0.038]
[2.000,0.000,0.034][2.100,0.000,0.030][2.200,0.000,0.027][2.300,0.000,0.023]
[2.400,0.000,0.020][2.500,0.000,0.017][2.600,0.000,0.014][2.700,0.000,0.012]
[2.800,0.000,0.010][2.900,0.000,0.008][3.000,0.000,0.007][3.100,0.000,0.005]
[3.200,0.000,0.004][3.300,0.000,0.004][3.400,0.000,0.003][3.500,0.000,0.002]
[3.600,0.000,0.002][3.700,0.000,0.002][3.800,0.000,0.001][3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-2.6455E-3x^4 + 2.8495E-2x^3 - 1.0051E-1x^2 + 1.0569E-1x + 3.8990E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,0.098][0.100,0.000,0.122][0.200,0.000,0.140][0.300,0.000,0.155]
[0.400,0.000,0.168][0.500,0.000,0.175][0.600,0.000,0.180][0.700,0.000,0.182]
[0.800,0.000,0.182][0.900,0.000,0.180][1.000,0.000,0.175][1.100,0.000,0.170]
[1.200,0.000,0.163][1.300,0.000,0.152][1.400,0.000,0.145][1.500,0.000,0.135]
[1.600,0.000,0.125][1.700,0.000,0.115][1.800,0.000,0.105][1.900,0.000,0.095]
[2.000,0.000,0.085][2.100,0.000,0.075][2.200,0.000,0.068][2.300,0.000,0.058]
[2.400,0.000,0.050][2.500,0.000,0.043][2.600,0.000,0.035][2.700,0.000,0.030]
[2.800,0.000,0.025][2.900,0.000,0.020][3.000,0.000,0.018][3.100,0.000,0.013]
[3.200,0.000,0.010][3.300,0.000,0.010][3.400,0.000,0.007][3.500,0.000,0.005]
[3.600,0.000,0.005][3.700,0.000,0.005][3.800,0.000,0.003][3.900,0.000,0.003]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-6.6137E-3x^4 + 7.1237E-2x^3 - 2.5126E-1x^2 + 2.6423E-1x + 9.7475E-2$
Coeff. of Determination: 9.9991E-1

Curve Name: **3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]

[0.000,0.000,1.035][0.100,0.000,0.981][0.200,0.000,0.933][0.300,0.000,0.882]
[0.400,0.000,0.837][0.500,0.000,0.792][0.600,0.000,0.750][0.700,0.000,0.711]
[0.800,0.000,0.672][0.900,0.000,0.636][1.000,0.000,0.600][1.100,0.000,0.567]
[1.200,0.000,0.534][1.300,0.000,0.504][1.400,0.000,0.474][1.500,0.000,0.447]
[1.600,0.000,0.420][1.700,0.000,0.396][1.800,0.000,0.372][1.900,0.000,0.348]
[2.000,0.000,0.327][2.100,0.000,0.303][2.200,0.000,0.285][2.300,0.000,0.264]

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal

[2.400,0.000,0.246][2.500,0.000,0.228][2.600,0.000,0.204][2.700,0.000,0.183]
[2.800,0.000,0.159][2.900,0.000,0.138][3.000,0.000,0.114][3.100,0.000,0.090]
[3.200,0.000,0.069][3.300,0.000,0.045][3.400,0.000,0.024][3.500,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-1.8080E-2x^3 + 1.3803E-1x^2 - 5.5870E-1x + 1.0379$
Coeff. of Determination: 9.9993E-1

Horizontal Ground Movement Curves

Curve Name: No horizontal ground movement
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 0
y Order: 0
Polynomial: z = 0.0
Coeff. of Determination:

Curve Name: Inst. of contiguous bored pile wall in stiff clay (CIRIA C580 Fig. 2.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.038][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.011][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-4.2486E-3x^3 + 1.9096E-2x^2 - 4.6221E-2x + 4.0729E-2$
Coeff. of Determination: 1.0000

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C580 Fig. 2.11(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.150][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -3.75E-2x + 1.50E-1
Coeff. of Determination: 1.00

Curve Name: Inst. of contiguous bored pile wall in stiff clay (CIRIA C760 Fig. 6.8(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.038][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.011][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-4.2486E-3x^3 + 1.9096E-2x^2 - 4.6221E-2x + 4.0729E-2$
Coeff. of Determination: 1.0000

Curve Name: Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.150][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -3.75E-2x + 1.50E-1
Coeff. of Determination: 1.00

Curve Name: 2.5X of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.375][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -9.38E-2x + 3.75E-1
Coeff. of Determination: 1.00

Curve Name: 3X of Exc. in front of low stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,1.200][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -3.0E-1x + 1.2
Coeff. of Determination: 1.0

Damage Category Strains

Ref.	Name	0 (Negligible) to 1 (Very Slight)	1 (Very Slight) to 2 (Slight)	2 (Slight) to 3 (Moderate)	3 (Moderate) to 4 (Severe)
1	Burland Strain Limits	0.0	500.00E-6	750.00E-6	0.0015000

Specific Buildings - Geometry

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start [m]	Distance Along Line: End [m]	Vertical Offsets from Line for Vertical Movement Calculations [m]	Vertical Displacement Limit Sensitivity [mm]	Damage Category Strains	Poisson's Ratio	E/G
1	16S-01	16S-01	16S-01	0.00000	6.01700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start	Distance Along Line: End	Vertical Offsets from Line for Vertical	Vertical Displacement Limit	Damage Category Strains	Poisson's Ratio	E/G
2	16S-02	16S-02	16S-02	0.00000	6.58800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
3	16S-03	16S-03	16S-03	0.00000	2.80200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
4	16S-04	16S-04	16S-04	0.00000	7.67400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
5	16S-05	16S-05	16S-05	0.00000	2.97100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
6	16S-06	16S-06	16S-06	0.00000	6.22300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
7	BS-01	BS-01	BS-01	0.00000	12.97800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
8	BS-02	BS-02	BS-02	0.00000	30.46200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
9	BS-03	BS-03	BS-03	0.00000	0.34500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
10	BS-04	BS-04	BS-04	0.00000	5.84100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
11	BS-05	BS-05	BS-05	0.00000	1.67800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
12	BS-06	BS-06	BS-06	0.00000	1.61400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
13	BS-07	BS-07	BS-07	0.00000	3.10800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
14	BS-08	BS-08	BS-08	0.00000	2.62400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
15	BS-09	BS-09	BS-09	0.00000	1.95800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
16	BS-10	BS-10	BS-10	0.00000	1.62600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
17	BS-11	BS-11	BS-11	0.00000	0.50100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
18	BS-12	BS-12	BS-12	0.00000	3.19600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
19	BS-13	BS-13	BS-13	0.00000	3.54800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
20	BS-14	BS-14	BS-14	0.00000	2.49800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
21	BS-15	BS-15	BS-15	0.00000	16.99000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
22	BS-16	BS-16	BS-16	0.00000	4.95600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
23	BS-17	BS-17	BS-17	0.00000	0.81700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
24	BS-18	BS-18	BS-18	0.00000	7.94000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
25	SB-01	SB-01	SB-01	0.00000	1.13900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
26	SB-02	SB-02	SB-02	0.00000	9.38500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
27	SB-03	SB-03	SB-03	0.00000	28.92600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
28	SB-04	SB-04	SB-04	0.00000	9.01400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
29	SB-05	SB-05	SB-05	0.00000	15.27300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
30	SB-06	SB-06	SB-06	0.00000	3.48300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
31	SB-07	SB-07	SB-07	0.00000	1.51500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
32	SB-08	SB-08	SB-08	0.00000	29.47300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
33	SB-09	SB-09	SB-09	0.00000	15.89200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
34	SB-10	SB-10	SB-10	0.00000	9.22900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
35	SB-11	SB-11	SB-11	0.00000	18.44900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
36	SB-12	SB-12	SB-12	0.00000	1.14500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
37	SB-13	SB-13	SB-13	0.00000	1.27000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
38	SB-14	SB-14	SB-14	0.00000	4.89200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
39	HL-01	HL-01	HL-01	0.00000	15.43200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
40	HL-02	HL-02	HL-02	0.00000	7.48400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
41	HL-03	HL-03	HL-03	0.00000	15.36600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
42	CH-01	CH-01	CH-01	0.00000	13.71000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
43	CH-02	CH-02	CH-02	0.00000	24.27600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
44	CH-03	CH-03	CH-03	0.00000	21.38200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
45	CH-04	CH-04	CH-04	0.00000	23.48200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
46	CH-05	CH-05	CH-05	0.00000	3.46200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
47	CH-06	CH-06	CH-06	0.00000	13.45100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
48	CH-07	CH-07	CH-07	0.00000	8.72000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
49	CH-08	CH-08	CH-08	0.00000	0.44700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
50	CH-09	CH-09	CH-09	0.00000	3.30700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
51	CH-10	CH-10	CH-10	0.00000	4.91500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
52	CH-11	CH-11	CH-11	0.00000	14.25800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
53	10S-01	10S-01	10S-01	0.00000	6.44500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
54	10S-02	10S-02	10S-02	0.00000	3.07200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
55	10S-03	10S-03	10S-03	0.00000	2.05200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
56	10S-04	10S-04	10S-04	0.00000	2.00100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
57	10S-05	10S-05	10S-05	0.00000	6.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
58	10S-06	10S-06	10S-06	0.00000	7.19800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
59	10S-07	10S-07	10S-07	0.00000	15.10900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
60	10S-08	10S-08	10S-08	0.00000	8.14000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
61	10S-09	10S-09	10S-09	0.00000	4.38300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
62	10S-10	10S-10	10S-10	0.00000	6.54300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
63	10S-11	10S-11	10S-11	0.00000	4.51100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
64	12S-01	12S-01	12S-01	0.00000	14.79200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
65	12S-02	12S-02	12S-02	0.00000	5.66000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
66	12S-03	12S-03	12S-03	0.00000	1.11600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
67	12S-04	12S-04	12S-04	0.00000	4.37700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
68	12S-05	12S-05	12S-05	0.00000	13.72200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
69	12S-06	12S-06	12S-06	0.00000	8.69600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
70	14S-01	14S-01	14S-01	0.00000	5.87600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
71	14S-02	14S-02	14S-02	0.00000	14.76300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
72	14S-03	14S-03	14S-03	0.00000	6.11500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
73	14S-04	14S-04	14S-04	0.00000	2.27100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
74	14S-05	14S-05	14S-05	0.00000	5.03200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
75	14S-06	14S-06	14S-06	0.00000	2.48600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
76	14S-07	14S-07	14S-07	0.00000	6.36300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
77	14S-08	14S-08	14S-08	0.00000	7.56200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
78	14S-09	14S-09	14S-09	0.00000	5.42400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
79	14S-10	14S-10	14S-10	0.00000	1.47400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
80	14S-11	14S-11	14S-11	0.00000	5.57900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
81	14S-12	14S-12	14S-12	0.00000	3.70400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
82	18S-01	18S-01	18S-01	0.00000	8.95500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
83	18S-02	18S-02	18S-02	0.00000	7.82700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
84	18S-03	18S-03	18S-03	0.00000	2.12400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
85	18S-04	18S-04	18S-04	0.00000	1.74600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
86	18S-05	18S-05	18S-05	0.00000	6.88500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
87	20S-01	20S-01	20S-01	0.00000	2.24300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
88	20S-02	20S-02	20S-02	0.00000	6.18300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
89	20S-03	20S-03	20S-03	0.00000	10.07600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
90	20S-04	20S-04	20S-04	0.00000	6.16500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
91	20S-05	20S-05	20S-05	0.00000	2.61000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
92	20S-06	20S-06	20S-06	0.00000	10.06900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
93	20S-07	20S-07	20S-07	0.00000	3.14500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
94	HT-01	HT-01	HT-01	0.00000	1.12500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
95	HT-02	HT-02	HT-02	0.00000	17.13900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
96	HT-03	HT-03	HT-03	0.00000	10.61100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
97	HT-04	HT-04	HT-04	0.00000	17.16900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
98	22S-01	22S-01	22S-01	0.00000	6.68200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
99	22S-02	22S-02	22S-02	0.00000	11.93100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
100	22S-03	22S-03	22S-03	0.00000	6.70300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
101	22S-04	22S-04	22S-04	0.00000	11.92800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
102	23K-01	23K-01	23K-01	0.00000	5.83200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
103	23K-02	23K-02	23K-02	0.00000	9.66500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
104	23K-03	23K-03	23K-03	0.00000	5.85400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
105	23K-04	23K-04	23K-04	0.00000	5.18200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
106	23K-05	23K-05	23K-05	0.00000	5.54600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
107	23K-06	23K-06	23K-06	0.00000	5.34400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
108	23K-07	23K-07	23K-07	0.00000	5.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
109	23K-08	23K-08	23K-08	0.00000	9.84900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
110	23K-09	23K-09	23K-09	0.00000	5.53500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
111	23K-10	23K-10	23K-10	0.00000	5.34400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
112	23K-11	23K-11	23K-11	0.00000	10.32800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
113	23K-12	23K-12	23K-12	0.00000	10.40200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
114	23K-13	23K-13	23K-13	0.00000	5.53000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
115	23K-14	23K-14	23K-14	0.00000	5.19300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
116	23K-15	23K-15	23K-15	0.00000	10.16800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
117	23K-16	23K-16	23K-16	0.00000	10.28500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
118	23K-17	23K-17	23K-17	0.00000	4.50900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
119	23K-18	23K-18	23K-18	0.00000	5.34700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
120	23K-19	23K-19	23K-19	0.00000	4.53800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
121	23AB-01	23AB-01	23AB-01	0.00000	4.00400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
122	23AB-02	23AB-02	23AB-02	0.00000	0.21700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
123	23AB-03	23AB-03	23AB-03	0.00000	4.79000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
124	23AB-04	23AB-04	23AB-04	0.00000	6.44600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
125	23AB-05	23AB-05	23AB-05	0.00000	1.01400	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
126	23AB-06	23AB-06	23AB-06	0.00000	6.40200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
127	23AB-07	23AB-07	23AB-07	0.00000	5.03700	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
128	23AB-08	23AB-08	23AB-08	0.00000	0.28100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
129	23AB-09	23AB-09	23AB-09	0.00000	5.63000	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
130	23AB-10	23AB-10	23AB-10	0.00000	3.05300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
131	23AB-11	23AB-11	23AB-11	0.00000	1.84600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Ref.	Building Name	Sub-Building Name	Displacement Line	Distance Along Line: Start	Distance Along Line: End	Vertical Offsets from Line for Vertical	Vertical Displacement Limit	Damage Category Strains	Poisson's Ratio	E/G
132	23AB-12	23AB-12	23AB-12	0.00000	2.86800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
133	23AB-13	23AB-13	23AB-13	0.00000	1.03200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
134	23AB-14	23AB-14	23AB-14	0.00000	6.46100	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
135	23AB-15	23AB-15	23AB-15	0.00000	7.73500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
136	28K-01	28K-01	28K-01	0.00000	11.12600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
137	28K-02	28K-02	28K-02	0.00000	3.75800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
138	28K-03	28K-03	28K-03	0.00000	8.95200	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
139	28K-04	28K-04	28K-04	0.00000	7.70500	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
140	28K-05	28K-05	28K-05	0.00000	7.33600	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
141	28K-06	28K-06	28K-06	0.00000	4.94800	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
142	28K-07	28K-07	28K-07	0.00000	5.15300	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Specific Buildings - Bending Parameters

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging: 2nd Mom. of Area (per unit width)	Hogging: Dist. of Bending Strain from N.A.	Hogging: Dist. of N.A. from Edge of Beam in Tension	Sagging: 2nd Mom. of Area (per unit width)	Sagging: Dist. of Bending Strain from N.A.	Sagging: Dist. of N.A. from Edge of Beam in Tension
			[m]		[m³]	[m]	[m]	[m³]	[m]	[m]
1	16S-01	16S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
2	16S-02	16S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
3	16S-03	16S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
4	16S-04	16S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
5	16S-05	16S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
6	16S-06	16S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
7	BS-01	BS-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
8	BS-02	BS-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
9	BS-03	BS-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
10	BS-04	BS-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
11	BS-05	BS-05	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
12	BS-06	BS-06	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
13	BS-07	BS-07	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
14	BS-08	BS-08	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
15	BS-09	BS-09	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
16	BS-10	BS-10	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
17	BS-11	BS-11	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
18	BS-12	BS-12	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
19	BS-13	BS-13	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
20	BS-14	BS-14	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
21	BS-15	BS-15	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
22	BS-16	BS-16	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
23	BS-17	BS-17	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
24	BS-18	BS-18	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
25	SB-01	SB-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
26	SB-02	SB-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
27	SB-03	SB-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
28	SB-04	SB-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
29	SB-05	SB-05	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
30	SB-06	SB-06	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
31	SB-07	SB-07	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
32	SB-08	SB-08	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
33	SB-09	SB-09	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
34	SB-10	SB-10	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
35	SB-11	SB-11	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
36	SB-12	SB-12	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
37	SB-13	SB-13	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
38	SB-14	SB-14	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
39	HL-01	HL-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
40	HL-02	HL-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
41	HL-03	HL-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
42	CH-01	CH-01	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
43	CH-02	CH-02	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
44	CH-03	CH-03	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
45	CH-04	CH-04	12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
46	CH-05	CH-05	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
47	CH-06	CH-06	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
48	CH-07	CH-07	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
49	CH-08	CH-08	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
50	CH-09	CH-09	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
51	CH-10	CH-10	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
52	CH-11	CH-11	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
53	10S-01	10S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
54	10S-02	10S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
55	10S-03	10S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
56	10S-04	10S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
57	10S-05	10S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
58	10S-06	10S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
59	10S-07	10S-07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
60	10S-08	10S-08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
61	10S-09	10S-09	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
62	10S-10	10S-10	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
63	10S-11	10S-11	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
64	12S-01	12S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
65	12S-02	12S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
66	12S-03	12S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
67	12S-04	12S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
68	12S-05	12S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
69	12S-06	12S-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
70	14S-01	14S-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
71	14S-02	14S-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
72	14S-03	14S-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
73	14S-04	14S-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
74	14S-05	14S-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
75	14S-06	14S-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
76	14S-07	14S-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
77	14S-08	14S-08	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
78	14S-09	14S-09	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
79	14S-10	14S-10	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
80	14S-11	14S-11	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
81	14S-12	14S-12	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
82	18S-01	18S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
83	18S-02	18S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
84	18S-03	18S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
85	18S-04	18S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
86	18S-05	18S-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
87	20S-01	20S-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
88	20S-02	20S-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
89	20S-03	20S-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
90	20S-04	20S-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
91	20S-05	20S-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
92	20S-06	20S-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
93	20S-07	20S-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
94	HT-01	HT-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
95	HT-02	HT-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
96	HT-03	HT-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
97	HT-04	HT-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
98	22S-01	22S-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
99	22S-02	22S-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
100	22S-03	22S-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
101	22S-04	22S-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
102	23K-01	23K-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
103	23K-02	23K-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
104	23K-03	23K-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
105	23K-04	23K-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000

Ref.	Building Name	Sub-Building Name	Height	Default	Hogging: 2nd Mom. of Area	Hogging: Dist. of Bending	Hogging: Dist. of N.A. from	Sagging: 2nd Mom. of Area	Sagging: Dist. of Bending	Sagging: Dist. of N.A. from
106	23K-05	23K-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
107	23K-06	23K-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
108	23K-07	23K-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
109	23K-08	23K-08	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
110	23K-09	23K-09	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
111	23K-10	23K-10	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
112	23K-11	23K-11	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
113	23K-12	23K-12	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
114	23K-13	23K-13	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
115	23K-14	23K-14	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
116	23K-15	23K-15	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
117	23K-16	23K-16	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
118	23K-17	23K-17	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
119	23K-18	23K-18	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
120	23K-19	23K-19	3.0000	Yes	9.0000	3.0000	3.0000	2.2500	1.5000	1.5000
121	23AB-01	23AB-01	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
122	23AB-02	23AB-02	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
123	23AB-03	23AB-03	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
124	23AB-04	23AB-04	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
125	23AB-05	23AB-05	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
126	23AB-06	23AB-06	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
127	23AB-07	23AB-07	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
128	23AB-08	23AB-08	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
129	23AB-09	23AB-09	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
130	23AB-10	23AB-10	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
131	23AB-11	23AB-11	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
132	23AB-12	23AB-12	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
133	23AB-13	23AB-13	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
134	23AB-14	23AB-14	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
135	23AB-15	23AB-15	9.0000	Yes	243.00	9.0000	9.0000	60.750	4.5000	4.5000
136	28K-01	28K-01	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
137	28K-02	28K-02	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
138	28K-03	28K-03	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
139	28K-04	28K-04	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
140	28K-05	28K-05	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
141	28K-06	28K-06	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000
142	28K-07	28K-07	6.0000	Yes	72.000	6.0000	6.0000	18.000	3.0000	3.0000

Specific Buildings - Segment Combinations

Stage: Ref.	Stage: Name	Building: Ref.	Building: Name	Sub-Building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature	Combined Segment
0	Base Model	1	16S-01	16S-01	0.0	No combined segments for this stage, specific building and offset				
		2	16S-02	16S-02	0.0	3	0.0	0.0	Hogging	0
		3	16S-03	16S-03	0.0	No combined segments for this stage, specific building and offset				
		4	16S-04	16S-04	0.0	No combined segments for this stage, specific building and offset				
		5	16S-05	16S-05	0.0	No combined segments for this stage, specific building and offset				
		6	16S-06	16S-06	0.0	8	0.0	0.0	Hogging	1
					0.0	10	0.0	0.0	Hogging	1
		7	BS-01	BS-01	0.0	12	0.0	0.0	Hogging	0
		8	BS-02	BS-02	0.0	No combined segments for this stage, specific building and offset				
		9	BS-03	BS-03	0.0	No combined segments for this stage, specific building and offset				
		10	BS-04	BS-04	0.0	No combined segments for this stage, specific building and offset				
		11	BS-05	BS-05	0.0	No combined segments for this stage, specific building and offset				
		12	BS-06	BS-06	0.0	No combined segments for this stage, specific building and offset				
		13	BS-07	BS-07	0.0	No combined segments for this stage, specific building and offset				
		14	BS-08	BS-08	0.0	No combined segments for this stage, specific building and offset				
		15	BS-09	BS-09	0.0	No combined segments for this stage, specific building and offset				
		16	BS-10	BS-10	0.0	No combined segments for this stage, specific building and offset				
		17	BS-11	BS-11	0.0	No combined segments for this stage, specific building and offset				
		18	BS-12	BS-12	0.0	No combined segments for this stage, specific building and offset				
		19	BS-13	BS-13	0.0	No combined segments for this stage, specific building and offset				
		20	BS-14	BS-14	0.0	No combined segments for this stage, specific building and offset				
		21	BS-15	BS-15	0.0	No combined segments for this stage, specific building and offset				
		22	BS-16	BS-16	0.0	No combined segments for this stage, specific building and offset				
		23	BS-17	BS-17	0.0	No combined segments for this stage, specific building and offset				
		24	BS-18	BS-18	0.0	No combined segments for this stage, specific building and offset				
		25	SB-01	SB-01	0.0	No combined segments for this stage, specific building and offset				
		26	SB-02	SB-02	0.0	No combined segments for this stage, specific building and offset				
		27	SB-03	SB-03	0.0	No combined segments for this stage, specific building and offset				
		28	SB-04	SB-04	0.0	No combined segments for this stage, specific building and offset				
		29	SB-05	SB-05	0.0	No combined segments for this stage, specific building and offset				
		30	SB-06	SB-06	0.0	No combined segments for this stage, specific building and offset				
		31	SB-07	SB-07	0.0	No combined segments for this stage, specific building and offset				
		32	SB-08	SB-08	0.0	No combined segments for this stage, specific building and offset				
		33	SB-09	SB-09	0.0	No combined segments for this stage, specific building and offset				
		34	SB-10	SB-10	0.0	No combined segments for this stage, specific building and offset				
		35	SB-11	SB-11	0.0	No combined segments for this stage, specific building and offset				
		36	SB-12	SB-12	0.0	No combined segments for this stage, specific building and offset				
		37	SB-13	SB-13	0.0	No combined segments for this stage, specific building and offset				
		38	SB-14	SB-14	0.0	No combined segments for this stage, specific building and offset				
		39	HL-01	HL-01	0.0	No combined segments for this stage, specific building and offset				
		40	HL-02	HL-02	0.0	No combined segments for this stage, specific building and offset				
		41	HL-03	HL-03	0.0	No combined segments for this stage, specific building and offset				
		42	CH-01	CH-01	0.0	No combined segments for this stage, specific building and offset				
		43	CH-02	CH-02	0.0	No combined segments for this stage, specific building and offset				
		44	CH-03	CH-03	0.0	No combined segments for this stage, specific building and offset				
		45	CH-04	CH-04	0.0	No combined segments for this stage, specific building and offset				
		46	CH-05	CH-05	0.0	No combined segments for this stage, specific building and offset				
		47	CH-06	CH-06	0.0	No combined segments for this stage, specific building and offset				
		48	CH-07	CH-07	0.0	No combined segments for this stage, specific building and offset				
		49	CH-08	CH-08	0.0	No combined segments for this stage, specific building and offset				
		50	CH-09	CH-09	0.0	No combined segments for this stage, specific building and offset				
		51	CH-10	CH-10	0.0	No combined segments for this stage, specific building and offset				
		52	CH-11	CH-11	0.0	No combined segments for this stage, specific building and offset				
		53	10S-01	10S-01	0.0	No combined segments for this stage, specific building and offset				
		54	10S-02	10S-02	0.0	No combined segments for this stage, specific building and offset				
		55	10S-03	10S-03	0.0	No combined segments for this stage, specific building and offset				
		56	10S-04	10S-04	0.0	No combined segments for this stage, specific building and offset				
		57	10S-05	10S-05	0.0	No combined segments for this stage, specific building and offset				
		58	10S-06	10S-06	0.0	No combined segments for this stage, specific building and offset				
		59	10S-07	10S-07	0.0	No combined segments for this stage, specific building and offset				
		60	10S-08	10S-08	0.0	No combined segments for this stage, specific building and offset				
		61	10S-09	10S-09	0.0	No combined segments for this stage, specific building and offset				
		62	10S-10	10S-10	0.0	No combined segments for this stage, specific building and offset				
		63	10S-11	10S-11	0.0	No combined segments for this stage, specific building and offset				
		64	12S-01	12S-01	0.0	No combined segments for this stage, specific building and offset				
		65	12S-02	12S-02	0.0	No combined segments for this stage, specific building and offset				
		66	12S-03	12S-03	0.0	No combined segments for this stage, specific building and offset				
		67	12S-04	12S-04	0.0	No combined segments for this stage, specific building and offset				
		68	12S-05	12S-05	0.0	No combined segments for this stage, specific building and offset				
		69	12S-06	12S-06	0.0	No combined segments for this stage, specific building and offset				
		70	14S-01	14S-01	0.0	No combined segments for this stage, specific building and offset				
		71	14S-02	14S-02	0.0	No combined segments for this stage, specific building and offset				
		72	14S-03	14S-03	0.0	No combined segments for this stage, specific building and offset				
		73	14S-04	14S-04	0.0	No combined segments for this stage, specific building and offset				
		74	14S-05	14S-05	0.0	No combined segments for this stage, specific building and offset				
		75	14S-06	14S-06	0.0	No combined segments for this stage, specific building and offset				
		76	14S-07	14S-07	0.0	No combined segments for this stage, specific building and offset				
		77	14S-08	14S-08	0.0	No combined segments for this stage, specific building and offset				
		78	14S-09	14S-09	0.0	No combined segments for this stage, specific building and offset				
		79	14S-10	14S-10	0.0	No combined segments for this stage, specific building and offset				
		80	14S-11	14S-11	0.0	No combined segments for this stage, specific building and offset				

Stage: Ref.	Stage: Name	Building: Ref.	Building: Name	Sub-Building Name	Vertical Offset from Line for Vertical	Segment Start Length Curvature	Combined Segment
		81	14S-12	14S-12	0.0	No combined segments for this stage, specific building and offset	
		82	18S-01	18S-01	0.0	No combined segments for this stage, specific building and offset	
		83	18S-02	18S-02	0.0	No combined segments for this stage, specific building and offset	
		84	18S-03	18S-03	0.0	No combined segments for this stage, specific building and offset	
		85	18S-04	18S-04	0.0	No combined segments for this stage, specific building and offset	
		86	18S-05	18S-05	0.0	No combined segments for this stage, specific building and offset	
		87	20S-01	20S-01	0.0	No combined segments for this stage, specific building and offset	
		88	20S-02	20S-02	0.0	No combined segments for this stage, specific building and offset	
		89	20S-03	20S-03	0.0	No combined segments for this stage, specific building and offset	
		90	20S-04	20S-04	0.0	No combined segments for this stage, specific building and offset	
		91	20S-05	20S-05	0.0	No combined segments for this stage, specific building and offset	
		92	20S-06	20S-06	0.0	No combined segments for this stage, specific building and offset	
		93	20S-07	20S-07	0.0	No combined segments for this stage, specific building and offset	
		94	HT-01	HT-01	0.0	No combined segments for this stage, specific building and offset	
		95	HT-02	HT-02	0.0	No combined segments for this stage, specific building and offset	
		96	HT-03	HT-03	0.0	No combined segments for this stage, specific building and offset	
		97	HT-04	HT-04	0.0	No combined segments for this stage, specific building and offset	
		98	22S-01	22S-01	0.0	No combined segments for this stage, specific building and offset	
		99	22S-02	22S-02	0.0	No combined segments for this stage, specific building and offset	
		100	22S-03	22S-03	0.0	No combined segments for this stage, specific building and offset	
		101	22S-04	22S-04	0.0	No combined segments for this stage, specific building and offset	
		102	23K-01	23K-01	0.0	No combined segments for this stage, specific building and offset	
		103	23K-02	23K-02	0.0	No combined segments for this stage, specific building and offset	
		104	23K-03	23K-03	0.0	No combined segments for this stage, specific building and offset	
		105	23K-04	23K-04	0.0	No combined segments for this stage, specific building and offset	
		106	23K-05	23K-05	0.0	No combined segments for this stage, specific building and offset	
		107	23K-06	23K-06	0.0	No combined segments for this stage, specific building and offset	
		108	23K-07	23K-07	0.0	No combined segments for this stage, specific building and offset	
		109	23K-08	23K-08	0.0	No combined segments for this stage, specific building and offset	
		110	23K-09	23K-09	0.0	No combined segments for this stage, specific building and offset	
		111	23K-10	23K-10	0.0	No combined segments for this stage, specific building and offset	
		112	23K-11	23K-11	0.0	No combined segments for this stage, specific building and offset	
		113	23K-12	23K-12	0.0	No combined segments for this stage, specific building and offset	
		114	23K-13	23K-13	0.0	No combined segments for this stage, specific building and offset	
		115	23K-14	23K-14	0.0	No combined segments for this stage, specific building and offset	
		116	23K-15	23K-15	0.0	No combined segments for this stage, specific building and offset	
		117	23K-16	23K-16	0.0	No combined segments for this stage, specific building and offset	
		118	23K-17	23K-17	0.0	No combined segments for this stage, specific building and offset	
		119	23K-18	23K-18	0.0	No combined segments for this stage, specific building and offset	
		120	23K-19	23K-19	0.0	No combined segments for this stage, specific building and offset	
		121	23AB-01	23AB-01	0.0	No combined segments for this stage, specific building and offset	
		122	23AB-02	23AB-02	0.0	No combined segments for this stage, specific building and offset	
		123	23AB-03	23AB-03	0.0	No combined segments for this stage, specific building and offset	
		124	23AB-04	23AB-04	0.0	No combined segments for this stage, specific building and offset	
		125	23AB-05	23AB-05	0.0	No combined segments for this stage, specific building and offset	
		126	23AB-06	23AB-06	0.0	No combined segments for this stage, specific building and offset	
		127	23AB-07	23AB-07	0.0	No combined segments for this stage, specific building and offset	
		128	23AB-08	23AB-08	0.0	No combined segments for this stage, specific building and offset	
		129	23AB-09	23AB-09	0.0	No combined segments for this stage, specific building and offset	
		130	23AB-10	23AB-10	0.0	No combined segments for this stage, specific building and offset	
		131	23AB-11	23AB-11	0.0	No combined segments for this stage, specific building and offset	
		132	23AB-12	23AB-12	0.0	No combined segments for this stage, specific building and offset	
		133	23AB-13	23AB-13	0.0	No combined segments for this stage, specific building and offset	
		134	23AB-14	23AB-14	0.0	No combined segments for this stage, specific building and offset	
		135	23AB-15	23AB-15	0.0	No combined segments for this stage, specific building and offset	
		136	28K-01	28K-01	0.0	No combined segments for this stage, specific building and offset	
		137	28K-02	28K-02	0.0	No combined segments for this stage, specific building and offset	
		138	28K-03	28K-03	0.0	No combined segments for this stage, specific building and offset	
		139	28K-04	28K-04	0.0	No combined segments for this stage, specific building and offset	
		140	28K-05	28K-05	0.0	No combined segments for this stage, specific building and offset	
		141	28K-06	28K-06	0.0	No combined segments for this stage, specific building and offset	
		142	28K-07	28K-07	0.0	No combined segments for this stage, specific building and offset	

Warnings

1 Multiple excavations have been specified. Displacements resulting from each excavation are summed with no account taken of the interactions between excavations (e.g. overlapping zones of influence or 'shielding' of one excavation by another).

2 The following polygonal excavations have one or more re-entrant corners: 1, 4. The use of re-entrant corners is permitted but not recommended. CIRIA C580/C760, on which XDisp's method for modelling ground movements behind walls of excavations is based, considers only movements for points lying at right angles behind single walls. It does not consider how movements should be calculated within the zone of influence of re-entrant corners, i.e. where movements would be influenced by two walls adjacent to the re-entrant corner. By default, XDisp will merely sum the effects from both walls, making no allowance for interaction or stiffening of the corner. Please refer to help manual for artificial smoothing options. Re-entrant corners should be used with caution. Results in their vicinity should be validated independently.

Errors

None

Displacement Results - Displacement Lines

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
0	Base Model	1	16S-01	0.0	86.49970	85.17730	0.00000	9.9712	-3.5853	8.9620	-2.4585	10.307	236.81	*
				0.42983	86.26439	84.81760	0.00000	9.8569	-3.6111	9.0843	-2.3743	10.226	236.81	*
				0.85967	86.02907	84.45790	0.00000	9.7316	-3.6335	9.2119	-2.2870	10.133	236.81	*
				1.2895	85.79376	84.09820	0.00000	9.5947	-3.6520	9.3450	-2.1965	10.029	236.81	*
				1.7193	85.55844	83.73850	0.00000	9.4453	-3.6664	9.4838	-2.1028	9.9114	236.81	*
				2.1492	85.32313	83.37880	0.00000	9.2827	-3.6761	9.6284	-2.0056	9.7806	236.81	*
				2.5790	85.08781	83.01910	0.00000	9.1061	-3.6807	9.7787	-1.9050	9.6353	236.81	*
				3.0088	84.85250	82.65940	0.00000	8.9145	-3.6797	9.9350	-1.8010	9.4744	236.81	*
				3.4387	84.61719	82.29970	0.00000	8.7072	-3.6725	10.097	-1.6935	9.2970	236.81	*
				3.8685	84.38187	81.94000	0.00000	8.4833	-3.6587	10.265	-1.5825	9.1021	236.81	*
				4.2983	84.14656	81.58030	0.00000	8.2423	-3.6375	10.439	-1.4683	8.8888	236.81	*
				4.7282	83.91124	81.22060	0.00000	7.9834	-3.6084	10.618	-1.3509	8.6563	236.81	*
				5.1580	83.67593	80.86090	0.00000	7.7065	-3.5709	10.803	-1.2307	8.4040	236.81	*
				5.5878	83.44061	80.50120	0.00000	7.4115	-3.5245	10.992	-1.1080	8.1317	236.81	*
				6.0177	83.20530	80.14150	0.00000	7.1945	-3.5033	11.147	-1.0070	7.9385	236.81	*
		2	16S-02	0.0	83.20530	80.14150	0.00000	7.1945	-3.5033	11.147	-7.4025	3.0392	176.36	*
				0.47059	82.73566	80.17139	0.00000	6.5359	-3.3872	11.073	-6.7379	2.9652	176.36	*
				0.94119	82.26601	80.20129	0.00000	5.9422	-3.2908	10.999	-6.1392	2.9067	176.36	*
				1.4118	81.79637	80.23118	0.00000	5.3478	-3.1956	10.922	-5.5400	2.8494	176.36	*
				1.8824	81.32673	80.26107	0.00000	4.7462	-3.0998	10.839	-4.9336	2.7920	176.36	*
				2.3530	80.85709	80.29096	0.00000	4.1372	-3.0034	10.746	-4.3196	2.7346	176.36	*
				2.8236	80.38744	80.32086	0.00000	3.5203	-2.9065	10.640	-3.6978	2.6770	176.36	*
				3.2942	79.91780	80.35075	0.00000	2.9145	-2.8162	10.509	-3.0875	2.6254	176.36	*
				3.7647	79.44816	80.38064	0.00000	2.3297	-2.7461	10.358	-2.4994	2.5926	176.36	*
				4.2353	78.97851	80.41054	0.00000	1.7576	-2.6910	10.182	-1.9250	2.5739	176.36	*
				4.7059	78.50887	80.44043	0.00000	1.2231	-2.6528	9.9633	-1.3891	2.5698	176.36	*
				5.1765	78.03923	80.47032	0.00000	0.76556	-2.6476	9.6916	-0.93219	2.5936	176.36	*
				5.6471	77.56959	80.50021	0.00000	0.48814	-2.7169	9.3448	-0.65974	2.6804	176.36	*
				6.1177	77.09994	80.53011	0.00000	0.75975	-3.0099	8.8579	-0.94941	2.9556	176.36	*
				6.5883	76.63030	80.56000	0.00000	3.7678	-4.4978	7.8985	-4.0459	4.2494	176.36	*
		3	16S-03	0.0	76.63030	80.56000	0.00000	3.7678	-4.4978	7.8985	-5.3176	2.4799	154.96	*
				0.46710	76.20712	80.75773	0.00000	6.3028	-5.9097	7.2060	-8.2120	2.6860	154.96	*
				0.93420	75.78393	80.95547	0.00000	5.9071	-5.7549	7.0108	-7.7879	2.7133	154.96	*
				1.4013	75.36075	81.15320	0.00000	5.5132	-5.6007	6.8217	-7.3657	2.7403	154.96	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				1.8684	74.93757	81.35093	0.00000	5.1213	-5.4470	6.6382	-6.9456	2.7670	154.96	*
				2.3355	74.51438	81.54867	0.00000	4.7297	-5.2952	6.4601	-6.5266	2.7952	154.96	*
				2.8026	74.09120	81.74640	0.00000	4.3316	-5.1514	6.2870	-6.1050	2.8334	154.96	*
		4	16S-04	0.0	74.09120	81.74640	0.00000	4.3316	-5.1514	6.2870	-1.8284	-6.4774	55.822	*
				0.47964	74.36064	82.14321	0.00000	4.4045	-5.0024	6.2076	-1.6642	-6.4540	55.822	*
				0.95928	74.63009	82.54001	0.00000	4.4741	-4.8583	6.1306	-1.5058	-6.4306	55.822	*
				1.4389	74.89953	82.93682	0.00000	4.5408	-4.7184	6.0555	-1.3526	-6.4072	55.822	*
				1.9186	75.16898	83.33362	0.00000	4.6050	-4.5824	5.9819	-1.2041	-6.3839	55.822	*
				2.3982	75.43842	83.73043	0.00000	4.6669	-4.4497	5.9092	-1.0596	-6.3606	55.822	*
				2.8778	75.70786	84.12724	0.00000	4.7268	-4.3200	5.8371	-0.91859	-6.3373	55.822	*
				3.3575	75.97731	84.52404	0.00000	4.4392	-4.0055	6.0400	-0.81999	-5.9227	55.822	*
				3.8371	76.24675	84.92085	0.00000	4.5119	-3.8890	5.9560	-0.68275	-5.9174	55.822	*
				4.3168	76.51619	85.31766	0.00000	4.5793	-3.7778	5.8715	-0.55286	-5.9107	55.822	*
				4.7964	76.78564	85.71446	0.00000	4.6427	-3.6706	5.7861	-0.42863	-5.9029	55.822	*
				5.2760	77.05508	86.11127	0.00000	4.7114	-3.5698	5.6981	-0.30658	-5.9031	55.822	*
				5.7557	77.32452	86.50807	0.00000	4.7808	-3.4724	5.6081	-0.18702	-5.9058	55.822	*
				6.2353	77.59397	86.90488	0.00000	4.8469	-3.3759	5.5169	-0.070094	-5.9063	55.822	*
				6.7150	77.86341	87.30169	0.00000	4.8385	-3.2516	5.4523	0.028010	-5.8295	55.822	*
				7.1946	78.13286	87.69849	0.00000	4.8295	-3.1321	5.3816	0.12183	-5.7550	55.822	*
				7.6743	78.40230	88.09530	0.00000	4.8426	-3.0252	5.2985	0.21765	-5.7058	55.822	*
		5	16S-05	0.0	78.40230	88.09530	0.00000	4.8426	-3.0252	5.2985	4.2132	-3.8538	10.455	*
				0.49531	78.88938	88.18518	0.00000	5.1166	-3.0339	5.2860	4.4811	-3.9121	10.455	*
				0.99061	79.37647	88.27507	0.00000	5.3460	-3.0144	5.3119	4.7103	-3.9345	10.455	*
				1.4859	79.86355	88.36495	0.00000	5.5337	-2.9714	5.3851	4.9026	-3.9263	10.455	*
				1.9812	80.35063	88.45483	0.00000	5.7333	-2.9314	5.4508	5.1061	-3.9231	10.455	*
				2.4765	80.83772	88.54472	0.00000	5.9439	-2.8949	5.5093	5.3199	-3.9255	10.455	*
				2.9718	81.32480	88.63460	0.00000	6.1648	-2.8619	5.5606	5.5431	-3.9331	10.455	*
		6	16S-06	0.0	81.32480	88.63460	0.00000	6.1648	-2.8619	5.5606	6.7159	1.0450	326.25	*
				0.44454	81.69444	88.38765	0.00000	6.3861	-2.8880	5.7455	6.9144	1.1462	326.25	*
				0.88908	82.06407	88.14070	0.00000	6.6104	-2.9126	5.9336	7.1146	1.2504	326.25	*
				1.3336	82.43371	87.89375	0.00000	6.8142	-2.9576	6.1695	7.3090	1.3261	326.25	*
				1.7782	82.80334	87.64680	0.00000	7.0253	-3.0006	6.4079	7.5084	1.4077	326.25	*
				2.2227	83.17298	87.39985	0.00000	7.2449	-3.0421	6.6484	7.7141	1.4952	326.25	*
				2.6672	83.54261	87.15290	0.00000	7.4741	-3.0828	6.8908	7.9273	1.5886	326.25	*
				3.1118	83.91225	86.90595	0.00000	7.7137	-3.1233	7.1352	8.1490	1.6881	326.25	*
				3.5563	84.28189	86.65900	0.00000	7.9497	-3.1639	7.3881	8.3678	1.7854	326.25	*
				4.0009	84.65152	86.41205	0.00000	8.2109	-3.2140	7.6505	8.6129	1.8889	326.25	*
				4.4454	85.02116	86.16510	0.00000	8.5272	-3.2767	7.9135	8.9106	2.0124	326.25	*
				4.8899	85.39079	85.91815	0.00000	8.8619	-3.3453	8.1756	9.2270	2.1413	326.25	*
				5.3345	85.76043	85.67120	0.00000	9.2164	-3.4225	8.4363	9.5647	2.2740	326.25	*
				5.7790	86.13006	85.42425	0.00000	9.5861	-3.5025	8.6982	9.9166	2.4130	326.25	*
				6.2235	86.49970	85.17730	0.00000	9.9712	-3.5853	8.9620	10.283	2.5580	326.25	*
		7	BS-01	0.0	41.07740	85.19800	0.00000	3.3366	1.1724	7.3841	2.7140	2.2675	339.48	*
				0.49919	41.54492	85.02303	0.00000	3.4132	1.5851	7.8874	2.6411	2.6809	339.48	*
				0.99838	42.01244	84.84806	0.00000	3.4711	2.0837	8.4419	2.5206	3.1682	339.48	*
				1.4976	42.47996	84.67309	0.00000	3.5057	2.6813	9.0600	2.3435	3.7399	339.48	*
				1.9968	42.94748	84.49812	0.00000	3.5119	3.3879	9.7616	2.1016	4.4040	339.48	*
				2.4959	43.41500	84.32315	0.00000	3.4854	4.2062	10.576	1.7900	5.1610	339.48	*
				2.9951	43.88252	84.14818	0.00000	3.4234	5.1239	11.545	1.4103	5.9988	339.48	*
				3.4943	44.35003	83.97322	0.00000	3.3269	6.1086	12.872	0.97471	6.8872	339.48	*
				3.9935	44.81755	83.79825	0.00000	3.4539	6.3786	13.868	0.99901	7.1846	339.48	*
				4.4927	45.28507	83.62328	0.00000	3.5891	6.6283	14.652	1.0381	7.4658	339.48	*
				4.9919	45.75259	83.44831	0.00000	3.7253	6.8798	15.271	1.0775	7.7491	339.48	*
				5.4911	46.22011	83.27334	0.00000	3.8625	7.1332	15.758	1.1172	8.0345	339.48	*
				5.9903	46.68763	83.09837	0.00000	4.0007	7.3885	16.138	1.1572	8.3220	339.48	*
				6.4894	47.15515	82.92340	0.00000	4.1399	7.6456	16.426	1.1974	8.6116	339.48	*
				6.9886	47.62267	82.74843	0.00000	4.2801	7.9045	16.634	1.2380	8.9033	339.48	*
				7.4878	48.09019	82.57346	0.00000	4.4445	8.1566	16.790	1.3036	9.1969	339.48	*
				7.9870	48.55771	82.39849	0.00000	4.6824	8.2295	16.908	1.5008	9.3486	339.48	*
				8.4862	49.02523	82.22352	0.00000	4.7527	7.9928	16.769	1.6496	9.1516	339.48	*
				8.9854	49.49275	82.04855	0.00000	4.8221	7.7546	16.568	1.7981	8.9528	339.48	*
				9.4846	49.96027	81.87358	0.00000	4.8906	7.5148	16.294	1.9464	8.7522	339.48	*
				9.9838	50.42778	81.69862	0.00000	4.9583	7.2734	15.922	2.0943	8.5499	339.48	*
				10.483	50.89530	81.52365	0.00000	5.0251	7.0304	15.420	2.2421	8.3457	339.48	*
				10.982	51.36282	81.34868	0.00000	5.0910	6.7858	14.751	2.3895	8.1398	339.48	*
				11.481	51.83034	81.17371	0.00000	5.1560	6.5397	13.880	2.5367	7.9320	339.48	*
				11.981	52.29786	80.99874	0.00000	5.2202	6.2920	12.659	2.6836	7.7225	339.48	*
				12.480	52.76538	80.82377	0.00000	6.4322	9.4611	15.056	2.7079	11.115	339.48	*
				12.979	53.23290	80.64880	0.00000	5.1442	8.6486	14.399	1.7864	9.9030	339.48	*
		8	BS-02	0.0	53.23290	80.64880	0.00000	5.1442	8.6486	14.399	-9.9054	1.7732	249.41	*
				0.49133	53.06007	80.18987	0.00000	5.2777	8.3131	13.855	-9.6383	2.0162	249.41	*
				0.98267	52.88724	79.72893	0.00000	5.2985	7.9309	13.269	-9.2878	2.1701	249.41	*
				1.4740	52.71441	79.26900	0.00000	5.2537	7.5239	12.657	-8.8910	2.2714	249.41	*
				1.9653	52.54158	78.80906	0.00000	5.1680	7.1033	12.037	-8.4673	2.3391	249.41	*
				2.4567	52.36875	78.34913	0.00000	5.0555	6.6756	11.426	-8.0272	2.3842	249.41	*
				2.9480	52.19592	77.88920	0.00000	4.9246	6.2442	10.832	-7.5774	2.4134	249.41	*
				3.4393	52.02309	77.42926	0.00000	4.7808	5.8114	10.261	-7.1217	2.4311	249.41	*
				3.9307	51.85025	76.96933	0.00000	4.6277	5.3785	9.7143	-6.6626	2.4400	249.41	*
				4.4220	51.67742	76.50940	0.00000	4.4701	4.9507	9.1905	-6.2067	2.4430	249.41	*
				4.9133	51.50459	76.04946	0.00000	4.3336	4.5995	8.6862	-5.8299	2.4387	249.41	*
				5.4047	51.33176	75.58953	0.00000	4.1838	4.2534	8.2003	-5.4532	2.4203	249.41	*
				5.8960	51.15893	75.12959	0.00000	4.0310	3.9089	7.7335	-5.0771	2.3984	249.41	*
				6.3873	50.98610	74.66966	0.00000	3.8760	3.5664	7.2840	-4.7019	2.3738	249.41	*
				6.8787	50.81327	74.20973	0.00000	3.7192	3.2257	6.8502	-4.3279	2.3469	249.41	*
				7.3700	50.64044	73.74979	0.00000	3.5593	2.8834	6.4296	-3.9511	2.3175	249.41	*
				7.8614	50.46761	73.28986	0.00000	3.3980	2.5425	6.0205	-3.5752	2.2865	249.41	*
				8.3527	50.29478	72.82992	0.00000	3.2376	2.2063	5.6211	-3.2042	2.2546	249.41	*
				8.8440	50.12195	72.36999	0.00000	3.0783	1.8749	5.2289	-2.8378	2.2220	249.41	*
				9.3354	49.94912	71.91006	0.00000	2.9201	1.5480	4.8412	-2.4762	2.1890	249.41	*
				9.8267	49.77629	71.45012	0.00000	2.8302	1.3491	4.5638	-2.2584	2.1748	249.41	*
				10.318	49.60346	70.99019	0.00000	2.7554	1.1799	4.3269	-2.0737	2.1643	249.41	*
				10.809	49.43063	70.53025	0.00000	2.6803	1.0115	4.1018	-1.8897	2.1531	249.41	*
				11.301	49.25780	70.07032	0.00000	2.6047	0.84394	3.8884	-1.7062	2.1414	249.41	*
				11.792	49.08496	69.61039	0.00000	2.5289	0.67684	3.6867	-1.5231	2.1292	249.41	*
				12.283	48.91213	69.15045	0.00000	2.4526	0.51005	3.4963	-1.3402	2.1164	249.41	*
				12.775	48.73930	68.69052	0.00000	2.3769	0.35511	3.3164	-1.1685	2.1001	249.41	*
				13.266	48.56647	68.23059	0.00000	2.3168	0.29824	3.1418	-1.0941	2.0638	249.41	*
				13.757	48.39364	67.77065	0.00000	2.2607	0.27527	2.9707	-1.0529	2.0194	249.41	*
				14.249	48.22081	67.31072	0.00000	2.1962	0.25304	2.8023	-1.0094	1.9669	249.41	*
				14.740	48.04798	66.85078	0.00000	2.1234	0.23052	2.6359	-0.96270	1.9066	249.41	*
				15.231	47.87515	66.39085	0.00000	2.0423	0.20668	2.4702	-0.91185	1.8390	249.41	*
				15.723	47.70232	65.93092	0.00000	1.9747	0.17658	2.3084	-0.85992	1.7864	249.41	*
				16.214	47.52949	65.47098	0.00000	1.9036	0.14248	2.1457	-0.80300	1.7319	249.41	*
				16.705	47.35666	65.01105	0.00000	1.8230	0.10469	1.9794	-0.73925	1.6697	249.41	*
				17.197	47.18383	64.55111	0.00000	1.7396	0.062043	1.8077	-0.67001	1.6066	249.41	*
				17.688	47.01100	64.09118	0.00000	1.6665	0.014162	1.6290	-0.59946	1.5550	249.41	*
				18.179	46.83817	63.63125	0.00000	1.6035	0.0	1.4885	-0.56406	1.5011	249.41	*
				18.671	46.66534	63.17131	0.00000	1.5584	0.0	1.4232	-0.54818	1.4588	249.41	*
				19.162	46.49250	62.71138	0.00000	1.5121	0.0	1.3597	-0.53191	1.4155	249.41	*
				19.653	46.31967	62.25145	0.00000	1.4647	0.0	1.2978	-0.51523	1.3711	249.41	*
				20.145	46.14684	61.79151	0.00000	1.4162	0.0	1.2375	-0.49814	1.3257	249.41	*
				20.636	45.97401	61.33158	0.00000	1.3664	0.0	1.1787	-0.48066	1.2791	249.41	*
				21.127	45.80118	60.87164	0.00000	1.3156	0.0	1.1213	-0.46277	1.2315	249.41	*
				21.619	45.62835	60.41171	0.00000	1.2636	0.0	1.0652	-0.44448	1.1828	249.41	*
				22.110	45.45552	59.95178	0.00000	1.2105	0.0	1.0105	-0.42579	1.1331	249.41	*
				22.601	45.28269	59.49184	0.00000	1.1384	0.0	0.95458	-0.40043	1.0656	249.41	*
				23.093	45.10986	59.03191	0.00000	1.0403	0.0	0.89659	-0.36592	0.97378	249.41	*
				23.584	44.93703	58.57197	0.00000	0.94621	0.0	0.84029	-0.33284	0.88574	249.41	*
				24.075	44.76420	58.11204	0.00000	0.85623	0.0	0.78549	-0.30119	0.80151	249.41	*
				24.567	44.59137	57.65211	0.00000	0.77031	0.0	0.73204	-0.27096	0.72108	249.41	*
				25.058	44.41854	57.19217	0.00000	0.68845	0.0	0.67976	-0.24217	0.64445	249.41	*
				25.549	44.24571	56.73224	0.00000	0.61065	0.0	0.62853	-0.21480	0.57163	249.41	*
				26.041	44.07288	56.27230	0.00000	0.53692	0.0	0.57820	-0.18887	0.50260	249.41	*
				26.532	43.90005	55.81237	0.00000	0.46725	0.0	0.52864	-0.16436	0.43738	249.41	*
				27.023	43.72721	55.35244	0.00000	0.40815	0.0044994	0.48065	-0.14778	0.38048	249.41	*
				27.515	43.55438	54.89250	0.00000	0.35117	0.0092825	0.43106	-0.13221	0.32546	249.41	*
				28.006	43.38155	54.43257	0.00000	0.29333	0.012351	0.37904	-0.11474	0.27024	249.41	*
				28.497	43.20872	53.97264	0.00000	0.23483	0.013627	0.32446	-0.095359	0.21503	249.41	*
				28.989	43.03589	53.51270	0.00000	0.17584	0.013046	0.26715	-0.074066	0.16001	249.41	*
				29.480	42.86306	53.05277	0.00000	0.11652	0.010555	0.20685	-0.050868	0.10536	249.41	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				29.971	42.69023	52.59283	0.00000	0.057023	0.0061125	0.14328	-0.025780	0.051228	249.41	*
				30.463	42.51740	52.13290	0.00000	0.0	0.0	0.075813	0.0	0.0	249.41	*
		9	BS-03	0.0	42.51740	52.13290	0.00000	0.0	0.0	0.075813	0.0	0.0	182.90	*
				0.17272	42.34490	52.12415	0.00000	0.0	0.0	0.074360	0.0	0.0	182.90	*
				0.34544	42.17240	52.11540	0.00000	0.0	0.0	0.072928	0.0	0.0	182.90	*
		10	BS-04	0.0	42.17240	52.11540	0.00000	0.0	0.0	0.072928	0.0	0.0	244.30	*
				0.48678	41.96133	51.67676	0.00000	0.0	0.0	0.067938	0.0	0.0	244.30	*
				0.97357	41.75025	51.23812	0.00000	0.0	0.0	0.063157	0.0	0.0	244.30	*
				1.4604	41.53918	50.79948	0.00000	0.0	0.0	0.058577	0.0	0.0	244.30	*
				1.9471	41.32810	50.36083	0.00000	0.0	0.0	0.054191	0.0	0.0	244.30	*
				2.4339	41.11702	49.92219	0.00000	0.0	0.0	0.049990	0.0	0.0	244.30	*
				2.9207	40.90595	49.48355	0.00000	0.0	0.0	0.045966	0.0	0.0	244.30	*
				3.4075	40.69488	49.04491	0.00000	0.0	0.0	0.042114	0.0	0.0	244.30	*
				3.8943	40.48380	48.60627	0.00000	0.0	0.0	0.038425	0.0	0.0	244.30	*
				4.3811	40.27273	48.16763	0.00000	0.0	0.0	0.034894	0.0	0.0	244.30	*
				4.8678	40.06165	47.72898	0.00000	0.0	0.0	0.031515	0.0	0.0	244.30	*
				5.3546	39.85057	47.29034	0.00000	0.0	0.0	0.028280	0.0	0.0	244.30	*
				5.8414	39.63950	46.85170	0.00000	0.0	0.0	0.025185	0.0	0.0	244.30	*
		11	BS-05	0.0	39.63950	46.85170	0.00000	0.0	0.0	0.025185	0.0	0.0	169.41	*
				0.41953	39.22713	46.92883	0.00000	0.0	0.0	0.023730	0.0	0.0	169.41	*
				0.83905	38.81475	47.00595	0.00000	0.0	0.0	0.022316	0.0	0.0	169.41	*
				1.2586	38.40237	47.08308	0.00000	0.0	0.0	0.020939	0.0	0.0	169.41	*
				1.6781	37.99000	47.16020	0.00000	0.0	0.0	0.019600	0.0	0.0	169.41	*
		12	BS-06	0.0	37.99000	47.16020	0.00000	0.0	0.0	0.019600	0.0	0.0	155.57	*
				0.40368	37.62248	47.32718	0.00000	0.0	0.0	0.018855	0.0	0.0	155.57	*
				0.80735	37.25495	47.49415	0.00000	0.0	0.0	0.018123	0.0	0.0	155.57	*
				1.2110	36.88743	47.66112	0.00000	0.0	0.0	0.017404	0.0	0.0	155.57	*
				1.6147	36.51990	47.82810	0.00000	0.0	0.0	0.016698	0.0	0.0	155.57	*
		13	BS-07	0.0	36.51990	47.82810	0.00000	0.0	0.0	0.016698	0.0	0.0	130.58	*
				0.38860	36.26713	48.12325	0.00000	0.0	0.0	0.016955	0.0	0.0	130.58	*
				0.77720	36.01435	48.41840	0.00000	0.0	0.0	0.017212	0.0	0.0	130.58	*
				1.1658	35.76158	48.71355	0.00000	0.0	0.0	0.017470	0.0	0.0	130.58	*
				1.5544	35.50880	49.00870	0.00000	0.0	0.0	0.017728	0.0	0.0	130.58	*
				1.9430	35.25603	49.30385	0.00000	0.0	0.0	0.017988	0.0	0.0	130.58	*
				2.3316	35.00325	49.59900	0.00000	0.0	0.0	0.018248	0.0	0.0	130.58	*
				2.7202	34.75048	49.89415	0.00000	0.0	0.0	0.018508	0.0	0.0	130.58	*
				3.1088	34.49770	50.18930	0.00000	0.0	0.0	0.018769	0.0	0.0	130.58	*
		14	BS-08	0.0	34.49770	50.18930	0.00000	0.0	0.0	0.018769	0.0	0.0	154.62	*
				0.43736	34.10253	50.37673	0.00000	0.0	0.0	0.018036	0.0	0.0	154.62	*
				0.87473	33.70737	50.56417	0.00000	0.0	0.0	0.017314	0.0	0.0	154.62	*
				1.3121	33.31220	50.75160	0.00000	0.0	0.0	0.016602	0.0	0.0	154.62	*
				1.7495	32.91703	50.93903	0.00000	0.0	0.0	0.015900	0.0	0.0	154.62	*
				2.1868	32.52187	51.12647	0.00000	0.0	0.0	0.015207	0.0	0.0	154.62	*
				2.6242	32.12670	51.31390	0.00000	0.0	0.0	0.014522	0.0	0.0	154.62	*
		15	BS-09	0.0	32.12670	51.31390	0.00000	0.0	0.0	0.014522	0.0	0.0	67.402	*
				0.48956	32.31482	51.76587	0.00000	0.0	0.0	0.016983	0.0	0.0	67.402	*
				0.97913	32.50295	52.21785	0.00000	0.0	0.0	0.019559	0.0	0.0	67.402	*
				1.4687	32.69107	52.66983	0.00000	0.0	0.0	0.022255	0.0	0.0	67.402	*
				1.9583	32.87920	53.12180	0.00000	0.0	0.0	0.025078	0.0	0.0	67.402	*
		16	BS-10	0.0	32.87920	53.12180	0.00000	0.0	0.0	0.025078	0.0	0.0	161.15	*
				0.40664	32.49437	53.25320	0.00000	0.0	0.0	0.024043	0.0	0.0	161.15	*
				0.81328	32.10955	53.38460	0.00000	0.0	0.0	0.023024	0.0	0.0	161.15	*
				1.2199	31.72472	53.51600	0.00000	0.0	0.0	0.022019	0.0	0.0	161.15	*
				1.6266	31.33990	53.64740	0.00000	0.0	0.0	0.021029	0.0	0.0	161.15	*
		17	BS-11	0.0	31.33990	53.64740	0.00000	0.0	0.0	0.021029	0.0	0.0	252.83	*
				0.25067	31.26590	53.40790	0.00000	0.0	0.0	0.019720	0.0	0.0	252.83	*
				0.50134	31.19190	53.16840	0.00000	0.0	0.0	0.018440	0.0	0.0	252.83	*
		18	BS-12	0.0	31.19190	53.16840	0.00000	0.0	0.0	0.018440	0.0	0.0	157.25	*
				0.39957	30.82340	53.32289	0.00000	0.0	0.0	0.017664	0.0	0.0	157.25	*
				0.79915	30.45490	53.47737	0.00000	0.0	0.0	0.016897	0.0	0.0	157.25	*
				1.1987	30.08640	53.63186	0.00000	0.0	0.0	0.016137	0.0	0.0	157.25	*
				1.5983	29.71790	53.78635	0.00000	0.0	0.0	0.015385	0.0	0.0	157.25	*
				1.9979	29.34940	53.94084	0.00000	0.0	0.0	0.014640	0.0	0.0	157.25	*
				2.3974	28.98090	54.09533	0.00000	0.0	0.0	0.013902	0.0	0.0	157.25	*
				2.7970	28.61240	54.24981	0.00000	0.0	0.0	0.013171	0.0	0.0	157.25	*
				3.1966	28.24390	54.40430	0.00000	0.0	0.0	0.012447	0.0	0.0	157.25	*
		19	BS-13	0.0	28.24390	54.40430	0.00000	0.0	0.0	0.012447	0.0	0.0	68.454	*
				0.44360	28.40681	54.81690	0.00000	0.0	0.0	0.014531	0.0	0.0	68.454	*
				0.88720	28.56972	55.22950	0.00000	0.0	0.0	0.016704	0.0	0.0	68.454	*
				1.3308	28.73264	55.64210	0.00000	0.0	0.0	0.018971	0.0	0.0	68.454	*
				1.7744	28.89555	56.05470	0.00000	0.0	0.0	0.021336	0.0	0.0	68.454	*
				2.2180	29.05846	56.46730	0.00000	0.0	0.0	0.023803	0.0	0.0	68.454	*
				2.6616	29.22138	56.87990	0.00000	0.0	0.0	0.026378	0.0	0.0	68.454	*
				3.1052	29.38429	57.29250	0.00000	0.0	0.0	0.029065	0.0	0.0	68.454	*
				3.5488	29.54720	57.70510	0.00000	0.0	0.0	0.031870	0.0	0.0	68.454	*
		20	BS-14	0.0	29.54720	57.70510	0.00000	0.0	0.0	0.031870	0.0	0.0	337.73	*
				0.41644	29.93258	57.54730	0.00000	0.0	0.0	0.032986	0.0	0.0	337.73	*
				0.83288	30.31797	57.38950	0.00000	0.0	0.0	0.034111	0.0	0.0	337.73	*
				1.2493	30.70335	57.23170	0.00000	0.0	0.0	0.035243	0.0	0.0	337.73	*
				1.6658	31.08873	57.07390	0.00000	0.0	0.0	0.036383	0.0	0.0	337.73	*
				2.0822	31.47412	56.91610	0.00000	0.0	0.0	0.037532	0.0	0.0	337.73	*
				2.4986	31.85950	56.75830	0.00000	0.0	0.0	0.038690	0.0	0.0	337.73	*
		21	BS-15	0.0	31.85950	56.75830	0.00000	0.0	0.0	0.038690	0.0	0.0	69.548	*
				0.49971	32.03411	57.22651	0.00000	0.0	0.0	0.042318	0.0	0.0	69.548	*
				0.99942	32.20873	57.69472	0.00000	0.0	0.0	0.046127	0.0	0.0	69.548	*
				1.4991	32.38334	58.16294	0.00000	0.0	0.0	0.050126	0.0	0.0	69.548	*
				1.9988	32.55796	58.63115	0.00000	0.0	0.0	0.054325	0.0	0.0	69.548	*
				2.4986	32.73257	59.09936	0.00000	0.0	0.0	0.058738	0.0	0.0	69.548	*
				2.9983	32.90719	59.56757	0.00000	0.0	0.0	0.063377	0.0	0.0	69.548	*
				3.4980	33.08180	60.03578	0.00000	0.0	0.0	0.068255	0.0	0.0	69.548	*
				3.9977	33.25642	60.50399	0.00000	0.0	0.0	0.073388	0.0	0.0	69.548	*
				4.4974	33.43103	60.97221	0.00000	0.0	0.0	0.078790	0.0	0.0	69.548	*
				4.9971	33.60565	61.44042	0.00000	0.0	0.0	0.084480	0.0	0.0	69.548	*
				5.4968	33.78026	61.90863	0.00000	0.0	0.0	0.090477	0.0	0.0	69.548	*
				5.9965	33.95488	62.37684	0.00000	0.0	0.0	0.096800	0.0	0.0	69.548	*
				6.4963	34.12949	62.84505	0.00000	0.0	0.0	0.10347	0.0	0.0	69.548	*
				6.9960	34.30411	63.31326	0.00000	0.0	0.0	0.11052	0.0	0.0	69.548	*
				7.4957	34.47872	63.78148	0.00000	0.0	0.0	0.11796	0.0	0.0	69.548	*
				7.9954	34.65334	64.24969	0.00000	0.0	0.0	0.12583	0.0	0.0	69.548	*
				8.4951	34.82795	64.71790	0.00000	0.0	0.0	0.13415	0.0	0.0	69.548	*
				8.9948	35.00256	65.18611	0.00000	0.0	0.0	0.14297	0.0	0.0	69.548	*
				9.4945	35.17718	65.65432	0.00000	0.0	0.0	0.15232	0.0	0.0	69.548	*
				9.9942	35.35179	66.12254	0.00000	0.0	0.0	0.16224	0.0	0.0	69.548	*
				10.494	35.52641	66.59075	0.00000	0.0	0.0	0.17277	0.0	0.0	69.548	*
				10.994	35.70102	67.05896	0.00000	0.0	0.0	0.18396	0.0	0.0	69.548	*
				11.493	35.87564	67.52717	0.00000	0.0	0.0	0.19587	0.0	0.0	69.548	*
				11.993	36.05025	67.99538	0.00000	0.0	0.0	0.20856	0.0	0.0	69.548	*
				12.493	36.22487	68.46359	0.00000	0.0	0.0	0.22209	0.0	0.0	69.548	*
				12.993	36.39948	68.93181	0.00000	0.0	0.0	0.23653	0.0	0.0	69.548	*
				13.492	36.57410	69.40002	0.00000	0.030898	0.057062	0.31857	0.064262	-0.0090109	69.548	*
				13.992	36.74871	69.86823	0.00000	0.089954	0.16613	0.45310	0.18709	-0.026234	69.548	*
				14.492	36.92333	70.33644	0.00000	0.14898	0.27427	0.58439	0.30904	-0.043750	69.548	*
				14.991	37.09794	70.80465	0.00000	0.20820	0.38160	0.71483	0.43030	-0.061731	69.548	*
				15.491	37.27256	71.27286	0.00000	0.26742	0.48786	0.84657	0.55056	-0.080091	69.548	*
				15.991	37.44717	71.74108	0.00000	0.32665	0.59297	0.98160	0.66973	-0.098862	69.548	*
				16.491	37.62179	72.20929	0.00000	0.38589	0.69681	1.1217	0.78773	-0.11808	69.548	*
				16.990	37.79640	72.67750	0.00000	0.44514	0.79928	1.2685	0.90444	-0.13779	69.548	*
		22	BS-16	0.0	37.79640	72.67750	0.00000	0.44514	0.79928	1.2685	0.89271	-0.20017	73.524	*
				0.49570	37.93699	73.15284	0.00000	0.50316	0.89586	1.4192	1.0018	-0.22842	73.524	*
				0.99139	38.07758	73.62818	0.00000	0.56117	0.99013	1.5784	1.1086	-0.25730	73.524	*
				1.4871	38.21817	74.10352	0.00000	0.63389	1.1072	1.7470	1.2415	-0.29384	73.524	*
				1.9828	38.35876	74.57886	0.00000	0.73335	1.2660	1.9256	1.4221	-0.34416	73.524	*
				2.4785	38.49935	75.05420	0.00000	0.83327	1.4206	2.1149	1.5986	-0.39613	73.524	*
				2.9742	38.63994	75.52954	0.00000	0.93381	1.5706	2.3150	1.7710	-0.44999	73.524	*
				3.4699	38.78053	76.00488	0.00000	1.0351	1.7157	2.5262	1.9389	-0.50602	73.524	*
				3.9656	38.92112	76.48022	0.00000	1.1374	1.8555	2.7484	2.1019	-0.56449	73.524	*
				4.4613	39.06171	76.95556	0.00000	1.2409	1.9893	2.9815	2.2596	-0.62574	73.524	*
				4.9570	39.20230	77.43090	0.00000	1.3457	2.1166	3.2252	2.4113	-0.69014	73.524	*
		23	BS-17	0.0	39.20230	77.43090	0.00000	1.3457	2.1166	3.2252	-0.54090	-2.4491	160.01	*
				0.40858	38.81835	77.57060	0.00000	1.3284	1.9933	3.1423	-0.56675	-2.3274	160.01	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				0.81715	38.43440	77.71030	0.00000	1.3076	1.8710	3.0554	-0.58907	-2.2053	160.01	*
		24	BS-18	0.0	38.43440	77.71030	0.00000	1.3076	1.8710	3.0554	2.1995	-0.61029	70.558	*
				0.49628	38.59959	78.17828	0.00000	1.4146	1.9775	3.2975	2.3356	-0.67578	70.558	*
				0.99256	38.76478	78.64626	0.00000	1.5233	2.0754	3.5487	2.4641	-0.74566	70.558	*
				1.4888	38.92996	79.11424	0.00000	1.6339	2.1636	3.8081	2.5841	-0.82053	70.558	*
				1.9851	39.09515	79.58222	0.00000	1.7464	2.2406	4.0750	2.6941	-0.90107	70.558	*
				2.4814	39.26034	80.05021	0.00000	1.8613	2.3046	4.3484	2.7927	-0.98806	70.558	*
				2.9777	39.42552	80.51819	0.00000	1.9786	2.3535	4.6272	2.8779	-1.0824	70.558	*
				3.4740	39.59071	80.98617	0.00000	2.0987	2.3850	4.9103	2.9476	-1.1852	70.558	*
				3.9702	39.75590	81.45415	0.00000	2.2218	2.3960	5.1963	2.9989	-1.2975	70.558	*
				4.4665	39.92109	81.92213	0.00000	2.3480	2.3831	5.4837	3.0287	-1.4210	70.558	*
				4.9628	40.08628	82.39011	0.00000	2.4778	2.3419	5.7707	3.0331	-1.5570	70.558	*
				5.4591	40.25146	82.85809	0.00000	2.6113	2.2676	6.0554	3.0075	-1.7076	70.558	*
				5.9554	40.41665	83.32608	0.00000	2.7486	2.1545	6.3359	2.9466	-1.8747	70.558	*
				6.4516	40.58184	83.79406	0.00000	2.8899	1.9960	6.6100	2.8441	-2.0608	70.558	*
				6.9479	40.74702	84.26204	0.00000	3.0353	1.7847	6.8764	2.6932	-2.2681	70.558	*
				7.4442	40.91221	84.73002	0.00000	3.1843	1.5128	7.1343	2.4864	-2.4992	70.558	*
				7.9405	41.07740	85.19800	0.00000	3.3366	1.1724	7.3841	2.2161	-2.7561	70.558	*
		25	SB-01	0.0	80.55960	128.61410	0.00000	0.0	0.0	-0.019602	0.0	0.0	59.725	*
				0.28479	80.70318	128.86005	0.00000	0.0	0.0	-0.020509	0.0	0.0	59.725	*
				0.56958	80.84675	129.10600	0.00000	0.0	0.0	-0.021391	0.0	0.0	59.725	*
				0.85437	80.99032	129.35195	0.00000	0.0	0.0	-0.022248	0.0	0.0	59.725	*
				1.1392	81.13390	129.59790	0.00000	0.0	0.0	-0.023079	0.0	0.0	59.725	*
		26	SB-02	0.0	81.13390	129.59790	0.00000	0.0	0.0	-0.023079	0.0	0.0	328.57	*
				0.46930	81.53432	129.35316	0.00000	0.0	0.0	-0.023097	0.0	0.0	328.57	*
				0.93860	81.93475	129.10841	0.00000	0.0	0.0	-0.023108	0.0	0.0	328.57	*
				1.4079	82.33517	128.86366	0.00000	0.0	0.0	-0.023111	0.0	0.0	328.57	*
				1.8772	82.73560	128.61892	0.00000	0.0	0.0	-0.023105	0.0	0.0	328.57	*
				2.3465	83.13602	128.37418	0.00000	0.0	0.0	-0.023089	0.0	0.0	328.57	*
				2.8158	83.53645	128.12943	0.00000	0.0	0.0	-0.023062	0.0	0.0	328.57	*
				3.2851	83.93688	127.88469	0.00000	0.0	0.0	-0.023023	0.0	0.0	328.57	*
				3.7544	84.33730	127.63994	0.00000	0.0	0.0	-0.022970	0.0	0.0	328.57	*
				4.2237	84.73772	127.39520	0.00000	0.0	0.0	-0.022903	0.0	0.0	328.57	*
				4.6930	85.13815	127.15045	0.00000	0.0	0.0	-0.022820	0.0	0.0	328.57	*
				5.1623	85.53857	126.90571	0.00000	0.0	0.0	-0.022719	0.0	0.0	328.57	*
				5.6316	85.93900	126.66096	0.00000	0.0	0.0	-0.022600	0.0	0.0	328.57	*
				6.1009	86.33942	126.41622	0.00000	0.0	0.0	-0.022461	0.0	0.0	328.57	*
				6.5702	86.73985	126.17147	0.00000	0.0	0.0	-0.022300	0.0	0.0	328.57	*
				7.0395	87.14028	125.92673	0.00000	0.0	0.0	-0.022117	0.0	0.0	328.57	*
				7.5088	87.54070	125.68198	0.00000	0.0	0.0	-0.021909	0.0	0.0	328.57	*
				7.9781	87.94112	125.43724	0.00000	0.0	0.0	-0.021675	0.0	0.0	328.57	*
				8.4474	88.34155	125.19249	0.00000	0.0	0.0	-0.021414	0.0	0.0	328.57	*
				8.9167	88.74197	124.94774	0.00000	0.0	0.0	-0.021124	0.0	0.0	328.57	*
				9.3860	89.14240	124.70300	0.00000	0.0	0.0	-0.020803	0.0	0.0	328.57	*
		27	SB-03	0.0	89.14240	124.70300	0.00000	0.0	0.0	-0.020803	0.0	0.0	237.36	*
				0.49874	88.87339	124.28303	0.00000	0.0	0.0	-0.019280	0.0	0.0	237.36	*
				0.99747	88.60438	123.86307	0.00000	0.0	0.0	-0.017692	0.0	0.0	237.36	*
				1.4962	88.33537	123.44310	0.00000	0.0	0.0	-0.016038	0.0	0.0	237.36	*
				1.9949	88.06636	123.02313	0.00000	0.0	0.0	-0.014313	0.0	0.0	237.36	*
				2.4937	87.79735	122.60316	0.00000	0.0	0.0	-0.012516	0.0	0.0	237.36	*
				2.9924	87.52834	122.18320	0.00000	0.0	0.0	-0.010644	0.0	0.0	237.36	*
				3.4912	87.25933	121.76323	0.00000	0.0	0.0	-0.0086926	0.0	0.0	237.36	*
				3.9899	86.99032	121.34326	0.00000	0.0	0.0	-0.0066594	0.0	0.0	237.36	*
				4.4886	86.72131	120.92329	0.00000	0.0	0.0	-0.0045408	0.0	0.0	237.36	*
				4.9874	86.45230	120.50333	0.00000	0.0	0.0	-0.0023331	0.0	0.0	237.36	*
				5.4861	86.18329	120.08336	0.00000	0.0	0.0	-32.620E-6	0.0	0.0	237.36	*
				5.9848	85.91428	119.66339	0.00000	0.0	0.0	0.0023647	0.0	0.0	237.36	*
				6.4836	85.64527	119.24343	0.00000	0.0	0.0	0.0048630	0.0	0.0	237.36	*
				6.9823	85.37626	118.82346	0.00000	0.0	0.0	0.0074667	0.0	0.0	237.36	*
				7.4811	85.10724	118.40349	0.00000	0.0	0.0	0.0101180	0.0	0.0	237.36	*
				7.9798	84.83823	117.98352	0.00000	0.0	0.0	0.013009	0.0	0.0	237.36	*
				8.4785	84.56922	117.56356	0.00000	0.0	0.0	0.015958	0.0	0.0	237.36	*
				8.9773	84.30021	117.14359	0.00000	0.0	0.0	0.019032	0.0	0.0	237.36	*
				9.4760	84.03120	116.72362	0.00000	0.0	0.0	0.022236	0.0	0.0	237.36	*
				9.9747	83.76219	116.30366	0.00000	0.0	0.0	0.025578	0.0	0.0	237.36	*
				10.473	83.49318	115.88369	0.00000	0.0	0.0	0.029063	0.0	0.0	237.36	*
				10.972	83.22417	115.46372	0.00000	0.0	0.0	0.032697	0.0	0.0	237.36	*
				11.471	82.95516	115.04375	0.00000	0.0	0.0	0.036488	0.0	0.0	237.36	*
				11.970	82.68615	114.62379	0.00000	0.0	0.0	0.040443	0.0	0.0	237.36	*
				12.468	82.41714	114.20382	0.00000	0.0	0.0	0.044568	0.0	0.0	237.36	*
				12.967	82.14813	113.78385	0.00000	0.0	0.0	0.048873	0.0	0.0	237.36	*
				13.466	81.87912	113.36388	0.00000	0.0	0.0	0.053366	0.0	0.0	237.36	*
				13.965	81.61011	112.94392	0.00000	0.0	0.0	0.058055	0.0	0.0	237.36	*
				14.463	81.34110	112.52395	0.00000	0.0	0.0	0.062949	0.0	0.0	237.36	*
				14.962	81.07209	112.10398	0.00000	0.0	0.0	0.068058	0.0	0.0	237.36	*
				15.461	80.80308	111.68402	0.00000	0.0	0.0	0.073392	0.0	0.0	237.36	*
				15.960	80.53407	111.26405	0.00000	0.0	0.0	0.078962	0.0	0.0	237.36	*
				16.458	80.26506	110.84408	0.00000	0.0	0.0	0.084779	0.0	0.0	237.36	*
				16.957	79.99605	110.42411	0.00000	0.0	0.0	0.090854	0.0	0.0	237.36	*
				17.456	79.72704	110.00415	0.00000	0.0	0.0	0.097199	0.0	0.0	237.36	*
				17.955	79.45803	109.58418	0.00000	0.0	0.0	0.10383	0.0	0.0	237.36	*
				18.453	79.18902	109.16421	0.00000	0.0	0.0	0.11075	0.0	0.0	237.36	*
				18.952	78.92001	108.74424	0.00000	0.0	0.0	0.11799	0.0	0.0	237.36	*
				19.451	78.65100	108.32428	0.00000	0.0	0.0	0.12554	0.0	0.0	237.36	*
				19.949	78.38199	107.90431	0.00000	-0.0084796	-0.0036184	0.14548	0.0076206	-0.0051886	237.36	*
				20.448	78.11298	107.48434	0.00000	-0.11608	-0.047684	0.25915	0.10276	-0.072024	237.36	*
				20.947	77.84397	107.06438	0.00000	-0.22556	-0.089012	0.36753	0.19662	-0.14193	237.36	*
				21.446	77.57496	106.64441	0.00000	-0.33702	-0.12746	0.47230	0.28911	-0.21505	237.36	*
				21.944	77.30594	106.22444	0.00000	-0.45054	-0.16287	0.57498	0.38016	-0.29153	237.36	*
				22.443	77.03693	105.80447	0.00000	-0.56618	-0.19509	0.67686	0.46967	-0.37153	237.36	*
				22.942	76.76792	105.38451	0.00000	-0.68404	-0.22395	0.77909	0.55754	-0.45520	237.36	*
				23.441	76.49891	104.96454	0.00000	-0.80418	-0.24929	0.88265	0.64368	-0.54271	237.36	*
				23.939	76.22990	104.54457	0.00000	-0.92670	-0.27091	0.98831	0.72797	-0.63421	237.36	*
				24.438	75.96089	104.12461	0.00000	-1.1175	-0.34524	1.1674	0.89347	-0.75479	237.36	*
				24.937	75.69188	103.70464	0.00000	-1.3667	-0.46355	1.3993	1.1275	-0.90083	237.36	*
				25.436	75.42287	103.28467	0.00000	-1.6183	-0.57756	1.6292	1.3592	-1.0512	237.36	*
				25.934	75.15386	102.86470	0.00000	-1.9026	-0.71432	1.8692	1.6277	-1.2168	237.36	*
				26.433	74.88485	102.44474	0.00000	-2.2049	-0.85186	2.1177	1.9066	-1.3972	237.36	*
				26.932	74.61584	102.02477	0.00000	-2.5594	-0.99846	2.3779	2.2213	-1.6166	237.36	*
				27.431	74.34683	101.60480	0.00000	-2.9184	-1.1426	2.6525	2.5362	-1.8411	237.36	*
				27.929	74.07782	101.18483	0.00000	-3.2001	-1.2646	2.9250	2.7910	-2.0126	237.36	*
				28.428	73.80881	100.76487	0.00000	-3.3946	-1.3621	3.2571	2.9780	-2.1238	237.36	*
				28.927	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.6153	3.1516	-2.2269	237.36	*
		28	SB-04	0.0	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.6153	2.2391	3.1430	147.58	*
				0.45074	73.15931	100.58655	0.00000	-3.9283	-1.6068	3.7987	2.4546	3.4624	147.58	*
				0.90147	72.77883	100.82820	0.00000	-4.2937	-1.7668	3.9961	2.6773	3.7934	147.58	*
				1.3522	72.39835	101.06985	0.00000	-4.6103	-1.9180	4.1880	2.8635	4.0907	147.58	*
				1.8029	72.01786	101.31150	0.00000	-4.8122	-2.0516	4.3479	2.9623	4.3118	147.58	*
				2.2537	71.63737	101.55315	0.00000	-4.9354	-2.1222	4.5245	3.0284	4.4374	147.58	*
				2.7044	71.25689	101.79480	0.00000	-5.0400	-2.1812	4.6971	3.0850	4.5433	147.58	*
				3.1552	70.87641	102.03645	0.00000	-5.1373	-2.2386	4.8675	3.1365	4.6439	147.58	*
				3.6059	70.49592	102.27810	0.00000	-5.2417	-2.3336	5.0508	3.1737	4.7801	147.58	*
				4.0566	70.11543	102.51975	0.00000	-5.3560	-2.4988	5.2567	3.1815	4.9808	147.58	*
				4.5074	69.73495	102.76140	0.00000	-3.6702	-1.1417	3.8195	2.4860	2.9314	147.58	*
				4.9581	69.35447	103.00305	0.00000	-3.6949	-1.2809	3.9656	2.4323	3.0622	147.58	*
				5.4088	68.97398	103.24470	0.00000	-3.7008	-1.4312	4.1043	2.3567	3.1922	147.58	*
				5.8596	68.59349	103.48635	0.00000	-3.6869	-1.5925	4.2345	2.2585	3.3209	147.58	*
				6.3103	68.21301	103.72800	0.00000	-3.6524	-1.7648	4.3552	2.1370	3.4479	147.58	*
				6.7611	67.83253	103.96965	0.00000	-3.5966	-1.9479	4.4653	1.9917	3.5725	147.58	*
				7.2118	67.45204	104.21130	0.00000	-3.5191	-2.1410	4.5639	1.8228	3.6940	147.58	*
				7.6625	67.07155	104.45295	0.00000	-3.4199	-2.3433	4.6504	1.6306	3.8116	147.58	*
				8.1133	66.69107	104.69460	0.00000	-3.3034	-2.5567	4.7272	1.4178	3.9292	147.58	*
				8.5640	66.31059	104.93625	0.00000	-3.2358	-2.8297	4.8442	1.2143	4.1235	147.58	*
				9.0147	65.93010	105.17790	0.00000	-3.1525	-3.1099	4.9517	0.99385	4.3154	147.58	*
		29	SB-05	0.0	65.93010	105.17790	0.00000	-3.1525	-3.1099	4.9517	-4.3145	0.99776	57.632	*
				0.47729	66.18562	105.58103	0.00000	-2.9647	-3.0122	4.6792	-4.1314	0.89148	57.632	*
				0.95459	66.44114	105.98417	0.00000	-2.7850	-2.9048	4.4064	-3.9444	0.79722	57.632	*
				1.4319	66.69667	106.38730	0.00000	-2.6124	-2.7894	4.1355	-3.7546	0.71317	57.632	*
				1.9092	66.95219	106.79044	0.00000	-2.4459	-2.6675	3.8681	-3.5625	0.63784	57.632	*
				2.3865	67.20771	107.19357	0.00000	-2.2849	-2.5400	3.6058	-3.3686	0.57004	57.632	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				2.8638	67.46323	107.59671	0.00000	-2.1285	-2.4079	3.3501	-3.1733	0.50874	57.632	*
				3.3411	67.71875	107.99984	0.00000	-1.9764	-2.2717	3.1021	-2.9768	0.45309	57.632	*
				3.8183	67.97428	108.40297	0.00000	-1.8278	-2.1321	2.8628	-2.7794	0.40240	57.632	*
				4.2956	68.22980	108.80611	0.00000	-1.6825	-1.9894	2.6332	-2.5811	0.35604	57.632	*
				4.7729	68.48532	109.20924	0.00000	-1.5400	-1.8440	2.4138	-2.3820	0.31351	57.632	*
				5.2502	68.74084	109.61238	0.00000	-1.3999	-1.6961	2.2052	-2.1821	0.27436	57.632	*
				5.7275	68.99636	110.01551	0.00000	-1.2619	-1.5459	2.0075	-1.9813	0.23822	57.632	*
				6.2048	69.25188	110.41865	0.00000	-1.1257	-1.3936	1.8208	-1.7797	0.20473	57.632	*
				6.6821	69.50741	110.82178	0.00000	-0.99094	-1.2391	1.6450	-1.5771	0.17363	57.632	*
				7.1594	69.76293	111.22492	0.00000	-0.85641	-1.0813	1.4796	-1.3718	0.14447	57.632	*
				7.6367	70.01845	111.62805	0.00000	-0.77305	-0.98380	1.3242	-1.2448	0.12625	57.632	*
				8.1140	70.27397	112.03118	0.00000	-0.69022	-0.88494	1.1779	-1.1170	0.10922	57.632	*
				8.5913	70.52949	112.43432	0.00000	-0.60788	-0.78483	1.0399	-0.98832	0.093265	57.632	*
				9.0686	70.78502	112.83745	0.00000	-0.52599	-0.68358	0.90883	-0.85896	0.078301	57.632	*
				9.5459	71.04054	113.24059	0.00000	-0.44451	-0.58129	0.78343	-0.72895	0.064245	57.632	*
				10.023	71.29606	113.64372	0.00000	-0.36341	-0.47804	0.66207	-0.59832	0.051026	57.632	*
				10.500	71.55158	114.04686	0.00000	-0.28267	-0.37389	0.54295	-0.46713	0.038579	57.632	*
				10.978	71.80710	114.44999	0.00000	-0.20224	-0.26893	0.42406	-0.33542	0.026846	57.632	*
				11.455	72.06262	114.85312	0.00000	-0.12212	-0.16320	0.30317	-0.20323	0.015775	57.632	*
				11.932	72.31815	115.25626	0.00000	-0.042280	-0.056772	0.17787	-0.070586	0.0053172	57.632	*
				12.410	72.57367	115.65939	0.00000	0.0	0.0	0.10153	0.0	0.0	57.632	*
				12.887	72.82919	116.06253	0.00000	0.0	0.0	0.093887	0.0	0.0	57.632	*
				13.364	73.08471	116.46566	0.00000	0.0	0.0	0.086660	0.0	0.0	57.632	*
				13.842	73.34023	116.86880	0.00000	0.0	0.0	0.079822	0.0	0.0	57.632	*
				14.319	73.59576	117.27193	0.00000	0.0	0.0	0.073351	0.0	0.0	57.632	*
				14.796	73.85128	117.67507	0.00000	0.0	0.0	0.067223	0.0	0.0	57.632	*
				15.273	74.10680	118.07820	0.00000	0.0	0.0	0.061418	0.0	0.0	57.632	*
		30	SB-06	0.0	74.10680	118.07820	0.00000	0.0	0.0	0.061418	0.0	0.0	153.77	*
				0.43543	73.71623	118.27067	0.00000	0.0	0.0	0.062310	0.0	0.0	153.77	*
				0.87085	73.32565	118.46315	0.00000	0.0	0.0	0.063187	0.0	0.0	153.77	*
				1.3063	72.93508	118.65563	0.00000	0.0	0.0	0.064045	0.0	0.0	153.77	*
				1.7417	72.54450	118.84810	0.00000	0.0	0.0	0.064880	0.0	0.0	153.77	*
				2.1771	72.15393	119.04057	0.00000	0.0	0.0	0.065688	0.0	0.0	153.77	*
				2.6126	71.76335	119.23305	0.00000	0.0	0.0	0.066465	0.0	0.0	153.77	*
				3.0480	71.37278	119.42552	0.00000	0.0	0.0	0.067208	0.0	0.0	153.77	*
				3.4834	70.98220	119.61800	0.00000	0.0	0.0	0.067911	0.0	0.0	153.77	*
		31	SB-07	0.0	70.98220	119.61800	0.00000	0.0	0.0	0.067911	0.0	0.0	246.79	*
				0.37898	70.83282	119.26970	0.00000	0.0	0.0	0.072864	0.0	0.0	246.79	*
				0.75796	70.68345	118.92140	0.00000	0.0	0.0	0.078039	0.0	0.0	246.79	*
				1.1369	70.53408	118.57310	0.00000	0.0	0.0	0.083449	0.0	0.0	246.79	*
				1.5159	70.38470	118.22480	0.00000	0.0	0.0	0.089106	0.0	0.0	246.79	*
		32	SB-08	0.0	70.38470	118.22480	0.00000	0.0	0.0	0.089106	0.0	0.0	152.17	*
				0.49123	69.95028	118.45410	0.00000	0.0	0.0	0.089897	0.0	0.0	152.17	*
				0.98245	69.51585	118.68340	0.00000	0.0	0.0	0.090607	0.0	0.0	152.17	*
				1.4737	69.08143	118.91271	0.00000	0.0	0.0	0.091230	0.0	0.0	152.17	*
				1.9649	68.64701	119.14201	0.00000	0.0	0.0	0.091761	0.0	0.0	152.17	*
				2.4561	68.21258	119.37131	0.00000	0.0	0.0	0.092194	0.0	0.0	152.17	*
				2.9474	67.77816	119.60061	0.00000	0.0	0.0	0.092526	0.0	0.0	152.17	*
				3.4386	67.34374	119.82991	0.00000	0.0	0.0	0.092751	0.0	0.0	152.17	*
				3.9298	66.90931	120.05921	0.00000	0.0	0.0	0.092866	0.0	0.0	152.17	*
				4.4210	66.47489	120.28852	0.00000	0.0	0.0	0.092869	0.0	0.0	152.17	*
				4.9123	66.04047	120.51782	0.00000	0.0	0.0	0.092757	0.0	0.0	152.17	*
				5.4035	65.60604	120.74712	0.00000	0.0	0.0	0.092528	0.0	0.0	152.17	*
				5.8947	65.17162	120.97642	0.00000	0.0	0.0	0.092181	0.0	0.0	152.17	*
				6.3859	64.73720	121.20572	0.00000	0.0	0.0	0.091716	0.0	0.0	152.17	*
				6.8772	64.30277	121.43502	0.00000	0.0	0.0	0.091133	0.0	0.0	152.17	*
				7.3684	63.86835	121.66433	0.00000	0.0	0.0	0.090434	0.0	0.0	152.17	*
				7.8596	63.43393	121.89363	0.00000	0.0	0.0	0.089619	0.0	0.0	152.17	*
				8.3508	62.99950	122.12293	0.00000	0.0	0.0	0.088692	0.0	0.0	152.17	*
				8.8421	62.56508	122.35223	0.00000	0.0	0.0	0.087654	0.0	0.0	152.17	*
				9.3333	62.13066	122.58153	0.00000	0.0	0.0	0.086509	0.0	0.0	152.17	*
				9.8245	61.69623	122.81083	0.00000	0.0	0.0	0.085262	0.0	0.0	152.17	*
				10.316	61.26181	123.04014	0.00000	0.0	0.0	0.083915	0.0	0.0	152.17	*
				10.807	60.82739	123.26944	0.00000	0.0	0.0	0.082475	0.0	0.0	152.17	*
				11.298	60.39296	123.49874	0.00000	0.0	0.0	0.080946	0.0	0.0	152.17	*
				11.789	59.95854	123.72804	0.00000	0.0	0.0	0.079334	0.0	0.0	152.17	*
				12.281	59.52412	123.95734	0.00000	0.0	0.0	0.077644	0.0	0.0	152.17	*
				12.772	59.08969	124.18664	0.00000	0.0	0.0	0.075882	0.0	0.0	152.17	*
				13.263	58.65527	124.41595	0.00000	0.0	0.0	0.074054	0.0	0.0	152.17	*
				13.754	58.22085	124.64525	0.00000	0.0	0.0	0.072166	0.0	0.0	152.17	*
				14.246	57.78642	124.87455	0.00000	0.0	0.0	0.070225	0.0	0.0	152.17	*
				14.737	57.35200	125.10385	0.00000	0.0	0.0	0.068237	0.0	0.0	152.17	*
				15.228	56.91758	125.33315	0.00000	0.0	0.0	0.066207	0.0	0.0	152.17	*
				15.719	56.48315	125.56245	0.00000	0.0	0.0	0.064141	0.0	0.0	152.17	*
				16.210	56.04873	125.79175	0.00000	0.0	0.0	0.062046	0.0	0.0	152.17	*
				16.702	55.61431	126.02106	0.00000	0.0	0.0	0.059928	0.0	0.0	152.17	*
				17.193	55.17988	126.25036	0.00000	0.0	0.0	0.057791	0.0	0.0	152.17	*
				17.684	54.74546	126.47966	0.00000	0.0	0.0	0.055642	0.0	0.0	152.17	*
				18.175	54.31104	126.70896	0.00000	0.0	0.0	0.053485	0.0	0.0	152.17	*
				18.667	53.87661	126.93826	0.00000	0.0	0.0	0.051325	0.0	0.0	152.17	*
				19.158	53.44219	127.16756	0.00000	0.0	0.0	0.049167	0.0	0.0	152.17	*
				19.649	53.00777	127.39687	0.00000	0.0	0.0	0.047016	0.0	0.0	152.17	*
				20.140	52.57334	127.62617	0.00000	0.0	0.0	0.044874	0.0	0.0	152.17	*
				20.631	52.13892	127.85547	0.00000	0.0	0.0	0.042747	0.0	0.0	152.17	*
				21.123	51.70450	128.08477	0.00000	0.0	0.0	0.040638	0.0	0.0	152.17	*
				21.614	51.27007	128.31407	0.00000	0.0	0.0	0.038550	0.0	0.0	152.17	*
				22.105	50.83565	128.54337	0.00000	0.0	0.0	0.036486	0.0	0.0	152.17	*
				22.596	50.40123	128.77268	0.00000	0.0	0.0	0.034448	0.0	0.0	152.17	*
				23.088	49.96680	129.00198	0.00000	0.0	0.0	0.032440	0.0	0.0	152.17	*
				23.579	49.53238	129.23128	0.00000	0.0	0.0	0.030464	0.0	0.0	152.17	*
				24.070	49.09796	129.46058	0.00000	0.0	0.0	0.028521	0.0	0.0	152.17	*
				24.561	48.66353	129.68988	0.00000	0.0	0.0	0.026614	0.0	0.0	152.17	*
				25.053	48.22911	129.91918	0.00000	0.0	0.0	0.024743	0.0	0.0	152.17	*
				25.544	47.79469	130.14849	0.00000	0.0	0.0	0.022911	0.0	0.0	152.17	*
				26.035	47.36026	130.37779	0.00000	0.0	0.0	0.021118	0.0	0.0	152.17	*
				26.526	46.92584	130.60709	0.00000	0.0	0.0	0.019366	0.0	0.0	152.17	*
				27.017	46.49142	130.83639	0.00000	0.0	0.0	0.017655	0.0	0.0	152.17	*
				27.509	46.05699	131.06569	0.00000	0.0	0.0	0.015986	0.0	0.0	152.17	*
				28.000	45.62257	131.29500	0.00000	0.0	0.0	0.014360	0.0	0.0	152.17	*
				28.491	45.18815	131.52430	0.00000	0.0	0.0	0.012776	0.0	0.0	152.17	*
				28.982	44.75372	131.75360	0.00000	0.0	0.0	0.011235	0.0	0.0	152.17	*
				29.474	44.31930	131.98290	0.00000	0.0	0.0	0.0097376	0.0	0.0	152.17	*
		33	SB-09	0.0	44.31930	131.98290	0.00000	0.0	0.0	0.0097376	0.0	0.0	62.495	*
				0.49663	44.54866	132.42340	0.00000	0.0	0.0	0.0078123	0.0	0.0	62.495	*
				0.99327	44.77801	132.86390	0.00000	0.0	0.0	0.0059557	0.0	0.0	62.495	*
				1.4899	45.00737	133.30440	0.00000	0.0	0.0	0.0041663	0.0	0.0	62.495	*
				1.9865	45.23672	133.74490	0.00000	0.0	0.0	0.0024423	0.0	0.0	62.495	*
				2.4832	45.46608	134.18540	0.00000	0.0	0.0	782.12E-6	0.0	0.0	62.495	*
				2.9798	45.69544	134.62590	0.00000	0.0	0.0	-815.79E-6	0.0	0.0	62.495	*
				3.4764	45.92479	135.06640	0.00000	0.0	0.0	-0.0023531	0.0	0.0	62.495	*
				3.9731	46.15415	135.50690	0.00000	0.0	0.0	-0.0038315	0.0	0.0	62.495	*
				4.4697	46.38351	135.94740	0.00000	0.0	0.0	-0.0052527	0.0	0.0	62.495	*
				4.9663	46.61286	136.38790	0.00000	0.0	0.0	-0.0066182	0.0	0.0	62.495	*
				5.4630	46.84222	136.82840	0.00000	0.0	0.0	-0.0079297	0.0	0.0	62.495	*
				5.9596	47.07158	137.26890	0.00000	0.0	0.0	-0.0091888	0.0	0.0	62.495	*
				6.4562	47.30093	137.70940	0.00000	0.0	0.0	-0.010397	0.0	0.0	62.495	*
				6.9529	47.53029	138.14990	0.00000	0.0	0.0	-0.011556	0.0	0.0	62.495	*
				7.4495	47.75964	138.59040	0.00000	0.0	0.0	-0.012667	0.0	0.0	62.495	*
				7.9461	47.98900	139.03090	0.00000	0.0	0.0	-0.013733	0.0	0.0	62.495	*
				8.4428	48.21836	139.47140	0.00000	0.0	0.0	-0.014753	0.0	0.0	62.495	*
				8.9394	48.44771	139.91190	0.00000	0.0	0.0	-0.015730	0.0	0.0	62.495	*
				9.4360	48.67707	140.35240	0.00000	0.0	0.0	-0.016665	0.0	0.0	62.495	*
				9.9327	48.90642	140.79290	0.00000	0.0	0.0	-0.017560	0.0	0.0	62.495	*
				10.429	49.13578	141.23340	0.00000	0.0	0.0	-0.018416	0.0	0.0	62.495	*
				10.926	49.36514	141.67390	0.00000	0.0	0.0	-0.019234	0.0	0.0	62.495	*
				11.423	49.59449	142.11440	0.00000	0.0	0.0	-0.020016	0.0	0.0	62.495	*
				11.919	49.82385	142.55490	0.00000	0.0	0.0	-0.020762	0.0	0.0	62.495	*
				12.416	50.05321	142.99540	0.00000	0.0	0.0	-0.021475	0.0	0.0	62.495	*
				12.912	50.28256	143.43590	0.00000	0.0	0.0	-0.022155	0.0	0.0	62.495	*
				13.409	50.51192	143.87640	0.00000	0.0	0.0	-0.022803	0.0	0.0	62.495	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				13.906	50.74128	144.31690	0.00000	0.0	0.0	-0.023420	0.0	0.0	62.495	*
				14.402	50.97063	144.75740	0.00000	0.0	0.0	-0.024008	0.0	0.0	62.495	*
				14.899	51.19999	145.19790	0.00000	0.0	0.0	-0.024568	0.0	0.0	62.495	*
				15.396	51.42934	145.63840	0.00000	0.0	0.0	-0.025101	0.0	0.0	62.495	*
				15.892	51.65870	146.07890	0.00000	0.0	0.0	-0.025607	0.0	0.0	62.495	*
		34	SB-10	0.0	51.65870	146.07890	0.00000	0.0	0.0	-0.025607	0.0	0.0	329.52	*
				0.46146	52.05637	145.84480	0.00000	0.0	0.0	-0.025500	0.0	0.0	329.52	*
				0.92292	52.45404	145.61070	0.00000	0.0	0.0	-0.025390	0.0	0.0	329.52	*
				1.3844	52.85171	145.37660	0.00000	0.0	0.0	-0.025276	0.0	0.0	329.52	*
				1.8458	53.24938	145.14250	0.00000	0.0	0.0	-0.025158	0.0	0.0	329.52	*
				2.3073	53.64705	144.90840	0.00000	0.0	0.0	-0.025037	0.0	0.0	329.52	*
				2.7688	54.04472	144.67430	0.00000	0.0	0.0	-0.024913	0.0	0.0	329.52	*
				3.2302	54.44239	144.44020	0.00000	0.0	0.0	-0.024786	0.0	0.0	329.52	*
				3.6917	54.84006	144.20610	0.00000	0.0	0.0	-0.024656	0.0	0.0	329.52	*
				4.1531	55.23773	143.97200	0.00000	0.0	0.0	-0.024523	0.0	0.0	329.52	*
				4.6146	55.63540	143.73790	0.00000	0.0	0.0	-0.024387	0.0	0.0	329.52	*
				5.0760	56.03307	143.50380	0.00000	0.0	0.0	-0.024250	0.0	0.0	329.52	*
				5.5375	56.43074	143.26970	0.00000	0.0	0.0	-0.024110	0.0	0.0	329.52	*
				5.9990	56.82841	143.03560	0.00000	0.0	0.0	-0.023968	0.0	0.0	329.52	*
				6.4604	57.22608	142.80150	0.00000	0.0	0.0	-0.023825	0.0	0.0	329.52	*
				6.9219	57.62375	142.56740	0.00000	0.0	0.0	-0.023680	0.0	0.0	329.52	*
				7.3833	58.02142	142.33330	0.00000	0.0	0.0	-0.023534	0.0	0.0	329.52	*
				7.8448	58.41909	142.09920	0.00000	0.0	0.0	-0.023387	0.0	0.0	329.52	*
				8.3063	58.81676	141.86510	0.00000	0.0	0.0	-0.023239	0.0	0.0	329.52	*
				8.7677	59.21443	141.63100	0.00000	0.0	0.0	-0.023092	0.0	0.0	329.52	*
				9.2292	59.61210	141.39690	0.00000	0.0	0.0	-0.022944	0.0	0.0	329.52	*
		35	SB-11	0.0	59.61210	141.39690	0.00000	0.0	0.0	-0.022944	0.0	0.0	332.55	*
				0.48552	60.04295	141.17306	0.00000	0.0	0.0	-0.022835	0.0	0.0	332.55	*
				0.97105	60.47379	140.94923	0.00000	0.0	0.0	-0.022729	0.0	0.0	332.55	*
				1.4566	60.90464	140.72539	0.00000	0.0	0.0	-0.022626	0.0	0.0	332.55	*
				1.9421	61.33549	140.50155	0.00000	0.0	0.0	-0.022527	0.0	0.0	332.55	*
				2.4276	61.76634	140.27772	0.00000	0.0	0.0	-0.022431	0.0	0.0	332.55	*
				2.9131	62.19718	140.05388	0.00000	0.0	0.0	-0.022340	0.0	0.0	332.55	*
				3.3987	62.62803	139.83004	0.00000	0.0	0.0	-0.022253	0.0	0.0	332.55	*
				3.8842	63.05888	139.60621	0.00000	0.0	0.0	-0.022172	0.0	0.0	332.55	*
				4.3697	63.48973	139.38237	0.00000	0.0	0.0	-0.022095	0.0	0.0	332.55	*
				4.8552	63.92057	139.15853	0.00000	0.0	0.0	-0.022024	0.0	0.0	332.55	*
				5.3408	64.35142	138.93469	0.00000	0.0	0.0	-0.021959	0.0	0.0	332.55	*
				5.8263	64.78227	138.71086	0.00000	0.0	0.0	-0.021900	0.0	0.0	332.55	*
				6.3118	65.21312	138.48702	0.00000	0.0	0.0	-0.021847	0.0	0.0	332.55	*
				6.7973	65.64396	138.26318	0.00000	0.0	0.0	-0.021801	0.0	0.0	332.55	*
				7.2828	66.07481	138.03935	0.00000	0.0	0.0	-0.021763	0.0	0.0	332.55	*
				7.7684	66.50566	137.81551	0.00000	0.0	0.0	-0.021731	0.0	0.0	332.55	*
				8.2539	66.93651	137.59167	0.00000	0.0	0.0	-0.021706	0.0	0.0	332.55	*
				8.7394	67.36735	137.36784	0.00000	0.0	0.0	-0.021690	0.0	0.0	332.55	*
				9.2249	67.79820	137.14400	0.00000	0.0	0.0	-0.021681	0.0	0.0	332.55	*
				9.7105	68.22905	136.92016	0.00000	0.0	0.0	-0.021679	0.0	0.0	332.55	*
				10.196	68.65989	136.69633	0.00000	0.0	0.0	-0.021686	0.0	0.0	332.55	*
				10.682	69.09074	136.47249	0.00000	0.0	0.0	-0.021701	0.0	0.0	332.55	*
				11.167	69.52159	136.24865	0.00000	0.0	0.0	-0.021724	0.0	0.0	332.55	*
				11.653	69.95244	136.02482	0.00000	0.0	0.0	-0.021755	0.0	0.0	332.55	*
				12.138	70.38328	135.80098	0.00000	0.0	0.0	-0.021794	0.0	0.0	332.55	*
				12.624	70.81413	135.57714	0.00000	0.0	0.0	-0.021841	0.0	0.0	332.55	*
				13.109	71.24498	135.35331	0.00000	0.0	0.0	-0.021896	0.0	0.0	332.55	*
				13.595	71.67583	135.12947	0.00000	0.0	0.0	-0.021958	0.0	0.0	332.55	*
				14.080	72.10667	134.90563	0.00000	0.0	0.0	-0.022028	0.0	0.0	332.55	*
				14.566	72.53752	134.68179	0.00000	0.0	0.0	-0.022106	0.0	0.0	332.55	*
				15.051	72.96837	134.45796	0.00000	0.0	0.0	-0.022191	0.0	0.0	332.55	*
				15.537	73.39922	134.23412	0.00000	0.0	0.0	-0.022283	0.0	0.0	332.55	*
				16.022	73.83006	134.01028	0.00000	0.0	0.0	-0.022381	0.0	0.0	332.55	*
				16.508	74.26091	133.78645	0.00000	0.0	0.0	-0.022485	0.0	0.0	332.55	*
				16.993	74.69176	133.56261	0.00000	0.0	0.0	-0.022595	0.0	0.0	332.55	*
				17.479	75.12261	133.33877	0.00000	0.0	0.0	-0.022711	0.0	0.0	332.55	*
				17.964	75.55345	133.11494	0.00000	0.0	0.0	-0.022831	0.0	0.0	332.55	*
				18.450	75.98430	132.89110	0.00000	0.0	0.0	-0.022956	0.0	0.0	332.55	*
		36	SB-12	0.0	75.98430	132.89110	0.00000	0.0	0.0	-0.022956	0.0	0.0	323.82	*
				0.28634	76.21543	132.72207	0.00000	0.0	0.0	-0.022911	0.0	0.0	323.82	*
				0.57267	76.44655	132.55305	0.00000	0.0	0.0	-0.022867	0.0	0.0	323.82	*
				0.85901	76.67767	132.38403	0.00000	0.0	0.0	-0.022823	0.0	0.0	323.82	*
				1.1453	76.90880	132.21500	0.00000	0.0	0.0	-0.022780	0.0	0.0	323.82	*
		37	SB-13	0.0	76.90880	132.21500	0.00000	0.0	0.0	-0.022780	0.0	0.0	243.16	*
				0.31767	76.76538	131.93155	0.00000	0.0	0.0	-0.021879	0.0	0.0	243.16	*
				0.63534	76.62195	131.64810	0.00000	0.0	0.0	-0.020946	0.0	0.0	243.16	*
				0.95301	76.47852	131.36465	0.00000	0.0	0.0	-0.019981	0.0	0.0	243.16	*
				1.2707	76.33510	131.08120	0.00000	0.0	0.0	-0.018981	0.0	0.0	243.16	*
		38	SB-14	0.0	76.33510	131.08120	0.00000	0.0	0.0	-0.018981	0.0	0.0	329.72	*
				0.48921	76.75755	130.83449	0.00000	0.0	0.0	-0.019040	0.0	0.0	329.72	*
				0.97843	77.18000	130.58778	0.00000	0.0	0.0	-0.019103	0.0	0.0	329.72	*
				1.4676	77.60245	130.34107	0.00000	0.0	0.0	-0.019167	0.0	0.0	329.72	*
				1.9569	78.02490	130.09436	0.00000	0.0	0.0	-0.019233	0.0	0.0	329.72	*
				2.4461	78.44735	129.84765	0.00000	0.0	0.0	-0.019299	0.0	0.0	329.72	*
				2.9353	78.86980	129.60094	0.00000	0.0	0.0	-0.019364	0.0	0.0	329.72	*
				3.4245	79.29225	129.35423	0.00000	0.0	0.0	-0.019429	0.0	0.0	329.72	*
				3.9137	79.71470	129.10752	0.00000	0.0	0.0	-0.019490	0.0	0.0	329.72	*
				4.4029	80.13715	128.86081	0.00000	0.0	0.0	-0.019548	0.0	0.0	329.72	*
				4.8921	80.55960	128.61410	0.00000	0.0	0.0	-0.019602	0.0	0.0	329.72	*
		39	HL-01	0.0	50.98220	128.46600	0.00000	0.0	0.0	0.037179	0.0	0.0	242.88	*
				0.48226	50.76237	128.03676	0.00000	0.0	0.0	0.040901	0.0	0.0	242.88	*
				0.96452	50.54254	127.60752	0.00000	0.0	0.0	0.044794	0.0	0.0	242.88	*
				1.4468	50.32271	127.17828	0.00000	0.0	0.0	0.048866	0.0	0.0	242.88	*
				1.9290	50.10287	126.74904	0.00000	0.0	0.0	0.053123	0.0	0.0	242.88	*
				2.4113	49.88304	126.31980	0.00000	0.0	0.0	0.057575	0.0	0.0	242.88	*
				2.8936	49.66321	125.89056	0.00000	0.0	0.0	0.062227	0.0	0.0	242.88	*
				3.3758	49.44338	125.46132	0.00000	0.0	0.0	0.067089	0.0	0.0	242.88	*
				3.8581	49.22355	125.03208	0.00000	0.0	0.0	0.072168	0.0	0.0	242.88	*
				4.3403	49.00372	124.60283	0.00000	0.0	0.0	0.077473	0.0	0.0	242.88	*
				4.8226	48.78389	124.17359	0.00000	0.0	0.0	0.083012	0.0	0.0	242.88	*
				5.3048	48.56406	123.74435	0.00000	0.0	0.0	0.088793	0.0	0.0	242.88	*
				5.7871	48.34423	123.31511	0.00000	0.0	0.0	0.094824	0.0	0.0	242.88	*
				6.2694	48.12439	122.88587	0.00000	0.0	0.0	0.10112	0.0	0.0	242.88	*
				6.7516	47.90456	122.45663	0.00000	0.0	0.0	0.10767	0.0	0.0	242.88	*
				7.2339	47.68473	122.02739	0.00000	0.0	0.0	0.11451	0.0	0.0	242.88	*
				7.7161	47.46490	121.59815	0.00000	0.0	0.0	0.12162	0.0	0.0	242.88	*
				8.1984	47.24507	121.16891	0.00000	0.010229	-0.022170	0.17313	0.015069	0.019210	242.88	*
				8.6807	47.02524	120.73967	0.00000	0.030707	-0.061861	0.25439	0.041063	0.055530	242.88	*
				9.1629	46.80541	120.31043	0.00000	0.053559	-0.100556	0.33275	0.065093	0.093512	242.88	*
				9.6452	46.58557	119.88119	0.00000	0.078803	-0.13823	0.40867	0.087114	0.13315	242.88	*
				10.127	46.36574	119.45195	0.00000	0.10644	-0.17482	0.48253	0.10708	0.17443	242.88	*
				10.610	46.14591	119.02271	0.00000	0.13648	-0.21028	0.55466	0.12495	0.21733	242.88	*
				11.092	45.92608	118.59347	0.00000	0.16889	-0.24457	0.62530	0.14070	0.26181	242.88	*
				11.574	45.70625	118.16423	0.00000	0.20364	-0.27764	0.69464	0.15428	0.30781	242.88	*
				12.056	45.48642	117.73498	0.00000	0.24070	-0.30943	0.76280	0.16569	0.35528	242.88	*
				12.539	45.26659	117.30574	0.00000	0.27998	-0.33989	0.82985	0.17490	0.40414	242.88	*
				13.021	45.04676	116.87650	0.00000	0.32141	-0.36899	0.89581	0.18191	0.45427	242.88	*
				13.503	44.82693	116.44726	0.00000	0.36488	-0.39665	0.96063	0.18672	0.50558	242.88	*
				13.985	44.60709	116.01802	0.00000	0.41026	-0.42284	1.0242	0.18934	0.55791	242.88	*
				14.468	44.38726	115.58878	0.00000	0.45740	-0.44751	1.0865	0.18981	0.61110	242.88	*
				14.950	44.16743	115.15954	0.00000	0.50611	-0.47060	1.1472	0.18816	0.66498	242.88	*
				15.432	43.94760	114.73030	0.00000	0.55618	-0.49207	1.2062	0.18444	0.71934	242.88	*
		40	HL-02	0.0	43.94760	114.73030	0.00000	0.55618	-0.49207	1.2062	-0.72310	0.16913	151.66	*
				0.46776	43.53589	114.95231	0.00000	0.50319	-0.43763	1.0824	-0.65061	0.14637	151.66	*
				0.93551	43.12418	115.17432	0.00000	0.44759	-0.38310	0.96294	-0.57579	0.12476	151.66	*
				1.4033	42.71246	115.39634	0.00000	0.38956	-0.32850	0.84718	-0.49880	0.10424	151.66	*
				1.8710	42.30075	115.61835	0.00000	0.32930	-0.27381	0.73416	-0.41980	0.084709	151.66	*
				2.3388	41.88904	115.84036	0.00000	0.26694	-0.21906	0.62280	-0.33893	0.066113	151.66	*
				2.8065	41.47733	116.06238	0.00000	0.20263	-0.16424	0.51189	-0.25631	0.048383	151.66	*
				3.2743	41.06561	116.28439	0.00000	0.13651	-0.10936	0.40003	-0.17206	0.031464	151.66	*
				3.7421	40.65390	116.50640	0.00000	0.068694	-0.054427	0.28571	-0.086296	0.015301	151.66	*
				4.2098	40.24219	116.72841	0.00000	0.0	0.0	0.16573	0.0	0.0	151.66	*
				4.6776	39.83047	116.95042	0.00000	0.0	0.0	0.15627	0.0	0.0	151.66	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.1453	39.41876	117.17244	0.00000	0.0	0.0	0.14730	0.0	0.0	151.66	*
				5.6131	39.00705	117.39445	0.00000	0.0	0.0	0.13877	0.0	0.0	151.66	*
				6.0808	38.59534	117.61646	0.00000	0.0	0.0	0.13067	0.0	0.0	151.66	*
				6.5486	38.18362	117.83848	0.00000	0.0	0.0	0.12298	0.0	0.0	151.66	*
				7.0164	37.77191	118.06049	0.00000	0.0	0.0	0.11566	0.0	0.0	151.66	*
				7.4841	37.36020	118.28250	0.00000	0.0	0.0	0.10871	0.0	0.0	151.66	*
		41	HL-03	0.0	37.36020	118.28250	0.00000	0.0	0.0	0.10871	0.0	0.0	63.072	*
				0.48020	37.57767	118.71064	0.00000	0.0	0.0	0.10462	0.0	0.0	63.072	*
				0.96041	37.79514	119.13877	0.00000	0.0	0.0	0.10057	0.0	0.0	63.072	*
				1.4406	38.01262	119.56691	0.00000	0.0	0.0	0.096548	0.0	0.0	63.072	*
				1.9208	38.23009	119.99505	0.00000	0.0	0.0	0.092575	0.0	0.0	63.072	*
				2.4010	38.44756	120.42319	0.00000	0.0	0.0	0.088650	0.0	0.0	63.072	*
				2.8812	38.66503	120.85133	0.00000	0.0	0.0	0.084780	0.0	0.0	63.072	*
				3.3614	38.88250	121.27946	0.00000	0.0	0.0	0.080967	0.0	0.0	63.072	*
				3.8416	39.09998	121.70760	0.00000	0.0	0.0	0.077216	0.0	0.0	63.072	*
				4.3218	39.31745	122.13574	0.00000	0.0	0.0	0.073529	0.0	0.0	63.072	*
				4.8020	39.53492	122.56387	0.00000	0.0	0.0	0.069911	0.0	0.0	63.072	*
				5.2822	39.75239	122.99201	0.00000	0.0	0.0	0.066363	0.0	0.0	63.072	*
				5.7624	39.96986	123.42015	0.00000	0.0	0.0	0.062889	0.0	0.0	63.072	*
				6.2427	40.18733	123.84829	0.00000	0.0	0.0	0.059489	0.0	0.0	63.072	*
				6.7229	40.40481	124.27643	0.00000	0.0	0.0	0.056166	0.0	0.0	63.072	*
				7.2031	40.62228	124.70456	0.00000	0.0	0.0	0.052920	0.0	0.0	63.072	*
				7.6833	40.83975	125.13270	0.00000	0.0	0.0	0.049753	0.0	0.0	63.072	*
				8.1635	41.05722	125.56084	0.00000	0.0	0.0	0.046666	0.0	0.0	63.072	*
				8.6437	41.27469	125.98897	0.00000	0.0	0.0	0.043658	0.0	0.0	63.072	*
				9.1239	41.49217	126.41711	0.00000	0.0	0.0	0.040731	0.0	0.0	63.072	*
				9.6041	41.70964	126.84525	0.00000	0.0	0.0	0.037884	0.0	0.0	63.072	*
				10.084	41.92711	127.27339	0.00000	0.0	0.0	0.035116	0.0	0.0	63.072	*
				10.564	42.14458	127.70153	0.00000	0.0	0.0	0.032428	0.0	0.0	63.072	*
				11.045	42.36205	128.12966	0.00000	0.0	0.0	0.029819	0.0	0.0	63.072	*
				11.525	42.57952	128.55780	0.00000	0.0	0.0	0.027289	0.0	0.0	63.072	*
				12.005	42.79700	128.98594	0.00000	0.0	0.0	0.024836	0.0	0.0	63.072	*
				12.485	43.01447	129.41407	0.00000	0.0	0.0	0.022459	0.0	0.0	63.072	*
				12.966	43.23194	129.84221	0.00000	0.0	0.0	0.020157	0.0	0.0	63.072	*
				13.446	43.44941	130.27035	0.00000	0.0	0.0	0.017930	0.0	0.0	63.072	*
				13.926	43.66688	130.69849	0.00000	0.0	0.0	0.015776	0.0	0.0	63.072	*
				14.406	43.88436	131.12662	0.00000	0.0	0.0	0.013694	0.0	0.0	63.072	*
				14.886	44.10183	131.55476	0.00000	0.0	0.0	0.011681	0.0	0.0	63.072	*
				15.367	44.31930	131.98290	0.00000	0.0	0.0	0.0097376	0.0	0.0	63.072	*
		42	CH-01	0.0	43.98880	114.70780	0.00000	0.56138	-0.49754	1.2189	0.72956	-0.17445	331.90	*
				0.48967	44.42074	114.47714	0.00000	0.61330	-0.55433	1.3543	0.80212	-0.20008	331.90	*
				0.97934	44.85268	114.24649	0.00000	0.66182	-0.61100	1.4958	0.87161	-0.22721	331.90	*
				1.4690	45.28462	114.01583	0.00000	0.74725	-0.71044	1.6436	0.99381	-0.27470	331.90	*
				1.9587	45.71656	113.78517	0.00000	0.82967	-0.81322	1.7980	1.1149	-0.32654	331.90	*
				2.4483	46.14850	113.55451	0.00000	0.90566	-0.91642	1.9590	1.2306	-0.38177	331.90	*
				2.9380	46.58044	113.32386	0.00000	0.97471	-1.0202	2.1264	1.3403	-0.44075	331.90	*
				3.4277	47.01237	113.09320	0.00000	1.0362	-1.1246	2.2999	1.4438	-0.50391	331.90	*
				3.9173	47.44431	112.86254	0.00000	1.0894	-1.2298	2.4789	1.5403	-0.57171	331.90	*
				4.4070	47.87625	112.63189	0.00000	1.1335	-1.3361	2.6629	1.6292	-0.64464	331.90	*
				4.8967	48.30819	112.40123	0.00000	1.1675	-1.4434	2.8510	1.7097	-0.72328	331.90	*
				5.3863	48.74013	112.17057	0.00000	1.1903	-1.5519	3.0424	1.7810	-0.80825	331.90	*
				5.8760	49.17207	111.93991	0.00000	1.2006	-1.6617	3.2359	1.8418	-0.90026	331.90	*
				6.3657	49.60401	111.70926	0.00000	1.1971	-1.7730	3.4305	1.8911	-1.0001	331.90	*
				6.8553	50.03595	111.47860	0.00000	1.1780	-1.8857	3.6247	1.9274	-1.1085	331.90	*
				7.3450	50.46789	111.24794	0.00000	1.1416	-2.0000	3.8172	1.9491	-1.2265	331.90	*
				7.8347	50.89983	111.01729	0.00000	1.0857	-2.1158	4.0065	1.9543	-1.3550	331.90	*
				8.3243	51.33177	110.78663	0.00000	1.0081	-2.2332	4.1910	1.9412	-1.4951	331.90	*
				8.8140	51.76371	110.55597	0.00000	0.90639	-2.3521	4.3690	1.9075	-1.6478	331.90	*
				9.3037	52.19565	110.32531	0.00000	0.77793	-2.4723	4.5388	1.8508	-1.8143	331.90	*
				9.7934	52.62759	110.09466	0.00000	0.63416	-2.6410	4.7388	1.8034	-2.0309	331.90	*
				10.283	53.05953	109.86400	0.00000	0.46518	-2.8334	4.9484	1.7450	-2.2802	331.90	*
				10.773	53.49146	109.63334	0.00000	0.26459	-3.0355	5.1547	1.6633	-2.5530	331.90	*
				11.262	53.92340	109.40269	0.00000	0.030606	-3.2470	5.3559	1.5565	-2.8498	331.90	*
				11.752	54.35534	109.17203	0.00000	-0.23782	-3.4672	5.5500	1.4234	-3.1704	331.90	*
				12.242	54.78728	108.94137	0.00000	-0.54059	-3.6945	5.7351	1.2634	-3.5136	331.90	*
				12.731	55.21922	108.71071	0.00000	-0.87610	-3.9268	5.9089	1.0769	-3.8766	331.90	*
				13.221	55.65116	108.48006	0.00000	-1.2408	-4.1611	6.0690	0.86556	-4.2550	331.90	*
				13.711	56.08310	108.24940	0.00000	-1.6290	-4.3934	6.2133	0.63255	-4.6428	331.90	*
		43	CH-02	0.0	56.08310	108.24940	0.00000	-1.6290	-4.3934	6.2133	4.6347	0.68905	241.20	*
				0.48553	55.84919	107.82393	0.00000	-1.6029	-4.5494	6.5297	4.7589	0.78708	241.20	*
				0.97106	55.61528	107.39846	0.00000	-1.5493	-4.6950	6.8575	4.8602	0.90512	241.20	*
				1.4566	55.38138	106.97298	0.00000	-1.4552	-4.8254	7.2026	4.9296	1.0495	241.20	*
				1.9421	55.14747	106.54751	0.00000	-1.3094	-4.9337	7.5747	4.9542	1.2294	241.20	*
				2.4276	54.91356	106.12204	0.00000	-1.0894	-5.0092	7.9884	4.9144	1.4585	241.20	*
				2.9132	54.67965	105.69657	0.00000	-0.76238	-5.0356	8.4642	4.7800	1.7578	241.20	*
				3.3987	54.44574	105.27110	0.00000	-0.27579	-4.9865	9.0290	4.5025	2.1606	241.20	*
				3.8842	54.21184	104.84562	0.00000	0.45469	-4.8190	9.7123	4.0039	2.7200	241.20	*
				4.3698	53.97793	104.42015	0.00000	1.5793	-4.5284	10.635	3.2074	3.5655	241.20	*
				4.8553	53.74402	103.99468	0.00000	3.3744	-4.3885	11.959	2.2200	5.0712	241.20	*
				5.3408	53.51011	103.56921	0.00000	5.8278	-4.1009	12.964	0.78608	7.0826	241.20	*
				5.8264	53.27620	103.14374	0.00000	7.2623	-3.9378	13.745	-0.047930	8.2611	241.20	*
				6.3119	53.04230	102.71826	0.00000	7.3696	-3.9960	14.298	-0.048638	8.3831	241.20	*
				6.7974	52.80839	102.29279	0.00000	7.4768	-4.0542	14.747	-0.049346	8.5051	241.20	*
				7.2829	52.57448	101.86732	0.00000	7.5841	-4.1123	15.117	-0.050054	8.6271	241.20	*
				7.7685	52.34057	101.44185	0.00000	7.6913	-4.1704	15.429	-0.050761	8.7490	241.20	*
				8.2540	52.10666	101.01638	0.00000	7.7984	-4.2285	15.698	-0.051468	8.8709	241.20	*
				8.7395	51.87276	100.59090	0.00000	7.9056	-4.2866	15.934	-0.052175	8.9928	241.20	*
				9.2251	51.63885	100.16543	0.00000	8.0127	-4.3447	16.144	-0.052882	9.1146	241.20	*
				9.7106	51.40494	99.73996	0.00000	8.1197	-4.4028	16.333	-0.053589	9.2364	241.20	*
				10.196	51.17103	99.31449	0.00000	8.2268	-4.4608	16.506	-0.054295	9.3582	241.20	*
				10.682	50.93712	98.88902	0.00000	8.3338	-4.5188	16.664	-0.055001	9.4799	241.20	*
				11.167	50.70322	98.46354	0.00000	8.4407	-4.5768	16.811	-0.055707	9.6016	241.20	*
				11.653	50.46931	98.03807	0.00000	8.5477	-4.6348	16.948	-0.056413	9.7232	241.20	*
				12.138	50.23540	97.61260	0.00000	8.6546	-4.6928	17.075	-0.057119	9.8448	241.20	*
				12.624	50.00149	97.18713	0.00000	8.7614	-4.7507	17.193	-0.057824	9.9664	241.20	*
				13.109	49.76758	96.76166	0.00000	8.8683	-4.8086	17.304	-0.058529	10.088	241.20	*
				13.595	49.53368	96.33618	0.00000	8.9751	-4.8666	17.407	-0.059234	10.209	241.20	*
				14.080	49.29977	95.91071	0.00000	9.0819	-4.9245	17.504	-0.059939	10.331	241.20	*
				14.566	49.06586	95.48524	0.00000	9.1886	-4.9823	17.593	-0.060643	10.452	241.20	*
				15.051	48.83195	95.05977	0.00000	9.1139	-4.9418	17.585	-0.060150	10.367	241.20	*
				15.537	48.59804	94.63430	0.00000	9.0032	-4.8818	17.553	-0.059420	10.241	241.20	*
				16.022	48.36414	94.20882	0.00000	8.8926	-4.8218	17.514	-0.058690	10.116	241.20	*
				16.508	48.13023	93.78335	0.00000	8.7820	-4.7619	17.467	-0.057960	9.9898	241.20	*
				16.994	47.89632	93.35788	0.00000	8.6714	-4.7019	17.414	-0.057230	9.8640	241.20	*
				17.479	47.66241	92.93241	0.00000	8.5609	-4.6420	17.353	-0.056500	9.7382	241.20	*
				17.965	47.42850	92.50694	0.00000	8.4504	-4.5820	17.284	-0.055771	9.6125	241.20	*
				18.450	47.19460	92.08146	0.00000	8.3399	-4.5221	17.206	-0.055042	9.4868	241.20	*
				18.936	46.96069	91.65599	0.00000	8.2294	-4.4622	17.119	-0.054313	9.3612	241.20	*
				19.421	46.72678	91.23052	0.00000	8.1190	-4.4024	17.022	-0.053584	9.2356	241.20	*
				19.907	46.49287	90.80505	0.00000	8.0087	-4.3425	16.913	-0.052856	9.1101	241.20	*
				20.392	46.25896	90.37958	0.00000	7.8983	-4.2827	16.789	-0.052127	8.9845	241.20	*
				20.878	46.02506	89.95410	0.00000	7.7880	-4.2229	16.650	-0.051399	8.8591	241.20	*
				21.363	45.79115	89.52863	0.00000	7.6777	-4.1631	16.490	-0.050672	8.7336	241.20	*
				21.849	45.55724	89.10316	0.00000	7.5675	-4.1033	16.305	-0.049944	8.6082	241.20	*
				22.334	45.32333	88.67769	0.00000	7.4573	-4.0436	16.087	-0.049217	8.4828	241.20	*
				22.820	45.08942	88.25222	0.00000	7.3471	-3.9838	15.826	-0.048489	8.3575	241.20	*
				23.305	44.85552	87.82674	0.00000	7.2369	-3.9241	15.506	-0.047762	8.2322	241.20	*
				23.791	44.62161	87.40127	0.00000	6.9600	-3.4761	15.076	-0.30691	7.7737	241.20	*
				24.276	44.38770	86.97580	0.00000	5.8986	-1.2899	14.414	-1.7113	5.7904	241.20	*
		44	CH-03	0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	14.414	-5.7430	-1.8642	149.68	*
				0.48596	43.96821	87.22111	0.00000	5.9739	-1.8808	13.782	-6.1063	-1.3921	149.68	*
				0.97191	43.54871	87.46643	0.00000	5.9205	-2.1910	12.946	-6.2167	-1.0974	149.68	*
				1.4579	43.12922	87.71174	0.00000	5.8016	-2.3534	11.708	-6.1961	-0.89712	149.68	*
				1.9438	42.70973	87.95705	0.00000	5.6467	-2.4304	10.651	-6.1013	-0.75251	149.68	*
				2.4298	42.29023	88.20237	0.00000	5.4711	-2.4543	9.7957	-5.9618	-0.64325	149.68	*
				2.9157	41.87074	88.44768	0.00000	5.2834	-2.4435	9.0723	-5.7943	-0.55778	149.68	*
				3.4017	41.45125	88.69300	0.00000	5.0886	-2.4092	8.4506	-5.6089	-0.48905	149.68	*
				3.8876	41.03175	88.93831	0.00000	4.8900	-2.3585	7.9039	-5.4118	-0.43255	149.68	*
				4.3736	40.61226	89.18362	0.00000	4.6896	-2.2962	7.4113	-5.2073	-0.38523	149.68	*
				4.8596	40.19277	89.42894	0.00000	4.4888	-2.2253	6.9583	-4.9982	-0.34498	149.68	*

Highgate School

Dyne House and Island Building GMA

A2

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.3455	39.77327	89.67425	0.00000	4.2883	-2.1483	6.5351	-4.7863	-0.31029	149.68	*
				5.8315	39.35378	89.91956	0.00000	4.0890	-2.0668	6.1352	-4.5731	-0.28004	149.68	*
				6.3174	38.93429	90.16488	0.00000	3.8910	-1.9819	5.7544	-4.3593	-0.25339	149.68	*
				6.8034	38.51480	90.41019	0.00000	3.6947	-1.8945	5.3900	-4.1458	-0.22971	149.68	*
				7.2893	38.09530	90.65550	0.00000	3.5002	-1.8053	5.0404	-3.9328	-0.20848	149.68	*
				7.7753	37.67581	90.90082	0.00000	3.3074	-1.7148	4.7048	-3.7207	-0.18932	149.68	*
				8.2613	37.25632	91.14613	0.00000	3.1165	-1.6233	4.3826	-3.5097	-0.17191	149.68	*
				8.7472	36.83682	91.39145	0.00000	2.9272	-1.5311	4.0736	-3.2998	-0.15598	149.68	*
				9.2332	36.41733	91.63676	0.00000	2.7396	-1.4383	3.7779	-3.0910	-0.14134	149.68	*
				9.7191	35.99784	91.88207	0.00000	2.5534	-1.3452	3.4953	-2.8833	-0.12779	149.68	*
				10.205	35.57834	92.12739	0.00000	2.3686	-1.2517	3.2260	-2.6765	-0.11520	149.68	*
				10.691	35.15885	92.37270	0.00000	2.1850	-1.1579	2.9701	-2.4707	-0.10344	149.68	*
				11.177	34.73936	92.61801	0.00000	2.0023	-1.0639	2.7275	-2.2655	-0.092407	149.68	*
				11.663	34.31986	92.86333	0.00000	1.8205	-0.96958	2.4980	-2.0609	-0.082007	149.68	*
				12.149	33.90037	93.10864	0.00000	1.6392	-0.87498	2.2815	-1.8567	-0.072164	149.68	*
				12.635	33.48088	93.35395	0.00000	1.4583	-0.78003	2.0776	-1.6526	-0.062810	149.68	*
				13.121	33.06138	93.59927	0.00000	1.2776	-0.68468	1.8859	-1.4485	-0.053886	149.68	*
				13.607	32.64189	93.84458	0.00000	1.0964	-0.58864	1.7058	-1.2436	-0.045323	149.68	*
				14.093	32.22240	94.08990	0.00000	0.99036	-0.53251	1.5363	-1.1237	-0.040260	149.68	*
				14.579	31.80290	94.33521	0.00000	0.88415	-0.47606	1.3768	-1.0036	-0.035373	149.68	*
				15.065	31.38341	94.58052	0.00000	0.77777	-0.41933	1.2260	-0.88308	-0.030646	149.68	*
				15.551	30.96392	94.82584	0.00000	0.67123	-0.36233	1.0827	-0.76234	-0.026066	149.68	*
				16.037	30.54442	95.07115	0.00000	0.56454	-0.30509	0.94543	-0.64135	-0.021619	149.68	*
				16.523	30.12493	95.31646	0.00000	0.45772	-0.24763	0.81268	-0.52013	-0.017296	149.68	*
				17.009	29.70544	95.56178	0.00000	0.35078	-0.18997	0.68263	-0.39870	-0.013086	149.68	*
				17.494	29.28595	95.80709	0.00000	0.24372	-0.13212	0.55333	-0.27708	-0.0089811	149.68	*
				17.980	28.86645	96.05240	0.00000	0.13659	-0.074065	0.42266	-0.15530	-0.0050179	149.68	*
				18.466	28.44696	96.29772	0.00000	0.029313	-0.015895	0.28828	-0.033328	-0.0010769	149.68	*
				18.952	28.02747	96.54303	0.00000	0.0	0.0	0.23630	0.0	0.0	149.68	*
				19.438	27.60797	96.78835	0.00000	0.0	0.0	0.22141	0.0	0.0	149.68	*
				19.924	27.18848	97.03366	0.00000	0.0	0.0	0.20743	0.0	0.0	149.68	*
				20.410	26.76899	97.27897	0.00000	0.0	0.0	0.19432	0.0	0.0	149.68	*
				20.896	26.34949	97.52429	0.00000	0.0	0.0	0.18200	0.0	0.0	149.68	*
				21.382	25.93000	97.76960	0.00000	0.0	0.0	0.34086	0.0	0.0	149.68	*
		45	CH-04	0.0	25.93000	97.76960	0.00000	0.0	0.0	0.34086	0.0	0.0	60.872	*
				0.48923	26.16813	98.19696	0.00000	0.0	0.0	0.17307	0.0	0.0	60.872	*
				0.97845	26.40627	98.62432	0.00000	0.0	0.0	0.17557	0.0	0.0	60.872	*
				1.4677	26.64440	99.05168	0.00000	0.0	0.0	0.17792	0.0	0.0	60.872	*
				1.9569	26.88253	99.47903	0.00000	0.0	0.0	0.18012	0.0	0.0	60.872	*
				2.4461	27.12067	99.90639	0.00000	0.0	0.0	0.18216	0.0	0.0	60.872	*
				2.9354	27.35880	100.33375	0.00000	0.0	0.0	0.18404	0.0	0.0	60.872	*
				3.4246	27.59693	100.76111	0.00000	0.0	0.0	0.18574	0.0	0.0	60.872	*
				3.9138	27.83507	101.18847	0.00000	0.0	0.0	0.18726	0.0	0.0	60.872	*
				4.4030	28.07320	101.61583	0.00000	0.0	0.0	0.18861	0.0	0.0	60.872	*
				4.8923	28.31133	102.04318	0.00000	0.0	0.0	0.18976	0.0	0.0	60.872	*
				5.3815	28.54947	102.47054	0.00000	0.0	0.0	0.19072	0.0	0.0	60.872	*
				5.8707	28.78760	102.89790	0.00000	0.0	0.0	0.19149	0.0	0.0	60.872	*
				6.3599	29.02573	103.32526	0.00000	0.0	0.0	0.19207	0.0	0.0	60.872	*
				6.8492	29.26387	103.75262	0.00000	0.0	0.0	0.19244	0.0	0.0	60.872	*
				7.3384	29.50200	104.17997	0.00000	0.0	0.0	0.19262	0.0	0.0	60.872	*
				7.8276	29.74013	104.60733	0.00000	0.0	0.0	0.19259	0.0	0.0	60.872	*
				8.3169	29.97827	105.03469	0.00000	0.0	0.0	0.19237	0.0	0.0	60.872	*
				8.8061	30.21640	105.46205	0.00000	0.0	0.0	0.19194	0.0	0.0	60.872	*
				9.2953	30.45453	105.88941	0.00000	0.0	0.0	0.19132	0.0	0.0	60.872	*
				9.7845	30.69267	106.31677	0.00000	0.0	0.0	0.19049	0.0	0.0	60.872	*
				10.274	30.93080	106.74412	0.00000	0.0	0.0	0.18947	0.0	0.0	60.872	*
				10.763	31.16893	107.17148	0.00000	0.0	0.0	0.18826	0.0	0.0	60.872	*
				11.252	31.40707	107.59884	0.00000	0.0	0.0	0.18686	0.0	0.0	60.872	*
				11.741	31.64520	108.02620	0.00000	0.0	0.0	0.18527	0.0	0.0	60.872	*
				12.231	31.88333	108.45356	0.00000	0.0	0.0	0.18350	0.0	0.0	60.872	*
				12.720	32.12147	108.88092	0.00000	0.0	0.0	0.18155	0.0	0.0	60.872	*
				13.209	32.35960	109.30827	0.00000	0.0	0.0	0.17943	0.0	0.0	60.872	*
				13.698	32.59773	109.73563	0.00000	0.0	0.0	0.17715	0.0	0.0	60.872	*
				14.188	32.83587	110.16299	0.00000	0.0	0.0	0.17471	0.0	0.0	60.872	*
				14.677	33.07400	110.59035	0.00000	0.0	0.0	0.17211	0.0	0.0	60.872	*
				15.166	33.31213	111.01771	0.00000	0.0	0.0	0.16938	0.0	0.0	60.872	*
				15.655	33.55027	111.44507	0.00000	0.0	0.0	0.16650	0.0	0.0	60.872	*
				16.144	33.78840	111.87242	0.00000	0.0	0.0	0.16349	0.0	0.0	60.872	*
				16.634	34.02653	112.29978	0.00000	0.0	0.0	0.16036	0.0	0.0	60.872	*
				17.123	34.26467	112.72714	0.00000	0.0	0.0	0.15712	0.0	0.0	60.872	*
				17.612	34.50280	113.15450	0.00000	0.0	0.0	0.15378	0.0	0.0	60.872	*
				18.101	34.74093	113.58186	0.00000	0.0	0.0	0.15033	0.0	0.0	60.872	*
				18.591	34.97907	114.00922	0.00000	0.0	0.0	0.14681	0.0	0.0	60.872	*
				19.080	35.21720	114.43657	0.00000	0.0	0.0	0.14320	0.0	0.0	60.872	*
				19.569	35.45533	114.86393	0.00000	0.0	0.0	0.13952	0.0	0.0	60.872	*
				20.058	35.69347	115.29129	0.00000	0.0	0.0	0.13579	0.0	0.0	60.872	*
				20.548	35.93160	115.71865	0.00000	0.0	0.0	0.13200	0.0	0.0	60.872	*
				21.037	36.16973	116.14601	0.00000	0.0	0.0	0.12818	0.0	0.0	60.872	*
				21.526	36.40787	116.57337	0.00000	0.0	0.0	0.12432	0.0	0.0	60.872	*
				22.015	36.64600	117.00072	0.00000	0.0	0.0	0.12043	0.0	0.0	60.872	*
				22.504	36.88413	117.42808	0.00000	0.0	0.0	0.11653	0.0	0.0	60.872	*
				22.994	37.12227	117.85544	0.00000	0.0	0.0	0.11262	0.0	0.0	60.872	*
				23.483	37.36040	118.28280	0.00000	0.0	0.0	0.10871	0.0	0.0	60.872	*
		46	CH-05	0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	14.414	-5.3932	2.7148	194.38	*
				0.43282	43.96845	86.86828	0.00000	5.4594	-0.73469	13.571	-5.1058	2.0679	194.38	*
				0.86564	43.54920	86.76075	0.00000	5.1174	-0.39034	12.633	-4.8600	1.6494	194.38	*
				1.2985	43.12995	86.65323	0.00000	4.8311	-0.16291	11.613	-4.6392	1.3580	194.38	*
				1.7313	42.71070	86.54570	0.00000	4.5803	-0.0063192	10.400	-4.4352	1.1440	194.38	*
				2.1641	42.29145	86.43818	0.00000	4.3540	0.10444	9.5008	-4.2434	0.98048	194.38	*
				2.5969	41.87220	86.33065	0.00000	4.1454	0.18403	8.7792	-4.0612	0.85158	194.38	*
				3.0297	41.45295	86.22312	0.00000	3.9505	0.24157	8.1686	-3.8867	0.74742	194.38	*
				3.4626	41.03370	86.11560	0.00000	3.7665	0.28302	7.6401	-3.7187	0.66156	194.38	*
		47	CH-06	0.0	41.03370	86.11560	0.00000	3.7665	0.28302	7.6401	-3.1083	-2.1460	149.68	*
				0.48042	40.61901	86.35816	0.00000	3.7571	0.0036583	7.2745	-3.2412	-1.9001	149.68	*
				0.96085	40.20431	86.60072	0.00000	3.7193	-0.22004	6.9248	-3.3215	-1.6879	149.68	*
				1.4413	39.78962	86.84328	0.00000	3.6587	-0.39768	6.5886	-3.3589	-1.5040	149.68	*
				1.9217	39.37493	87.08584	0.00000	3.5799	-0.53721	6.2636	-3.3613	-1.3437	149.68	*
				2.4021	38.96024	87.32840	0.00000	3.4864	-0.64518	5.9475	-3.3352	-1.2034	149.68	*
				2.8825	38.54554	87.57096	0.00000	3.3812	-0.72689	5.6390	-3.2856	-1.0797	149.68	*
				3.3630	38.13085	87.81352	0.00000	3.2666	-0.78669	5.3372	-3.2169	-0.97022	149.68	*
				3.8434	37.71616	88.05609	0.00000	3.1444	-0.82812	5.0418	-3.1323	-0.87276	149.68	*
				4.3238	37.30146	88.29865	0.00000	3.0160	-0.85404	4.7526	-3.0346	-0.78557	149.68	*
				4.8042	36.88677	88.54121	0.00000	2.8827	-0.86684	4.4700	-2.9260	-0.70721	149.68	*
				5.2846	36.47208	88.78377	0.00000	2.7453	-0.86845	4.1943	-2.8082	-0.63645	149.68	*
				5.7651	36.05739	89.02633	0.00000	2.6046	-0.86048	3.9261	-2.6827	-0.57228	149.68	*
				6.2455	35.64269	89.26889	0.00000	2.4611	-0.84426	3.6658	-2.5506	-0.51383	149.68	*
				6.7259	35.22800	89.51145	0.00000	2.3153	-0.82088	3.4141	-2.4130	-0.46039	149.68	*
				7.2063	34.81331	89.75401	0.00000	2.1675	-0.79127	3.1714	-2.2704	-0.41133	149.68	*
				7.6868	34.39861	89.99657	0.00000	2.0179	-0.75618	2.9381	-2.1236	-0.36612	149.68	*
				8.1672	33.98392	90.23913	0.00000	1.8669	-0.71625	2.7147	-1.9731	-0.32430	149.68	*
				8.6476	33.56923	90.48169	0.00000	1.7143	-0.67202	2.5012	-1.8191	-0.28548	149.68	*
				9.1280	33.15454	90.72425	0.00000	1.5605	-0.62391	2.2980	-1.6620	-0.24931	149.68	*
				9.6085	32.73984	90.96681	0.00000	1.4052	-0.57229	2.1049	-1.5019	-0.21550	149.68	*
				10.089	32.32515	91.20938	0.00000	1.2487	-0.51747	1.9219	-1.3391	-0.18378	149.68	*
				10.569	31.91046	91.45194	0.00000	1.0907	-0.45968	1.7486	-1.1736	-0.15391	149.68	*
				11.050	31.49576	91.69450	0.00000	0.96044	-0.41064	1.5847	-1.0364	-0.13046	149.68	*
				11.530	31.08107	91.93706	0.00000	0.86916	-0.37557	1.4294	-0.93986	-0.11464	149.68	*
				12.011	30.66638	92.17962	0.00000	0.77690	-0.33902	1.2822	-0.84178	-0.099615	149.68	*
				12.491	30.25169	92.42218	0.00000	0.68376	-0.30111	1.1421	-0.74224	-0.085315	149.68	*
				12.971	29.83699	92.66474	0.00000	0.58980	-0.26194	1.0080	-0.64136	-0.071683	149.68	*
				13.452	29.42230	92.90730	0.00000	0.49510	-0.22163	0.87874	-0.53926	-0.058665	149.68	*
		48	CH-07	0.0	29.42230	92.90730	0.00000	0.49510	-0.22163	0.87874	-0.092640	0.53447	236.05	*
				0.48449	29.15173	92.50539	0.00000	0.46323	-0.19833	0.84138	-0.094169	0.49502	236.05	*
				0.96899	28.88117	92.10349	0.00000	0.42978	-0.17548	0.80140	-0.094441	0.45452	236.05	*
				1.4535	28.61060	91.70158	0.00000	0.39491	-0.15329	0.75890	-0.093381	0.41320	236.05	*
				1.9380	28.34003	91.29968	0.00000	0.35877	-0.13192	0.71397	-0.090923	0.37129	236.05	*
				2.4225	28.06947	90.89777	0.00000	0.32152	-0.11156	0.66665	-0.087008	0.32901	236.05	*
				2.9070	27.79890	90.49587	0.00000	0.28327	-0.092344	0.61697	-0.081590	0.28655	236.05	*
				3.3915	27.52833	90.09396	0.00000	0.24417	-0.074415	0.56494	-0.074625	0.24410	236.05	*
				3.8760	27.25777	89.69206	0.00000	0.20433	-0.057893	0.51050	-0.066082	0.20183	236.05	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				4.3604	26.98720	89.29015	0.00000	0.16386	-0.042884	0.45359	-0.055937	0.15988	236.05	*
				4.8449	26.71663	88.88824	0.00000	0.12288	-0.029479	0.39409	-0.044170	0.11840	236.05	*
				5.3294	26.44607	88.48634	0.00000	0.081480	-0.017757	0.33182	-0.030772	0.077507	236.05	*
				5.8139	26.17550	88.08443	0.00000	0.039743	-0.0077833	0.26657	-0.015738	0.037315	236.05	*
				6.2984	25.90493	87.68253	0.00000	0.0	0.0	0.19891	0.0	0.0	236.05	*
				6.7829	25.63437	87.28062	0.00000	0.0	0.0	0.19074	0.0	0.0	236.05	*
				7.2674	25.36380	86.87872	0.00000	0.0	0.0	0.18276	0.0	0.0	236.05	*
				7.7519	25.09323	86.47681	0.00000	0.0	0.0	0.17498	0.0	0.0	236.05	*
				8.2364	24.82267	86.07491	0.00000	0.0	0.0	0.16738	0.0	0.0	236.05	*
				8.7209	24.55210	85.67300	0.00000	0.0	0.0	0.15999	0.0	0.0	236.05	*
		49	CH-08	0.0	24.55210	85.67300	0.00000	0.0	0.0	0.15999	0.0	0.0	148.76	*
				0.22375	24.36080	85.78905	0.00000	0.0	0.0	0.15602	0.0	0.0	148.76	*
				0.44750	24.16950	85.90510	0.00000	0.0	0.0	0.15213	0.0	0.0	148.76	*
		50	CH-09	0.0	24.16950	85.90510	0.00000	0.0	0.0	0.15213	0.0	0.0	234.67	*
				0.41343	23.93042	85.56780	0.00000	0.0	0.0	0.14616	0.0	0.0	234.67	*
				0.82687	23.69135	85.23050	0.00000	0.0	0.0	0.14035	0.0	0.0	234.67	*
				1.2403	23.45228	84.89320	0.00000	0.0	0.0	0.13468	0.0	0.0	234.67	*
				1.6537	23.21320	84.55590	0.00000	0.0	0.0	0.12917	0.0	0.0	234.67	*
				2.0672	22.97413	84.21860	0.00000	0.0	0.0	0.12380	0.0	0.0	234.67	*
				2.4806	22.73505	83.88130	0.00000	0.0	0.0	0.11858	0.0	0.0	234.67	*
				2.8940	22.49598	83.54400	0.00000	0.0	0.0	0.11350	0.0	0.0	234.67	*
				3.3075	22.25690	83.20670	0.00000	0.0	0.0	0.10857	0.0	0.0	234.67	*
		51	CH-10	0.0	22.25690	83.20670	0.00000	0.0	0.0	0.10857	0.0	0.0	147.51	*
				0.49151	21.84234	83.47075	0.00000	0.0	0.0	0.10291	0.0	0.0	147.51	*
				0.98302	21.42778	83.73480	0.00000	0.0	0.0	0.097461	0.0	0.0	147.51	*
				1.4745	21.01322	83.99885	0.00000	0.0	0.0	0.092209	0.0	0.0	147.51	*
				1.9660	20.59866	84.26290	0.00000	0.0	0.0	0.087151	0.0	0.0	147.51	*
				2.4576	20.18410	84.52695	0.00000	0.0	0.0	0.082282	0.0	0.0	147.51	*
				2.9491	19.76954	84.79100	0.00000	0.0	0.0	0.077599	0.0	0.0	147.51	*
				3.4406	19.35498	85.05505	0.00000	0.0	0.0	0.073095	0.0	0.0	147.51	*
				3.9321	18.94042	85.31910	0.00000	0.0	0.0	0.068765	0.0	0.0	147.51	*
				4.4236	18.52586	85.58315	0.00000	0.0	0.0	0.064605	0.0	0.0	147.51	*
				4.9151	18.11130	85.84720	0.00000	0.0	0.0	0.060609	0.0	0.0	147.51	*
		52	CH-11	0.0	18.11130	85.84720	0.00000	0.0	0.0	0.060609	0.0	0.0	56.743	*
				0.47528	18.37194	86.24464	0.00000	0.0	0.0	0.063718	0.0	0.0	56.743	*
				0.95057	18.63258	86.64209	0.00000	0.0	0.0	0.066896	0.0	0.0	56.743	*
				1.4259	18.89322	87.03953	0.00000	0.0	0.0	0.070143	0.0	0.0	56.743	*
				1.9011	19.15386	87.43697	0.00000	0.0	0.0	0.073456	0.0	0.0	56.743	*
				2.3764	19.41450	87.83442	0.00000	0.0	0.0	0.076834	0.0	0.0	56.743	*
				2.8517	19.67514	88.23186	0.00000	0.0	0.0	0.080275	0.0	0.0	56.743	*
				3.3270	19.93578	88.62930	0.00000	0.0	0.0	0.083777	0.0	0.0	56.743	*
				3.8023	20.19642	89.02675	0.00000	0.0	0.0	0.087336	0.0	0.0	56.743	*
				4.2776	20.45706	89.42419	0.00000	0.0	0.0	0.090949	0.0	0.0	56.743	*
				4.7528	20.71770	89.82163	0.00000	0.0	0.0	0.094614	0.0	0.0	56.743	*
				5.2281	20.97834	90.21908	0.00000	0.0	0.0	0.098326	0.0	0.0	56.743	*
				5.7034	21.23898	90.61652	0.00000	0.0	0.0	0.10208	0.0	0.0	56.743	*
				6.1787	21.49962	91.01396	0.00000	0.0	0.0	0.10588	0.0	0.0	56.743	*
				6.6540	21.76026	91.41141	0.00000	0.0	0.0	0.10971	0.0	0.0	56.743	*
				7.1293	22.02090	91.80885	0.00000	0.0	0.0	0.11357	0.0	0.0	56.743	*
				7.6045	22.28154	92.20629	0.00000	0.0	0.0	0.11745	0.0	0.0	56.743	*
				8.0798	22.54218	92.60374	0.00000	0.0	0.0	0.12135	0.0	0.0	56.743	*
				8.5551	22.80282	93.00118	0.00000	0.0	0.0	0.12526	0.0	0.0	56.743	*
				9.0304	23.06346	93.39862	0.00000	0.0	0.0	0.12917	0.0	0.0	56.743	*
				9.5057	23.32410	93.79607	0.00000	0.0	0.0	0.13309	0.0	0.0	56.743	*
				9.9810	23.58474	94.19351	0.00000	0.0	0.0	0.13699	0.0	0.0	56.743	*
				10.456	23.84538	94.59095	0.00000	0.0	0.0	0.14088	0.0	0.0	56.743	*
				10.932	24.10602	94.98840	0.00000	0.0	0.0	0.14475	0.0	0.0	56.743	*
				11.407	24.36666	95.38584	0.00000	0.0	0.0	0.14858	0.0	0.0	56.743	*
				11.882	24.62730	95.78328	0.00000	0.0	0.0	0.15237	0.0	0.0	56.743	*
				12.357	24.88794	96.18073	0.00000	0.0	0.0	0.15612	0.0	0.0	56.743	*
				12.833	25.14858	96.57817	0.00000	0.0	0.0	0.15980	0.0	0.0	56.743	*
				13.308	25.40922	96.97561	0.00000	0.0	0.0	0.16342	0.0	0.0	56.743	*
				13.783	25.66986	97.37306	0.00000	0.0	0.0	0.16697	0.0	0.0	56.743	*
				14.259	25.93050	97.77050	0.00000	0.0	0.0	0.34086	0.0	0.0	56.743	*
		53	10S-01	0.0	60.26430	42.08760	0.00000	0.59562	2.0766	1.8986	-2.1453	-0.25406	247.24	*
				0.46042	60.08619	41.66303	0.00000	0.53428	1.8627	1.7217	-1.9244	-0.22790	247.24	*
				0.92083	59.90809	41.23846	0.00000	0.47326	1.6500	1.5553	-1.7046	-0.20187	247.24	*
				1.3812	59.72998	40.81389	0.00000	0.41250	1.4382	1.3989	-1.4858	-0.17596	247.24	*
				1.8417	59.55187	40.38931	0.00000	0.37252	1.2988	1.2520	-1.3418	-0.15890	247.24	*
				2.3021	59.37376	39.96474	0.00000	0.33435	1.1657	1.1139	-1.2043	-0.14262	247.24	*
				2.7625	59.19566	39.54017	0.00000	0.29636	1.0333	0.98347	-1.0675	-0.12641	247.24	*
				3.2229	59.01755	39.11560	0.00000	0.25857	0.90148	0.85976	-0.93132	-0.11029	247.24	*
				3.6833	58.83944	38.69103	0.00000	0.22096	0.77036	0.74147	-0.79586	-0.094250	247.24	*
				4.1437	58.66134	38.26646	0.00000	0.18354	0.63989	0.62718	-0.66107	-0.078288	247.24	*
				4.6042	58.48323	37.84189	0.00000	0.14630	0.51008	0.51533	-0.52696	-0.062406	247.24	*
				5.0646	58.30512	37.41731	0.00000	0.10926	0.38092	0.40418	-0.39353	-0.046604	247.24	*
				5.5250	58.12701	36.99274	0.00000	0.072399	0.25242	0.29186	-0.26077	-0.030882	247.24	*
				5.9854	57.94891	36.56817	0.00000	0.035729	0.12457	0.17633	-0.12869	-0.015240	247.24	*
				6.4458	57.77080	36.14360	0.00000	0.0	0.0	0.054575	0.0	0.0	247.24	*
		54	10S-02	0.0	57.77080	36.14360	0.00000	0.0	0.0	0.054575	0.0	0.0	158.51	*
				0.38404	57.41346	36.28429	0.00000	0.0021292	0.0074234	0.064082	738.30E-6	-0.0076873	158.51	*
				0.76807	57.05613	36.42498	0.00000	0.0049053	0.017102	0.072601	0.0017009	-0.017710	158.51	*
				1.1521	56.69879	36.56566	0.00000	0.0075969	0.026408	0.080978	0.0026057	-0.027355	158.51	*
				1.5361	56.34145	36.70635	0.00000	0.010313	0.034323	0.088304	0.0029783	-0.035715	158.51	*
				1.9202	55.98411	36.84704	0.00000	0.012571	0.040065	0.093705	0.0029808	-0.041885	158.51	*
				2.3042	55.62678	36.98772	0.00000	0.014325	0.043730	0.097201	0.0026907	-0.045938	158.51	*
				2.6882	55.26944	37.12841	0.00000	0.015531	0.045417	0.098809	0.0021868	-0.047950	158.51	*
				3.0723	54.91210	37.26910	0.00000	0.016143	0.045229	0.098539	0.0015482	-0.047999	158.51	*
		55	10S-03	0.0	54.91210	37.26910	0.00000	0.016143	0.045229	0.098539	-0.047855	-0.0040266	245.55	*
				0.34208	54.77050	36.95770	0.00000	0.0	0.0	0.044340	0.0	0.0	245.55	*
				0.68417	54.62890	36.64630	0.00000	0.0	0.0	0.041070	0.0	0.0	245.55	*
				1.0262	54.48730	36.33490	0.00000	0.0	0.0	0.037922	0.0	0.0	245.55	*
				1.3683	54.34570	36.02350	0.00000	0.0	0.0	0.034893	0.0	0.0	245.55	*
				1.7104	54.20410	35.71210	0.00000	0.0	0.0	0.031977	0.0	0.0	245.55	*
				2.0525	54.06250	35.40070	0.00000	0.0	0.0	0.029169	0.0	0.0	245.55	*
		56	10S-04	0.0	54.06250	35.40070	0.00000	0.0	0.0	0.029169	0.0	0.0	336.65	*
				0.33357	54.36875	35.26848	0.00000	0.0	0.0	0.029657	0.0	0.0	336.65	*
				0.66714	54.67500	35.13627	0.00000	0.0	0.0	0.030135	0.0	0.0	336.65	*
				1.0007	54.98125	35.00405	0.00000	0.0	0.0	0.030604	0.0	0.0	336.65	*
				1.3343	55.28750	34.87183	0.00000	0.0	0.0	0.031061	0.0	0.0	336.65	*
				1.6679	55.59375	34.73962	0.00000	0.0	0.0	0.031508	0.0	0.0	336.65	*
				2.0014	55.90000	34.60740	0.00000	0.0	0.0	0.031943	0.0	0.0	336.65	*
		57	10S-05	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.031943	0.0	0.0	246.65	*
				0.46683	55.71496	34.17881	0.00000	0.0	0.0	0.028082	0.0	0.0	246.65	*
				0.93366	55.52993	33.75021	0.00000	0.0	0.0	0.024418	0.0	0.0	246.65	*
				1.4005	55.34489	33.32162	0.00000	0.0	0.0	0.020940	0.0	0.0	246.65	*
				1.8673	55.15986	32.89303	0.00000	0.0	0.0	0.017638	0.0	0.0	246.65	*
				2.3341	54.97482	32.46444	0.00000	0.0	0.0	0.014504	0.0	0.0	246.65	*
				2.8010	54.78979	32.03584	0.00000	0.0	0.0	0.011528	0.0	0.0	246.65	*
				3.2678	54.60475	31.60725	0.00000	0.0	0.0	0.0087029	0.0	0.0	246.65	*
				3.7346	54.41971	31.17866	0.00000	0.0	0.0	0.0060199	0.0	0.0	246.65	*
				4.2015	54.23468	30.75006	0.00000	0.0	0.0	0.0034722	0.0	0.0	246.65	*
				4.6683	54.04964	30.32147	0.00000	0.0	0.0	0.0010529	0.0	0.0	246.65	*
				5.1351	53.86461	29.89288	0.00000	0.0	0.0	-0.0012443	0.0	0.0	246.65	*
				5.6020	53.67957	29.46429	0.00000	0.0	0.0	-0.0034255	0.0	0.0	246.65	*
				6.0688	53.49454	29.03569	0.00000	0.0	0.0	-0.0054965	0.0	0.0	246.65	*
				6.5356	53.30950	28.60710	0.00000	0.0	0.0	-0.0074627	0.0	0.0	246.65	*
		58	10S-06	0.0	53.30950	28.60710	0.00000	0.0	0.0	-0.0074627	0.0	0.0	159.17	*
				0.44988	52.88902	28.76706	0.00000	0.0	0.0	-0.0077124	0.0	0.0	159.17	*
				0.89976	52.46854	28.92701	0.00000	0.0	0.0	-0.0079687	0.0	0.0	159.17	*
				1.3496	52.04806	29.08697	0.00000	0.0	0.0	-0.0082312	0.0	0.0	159.17	*
				1.7995	51.62758	29.24692	0.00000	0.0	0.0	-0.0084995	0.0	0.0	159.17	*
				2.2494	51.20709	29.40688	0.00000	0.0	0.0	-0.0087731	0.0	0.0	159.17	*
				2.6993	50.78661	29.56684	0.00000	0.0	0.0	-0.0090518	0.0	0.0	159.17	*
				3.1491	50.36613	29.72679	0.00000	0.0	0.0	-0.0093350	0.0	0.0	159.17	*
				3.5990	49.94565	29.88675	0.00000	0.0	0.0	-0.0096223	0.0	0.0	159.17	*
				4.0489	49.52517	30.04671	0.00000	0.0	0.0	-0.0099133	0.0	0.0	159.17	*
				4.4988	49.10469	30.20666	0.00000	0.0	0.0	-0.010208	0.0	0.0	159.17	*
				4.9487	48.68421	30.36662	0.00000	0.0	0.0	-0.010505	0.0	0.0	159.17	*
				5.3985	48.26373	30.52658	0.00000	0.0	0.0	-0.010805	0.0	0.0	159.17	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.8484	47.84324	30.68653	0.00000	0.0	0.0	-0.011106	0.0	0.0	159.17	*
				6.2983	47.42276	30.84649	0.00000	0.0	0.0	-0.011410	0.0	0.0	159.17	*
				6.7482	47.00228	31.00644	0.00000	0.0	0.0	-0.011715	0.0	0.0	159.17	*
				7.1981	46.58180	31.16640	0.00000	0.0	0.0	-0.012020	0.0	0.0	159.17	*
		59	10S-07	0.0	46.58180	31.16640	0.00000	0.0	0.0	-0.012020	0.0	0.0	66.271	*
				0.47216	46.77181	31.59864	0.00000	0.0	0.0	-0.010438	0.0	0.0	66.271	*
				0.94432	46.96181	32.03089	0.00000	0.0	0.0	-0.0087743	0.0	0.0	66.271	*
				1.4165	47.15182	32.46313	0.00000	0.0	0.0	-0.0070245	0.0	0.0	66.271	*
				1.8886	47.34183	32.89538	0.00000	0.0	0.0	-0.0051846	0.0	0.0	66.271	*
				2.3608	47.53183	33.32762	0.00000	0.0	0.0	-0.0032505	0.0	0.0	66.271	*
				2.8330	47.72184	33.75986	0.00000	0.0	0.0	-0.0012177	0.0	0.0	66.271	*
				3.3051	47.91184	34.19211	0.00000	0.0	0.0	918.47E-6	0.0	0.0	66.271	*
				3.7773	48.10185	34.62435	0.00000	0.0	0.0	0.0031630	0.0	0.0	66.271	*
				4.2495	48.29186	35.05659	0.00000	0.0	0.0	0.0055210	0.0	0.0	66.271	*
				4.7216	48.48186	35.48884	0.00000	0.0	0.0	0.0079980	0.0	0.0	66.271	*
				5.1938	48.67187	35.92108	0.00000	0.0	0.0	0.010600	0.0	0.0	66.271	*
				5.6659	48.86187	36.35332	0.00000	0.0	0.0	0.013332	0.0	0.0	66.271	*
				6.1381	49.05188	36.78557	0.00000	0.0	0.0	0.016202	0.0	0.0	66.271	*
				6.6103	49.24189	37.21781	0.00000	0.0	0.0	0.019215	0.0	0.0	66.271	*
				7.0824	49.43189	37.65006	0.00000	0.0	0.0	0.022379	0.0	0.0	66.271	*
				7.5546	49.62190	38.08230	0.00000	0.0	0.0	0.025702	0.0	0.0	66.271	*
				8.0268	49.81191	38.51454	0.00000	0.0	0.0	0.029190	0.0	0.0	66.271	*
				8.4989	50.00191	38.94679	0.00000	0.0	0.0	0.032853	0.0	0.0	66.271	*
				8.9711	50.19192	39.37903	0.00000	0.0	0.0	0.036699	0.0	0.0	66.271	*
				9.4432	50.38193	39.81127	0.00000	0.022707	0.035521	0.093802	0.041656	-0.0064932	66.271	*
				9.9154	50.57193	40.24352	0.00000	0.074565	0.11519	0.20794	0.13546	-0.021908	66.271	*
				10.388	50.76194	40.67576	0.00000	0.12690	0.19346	0.31805	0.22817	-0.038318	66.271	*
				10.860	50.95194	41.10801	0.00000	0.17973	0.27022	0.42598	0.31971	-0.055795	66.271	*
				11.332	51.14195	41.54025	0.00000	0.23312	0.34538	0.53337	0.40999	-0.074419	66.271	*
				11.804	51.33196	41.97249	0.00000	0.28708	0.41880	0.64171	0.49892	-0.094277	66.271	*
				12.276	51.52196	42.40474	0.00000	0.34168	0.49036	0.75230	0.58640	-0.11546	66.271	*
				12.748	51.71197	42.83698	0.00000	0.39696	0.55989	0.86630	0.67230	-0.13809	66.271	*
				13.221	51.90198	43.26922	0.00000	0.45297	0.62724	0.98466	0.75650	-0.16226	66.271	*
				13.693	52.09198	43.70147	0.00000	0.50978	0.69223	1.1082	0.83885	-0.18812	66.271	*
				14.165	52.28199	44.13371	0.00000	0.56746	0.75464	1.2375	0.91920	-0.21580	66.271	*
				14.637	52.47199	44.56596	0.00000	0.64741	0.84015	1.3730	1.0296	-0.25458	66.271	*
				15.109	52.66200	44.99820	0.00000	0.74914	0.94610	1.5152	1.1676	-0.30508	66.271	*
		60	10S-08	0.0	52.66200	44.99820	0.00000	0.74914	0.94610	1.5152	0.36135	1.1514	339.05	*
				0.45225	53.08435	44.83650	0.00000	0.76217	1.0323	1.5693	0.34269	1.2366	339.05	*
				0.90449	53.50670	44.67480	0.00000	0.77032	1.1193	1.6207	0.31920	1.3207	339.05	*
				1.3567	53.92905	44.51310	0.00000	0.77372	1.2065	1.6689	0.29119	1.4034	339.05	*
				1.8090	54.35140	44.35140	0.00000	0.77253	1.2934	1.7136	0.25901	1.4841	339.05	*
				2.2612	54.77375	44.18970	0.00000	0.76695	1.3794	1.7544	0.22305	1.5624	339.05	*
				2.7135	55.19610	44.02800	0.00000	0.75720	1.4638	1.7911	0.18377	1.6378	339.05	*
				3.1657	55.61845	43.86630	0.00000	0.74352	1.5459	1.8233	0.14164	1.7096	339.05	*
				3.6180	56.04080	43.70460	0.00000	0.72622	1.6250	1.8507	0.097178	1.7773	339.05	*
				4.0702	56.46315	43.54290	0.00000	0.70558	1.7004	1.8732	0.050949	1.8403	339.05	*
				4.5225	56.88550	43.38120	0.00000	0.68196	1.7714	1.8904	0.0035241	1.8981	339.05	*
				4.9747	57.30785	43.21950	0.00000	0.65570	1.8371	1.9022	-0.044499	1.9501	339.05	*
				5.4270	57.73020	43.05780	0.00000	0.62716	1.8969	1.9086	-0.092514	1.9957	339.05	*
				5.8792	58.15255	42.89610	0.00000	0.59674	1.9500	1.9093	-0.13991	2.0344	339.05	*
				6.3314	58.57490	42.73440	0.00000	0.57141	1.9922	1.9054	-0.17867	2.0648	339.05	*
				6.7837	58.99725	42.57270	0.00000	0.57766	2.0140	1.9042	-0.18063	2.0874	339.05	*
				7.2359	59.41960	42.41100	0.00000	0.58378	2.0353	1.9026	-0.18254	2.1095	339.05	*
				7.6882	59.84195	42.24930	0.00000	0.58976	2.0562	1.9008	-0.18441	2.1311	339.05	*
				8.1404	60.26430	42.08760	0.00000	0.59562	2.0766	1.8986	-0.18624	2.1523	339.05	*
		61	10S-09	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.031943	0.0	0.0	338.37	*
				0.43838	56.30750	34.44578	0.00000	0.0	0.0	0.032608	0.0	0.0	338.37	*
				0.87676	56.71500	34.28416	0.00000	0.0	0.0	0.033255	0.0	0.0	338.37	*
				1.3151	57.12250	34.12254	0.00000	0.0	0.0	0.033880	0.0	0.0	338.37	*
				1.7535	57.53000	33.96092	0.00000	0.0	0.0	0.034484	0.0	0.0	338.37	*
				2.1919	57.93750	33.79930	0.00000	0.0	0.0	0.035065	0.0	0.0	338.37	*
				2.6303	58.34500	33.63768	0.00000	0.0	0.0	0.035623	0.0	0.0	338.37	*
				3.0687	58.75250	33.47606	0.00000	0.0	0.0	0.036156	0.0	0.0	338.37	*
				3.5070	59.16000	33.31444	0.00000	0.0	0.0	0.036663	0.0	0.0	338.37	*
				3.9454	59.56750	33.15282	0.00000	0.0	0.0	0.037145	0.0	0.0	338.37	*
				4.3838	59.97500	32.99120	0.00000	0.0	0.0	0.037599	0.0	0.0	338.37	*
		62	10S-10	0.0	59.97500	32.99120	0.00000	0.0	0.0	0.037599	0.0	0.0	247.77	*
				0.46737	59.79820	32.55856	0.00000	0.0	0.0	0.033330	0.0	0.0	247.77	*
				0.93475	59.62140	32.12591	0.00000	0.0	0.0	0.029284	0.0	0.0	247.77	*
				1.4021	59.44460	31.69327	0.00000	0.0	0.0	0.025448	0.0	0.0	247.77	*
				1.8695	59.26780	31.26063	0.00000	0.0	0.0	0.021811	0.0	0.0	247.77	*
				2.3369	59.09100	30.82799	0.00000	0.0	0.0	0.018361	0.0	0.0	247.77	*
				2.8042	58.91420	30.39534	0.00000	0.0	0.0	0.015089	0.0	0.0	247.77	*
				3.2716	58.73740	29.96270	0.00000	0.0	0.0	0.011984	0.0	0.0	247.77	*
				3.7390	58.56060	29.53006	0.00000	0.0	0.0	0.0090391	0.0	0.0	247.77	*
				4.2064	58.38380	29.09741	0.00000	0.0	0.0	0.0062444	0.0	0.0	247.77	*
				4.6737	58.20700	28.66477	0.00000	0.0	0.0	0.0035924	0.0	0.0	247.77	*
				5.1411	58.03020	28.23213	0.00000	0.0	0.0	0.0010758	0.0	0.0	247.77	*
				5.6085	57.85340	27.79949	0.00000	0.0	0.0	-0.0013124	0.0	0.0	247.77	*
				6.0759	57.67660	27.36684	0.00000	0.0	0.0	-0.0035787	0.0	0.0	247.77	*
				6.5432	57.49980	26.93420	0.00000	0.0	0.0	-0.0057293	0.0	0.0	247.77	*
		63	10S-11	0.0	57.49980	26.93420	0.00000	0.0	0.0	-0.0057293	0.0	0.0	158.24	*
				0.45119	57.08077	27.10149	0.00000	0.0	0.0	-0.0058600	0.0	0.0	158.24	*
				0.90238	56.66174	27.26878	0.00000	0.0	0.0	-0.0060007	0.0	0.0	158.24	*
				1.3536	56.24271	27.43607	0.00000	0.0	0.0	-0.0061513	0.0	0.0	158.24	*
				1.8048	55.82368	27.60336	0.00000	0.0	0.0	-0.0063115	0.0	0.0	158.24	*
				2.2559	55.40465	27.77065	0.00000	0.0	0.0	-0.0064813	0.0	0.0	158.24	*
				2.7071	54.98562	27.93794	0.00000	0.0	0.0	-0.0066602	0.0	0.0	158.24	*
				3.1583	54.56659	28.10523	0.00000	0.0	0.0	-0.0068481	0.0	0.0	158.24	*
				3.6095	54.14756	28.27252	0.00000	0.0	0.0	-0.0070447	0.0	0.0	158.24	*
				4.0607	53.72853	28.43981	0.00000	0.0	0.0	-0.0072497	0.0	0.0	158.24	*
				4.5119	53.30950	28.60710	0.00000	0.0	0.0	-0.0074627	0.0	0.0	158.24	*
		64	12S-01	0.0	56.42810	52.89730	0.00000	3.7909	1.5989	5.0168	3.2154	2.5668	344.27	*
				0.49308	56.90271	52.76362	0.00000	3.7190	1.8576	5.1399	3.0761	2.7963	344.27	*
				0.98615	57.37732	52.62994	0.00000	3.6014	2.1529	5.2424	2.8828	3.0487	344.27	*
				1.4792	57.85193	52.49626	0.00000	3.4320	2.4884	5.3228	2.6289	3.3257	344.27	*
				1.9723	58.32654	52.36258	0.00000	3.3011	2.9388	5.4738	2.3807	3.7237	344.27	*
				2.4654	58.80115	52.22890	0.00000	3.1467	3.4618	5.6381	2.0903	4.1852	344.27	*
				2.9585	59.27576	52.09522	0.00000	2.9461	4.0392	5.7948	1.7407	4.6866	344.27	*
				3.4515	59.75037	51.96154	0.00000	2.7001	4.6635	5.9431	1.3346	5.2209	344.27	*
				3.9446	60.22498	51.82786	0.00000	2.4132	5.3210	6.0822	0.88019	5.7759	344.27	*
				4.4377	60.69959	51.69418	0.00000	2.0940	5.9912	6.2104	0.39122	6.3346	344.27	*
				4.9308	61.17420	51.56050	0.00000	1.8622	6.4925	6.3190	0.032250	6.7542	344.27	*
				5.4238	61.64881	51.42682	0.00000	1.8920	6.5965	6.4064	0.032767	6.8624	344.27	*
				5.9169	62.12342	51.29314	0.00000	1.9219	6.7006	6.4944	0.033284	6.9707	344.27	*
				6.4100	62.59803	51.15946	0.00000	1.9663	6.8006	6.5981	0.048955	7.0790	344.27	*
				6.9031	63.07264	51.02578	0.00000	2.1873	6.8508	6.7258	0.24800	7.1872	344.27	*
				7.3962	63.54725	50.89210	0.00000	2.4062	6.9016	6.8491	0.44492	7.2955	344.27	*
				7.8892	64.02186	50.75842	0.00000	2.6229	6.9530	6.9686	0.63964	7.4037	344.27	*
				8.3823	64.49647	50.62474	0.00000	2.8376	7.0051	7.0849	0.83211	7.5120	344.27	*
				8.8754	64.97108	50.49106	0.00000	3.0500	7.0578	7.1983	1.0223	7.6204	344.27	*
				9.3685	65.44569	50.35738	0.00000	3.2601	7.1112	7.3093	1.2100	7.7288	344.27	*
				9.8615	65.92030	50.22370	0.00000	3.4679	7.1654	7.4182	1.3954	7.8372	344.27	*
				10.355	66.39491	50.09002	0.00000	3.6733	7.2202	7.5255	1.5782	7.9456	344.27	*
				10.848	66.86952	49.95634	0.00000	3.8761	7.2757	7.6489	1.7584	8.0541	344.27	*
				11.341	67.34413	49.82266	0.00000	4.0765	7.3320	7.8189	1.9360	8.1626	344.27	*
				11.834	67.81874	49.68898	0.00000	4.2742	7.3891	7.9872	2.1108	8.2712	344.27	*
				12.327	68.29335	49.55530	0.00000	4.4467	7.3684	8.1038	2.2824	8.2980	344.27	*
				12.820	68.76796	49.42162	0.00000	4.5605	7.1538	8.0951	2.4502	8.1223	344.27	*
				13.313	69.24257	49.28794	0.00000	4.6715	6.9400	8.0848	2.6150	7.9465	344.27	*
				13.806	69.71718	49.15426	0.00000	4.7795	6.7269	8.0732	2.7767	7.7707	344.27	*
				14.299	70.19179	49.02058	0.00000	4.8844	6.5146	8.0601	2.9353	7.5949	344.27	*
				14.792	70.66640	48.88690	0.00000	4.9862	6.3032	8.0456	3.0905	7.4189	344.27	*
		65	12S-02	0.0	70.66640	48.88690	0.00000	4.9862	6.3032	8.0456	-7.8018	1.9299	245.55	*
				0.47168	70.47116	48.45752	0.00000	4.7728	6.0815	7.7820	-7.5116	1.8274	245.55	*
				0.94336	70.27592	48.02815	0.00000	4.5622	5.8634	7.5001	-7.2259	1.7260	245.55	*
				1.4150	70.08067	47.59877	0.00000	4.3543	5.6487	7.2026	-6.9444	1.6256	245.55	*
				1.8867	69.88543	47.16940	0.00000	4.1491	5.4371	6.8921	-6.6668	1.5264	245.55	*
				2.3584	69.69019	46.74002	0.00000	3.9466	5.2283	6.5711	-6.3930	1.4284	245.55	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				2.8301	69.49495	46.31065	0.00000	3.7466	5.0222	6.2421	-6.1226	1.3317	245.55	*
				3.3018	69.29971	45.88128	0.00000	3.5491	4.8184	5.9073	-5.8553	1.2363	245.55	*
				3.7734	69.10447	45.45190	0.00000	3.3540	4.6168	5.5692	-5.5910	1.1422	245.55	*
				4.2451	68.90922	45.02253	0.00000	3.1613	4.4170	5.2296	-5.3294	1.0495	245.55	*
				4.7168	68.71398	44.59315	0.00000	2.9710	4.2188	4.8907	-5.0702	0.95824	245.55	*
				5.1885	68.51874	44.16378	0.00000	2.7829	4.0220	4.5542	-4.8132	0.86847	245.55	*
				5.6602	68.32350	43.73440	0.00000	2.5970	3.8263	4.2219	-4.5581	0.78023	245.55	*
		66	12S-03	0.0	68.32350	43.73440	0.00000	2.5970	3.8263	4.2219	-1.2512	-4.4519	161.53	*
				0.27923	68.05865	43.82285	0.00000	2.5480	3.9143	4.2263	-1.1769	-4.5199	161.53	*
				0.55846	67.79380	43.91130	0.00000	2.4980	4.0028	4.2549	-1.1015	-4.5879	161.53	*
				0.83769	67.52895	43.99975	0.00000	2.4471	4.0917	4.2832	-1.0250	-4.6561	161.53	*
				1.1169	67.26410	44.08820	0.00000	2.3951	4.1810	4.3113	-0.94734	-4.7244	161.53	*
		67	12S-04	0.0	67.26410	44.08820	0.00000	2.3951	4.1810	4.3113	-4.7618	0.73662	248.99	*
				0.43774	67.10714	43.67957	0.00000	2.2285	3.9795	4.0293	-4.5139	0.65339	248.99	*
				0.87548	66.95018	43.27094	0.00000	2.0636	3.7791	3.7535	-4.2678	0.57129	248.99	*
				1.3132	66.79322	42.86231	0.00000	1.9003	3.5797	3.4851	-4.0231	0.49035	248.99	*
				1.7510	66.63626	42.45368	0.00000	1.7386	3.3811	3.2250	-3.7796	0.41060	248.99	*
				2.1887	66.47930	42.04505	0.00000	1.5783	3.1830	2.9739	-3.5372	0.33206	248.99	*
				2.6264	66.32234	41.63642	0.00000	1.4195	2.9852	2.7325	-3.2957	0.25475	248.99	*
				3.0642	66.16538	41.22779	0.00000	1.2622	2.7875	2.5011	-3.0547	0.17871	248.99	*
				3.5019	66.00842	40.81916	0.00000	1.1061	2.5898	2.2800	-2.8142	0.10394	248.99	*
				3.9396	65.85146	40.41053	0.00000	0.95137	2.3918	2.0694	-2.5739	0.030482	248.99	*
				4.3774	65.69450	40.00190	0.00000	0.79785	2.1933	1.8691	-2.3335	-0.041657	248.99	*
		68	12S-05	0.0	65.69450	40.00190	0.00000	0.79785	2.1933	1.8691	0.046740	-2.3335	158.86	*
				0.49071	65.23740	40.17862	0.00000	0.69885	2.2672	1.8671	0.16573	-2.3667	158.86	*
				0.98014	64.78030	40.35534	0.00000	0.64952	2.2645	1.8557	0.21077	-2.3464	158.86	*
				1.4702	64.32320	40.53206	0.00000	0.64494	2.2486	1.8622	0.20929	-2.3298	158.86	*
				1.9603	63.86610	40.70879	0.00000	0.64020	2.2321	1.8683	0.20775	-2.3127	158.86	*
				2.4504	63.40900	40.88551	0.00000	0.63531	2.2150	1.8741	0.20616	-2.2950	158.86	*
				2.9404	62.95190	41.06223	0.00000	0.63025	2.1973	1.8795	0.20452	-2.2768	158.86	*
				3.4305	62.49480	41.23895	0.00000	0.62503	2.1791	1.8845	0.20283	-2.2579	158.86	*
				3.9206	62.03770	41.41567	0.00000	0.61965	2.1604	1.8891	0.20108	-2.2385	158.86	*
				4.4107	61.58060	41.59239	0.00000	0.61411	2.1411	1.8934	0.19928	-2.2185	158.86	*
				4.9007	61.12350	41.76911	0.00000	0.60841	2.1212	1.8973	0.19743	-2.1979	158.86	*
				5.3908	60.66640	41.94584	0.00000	0.60255	2.1008	1.9009	0.19553	-2.1767	158.86	*
				5.8809	60.20930	42.12256	0.00000	0.59653	2.0798	1.9041	0.19358	-2.1550	158.86	*
				6.3709	59.75220	42.29928	0.00000	0.59034	2.0582	1.9069	0.19157	-2.1326	158.86	*
				6.8610	59.29510	42.47600	0.00000	0.58400	2.0361	1.9094	0.18951	-2.1097	158.86	*
				7.3511	58.83800	42.65272	0.00000	0.57750	2.0134	1.9116	0.18740	-2.0862	158.86	*
				7.8412	58.38090	42.82944	0.00000	0.58252	1.9834	1.9149	0.17190	-2.0600	158.86	*
				8.3312	57.92380	43.00616	0.00000	0.61673	1.9300	1.9177	0.12072	-2.0225	158.86	*
				8.8213	57.46670	43.18289	0.00000	0.64895	1.8683	1.9138	0.068421	-1.9766	158.86	*
				9.3114	57.00960	43.35961	0.00000	0.67868	1.7992	1.9034	0.015781	-1.9229	158.86	*
				9.8014	56.55250	43.53633	0.00000	0.70546	1.7237	1.8865	-0.036420	-1.8621	158.86	*
				10.292	56.09540	43.71305	0.00000	0.72882	1.6427	1.8635	-0.087413	-1.7950	158.86	*
				10.782	55.63830	43.88977	0.00000	0.74833	1.5572	1.8345	-0.13645	-1.7223	158.86	*
				11.272	55.18120	44.06649	0.00000	0.76359	1.4681	1.7999	-0.18282	-1.6447	158.86	*
				11.762	54.72410	44.24321	0.00000	0.77423	1.3763	1.7600	-0.22584	-1.5629	158.86	*
				12.252	54.26700	44.41994	0.00000	0.77993	1.2827	1.7152	-0.26491	-1.4777	158.86	*
				12.742	53.80990	44.59666	0.00000	0.78042	1.1882	1.6659	-0.29945	-1.3897	158.86	*
				13.232	53.35280	44.77338	0.00000	0.77545	1.0935	1.6125	-0.32897	-1.2995	158.86	*
				13.722	52.89570	44.95010	0.00000	0.76483	0.99927	1.5556	-0.35303	-1.2078	158.86	*
		69	12S-06	0.0	52.89570	44.95010	0.00000	0.76483	0.99927	1.5556	1.2238	-0.29303	66.036	*
				0.48316	53.09194	45.39161	0.00000	0.87030	1.1067	1.7113	1.3648	-0.34577	66.036	*
				0.96632	53.28819	45.83312	0.00000	0.97830	1.2093	1.8741	1.5024	-0.40280	66.036	*
				1.4495	53.48443	46.27463	0.00000	1.0892	1.3066	2.0438	1.6364	-0.46461	66.036	*
				1.9326	53.68068	46.71614	0.00000	1.2034	1.3981	2.2201	1.7664	-0.53176	66.036	*
				2.4158	53.87692	47.15766	0.00000	1.3213	1.4833	2.4022	1.8921	-0.60489	66.036	*
				2.8990	54.07317	47.59917	0.00000	1.4434	1.5614	2.5895	2.0130	-0.68475	66.036	*
				3.3821	54.26941	48.04068	0.00000	1.5702	1.6315	2.7811	2.1286	-0.77216	66.036	*
				3.8653	54.46566	48.48219	0.00000	1.7023	1.6927	2.9757	2.2382	-0.86809	66.036	*
				4.3484	54.66190	48.92370	0.00000	1.8405	1.7436	3.1722	2.3408	-0.97365	66.036	*
				4.8316	54.85814	49.36521	0.00000	1.9854	1.7829	3.3691	2.4356	-1.0901	66.036	*
				5.3148	55.05439	49.80672	0.00000	2.1379	1.8087	3.5650	2.5212	-1.2189	66.036	*
				5.7979	55.25063	50.24823	0.00000	2.2989	1.8192	3.7581	2.5962	-1.3618	66.036	*
				6.2811	55.44688	50.68974	0.00000	2.4809	1.8204	3.9562	2.6711	-1.5276	66.036	*
				6.7642	55.64312	51.13126	0.00000	2.6999	1.8207	4.1714	2.7604	-1.7276	66.036	*
				7.2474	55.83937	51.57277	0.00000	2.9378	1.8021	4.3862	2.8400	-1.9525	66.036	*
				7.7306	56.03561	52.01428	0.00000	3.1970	1.7615	4.5994	2.9082	-2.2060	66.036	*
				8.2137	56.23186	52.45579	0.00000	3.4804	1.6951	4.8100	2.9626	-2.4919	66.036	*
				8.6969	56.42810	52.89730	0.00000	3.7909	1.5989	5.0168	3.0009	-2.8147	66.036	*
		70	14S-01	0.0	92.77120	50.75620	0.00000	11.119	-1.2854	12.193	11.178	-0.58016	356.38	*
				0.48973	93.25995	50.72525	0.00000	11.306	-1.1601	12.326	11.356	-0.44324	356.38	*
				0.97946	93.74870	50.69430	0.00000	11.480	-1.0253	12.460	11.522	-0.29772	356.38	*
				1.4692	94.23745	50.66335	0.00000	11.641	-0.88035	12.593	11.673	-0.14292	356.38	*
				1.9589	94.72620	50.63240	0.00000	11.786	-0.72442	12.723	11.809	0.021913	356.38	*
				2.4486	95.21495	50.60145	0.00000	11.916	-0.55660	12.849	11.928	0.19760	356.38	*
				2.9384	95.70370	50.57050	0.00000	12.029	-0.37592	12.968	12.029	0.38503	356.38	*
				3.4281	96.19245	50.53955	0.00000	12.122	-0.18128	13.078	12.110	0.58519	356.38	*
				3.9178	96.68120	50.50860	0.00000	12.140	0.029700	13.245	12.114	0.79685	356.38	*
				4.4076	97.16995	50.47765	0.00000	12.094	0.25802	13.459	12.053	1.0218	356.38	*
				4.8973	97.65870	50.44670	0.00000	12.023	0.50418	13.669	11.967	1.2630	356.38	*
				5.3870	98.14745	50.41575	0.00000	11.926	0.76974	13.877	11.854	1.5219	356.38	*
				5.8767	98.63620	50.38480	0.00000	11.800	1.0564	14.085	11.709	1.8000	356.38	*
		71	14S-02	0.0	98.63620	50.38480	0.00000	11.800	1.0564	14.085	-1.3480	11.770	268.58	*
				0.49211	98.62403	49.89284	0.00000	11.106	1.3565	13.518	-1.6308	11.069	268.58	*
				0.98421	98.61185	49.40089	0.00000	10.649	1.6572	13.115	-1.9202	10.605	268.58	*
				1.4763	98.59968	48.90893	0.00000	10.226	1.9320	12.717	-2.1844	10.176	268.58	*
				1.9684	98.58751	48.41697	0.00000	9.8149	2.1784	12.310	-2.4205	9.7580	268.58	*
				2.4605	98.57533	47.92502	0.00000	9.4149	2.3969	11.896	-2.6290	9.3527	268.58	*
				2.9526	98.56316	47.43306	0.00000	9.0264	2.5881	11.477	-2.8106	8.9597	268.58	*
				3.4448	98.55099	46.94110	0.00000	8.6495	2.7528	11.057	-2.9659	8.5788	268.58	*
				3.9369	98.53881	46.44915	0.00000	8.2839	2.8917	10.637	-3.0958	8.2099	268.58	*
				4.4290	98.52664	45.95719	0.00000	7.9295	3.0059	10.218	-3.2011	7.8527	268.58	*
				4.9211	98.51447	45.46523	0.00000	7.5859	3.0961	9.8022	-3.2828	7.5070	268.58	*
				5.4132	98.50229	44.97328	0.00000	7.2529	3.1635	9.3901	-3.3419	7.1725	268.58	*
				5.9053	98.49012	44.48132	0.00000	6.9302	3.2088	8.9824	-3.3793	6.8487	268.58	*
				6.3974	98.47795	43.98936	0.00000	6.6173	3.2332	8.5803	-3.3959	6.5353	268.58	*
				6.8895	98.46577	43.49741	0.00000	6.3140	3.2374	8.1845	-3.3927	6.2320	268.58	*
				7.3816	98.45360	43.00545	0.00000	6.0199	3.2226	7.7959	-3.3705	5.9383	268.58	*
				7.8737	98.44143	42.51349	0.00000	5.7345	3.1895	7.4154	-3.3304	5.6539	268.58	*
				8.3658	98.42925	42.02154	0.00000	5.4576	3.1390	7.0437	-3.2731	5.3783	268.58	*
				8.8579	98.41708	41.52958	0.00000	5.1887	3.0720	6.6817	-3.1994	5.1111	268.58	*
				9.3500	98.40491	41.03762	0.00000	4.9275	2.9892	6.3299	-3.1102	4.8520	268.58	*
				9.8421	98.39273	40.54567	0.00000	4.6736	2.8915	5.9890	-3.0062	4.6006	268.58	*
				10.334	98.38056	40.05371	0.00000	4.4267	2.7794	5.6593	-2.8880	4.3566	268.58	*
				10.826	98.36839	39.56175	0.00000	4.1864	2.6537	5.3414	-2.7565	4.1195	268.58	*
				11.318	98.35621	39.06980	0.00000	3.9524	2.5150	5.0353	-2.6120	3.8890	268.58	*
				11.811	98.34404	38.57784	0.00000	3.7244	2.3640	4.7414	-2.4554	3.6648	268.58	*
				12.303	98.33187	38.08588	0.00000	3.5021	2.2011	4.4594	-2.2871	3.4466	268.58	*
				12.795	98.31969	37.59393	0.00000	3.2853	2.0269	4.1895	-2.1076	3.2341	268.58	*
				13.287	98.30752	37.10197	0.00000	3.0786	1.8597	3.9311	-1.9353	3.0317	268.58	*
				13.779	98.29535	36.61001	0.00000	2.8891	1.7243	3.6840	-1.7952	2.8456	268.58	*
				14.271	98.28317	36.11806	0.00000	2.7045	1.5804	3.4474	-1.6468	2.6646	268.58	*
				14.763	98.27100	35.62610	0.00000	2.5248	1.4283	3.2208	-1.4903	2.4887	268.58	*
		72	14S-03	0.0	98.27100	35.62610	0.00000	2.5248	1.4283	3.2208	-2.4321	-1.5809	176.47	*
				0.43680	97.83503	35.65297	0.00000	2.5962	1.2708	3.2167	-2.5131	-1.4281	176.47	*
				0.87360	97.39906	35.67984	0.00000	2.6623	1.1154	3.2089	-2.5987	-1.2771	176.47	*
				1.3104	96.96309	35.70671	0.00000	2.7233	0.96236	3.1972	-2.6589	-1.1281	176.47	*
				1.7472	96.52711	35.73359	0.00000	2.7790	0.81181	3.1817	-2.7238	-0.98124	176.47	*
				2.1840	96.09114	35.76046	0.00000	2.8295	0.66386	3.1624	-2.7833	-0.83667	176.47	*
				2.6208	95.65517	35.78733	0.00000	2.8749	0.51861	3.1391	-2.8376	-0.69449	176.47	*
				3.0576	95.21920	35.81420	0.00000	2.9152	0.37615	3.1118	-2.8865	-0.55477	176.47	*
				3.4944	94.78323	35.84107	0.00000	2.9503	0.23656	3.0805	-2.9302	-0.41762	176.47	*
				3.9312	94.34726	35.86794	0.00000	2.9805	0.099922	3.0450	-2.9687	-0.28309	176.47	*
				4.3680	93.91129	35.89481	0.00000	3.0056	-0.033715	3.0052	-3.0020	-0.15125	176.47	*
				4.8048	93.47531	35.92169	0.00000	3.0259	-0.16430	2.9611	-3.0303	-0.022158	176.47	*
				5.2416	93.03934	35.94856	0.00000	3.0413	-0.29180	2.9124	-3.0535	0.10415	176.47	*
				5.6784	92.60337	35.97543	0.00000	3.0519	-0.41618	2.8591	-3.0717	0.22764	176.47	*
				6.1152	92.16740	36.00230	0.00000	3.0578	-0.53741	2.8009	-3.0851	0.34828	176.47	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
		73	14S-04	0.0	92.16740	36.00230	0.00000	3.0578	-0.53741	2.8009	0.84806	2.9866	275.88	*
				0.37863	92.20622	35.62567	0.00000	2.9168	-0.60276	2.6503	0.89861	2.8396	275.88	*
				0.75726	92.24503	35.24903	0.00000	2.7776	-0.67259	2.4990	0.95381	2.6940	275.88	*
				1.1359	92.28385	34.87240	0.00000	2.6406	-0.74556	2.3403	1.0123	2.5503	275.88	*
				1.5145	92.32267	34.49577	0.00000	2.5364	-0.71612	2.2113	0.97237	2.4496	275.88	*
				1.8931	92.36148	34.11913	0.00000	2.4349	-0.68746	2.0844	0.93346	2.3515	275.88	*
				2.2718	92.40030	33.74250	0.00000	2.3361	-0.65957	1.9593	0.89559	2.2562	275.88	*
		74	14S-05	0.0	92.40030	33.74250	0.00000	2.3361	-0.65957	1.9593	-2.2562	0.89562	185.88	*
				0.41939	91.98313	33.69950	0.00000	2.3513	-0.66386	1.9017	-2.2708	0.90145	185.88	*
				0.83877	91.56595	33.65650	0.00000	2.3624	-0.66700	1.8420	-2.2816	0.90570	185.88	*
				1.2582	91.14878	33.61350	0.00000	2.3695	-0.66900	1.7801	-2.2884	0.90842	185.88	*
				1.6775	90.73160	33.57050	0.00000	2.3726	-0.66990	1.7165	-2.2915	0.90964	185.88	*
				2.0969	90.31442	33.52750	0.00000	2.3720	-0.66970	1.6950	-2.2908	0.90937	185.88	*
				2.5163	89.89725	33.48450	0.00000	2.3675	-0.66844	1.6716	-2.2865	0.90765	185.88	*
				2.9357	89.48007	33.44150	0.00000	2.3593	-0.66613	1.6463	-2.2786	0.90452	185.88	*
				3.3551	89.06290	33.39850	0.00000	2.3475	-0.66279	1.6192	-2.2672	0.89999	185.88	*
				3.7745	88.64572	33.35550	0.00000	2.3321	-0.65846	1.5906	-2.2523	0.89410	185.88	*
				4.1939	88.22855	33.31250	0.00000	2.3133	-0.65313	1.5605	-2.2341	0.88688	185.88	*
				4.6132	87.81137	33.26950	0.00000	2.2910	-0.64685	1.5290	-2.2126	0.87834	185.88	*
				5.0326	87.39420	33.22650	0.00000	2.2654	-0.63962	1.4963	-2.1879	0.86852	185.88	*
		75	14S-06	0.0	87.39420	33.22650	0.00000	2.2654	-0.63962	1.4963	-2.0749	1.1118	192.42	*
				0.41438	86.98952	33.13740	0.00000	2.2262	-0.62855	1.4548	-2.0390	1.0925	192.42	*
				0.82875	86.58483	33.04830	0.00000	2.1946	-0.61963	1.4129	-2.0100	1.0770	192.42	*
				1.2431	86.18015	32.95920	0.00000	2.1698	-0.61261	1.3704	-1.9873	1.0648	192.42	*
				1.6575	85.77547	32.87010	0.00000	2.1428	-0.60500	1.3276	-1.9626	1.0516	192.42	*
				2.0719	85.37078	32.78100	0.00000	2.1138	-0.59681	1.2846	-1.9360	1.0374	192.42	*
				2.4863	84.96610	32.69190	0.00000	2.0828	-0.58806	1.2413	-1.9076	1.0221	192.42	*
		76	14S-07	0.0	84.96610	32.69190	0.00000	2.0828	-0.58806	1.2413	-0.81878	-2.0034	96.463	*
				0.45451	84.91494	33.14352	0.00000	2.1666	-0.61173	1.3100	-0.85174	-2.0840	96.463	*
				0.90902	84.86377	33.59514	0.00000	2.2488	-0.62465	1.4086	-0.87383	-2.1642	96.463	*
				1.3635	84.81261	34.04676	0.00000	2.3224	-0.60592	1.5801	-0.86350	-2.2394	96.463	*
				1.8180	84.76144	34.49839	0.00000	2.3969	-0.58867	1.7511	-0.85475	-2.3154	96.463	*
				2.2726	84.71028	34.95001	0.00000	2.4722	-0.57298	1.9224	-0.84763	-2.3920	96.463	*
				2.7271	84.65911	35.40163	0.00000	2.5482	-0.55891	2.0952	-0.84221	-2.4691	96.463	*
				3.1816	84.60795	35.85325	0.00000	2.6377	-0.55016	2.2701	-0.84359	-2.5590	96.463	*
				3.6361	84.55679	36.30487	0.00000	2.7315	-0.54422	2.4479	-0.84825	-2.6529	96.463	*
				4.0906	84.50562	36.75649	0.00000	2.8261	-0.54023	2.6294	-0.85493	-2.7473	96.463	*
				4.5451	84.45446	37.20811	0.00000	2.9214	-0.53828	2.8148	-0.86372	-2.8422	96.463	*
				4.9996	84.40329	37.65974	0.00000	3.0172	-0.53846	3.0048	-0.87468	-2.9374	96.463	*
				5.4541	84.35213	38.11136	0.00000	3.1134	-0.54088	3.1996	-0.88791	-3.0327	96.463	*
				5.9086	84.30096	38.56298	0.00000	3.2099	-0.54565	3.3994	-0.90352	-3.1280	96.463	*
				6.3631	84.24980	39.01460	0.00000	3.2964	-0.53533	3.6043	-0.90301	-3.2152	96.463	*
		77	14S-08	0.0	84.24980	39.01460	0.00000	3.2964	-0.53533	3.6043	3.2358	-0.82617	5.0987	*
				0.47266	84.72059	39.05661	0.00000	3.3772	-0.61248	3.6261	3.3094	-0.91019	5.0987	*
				0.94533	85.19139	39.09861	0.00000	3.4467	-0.66968	3.6458	3.3735	-0.97334	5.0987	*
				1.4180	85.66218	39.14062	0.00000	3.5147	-0.72440	3.6635	3.4364	-1.0339	5.0987	*
				1.8907	86.13297	39.18263	0.00000	3.5782	-0.77253	3.7243	3.4954	-1.0875	5.0987	*
				2.3633	86.60377	39.22463	0.00000	3.6392	-0.81683	3.7867	3.5522	-1.1370	5.0987	*
				2.8360	87.07456	39.26664	0.00000	3.6989	-0.85926	3.8472	3.6079	-1.1846	5.0987	*
				3.3086	87.54536	39.30864	0.00000	3.7573	-0.89974	3.9057	3.6625	-1.2301	5.0987	*
				3.7813	88.01615	39.35065	0.00000	3.8141	-0.93798	3.9671	3.7156	-1.2732	5.0987	*
				4.2540	88.48694	39.39266	0.00000	3.9037	-0.85457	4.0451	3.8123	-1.1981	5.0987	*
				4.7266	88.95774	39.43466	0.00000	3.9920	-0.76610	4.1171	3.9081	-1.1178	5.0987	*
				5.1993	89.42853	39.47667	0.00000	4.0788	-0.67243	4.1837	4.0029	-1.0323	5.0987	*
				5.6720	89.89933	39.51868	0.00000	4.1638	-0.57339	4.2451	4.0964	-0.94117	5.0987	*
				6.1446	90.37012	39.56068	0.00000	4.2469	-0.46883	4.3015	4.1884	-0.84440	5.0987	*
				6.6173	90.84091	39.60269	0.00000	4.3276	-0.35860	4.3530	4.2786	-0.74178	5.0987	*
				7.0900	91.31171	39.64469	0.00000	4.4058	-0.24253	4.3996	4.3668	-0.63312	5.0987	*
				7.5626	91.78250	39.68670	0.00000	4.4811	-0.12046	4.4412	4.4526	-0.51822	5.0987	*
		78	14S-09	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	4.4412	-0.53008	-4.4512	95.251	*
				0.45206	91.74112	40.13687	0.00000	4.6418	-0.089190	4.7051	-0.51366	-4.6142	95.251	*
				0.90413	91.69975	40.58703	0.00000	4.8042	-0.066521	4.9695	-0.50594	-4.7779	95.251	*
				1.3562	91.65838	41.03720	0.00000	4.9680	-0.052546	5.2348	-0.50702	-4.9424	95.251	*
				1.8083	91.61700	41.48737	0.00000	5.1333	-0.047345	5.5013	-0.51697	-5.1075	95.251	*
				2.2603	91.57563	41.93753	0.00000	5.3001	-0.050983	5.7690	-0.53586	-5.2732	95.251	*
				2.7124	91.53425	42.38770	0.00000	5.4683	-0.063508	6.0379	-0.56372	-5.4395	95.251	*
				3.1644	91.49287	42.83787	0.00000	5.6378	-0.084948	6.3079	-0.60058	-5.6063	95.251	*
				3.6165	91.45150	43.28803	0.00000	5.8085	-0.11531	6.5790	-0.64645	-5.7736	95.251	*
				4.0686	91.41012	43.73820	0.00000	5.9806	-0.15458	6.8508	-0.70130	-5.9413	95.251	*
				4.5206	91.36875	44.18837	0.00000	6.1550	-0.19847	7.1231	-0.76097	-6.1110	95.251	*
				4.9727	91.32738	44.63853	0.00000	6.3345	-0.23719	7.3955	-0.81596	-6.2862	95.251	*
				5.4248	91.28600	45.08870	0.00000	6.5147	-0.28607	7.6676	-0.88112	-6.4612	95.251	*
		79	14S-10	0.0	91.28600	45.08870	0.00000	6.5147	-0.28607	7.6676	6.4861	-0.67392	3.4176	*
				0.36863	91.65398	45.11068	0.00000	6.6270	-0.17838	7.7351	6.6046	-0.57311	3.4176	*
				0.73726	92.02195	45.13265	0.00000	6.7375	-0.065489	7.8049	6.7216	-0.46701	3.4176	*
				1.1059	92.38993	45.15463	0.00000	6.8458	0.052771	7.8768	6.8367	-0.35542	3.4176	*
				1.4745	92.75790	45.17660	0.00000	6.9517	0.17659	7.9506	6.9499	-0.23813	3.4176	*
		80	14S-11	0.0	92.75790	45.17660	0.00000	6.9517	0.17659	7.9506	0.19316	-6.9513	89.863	*
				0.46497	92.75901	45.64157	0.00000	7.1759	0.11668	8.2544	0.13379	-7.1756	89.863	*
				0.92994	92.76012	46.10653	0.00000	7.4035	0.044195	8.5574	0.061843	-7.4034	89.863	*
				1.3949	92.76122	46.57150	0.00000	7.6344	-0.040806	8.8592	-0.022608	-7.6345	89.863	*
				1.8599	92.76233	47.03647	0.00000	7.9850	-0.13745	9.2266	-0.11842	-7.9853	89.863	*
				2.3248	92.76344	47.50143	0.00000	8.3496	-0.24508	9.5990	-0.22518	-8.3501	89.863	*
				2.7898	92.76455	47.96640	0.00000	8.7224	-0.36353	9.9726	-0.34274	-8.7232	89.863	*
				3.2548	92.76566	48.43137	0.00000	9.1032	-0.49257	10.346	-0.47087	-9.1043	89.863	*
				3.7197	92.76677	48.89633	0.00000	9.4918	-0.63195	10.720	-0.60932	-9.4933	89.863	*
				4.1847	92.76788	49.36130	0.00000	9.8881	-0.78132	11.092	-0.75775	-9.8899	89.863	*
				4.6497	92.76898	49.82627	0.00000	10.292	-0.94032	11.462	-0.91579	-10.294	89.863	*
				5.1146	92.77009	50.29123	0.00000	10.702	-1.1085	11.829	-1.0830	-10.705	89.863	*
				5.5796	92.77120	50.75620	0.00000	11.119	-1.2854	12.193	-1.2589	-11.122	89.863	*
		81	14S-12	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	4.4412	0.58540	4.4443	275.96	*
				0.46306	91.83061	39.22615	0.00000	4.3189	-0.15976	4.1716	0.60763	4.2789	275.96	*
				0.92611	91.87873	38.76560	0.00000	4.1498	-0.20281	3.9208	0.63289	4.1063	275.96	*
				1.3892	91.92684	38.30505	0.00000	3.9607	-0.24044	3.7299	0.65066	3.9143	275.96	*
				1.8522	91.97495	37.84450	0.00000	3.7744	-0.28547	3.5412	0.67609	3.7243	275.96	*
				2.3153	92.02306	37.38395	0.00000	3.5910	-0.33780	3.3544	0.70908	3.5365	275.96	*
				2.7783	92.07117	36.92340	0.00000	3.4105	-0.39731	3.1691	0.74951	3.3507	275.96	*
				3.2414	92.11929	36.46285	0.00000	3.2327	-0.46389	2.9848	0.79727	3.1670	275.96	*
				3.7045	92.16740	36.00230	0.00000	3.0578	-0.53741	2.8009	0.85222	2.9854	275.96	*
		82	18S-01	0.0	81.33400	88.63190	0.00000	6.1698	-2.8620	5.5635	1.1414	-6.7048	55.454	*
				0.49752	81.61613	89.04169	0.00000	6.2437	-2.7857	5.4212	1.2462	-6.7224	55.454	*
				0.99503	81.89826	89.45148	0.00000	6.3137	-2.7089	5.2734	1.3491	-6.7366	55.454	*
				1.4926	82.18038	89.86127	0.00000	6.3758	-2.6348	5.1253	1.4453	-6.7456	55.454	*
				1.9901	82.46251	90.27106	0.00000	6.4135	-2.5771	5.0057	1.5142	-6.7440	55.454	*
				2.4876	82.74464	90.68084	0.00000	6.4450	-2.5201	4.8849	1.5791	-6.7376	55.454	*
				2.9851	83.02677	91.09063	0.00000	6.4704	-2.4635	4.7629	1.6401	-6.7264	55.454	*
				3.4826	83.30889	91.50042	0.00000	6.4899	-2.4070	4.6398	1.6977	-6.7104	55.454	*
				3.9801	83.59102	91.91021	0.00000	6.5036	-2.3503	4.5158	1.7522	-6.6896	55.454	*
				4.4777	83.87315	92.32000	0.00000	6.5118	-2.2932	4.3908	1.8039	-6.6640	55.454	*
				4.9752	84.15528	92.72979	0.00000	6.5147	-2.2354	4.2648	1.8531	-6.6336	55.454	*
				5.4727	84.43741	93.13958	0.00000	6.5063	-2.1876	4.1378	1.8877	-6.5996	55.454	*
				5.9702	84.71953	93.54937	0.00000	6.4640	-2.1903	4.0097	1.8615	-6.5662	55.454	*
				6.4677	85.00166	93.95916	0.00000	6.4168	-2.1916	3.8803	1.8336	-6.5281	55.454	*
				6.9652	85.28379	94.36894	0.00000	6.3650	-2.1916	3.7494	1.8042	-6.4854	55.454	*
				7.4628	85.56592	94.77873	0.00000	6.3086	-2.1903	3.6169	1.7733	-6.4383	55.454	*
				7.9603	85.84804	95.18852	0.00000	6.2480	-2.1877	3.4825	1.7411	-6.3869	55.454	*
				8.4578	86.13017	95.59831	0.00000	6.1832	-2.1838	3.3459	1.7076	-6.3313	55.454	*
				8.9553	86.41230	96.00810	0.00000	6.1145	-2.1786	3.2067	1.6729	-6.2717	55.454	*
		83	18S-02	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	3.2067	6.3052	1.5421	326.65	*
				0.48923	86.82094	95.73911	0.00000	6.3478	-2.2694	3.4022	6.5500	1.5945	326.65	*
				0.97846	87.22959	95.47012	0.00000	6.5821	-2.3602	3.6039	6.7957	1.6475	326.65	*
				1.4677	87.63823	95.20114	0.00000	6.8178	-2.4510	3.8118	7.0424	1.7012	326.65	*
				1.9569	88.04688	94.93215	0.00000	7.0549	-2.5419	4.0261	7.2904	1.7557	326.65	*
				2.4461	88.45552	94.66316	0.00000	7.3315	-2.6434	4.2469	7.5773	1.8230	326.65	*
				2.9354	88.86416	94.39418	0.00000	7.6367	-2.7525	4.4745	7.8922	1.8997	326.65	*
				3.4246	89.27281	94.12519	0.00000	7.9438	-2.8617	4.7087	8.2088	1.9774	326.65	*
				3.9138	89.68145	93.85620	0.00000	8.2532	-2.9709	4.9498	8.5272	2.0562	326.65	*
				4.4031	90.09009	93.58721	0.00000	8.5649	-3.0802	5.1976	8.8477	2.1364	326.65	*
				4.8923	90.49874	93.31822	0.00000	8.8792	-3.1895	5.4522	9.1703	2.2178	326.65	*
				5.3815	90.90738	93.04924	0.00000	9.1963	-3.2990	5.7219	9.4953	2.3007	326.65	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.8707	91.31602	92.78025	0.00000	9.5162	-3.4085	6.0112	9.8228	2.3851	326.65	*
				6.3600	91.72467	92.51126	0.00000	9.8383	-3.5182	6.3071	10.152	2.4706	326.65	*
				6.8492	92.13331	92.24228	0.00000	10.164	-3.6280	6.6093	10.485	2.5580	326.65	*
				7.3384	92.54196	91.97329	0.00000	10.494	-3.7380	6.9173	10.821	2.6475	326.65	*
				7.8276	92.95060	91.70430	0.00000	10.821	-3.8481	7.2418	11.155	2.7355	326.65	*
		84	18S-03	0.0	92.95060	91.70430	0.00000	10.821	-3.8481	7.2418	-2.7389	11.154	236.63	*
				0.35410	92.75582	91.40858	0.00000	10.950	-3.8572	7.3818	-2.8021	11.266	236.63	*
				0.70821	92.56103	91.11287	0.00000	11.067	-3.8651	7.5278	-2.8600	11.369	236.63	*
				1.0623	92.36625	90.81715	0.00000	11.180	-3.8720	7.6691	-2.9164	11.467	236.63	*
				1.4164	92.17147	90.52143	0.00000	11.289	-3.8779	7.8061	-2.9711	11.560	236.63	*
				1.7705	91.97668	90.22572	0.00000	11.392	-3.8826	7.9389	-3.0239	11.649	236.63	*
				2.1246	91.78190	89.93000	0.00000	11.490	-3.8863	8.0678	-3.0748	11.733	236.63	*
		85	18S-04	0.0	91.78190	89.93000	0.00000	11.490	-3.8863	8.0678	-11.722	-3.1171	146.42	*
				0.43664	91.41813	90.17150	0.00000	11.159	-3.7861	7.7690	-11.390	-3.0173	146.42	*
				0.87328	91.05435	90.41300	0.00000	10.832	-3.6862	7.4761	-11.063	-2.9202	146.42	*
				1.3099	90.69057	90.65450	0.00000	10.511	-3.5864	7.1892	-10.741	-2.8257	146.42	*
				1.7466	90.32680	90.89600	0.00000	10.195	-3.4868	6.9083	-10.422	-2.7338	146.42	*
		86	18S-05	0.0	90.32680	90.89600	0.00000	10.195	-3.4868	6.9083	-2.7735	10.412	236.20	*
				0.49179	90.05324	90.48731	0.00000	10.294	-3.4880	7.0705	-2.8277	10.495	236.20	*
				0.98359	89.77967	90.07863	0.00000	10.384	-3.4873	7.2283	-2.8780	10.569	236.20	*
				1.4754	89.50611	89.66994	0.00000	10.462	-3.4845	7.3824	-2.9239	10.632	236.20	*
				1.9672	89.23254	89.26126	0.00000	10.529	-3.4798	7.5333	-2.9653	10.686	236.20	*
				2.4590	88.95898	88.85257	0.00000	10.585	-3.4731	7.6816	-3.0018	10.728	236.20	*
				2.9508	88.68541	88.44389	0.00000	10.592	-3.4876	7.8277	-2.9934	10.742	236.20	*
				3.4426	88.41185	88.03520	0.00000	10.569	-3.5086	7.9722	-2.9633	10.734	236.20	*
				3.9344	88.13829	87.62651	0.00000	10.531	-3.5258	8.1156	-2.9281	10.713	236.20	*
				4.4261	87.86472	87.21783	0.00000	10.478	-3.5394	8.2586	-2.8873	10.676	236.20	*
				4.9179	87.59116	86.80914	0.00000	10.409	-3.5490	8.4021	-2.8406	10.624	236.20	*
				5.4097	87.31759	86.40046	0.00000	10.322	-3.5545	8.5452	-2.7877	10.555	236.20	*
				5.9015	87.04403	85.99177	0.00000	10.217	-3.5558	8.6885	-2.7282	10.468	236.20	*
				6.3933	86.77046	85.58309	0.00000	10.092	-3.5530	8.8322	-2.6615	10.363	236.20	*
				6.8851	86.49690	85.17440	0.00000	9.9695	-3.5854	8.9627	-2.5661	10.279	236.20	*
		87	20S-01	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	3.2067	-6.3169	-1.4932	147.09	*
				0.37387	86.09843	96.21123	0.00000	5.9373	-2.1093	3.0621	-6.1305	-1.4551	147.09	*
				0.74773	85.78457	96.41437	0.00000	5.7605	-2.0399	2.9207	-5.9444	-1.4173	147.09	*
				1.1216	85.47070	96.61750	0.00000	5.5840	-1.9706	2.7826	-5.7586	-1.3796	147.09	*
				1.4955	85.15683	96.82063	0.00000	5.4079	-1.9013	2.6476	-5.5730	-1.3421	147.09	*
				1.8693	84.84297	97.02377	0.00000	5.2320	-1.8319	2.5155	-5.3877	-1.3048	147.09	*
				2.2432	84.52910	97.22690	0.00000	5.0562	-1.7626	2.3863	-5.2024	-1.2674	147.09	*
		88	20S-02	0.0	84.52910	97.22690	0.00000	5.0562	-1.7626	2.3863	1.3085	-5.1922	56.637	*
				0.44166	84.77199	97.59577	0.00000	5.0010	-1.7557	2.2688	1.2840	-5.1424	56.637	*
				0.88331	85.01487	97.96464	0.00000	4.9438	-1.7478	2.1493	1.2591	-5.0902	56.637	*
				1.3250	85.25776	98.33351	0.00000	4.8826	-1.7389	2.0365	1.2329	-5.0343	56.637	*
				1.7666	85.50064	98.70239	0.00000	4.8030	-1.7291	2.0045	1.1973	-4.9624	56.637	*
				2.2083	85.74353	99.07126	0.00000	4.7212	-1.7183	1.9712	1.1613	-4.8881	56.637	*
				2.6499	85.98641	99.44013	0.00000	4.6374	-1.7065	1.9368	1.1250	-4.8117	56.637	*
				3.0916	86.22930	99.80900	0.00000	4.5518	-1.6939	1.9013	1.0885	-4.7332	56.637	*
				3.5332	86.47218	100.17787	0.00000	4.4644	-1.6802	1.8648	1.0518	-4.6527	56.637	*
				3.9749	86.71507	100.54674	0.00000	4.3753	-1.6656	1.8273	1.0150	-4.5703	56.637	*
				4.4166	86.95796	100.91561	0.00000	4.2848	-1.6501	1.7889	0.97823	-4.4862	56.637	*
				4.8582	87.20084	101.28449	0.00000	4.1930	-1.6337	1.7497	0.94146	-4.4004	56.637	*
				5.2999	87.44373	101.65336	0.00000	4.0999	-1.6163	1.7097	0.90480	-4.3131	56.637	*
				5.7415	87.68661	102.02223	0.00000	4.0058	-1.5980	1.6691	0.86832	-4.2244	56.637	*
				6.1832	87.92950	102.39110	0.00000	3.9107	-1.5788	1.6278	0.83208	-4.1345	56.637	*
		89	20S-03	0.0	87.92950	102.39110	0.00000	3.9107	-1.5788	1.6278	4.1345	0.83206	326.64	*
				0.45803	88.31205	102.13921	0.00000	4.0734	-1.6615	1.7424	4.3158	0.85246	326.64	*
				0.91605	88.69459	101.88733	0.00000	4.2348	-1.7441	1.8615	4.4961	0.87219	326.64	*
				1.3741	89.07714	101.63544	0.00000	4.3949	-1.8267	1.9853	4.6752	0.89123	326.64	*
				1.8321	89.45968	101.38355	0.00000	4.5535	-1.9093	2.1138	4.8531	0.90955	326.64	*
				2.2901	89.84223	101.13167	0.00000	4.7107	-1.9917	2.2474	5.0298	0.92712	326.64	*
				2.7482	90.22477	100.87978	0.00000	4.8664	-2.0742	2.3861	5.2051	0.94391	326.64	*
				3.2062	90.60732	100.62790	0.00000	5.0206	-2.1565	2.5300	5.3792	0.95989	326.64	*
				3.6642	90.98986	100.37601	0.00000	5.1731	-2.2388	2.6792	5.5518	0.97504	326.64	*
				4.1222	91.37241	100.12412	0.00000	5.3239	-2.3210	2.8337	5.7230	0.98931	326.64	*
				4.5803	91.75495	99.87224	0.00000	5.4730	-2.4032	2.9936	5.8927	1.0027	326.64	*
				5.0383	92.13750	99.62035	0.00000	5.6410	-2.4911	3.1589	6.0814	1.0216	326.64	*
				5.4963	92.52005	99.36846	0.00000	5.8347	-2.5868	3.3295	6.2958	1.0483	326.64	*
				5.9543	92.90259	99.11658	0.00000	6.0262	-2.6823	3.5055	6.5082	1.0738	326.64	*
				6.4124	93.28514	98.86469	0.00000	6.2154	-2.7776	3.6867	6.7187	1.0982	326.64	*
				6.8704	93.66768	98.61280	0.00000	6.4022	-2.8728	3.8731	6.9270	1.1214	326.64	*
				7.3284	94.05023	98.36092	0.00000	6.5864	-2.9679	4.0645	7.1332	1.1434	326.64	*
				7.7864	94.43277	98.10903	0.00000	6.7682	-3.0628	4.2608	7.3371	1.1640	326.64	*
				8.2445	94.81532	97.85715	0.00000	6.9472	-3.1575	4.4862	7.5388	1.1834	326.64	*
				8.7025	95.19786	97.60526	0.00000	7.1235	-3.2521	4.7263	7.7380	1.2014	326.64	*
				9.1605	95.58041	97.35337	0.00000	7.2970	-3.3465	4.9711	7.9348	1.2179	326.64	*
				9.6185	95.96295	97.10149	0.00000	7.4674	-3.4407	5.2205	8.1290	1.2329	326.64	*
				10.077	96.34550	96.84960	0.00000	7.6347	-3.5348	5.4741	8.3205	1.2463	326.64	*
		90	20S-04	0.0	96.34550	96.84960	0.00000	7.6347	-3.5348	5.4741	-1.2463	8.3205	236.64	*
				0.44039	96.10331	96.48179	0.00000	7.8732	-3.5664	5.6209	-1.3511	8.5370	236.64	*
				0.88078	95.86113	96.11397	0.00000	8.1114	-3.5966	5.7655	-1.4569	8.7527	236.64	*
				1.3212	95.61894	95.74616	0.00000	8.3492	-3.6256	5.9077	-1.5634	8.9671	236.64	*
				1.7616	95.37676	95.37834	0.00000	8.5860	-3.6532	6.0472	-1.6706	9.1801	236.64	*
				2.2019	95.13457	95.01053	0.00000	8.8216	-3.6795	6.1839	-1.7782	9.3913	236.64	*
				2.6423	94.89239	94.64271	0.00000	9.0555	-3.7043	6.3174	-1.8861	9.6004	236.64	*
				3.0827	94.65020	94.27490	0.00000	9.2875	-3.7277	6.4476	-1.9942	9.8070	236.64	*
				3.5231	94.40801	93.90709	0.00000	9.5172	-3.7497	6.5742	-2.1021	10.011	236.64	*
				3.9635	94.16583	93.53927	0.00000	9.7442	-3.7702	6.6970	-2.2098	10.212	236.64	*
				4.4039	93.92364	93.17146	0.00000	9.9681	-3.7891	6.8158	-2.3171	10.409	236.64	*
				4.8443	93.68146	92.80364	0.00000	10.188	-3.8066	6.9303	-2.4238	10.603	236.64	*
				5.2847	93.43927	92.43583	0.00000	10.405	-3.8225	7.0404	-2.5296	10.793	236.64	*
				5.7250	93.19709	92.06801	0.00000	10.618	-3.8368	7.1458	-2.6345	10.978	236.64	*
				6.1654	92.95490	91.70020	0.00000	10.825	-3.8495	7.2463	-2.7382	11.158	236.64	*
		91	20S-05	0.0	87.93150	102.38980	0.00000	3.9116	-1.5792	1.6284	0.84650	-4.1325	56.438	*
				0.43506	88.17202	102.75233	0.00000	3.8176	-1.5597	1.5877	0.81085	-4.0434	56.438	*
				0.87012	88.41253	103.11487	0.00000	3.7230	-1.5392	1.5464	0.77554	-3.9533	56.438	*
				1.3052	88.65305	103.47740	0.00000	3.6277	-1.5179	1.5048	0.74064	-3.8621	56.438	*
				1.7402	88.89357	103.83993	0.00000	3.5321	-1.4958	1.4629	0.70621	-3.7702	56.438	*
				2.1753	89.13408	104.20247	0.00000	3.4360	-1.4728	1.4207	0.67230	-3.6774	56.438	*
				2.6104	89.37460	104.56500	0.00000	3.3398	-1.4489	1.3783	0.63897	-3.5841	56.438	*
		92	20S-06	0.0	89.37460	104.56500	0.00000	3.3398	-1.4489	1.3783	3.6145	0.43499	329.68	*
				0.45769	89.76970	104.33398	0.00000	3.4718	-1.5285	1.4741	3.7686	0.43294	329.68	*
				0.91538	90.16481	104.10295	0.00000	3.6015	-1.6079	1.5730	3.9207	0.42984	329.68	*
				1.3731	90.55991	103.87193	0.00000	3.7288	-1.6872	1.6752	4.0706	0.42565	329.68	*
				1.8308	90.95502	103.64091	0.00000	3.8537	-1.7664	1.7808	4.2183	0.42033	329.68	*
				2.2884	91.35012	103.40989	0.00000	3.9760	-1.8454	1.8898	4.3638	0.41384	329.68	*
				2.7461	91.74523	103.17886	0.00000	4.0957	-1.9243	2.0024	4.5069	0.40615	329.68	*
				3.2038	92.14033	102.94784	0.00000	4.2126	-2.0030	2.1187	4.6476	0.39719	329.68	*
				3.6615	92.53544	102.71682	0.00000	4.3267	-2.0816	2.2385	4.7858	0.38694	329.68	*
				4.1192	92.93054	102.48580	0.00000	4.4378	-2.1600	2.3619	4.9213	0.37534	329.68	*
				4.5769	93.32565	102.25477	0.00000	4.5459	-2.2383	2.4890	5.0541	0.36235	329.68	*
				5.0346	93.72075	102.02375	0.00000	4.6508	-2.3164	2.6196	5.1841	0.34790	329.68	*
				5.4923	94.11585	101.79273	0.00000	4.7557	-2.3952	2.7536	5.3144	0.33280	329.68	*
				5.9500	94.51096	101.56170	0.00000	4.8954	-2.4846	2.8911	5.4802	0.32613	329.68	*
				6.4076	94.90606	101.33068	0.00000	5.0311	-2.5737	3.0318	5.6423	0.31770	329.68	*
				6.8653	95.30117	101.09966	0.00000	5.1626	-2.6625	3.1757	5.8005	0.30744	329.68	*
				7.3230	95.69627	100.86864	0.00000	5.2896	-2.7509	3.3224	5.9549	0.29529	329.68	*
				7.7807	96.09138	100.63761	0.00000	5.4122	-2.8389	3.4720	6.1051	0.28118	329.68	*
				8.2384	96.48648	100.40659	0.00000	5.5300	-2.9265	3.6241	6.2510	0.26502	329.68	*
				8.6961	96.88159	100.17557	0.00000	5.6430	-3.0137	3.7822	6.3926	0.24675	329.68	*
				9.1538	97.27669	99.94455	0.00000	5.7509	-3.1005	3.9786	6.5296	0.22627	329.68	*
				9.6115	97.67180	99.71352	0.00000	5.8536	-3.1869	4.1774	6.6618	0.20350	329.68	*
				10.069	98.06690	99.48250	0.00000	5.9508	-3.2729	4.3783	6.7891	0.17834	329.68	*
		93	20S-07	0.0	98.06690	99.48250	0.00000	5.9508	-3.2729	4.3783	-0.53894	6.7700	236.64	*
				0.39321	97.85066	99.15409	0.00000	6.1567	-3.3085	4.5171	-0.62248	6.9616	236.64	*
				0.78642	97.63443	98.82568	0.00000	6.3642	-3.3432	4.6556	-0.70758	7.1540	236.64	*
				1.1796	97.41819	98.49726	0.00000	6.5731	-3.3771	4.7934	-0.79416	7.3471	236.64	*
				1.5728	97.20195	98.16885	0.00000	6.7832	-3.4101	4.9305	-0.88213	7.5407	236.64	*
				1.9660	96.98571	97.84044	0.00000	6.9942	-3.4422	5.0668	-0.97139	7.7346	236.64	*
				2.3593	96.76947	97.51202	0.00000	7.2060	-3.4733	5.2019	-1.0618	7.9286	236.64	*
				2.7525	96.55324	97.18361	0.00000	7.4183	-3.5035	5.3359	-1.1534	8.1226	236.64	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				3.1457	96.33700	96.85520	0.00000	7.6310	-3.5327	5.4684	-1.2460	8.3162	236.64	*
		94	HT-01	0.0	89.37270	104.57010	0.00000	3.3378	-1.4480	1.3771	-3.6102	-0.45160	149.42	*
				0.28136	89.13047	104.71325	0.00000	3.2552	-1.3989	1.3195	-3.5141	-0.45183	149.42	*
				0.56273	88.88825	104.85640	0.00000	3.1718	-1.3498	1.2631	-3.4174	-0.45168	149.42	*
				0.84409	88.64603	104.99955	0.00000	3.0877	-1.3007	1.2077	-3.3199	-0.45116	149.42	*
				1.1255	88.40380	105.14270	0.00000	3.0027	-1.2515	1.1532	-3.2218	-0.45028	149.42	*
		95	HT-02	0.0	88.40380	105.14270	0.00000	3.0027	-1.2515	1.1532	0.41376	-3.2267	60.067	*
				0.47611	88.64137	105.55530	0.00000	2.8987	-1.2200	1.1075	0.38913	-3.1208	60.067	*
				0.95221	88.87894	105.96789	0.00000	2.7951	-1.1876	1.0620	0.36551	-3.0148	60.067	*
				1.4283	89.11652	106.38049	0.00000	2.6919	-1.1543	1.0167	0.34294	-2.9088	60.067	*
				1.9044	89.35409	106.79309	0.00000	2.5895	-1.1200	0.97177	0.32148	-2.8030	60.067	*
				2.3805	89.59166	107.20569	0.00000	2.4878	-1.0849	0.92720	0.30117	-2.6973	60.067	*
				2.8566	89.82923	107.61828	0.00000	2.3869	-1.0489	0.88304	0.28206	-2.5919	60.067	*
				3.3327	90.06681	108.03088	0.00000	2.2870	-1.0120	0.83932	0.26419	-2.4869	60.067	*
				3.8088	90.30438	108.44348	0.00000	2.1882	-0.97426	0.79608	0.24760	-2.3825	60.067	*
				4.2850	90.54195	108.85608	0.00000	2.0906	-0.93567	0.75333	0.23233	-2.2786	60.067	*
				4.7611	90.77952	109.26867	0.00000	1.9942	-0.89624	0.71111	0.21841	-2.1754	60.067	*
				5.2372	91.01709	109.68127	0.00000	1.8992	-0.85599	0.66943	0.20588	-2.0730	60.067	*
				5.7133	91.25467	110.09387	0.00000	1.8056	-0.81493	0.62828	0.19477	-1.9714	60.067	*
				6.1894	91.49224	110.50646	0.00000	1.7245	-0.77794	0.58943	0.18634	-1.8826	60.067	*
				6.6655	91.72981	110.91906	0.00000	1.6469	-0.74083	0.55142	0.17976	-1.7968	60.067	*
				7.1416	91.96738	111.33166	0.00000	1.5700	-0.70233	0.51376	0.17475	-1.7110	60.067	*
				7.6177	92.20496	111.74426	0.00000	1.4939	-0.66244	0.47646	0.17135	-1.6252	60.067	*
				8.0938	92.44253	112.15685	0.00000	1.4186	-0.62117	0.43947	0.16957	-1.5393	60.067	*
				8.5699	92.68010	112.56945	0.00000	1.3443	-0.57851	0.40277	0.16943	-1.4536	60.067	*
				9.0460	92.91767	112.98205	0.00000	1.2708	-0.53447	0.36631	0.17096	-1.3680	60.067	*
				9.5221	93.15524	113.39464	0.00000	1.1984	-0.48906	0.33005	0.17418	-1.2826	60.067	*
				9.9982	93.39282	113.80724	0.00000	1.1270	-0.44227	0.29392	0.17909	-1.1974	60.067	*
				10.474	93.63039	114.21984	0.00000	1.0566	-0.39411	0.25787	0.18571	-1.1124	60.067	*
				10.950	93.86796	114.63244	0.00000	0.98738	-0.34459	0.22181	0.19407	-1.0276	60.067	*
				11.427	94.10553	115.04503	0.00000	0.91924	-0.29372	0.18565	0.20415	-0.94319	60.067	*
				11.903	94.34311	115.45763	0.00000	0.85226	-0.24150	0.14931	0.21599	-0.85908	60.067	*
				12.379	94.58068	115.87023	0.00000	0.78647	-0.22205	0.13502	0.20001	-0.79237	60.067	*
				12.855	94.81825	116.28283	0.00000	0.72190	-0.20382	0.12513	0.18359	-0.72730	60.067	*
				13.331	95.05582	116.69542	0.00000	0.65855	-0.18594	0.11535	0.16748	-0.66349	60.067	*
				13.807	95.29339	117.10802	0.00000	0.59647	-0.16841	0.10563	0.15169	-0.60094	60.067	*
				14.283	95.53097	117.52062	0.00000	0.53567	-0.15124	0.095950	0.13623	-0.53968	60.067	*
				14.759	95.76854	117.93321	0.00000	0.47616	-0.13444	0.086257	0.12109	-0.47973	60.067	*
				15.235	96.00611	118.34581	0.00000	0.41797	-0.11801	0.076514	0.10629	-0.42110	60.067	*
				15.712	96.24368	118.75841	0.00000	0.36110	-0.10195	0.066680	0.091832	-0.36381	60.067	*
				16.188	96.48126	119.17101	0.00000	0.30558	-0.086278	0.056714	0.077713	-0.30787	60.067	*
				16.664	96.71883	119.58360	0.00000	0.25142	-0.070985	0.046572	0.063938	-0.25330	60.067	*
				17.140	96.95640	119.99620	0.00000	0.19861	-0.056077	0.036214	0.050510	-0.20010	60.067	*
		96	HT-03	0.0	96.95640	119.99620	0.00000	0.19861	-0.056077	0.036214	0.20008	0.050615	330.04	*
				0.48235	97.37429	119.75529	0.00000	0.26241	-0.074089	0.047229	0.26434	0.066872	330.04	*
				0.96471	97.79217	119.51438	0.00000	0.32389	-0.091447	0.057085	0.32627	0.082540	330.04	*
				1.4471	98.21006	119.27347	0.00000	0.38301	-0.10814	0.065968	0.38583	0.097606	330.04	*
				1.9294	98.62795	119.03256	0.00000	0.43973	-0.12415	0.074046	0.44296	0.11206	330.04	*
				2.4118	99.04583	118.79165	0.00000	0.49399	-0.13947	0.081475	0.49763	0.12589	330.04	*
				2.8941	99.46372	118.55075	0.00000	0.54576	-0.15409	0.088396	0.54978	0.13908	330.04	*
				3.3765	99.88160	118.30984	0.00000	0.59498	-0.16799	0.094935	0.59936	0.15162	330.04	*
				3.8588	100.29949	118.06893	0.00000	0.64161	-0.22048	0.12627	0.66598	0.12943	330.04	*
				4.3412	100.71738	117.82802	0.00000	0.68560	-0.30131	0.16604	0.74445	0.081380	330.04	*
				4.8235	101.13526	117.58711	0.00000	0.72689	-0.38232	0.20368	0.82069	0.031817	330.04	*
				5.3059	101.55315	117.34620	0.00000	0.76544	-0.46353	0.23940	0.89464	-0.019280	330.04	*
				5.7883	101.97104	117.10529	0.00000	0.80120	-0.54492	0.27338	0.96627	-0.071933	330.04	*
				6.2706	102.38892	116.86438	0.00000	0.83410	-0.62649	0.30580	1.0355	-0.12617	330.04	*
				6.7530	102.80681	116.62347	0.00000	0.86412	-0.70825	0.33683	1.1024	-0.18201	330.04	*
				7.2353	103.22470	116.38256	0.00000	0.89118	-0.79018	0.36660	1.1667	-0.23948	330.04	*
				7.7177	103.64258	116.14165	0.00000	0.91524	-0.87229	0.39524	1.2286	-0.29860	330.04	*
				8.2000	104.06047	115.90075	0.00000	0.93625	-0.95458	0.42286	1.2879	-0.35940	330.04	*
				8.6824	104.47835	115.65984	0.00000	0.95415	-1.0370	0.44957	1.3446	-0.42189	330.04	*
				9.1647	104.89624	115.41893	0.00000	0.96889	-1.1197	0.47546	1.3986	-0.48611	330.04	*
				9.6471	105.31413	115.17802	0.00000	0.98042	-1.2024	0.50059	1.4499	-0.55207	330.04	*
				10.129	105.73201	114.93711	0.00000	0.98869	-1.2854	0.52502	1.4985	-0.61979	330.04	*
				10.612	106.14990	114.69620	0.00000	0.99364	-1.3685	0.54880	1.5443	-0.68929	330.04	*
		97	HT-04	0.0	106.14990	114.69620	0.00000	0.99364	-1.3685	0.54880	0.68739	1.5452	239.97	*
				0.47693	105.91119	114.28331	0.00000	1.0641	-1.4454	0.59385	0.71874	1.6447	239.97	*
				0.95385	105.67248	113.87042	0.00000	1.1373	-1.5209	0.64135	0.74740	1.7458	239.97	*
				1.4308	105.43377	113.45753	0.00000	1.2133	-1.5947	0.69141	0.77331	1.8485	239.97	*
				1.907	105.19507	113.04464	0.00000	1.2919	-1.6669	0.74417	0.79645	1.9528	239.97	*
				2.3846	104.95636	112.63176	0.00000	1.3734	-1.7375	0.79974	0.81676	2.0586	239.97	*
				2.8616	104.71765	112.21887	0.00000	1.4577	-1.8063	0.85819	0.83420	2.1660	239.97	*
				3.3385	104.47894	111.80598	0.00000	1.5448	-1.8735	0.91963	0.84875	2.2751	239.97	*
				3.8154	104.24023	111.39309	0.00000	1.6347	-1.9389	0.98412	0.86036	2.3857	239.97	*
				4.2923	104.00153	110.98020	0.00000	1.7276	-2.0026	1.0517	0.86900	2.4979	239.97	*
				4.7693	103.76282	110.56731	0.00000	1.8233	-2.0644	1.1225	0.87463	2.6118	239.97	*
				5.2462	103.52411	110.15442	0.00000	1.9220	-2.1244	1.1964	0.87721	2.7272	239.97	*
				5.7231	103.28540	109.74153	0.00000	2.0235	-2.1826	1.2735	0.87672	2.8443	239.97	*
				6.2000	103.04669	109.32864	0.00000	2.1281	-2.2389	1.3539	0.87313	2.9629	239.97	*
				6.6770	102.80798	108.91576	0.00000	2.2355	-2.2932	1.4375	0.86640	3.0831	239.97	*
				7.1539	102.56928	108.50287	0.00000	2.3459	-2.3456	1.5243	0.85652	3.2050	239.97	*
				7.6308	102.33057	108.08998	0.00000	2.4593	-2.3961	1.6143	0.84345	3.3283	239.97	*
				8.1078	102.09186	107.67709	0.00000	2.5756	-2.4445	1.7075	0.82719	3.4533	239.97	*
				8.5847	101.85315	107.26420	0.00000	2.6948	-2.4910	1.8038	0.80771	3.5797	239.97	*
				9.0616	101.61444	106.85131	0.00000	2.8202	-2.5363	1.9031	0.78415	3.7110	239.97	*
				9.5385	101.37573	106.43842	0.00000	2.9615	-2.5832	2.0055	0.75404	3.8568	239.97	*
				10.015	101.13702	106.02553	0.00000	3.1062	-2.6281	2.1107	0.72054	4.0045	239.97	*
				10.492	100.89832	105.61264	0.00000	3.2542	-2.6711	2.2188	0.68365	4.1542	239.97	*
				10.969	100.65961	105.19976	0.00000	3.4056	-2.7121	2.3296	0.64337	4.3058	239.97	*
				11.446	100.42090	104.78687	0.00000	3.5603	-2.7511	2.4431	0.59972	4.4592	239.97	*
				11.923	100.18219	104.37398	0.00000	3.7182	-2.7881	2.5590	0.55271	4.6144	239.97	*
				12.400	99.94348	103.96109	0.00000	3.8792	-2.8230	2.6774	0.50235	4.7713	239.97	*
				12.877	99.70477	103.54820	0.00000	4.0433	-2.8559	2.7980	0.44868	4.9298	239.97	*
				13.354	99.46607	103.13531	0.00000	4.2103	-2.8866	2.9207	0.39173	5.0898	239.97	*
				13.831	99.22736	102.72242	0.00000	4.3802	-2.9153	3.0453	0.33153	5.2512	239.97	*
				14.308	98.98865	102.30953	0.00000	4.5529	-2.9419	3.1718	0.26814	5.4140	239.97	*
				14.785	98.74994	101.89664	0.00000	4.7281	-2.9664	3.2998	0.20160	5.5780	239.97	*
				15.262	98.51123	101.48376	0.00000	4.9059	-2.9887	3.4313	0.13197	5.7431	239.97	*
				15.739	98.27253	101.07087	0.00000	5.0860	-3.0090	3.5810	0.059328	5.9091	239.97	*
				16.216	98.03382	100.65798	0.00000	5.3140	-3.0548	3.7487	-0.015094	6.1294	239.97	*
				16.692	97.79511	100.24509	0.00000	5.5532	-3.1042	3.9201	-0.092066	6.3612	239.97	*
				17.169	97.55640	99.83220	0.00000	5.7958	-3.1525	4.0920	-0.17169	6.5955	239.97	*
		98	22S-01	0.0	111.36030	124.06920	0.00000	0.040412	-0.011410	0.021837	0.041917	0.0025016	340.82	*
				0.47735	111.81115	123.91236	0.00000	0.044480	-0.012559	0.023429	0.046137	0.0027535	340.82	*
				0.95470	112.26200	123.75551	0.00000	0.046852	-0.013228	0.024716	0.048597	0.0029003	340.82	*
				1.4321	112.71285	123.59867	0.00000	0.047553	-0.013426	0.025726	0.049324	0.0029437	340.82	*
				1.9094	113.16370	123.44183	0.00000	0.046611	-0.013160	0.026486	0.048347	0.0028853	340.82	*
				2.3868	113.61455	123.28499	0.00000	0.044055	-0.012439	0.027019	0.045696	0.0027272	340.82	*
				2.8641	114.06540	123.12814	0.00000	0.039918	-0.011270	0.027344	0.041405	0.0024710	340.82	*
				3.3415	114.51625	122.97130	0.00000	0.034231	-0.0096648	0.027480	0.035506	0.0021190	340.82	*
				3.8188	114.96710	122.81446	0.00000	0.027031	-0.0076319	0.027444	0.028038	0.0016733	340.82	*
				4.2962	115.41795	122.65761	0.00000	0.018354	-0.0051822	0.027250	0.019038	0.0011362	340.82	*
				4.7735	115.86880	122.50077	0.00000	0.0082402	-0.0023265	0.026910	0.0085471	510.09E-6	340.82	*
				5.2509	116.31965	122.34393	0.00000	0.0	0.0	0.026973	0.0	0.0	340.82	*
				5.7282	116.77050	122.18709	0.00000	0.0	0.0	0.028445	0.0	0.0	340.82	*
				6.2056	117.22135	122.03024	0.00000	0.0	0.0	0.029948	0.0	0.0	340.82	*
				6.6829	117.67220	121.87340	0.00000	0.0	0.0	0.031483	0.0	0.0	340.82	*
		99	22S-02	0.0	117.67220	121.87340	0.00000	0.0	0.0	0.031483	0.0	0.0	250.79	*
				0.49713	117.50862	121.40396	0.00000	0.0	0.0	0.034327	0.0	0.0	250.79	*
				0.99425	117.34504	120.93452	0.00000	8.0710E-6	-0.095302	0.063264	0.089993	0.031367	250.79	*
				1.4914	117.18146	120.46507	0.00000	19.062E-6	-0.22508	0.089334	0.21254	0.074082	250.79	*
				1.9885	117.01788	119.99563	0.00000	30.000E-6	-0.35424	0.11259	0.33450	0.11659	250.79	*
				2.4856	116.85430	119.52619	0.00000	40.884E-6	-0.48276	0.13355	0.45587	0.15889	250.79	*
				2.9828	116.69073	119.05675	0.00000	51.716E-6	-0.61066	0.15269	0.57664	0.20099	250.79	*
				3.4799	116.52715	118.58731	0.00000	62.495E-6	-0.73794	0.17048	0.69682	0.24288	250.79	*
				3.9770	116.36357	118.11787	0.00000	73.220E-6	-0.86458	0.18736	0.81641	0.28456	250.79	*
				4.4741	116.19999	117.64843	0.00000	83.892E-6	-0.99060	0.20376	0.93541	0.32604	250.79	*
				4.9713	116.03641	117.17898	0.00000	0.013459	-1.1182	0.22428	1.0515	0.38066	250.79	*
				5.4684	115.87283	116.70954	0.00000	0.028957	-1.2451	0.24610	1.1663	0.43706	250.79	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.9655	115.70925	116.24010	0.00000	0.046433	-1.3713	0.26960	1.2797	0.49508	250.79	*
				6.4626	115.54567	115.77066	0.00000	0.065955	-1.4967	0.29519	1.3917	0.55478	250.79	*
				6.9598	115.38209	115.30122	0.00000	0.087594	-1.6213	0.32327	1.5022	0.61622	250.79	*
				7.4569	115.21851	114.83178	0.00000	0.11142	-1.7451	0.35422	1.6113	0.67945	250.79	*
				7.9540	115.05493	114.36233	0.00000	0.13752	-1.8680	0.38841	1.7187	0.74453	250.79	*
				8.4511	114.89135	113.89289	0.00000	0.16596	-1.9900	0.42618	1.8246	0.81154	250.79	*
				8.9483	114.72778	113.42345	0.00000	0.19683	-2.1111	0.46787	1.9288	0.88054	250.79	*
				9.4454	114.56420	112.95401	0.00000	0.23023	-2.2313	0.51378	2.0313	0.95161	250.79	*
				9.9425	114.40062	112.48457	0.00000	0.26623	-2.3504	0.56422	2.1319	1.0248	250.79	*
				10.440	114.23704	112.01513	0.00000	0.30494	-2.4686	0.61947	2.2307	1.1002	250.79	*
				10.937	114.07346	111.54568	0.00000	0.34646	-2.5856	0.67980	2.3276	1.1780	250.79	*
				11.434	113.90988	111.07624	0.00000	0.39088	-2.7015	0.74546	2.4225	1.2581	250.79	*
				11.931	113.74630	110.60680	0.00000	0.43833	-2.8163	0.81668	2.5153	1.3406	250.79	*
		100	22S-03	0.0	113.74630	110.60680	0.00000	0.43833	-2.8163	0.81668	-1.3402	2.5155	160.80	*
				0.47885	113.29409	110.76428	0.00000	0.50950	-2.7532	0.82322	-1.3866	2.4325	160.80	*
				0.95770	112.84187	110.92176	0.00000	0.57748	-2.6893	0.82804	-1.4298	2.3498	160.80	*
				1.4365	112.38966	111.07924	0.00000	0.64223	-2.6249	0.83117	-1.4698	2.2677	160.80	*
				1.9154	111.93744	111.23671	0.00000	0.70370	-2.5599	0.83266	-1.5064	2.1861	160.80	*
				2.3942	111.48523	111.39419	0.00000	0.76183	-2.4944	0.83253	-1.5398	2.1051	160.80	*
				2.8731	111.03301	111.55167	0.00000	0.81658	-2.4284	0.83086	-1.5698	2.0248	160.80	*
				3.3519	110.58080	111.70915	0.00000	0.86793	-2.3620	0.82767	-1.5964	1.9452	160.80	*
				3.8308	110.12859	111.86663	0.00000	0.91584	-2.2951	0.82302	-1.6197	1.8663	160.80	*
				4.3096	109.67637	112.02411	0.00000	0.96029	-2.2279	0.81696	-1.6396	1.7882	160.80	*
				4.7885	109.22416	112.18159	0.00000	1.0013	-2.1604	0.80954	-1.6561	1.7109	160.80	*
				5.2673	108.77194	112.33906	0.00000	1.0387	-2.0925	0.80082	-1.6691	1.6345	160.80	*
				5.7462	108.31973	112.49654	0.00000	1.0727	-2.0244	0.79083	-1.6788	1.5590	160.80	*
				6.2250	107.86751	112.65402	0.00000	1.1032	-1.9561	0.77964	-1.6851	1.4845	160.80	*
				6.7039	107.41530	112.81150	0.00000	1.1301	-1.8875	0.76728	-1.6880	1.4108	160.80	*
		101	22S-04	0.0	107.41530	112.81150	0.00000	1.1301	-1.8875	0.76728	-1.4075	-1.6907	70.688	*
				0.49704	107.57968	113.28057	0.00000	1.0557	-1.7910	0.70713	-1.3410	-1.5886	70.688	*
				0.99408	107.74405	113.74964	0.00000	0.98440	-1.6931	0.65095	-1.2722	-1.4889	70.688	*
				1.4911	107.90842	114.21871	0.00000	0.91601	-1.5938	0.59850	-1.2012	-1.3916	70.688	*
				1.9882	108.07280	114.68778	0.00000	0.85050	-1.4933	0.54950	-1.1280	-1.2965	70.688	*
				2.4852	108.23718	115.15685	0.00000	0.78779	-1.3915	0.50368	-1.0527	-1.2037	70.688	*
				2.9822	108.40155	115.62592	0.00000	0.72781	-1.2885	0.46072	-0.97533	-1.1130	70.688	*
				3.4793	108.56592	116.09500	0.00000	0.67047	-1.1843	0.42030	-0.89596	-1.0244	70.688	*
				3.9763	108.73030	116.56407	0.00000	0.61572	-1.0790	0.38209	-0.81464	-0.93791	70.688	*
				4.4733	108.89468	117.03314	0.00000	0.56348	-0.97251	0.34574	-0.73144	-0.85339	70.688	*
				4.9704	109.05905	117.50221	0.00000	0.51369	-0.86494	0.31087	-0.64639	-0.77083	70.688	*
				5.4674	109.22342	117.97128	0.00000	0.46628	-0.75632	0.27710	-0.55956	-0.69016	70.688	*
				5.9645	109.38780	118.44035	0.00000	0.42118	-0.64667	0.24403	-0.47099	-0.61134	70.688	*
				6.4615	109.55218	118.90942	0.00000	0.37835	-0.53601	0.21123	-0.38073	-0.53432	70.688	*
				6.9585	109.71655	119.37849	0.00000	0.33771	-0.42438	0.17827	-0.28882	-0.45905	70.688	*
				7.4556	109.88092	119.84756	0.00000	0.29921	-0.31181	0.14468	-0.19531	-0.38549	70.688	*
				7.9526	110.04530	120.31663	0.00000	0.26280	-0.19831	0.11000	-0.10025	-0.31359	70.688	*
				8.4496	110.20968	120.78570	0.00000	0.22841	-0.083923	0.073742	-0.0036620	-0.24332	70.688	*
				8.9467	110.37405	121.25477	0.00000	0.19602	-0.055343	0.055821	0.012595	-0.20329	70.688	*
				9.4437	110.53842	121.72385	0.00000	0.16555	-0.046740	0.049876	0.010637	-0.17169	70.688	*
				9.9408	110.70280	122.19292	0.00000	0.13695	-0.038667	0.044103	0.0087999	-0.14203	70.688	*
				10.438	110.86718	122.66199	0.00000	0.11019	-0.031111	0.038453	0.0070802	-0.11428	70.688	*
				10.935	111.03155	123.13106	0.00000	0.085208	-0.024058	0.032882	0.0054750	-0.088369	70.688	*
				11.432	111.19592	123.60013	0.00000	0.061963	-0.017495	0.027354	0.0039814	-0.064262	70.688	*
				11.929	111.36030	124.06920	0.00000	0.040412	-0.011410	0.021837	0.0025967	-0.041911	70.688	*
		102	23K-01	0.0	126.87040	106.75440	0.00000	389.31E-6	-4.5970	1.5536	-1.4957	4.3469	161.02	*
				0.48606	126.41078	106.91251	0.00000	382.79E-6	-4.5200	1.4781	-1.4707	4.2740	161.02	*
				0.97212	125.95115	107.07062	0.00000	376.32E-6	-4.4436	1.4036	-1.4458	4.2018	161.02	*
				1.4582	125.49152	107.22872	0.00000	369.90E-6	-4.3677	1.3300	-1.4211	4.1301	161.02	*
				1.9442	125.03190	107.38683	0.00000	363.53E-6	-4.2925	1.2791	-1.3966	4.0589	161.02	*
				2.4303	124.57228	107.54494	0.00000	357.20E-6	-4.2179	1.2392	-1.3724	3.9884	161.02	*
				2.9164	124.11265	107.70305	0.00000	350.93E-6	-4.1438	1.2002	-1.3483	3.9184	161.02	*
				3.4024	123.65302	107.86116	0.00000	344.71E-6	-4.0704	1.1621	-1.3244	3.8489	161.02	*
				3.8885	123.19340	108.01927	0.00000	338.54E-6	-3.9975	1.1250	-1.3007	3.7800	161.02	*
				4.3745	122.73378	108.17738	0.00000	332.42E-6	-3.9253	1.0889	-1.2771	3.7117	161.02	*
				4.8606	122.27415	108.33548	0.00000	326.35E-6	-3.8536	1.0536	-1.2538	3.6439	161.02	*
				5.3466	121.81453	108.49359	0.00000	320.33E-6	-3.7825	1.0192	-1.2307	3.5767	161.02	*
				5.8327	121.35490	108.65170	0.00000	314.37E-6	-3.7120	0.98578	-1.2078	3.5101	161.02	*
		103	23K-02	0.0	121.35490	108.65170	0.00000	314.37E-6	-3.7120	0.98578	-3.5088	-1.2113	70.959	*
				0.48330	121.51257	109.10856	0.00000	303.66E-6	-3.5856	0.91581	-3.3893	-1.1700	70.959	*
				0.96659	121.67024	109.56541	0.00000	292.89E-6	-3.4585	0.85013	-3.2692	-1.1286	70.959	*
				1.4499	121.82791	110.02227	0.00000	282.08E-6	-3.3309	0.78865	-3.1485	-1.0869	70.959	*
				1.9332	121.98558	110.47912	0.00000	271.22E-6	-3.2026	0.73129	-3.0273	-1.0451	70.959	*
				2.4165	122.14325	110.93597	0.00000	260.31E-6	-3.0738	0.67794	-2.9055	-1.0030	70.959	*
				2.8998	122.30092	111.39283	0.00000	249.35E-6	-2.9444	0.62847	-2.7832	-0.96081	70.959	*
				3.3831	122.45859	111.84969	0.00000	238.35E-6	-2.8144	0.58274	-2.6603	-0.91838	70.959	*
				3.8664	122.61626	112.30654	0.00000	227.29E-6	-2.6838	0.54059	-2.5369	-0.87577	70.959	*
				4.3497	122.77393	112.76340	0.00000	216.18E-6	-2.5526	0.50184	-2.4129	-0.83296	70.959	*
				4.8330	122.93160	113.22025	0.00000	205.02E-6	-2.4209	0.46630	-2.2883	-0.78997	70.959	*
				5.3163	123.08927	113.67710	0.00000	193.81E-6	-2.2885	0.43376	-2.1632	-0.74678	70.959	*
				5.7996	123.24694	114.13396	0.00000	182.55E-6	-2.1556	0.40398	-2.0376	-0.70340	70.959	*
				6.2829	123.40461	114.59081	0.00000	171.24E-6	-2.0220	0.37671	-1.9113	-0.65982	70.959	*
				6.7662	123.56228	115.04767	0.00000	159.88E-6	-1.8879	0.35168	-1.7846	-0.61606	70.959	*
				7.2495	123.71995	115.50453	0.00000	148.48E-6	-1.7532	0.32861	-1.6572	-0.57210	70.959	*
				7.7328	123.87762	115.96139	0.00000	137.02E-6	-1.6179	0.30719	-1.5293	-0.52795	70.959	*
				8.2161	124.03529	116.41823	0.00000	125.51E-6	-1.4820	0.28709	-1.4009	-0.48361	70.959	*
				8.6994	124.19296	116.87509	0.00000	113.95E-6	-1.3455	0.26797	-1.2719	-0.43908	70.959	*
				9.1826	124.35063	117.33194	0.00000	102.34E-6	-1.2085	0.24947	-1.1423	-0.39435	70.959	*
				9.6659	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.23119	-1.0122	-0.34943	70.959	*
		104	23K-03	0.0	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.23119	0.34414	-1.0140	341.26	*
				0.48785	124.97028	117.63206	0.00000	95.345E-6	-1.1258	0.23939	0.36181	-1.0661	341.26	*
				0.97570	125.43227	117.47532	0.00000	100.05E-6	-1.1814	0.24766	0.37967	-1.1187	341.26	*
				1.4635	125.89425	117.31857	0.00000	104.81E-6	-1.2376	0.25602	0.39772	-1.1719	341.26	*
				1.9514	126.35623	117.16183	0.00000	109.62E-6	-1.2943	0.26449	0.41596	-1.2257	341.26	*
				2.4392	126.81822	117.00509	0.00000	114.47E-6	-1.3517	0.27307	0.43440	-1.2800	341.26	*
				2.9271	127.28020	116.84835	0.00000	119.38E-6	-1.4096	0.28179	0.45302	-1.3349	341.26	*
				3.4149	127.74218	116.69161	0.00000	124.34E-6	-1.4682	0.29067	0.47183	-1.3903	341.26	*
				3.9028	128.20417	116.53487	0.00000	129.34E-6	-1.5273	0.29971	0.49083	-1.4463	341.26	*
				4.3906	128.66615	116.37812	0.00000	134.40E-6	-1.5870	0.30893	0.51002	-1.5028	341.26	*
				4.8785	129.12813	116.22138	0.00000	139.51E-6	-1.6473	0.31836	0.52941	-1.5599	341.26	*
				5.3663	129.59012	116.06464	0.00000	144.67E-6	-1.7082	0.32800	0.54898	-1.6176	341.26	*
				5.8542	130.05210	115.90790	0.00000	149.88E-6	-1.7697	0.33788	0.56874	-1.6758	341.26	*
		105	23K-04	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.31083	0.52054	-1.5006	340.87	*
				0.43187	130.65443	116.32850	0.00000	139.17E-6	-1.6433	0.31925	0.53856	-1.5526	340.87	*
				0.86374	131.06247	116.18700	0.00000	143.87E-6	-1.6988	0.32783	0.55674	-1.6050	340.87	*
				1.2956	131.47050	116.04550	0.00000	148.61E-6	-1.7547	0.33660	0.57507	-1.6578	340.87	*
				1.7275	131.87853	115.90400	0.00000	153.38E-6	-1.8111	0.34555	0.59355	-1.7111	340.87	*
				2.1594	132.28657	115.76250	0.00000	158.20E-6	-1.8680	0.35470	0.61219	-1.7649	340.87	*
				2.5912	132.69460	115.62100	0.00000	163.06E-6	-1.9254	0.36407	0.63099	-1.8190	340.87	*
				3.0231	133.10263	115.47950	0.00000	167.95E-6	-1.9832	0.37367	0.64994	-1.8737	340.87	*
				3.4550	133.51067	115.33800	0.00000	172.89E-6	-2.0415	0.38351	0.66904	-1.9287	340.87	*
				3.8868	133.91870	115.19650	0.00000	177.87E-6	-2.1003	0.39359	0.68830	-1.9843	340.87	*
				4.3187	134.32673	115.05500	0.00000	182.88E-6	-2.1595	0.40395	0.70772	-2.0402	340.87	*
				4.7506	134.73477	114.91350	0.00000	187.94E-6	-2.2192	0.41457	0.72729	-2.0966	340.87	*
				5.1825	135.14280	114.77200	0.00000	193.04E-6	-2.2794	0.42549	0.74701	-2.1535	340.87	*
		106	23K-05	0.0	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.39242	0.68691	-1.9800	340.87	*
				0.46218	135.76587	115.15775	0.00000	182.91E-6	-2.1599	0.40333	0.70792	-2.0405	340.87	*
				0.92437	136.20253	115.00630	0.00000	188.39E-6	-2.2245	0.41455	0.72910	-2.1016	340.87	*
				1.3866	136.63920	114.85485	0.00000	193.91E-6	-2.2897	0.42609	0.75046	-2.1632	340.87	*
				1.8487	137.07587	114.70340	0.00000	199.47E-6	-2.3554	0.43797	0.77200	-2.2253	340.87	*
				2.3109	137.51253	114.55195	0.00000	205.08E-6	-2.4216	0.45020	0.79372	-2.2879	340.87	*
				2.7731	137.94920	114.40050	0.00000	210.74E-6	-2.4884	0.46280	0.81561	-2.3510	340.87	*
				3.2353	138.38587	114.24905	0.00000	216.44E-6	-2.5557	0.47578	0.83768	-2.4146	340.87	*
				3.6975	138.82253	114.09760	0.00000	222.19E-6	-2.6236	0.48917	0.85992	-2.4787	340.87	*
				4.1597	139.25920	113.94615	0.00000	227.98E-6	-2.6920	0.50296	0.88235	-2.5433	340.87	*
				4.6218	139.69587	113.79470	0.00000	233.82E-6	-2.7610	0.51719	0.90495	-2.6085	340.87	*
				5.0840	140.13253	113.64325	0.00000	239.71E-6	-2.8305	0.53186	0.92772	-2.6741	340.87	*
				5.5462	140.56920	113.49180	0.00000	245.64E-6	-2.9005	0.54699	0.95068	-2.7403	340.87	*
		107	23K-06	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.49959	0.88284	-2.5453	340.88	*
				0.44539	141.17871	113.91508	0.00000	233.84E-6	-2.7612	0.51302	0.90484	-2.6087	340.88	*
				0.89078	141.59952	113.76917	0.00000	238.53E-6	-2.8165	0.52521	0.92296	-2.6610	340.88	*
				1.3362	142.02033	113.62325	0.00000	243.16E-6	-2.8712	0.53764	0.94089	-2.7127	340.88	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				1.7816	142.44113	113.47733	0.00000	247.80E-6	-2.9260	0.55041	0.95883	-2.7644	340.88	*
				2.2269	142.86194	113.33142	0.00000	252.43E-6	-2.9807	0.56353	0.97676	-2.8161	340.88	*
				2.6723	143.28275	113.18550	0.00000	257.07E-6	-3.0354	0.57699	0.99470	-2.8678	340.88	*
				3.1177	143.70356	113.03958	0.00000	261.70E-6	-3.0902	0.59082	1.0126	-2.9195	340.88	*
				3.5631	144.12437	112.89367	0.00000	266.34E-6	-3.1449	0.60502	1.0306	-2.9712	340.88	*
				4.0085	144.54518	112.74775	0.00000	270.97E-6	-3.1996	0.61959	1.0485	-3.0230	340.88	*
				4.4539	144.96598	112.60183	0.00000	275.61E-6	-3.2544	0.63455	1.0664	-3.0747	340.88	*
				4.8993	145.38679	112.45592	0.00000	280.24E-6	-3.3091	0.64990	1.0844	-3.1264	340.88	*
				5.3447	145.80760	112.31000	0.00000	284.88E-6	-3.3638	0.66564	1.1023	-3.1781	340.88	*
		108	23K-07	0.0	145.92710	112.67510	0.00000	273.28E-6	-3.2269	0.62567	1.0553	-3.0495	340.92	*
				0.46129	146.36303	112.52428	0.00000	278.07E-6	-3.2835	0.64121	1.0738	-3.1029	340.92	*
				0.92257	146.79897	112.37345	0.00000	282.86E-6	-3.3401	0.65717	1.0924	-3.1564	340.92	*
				1.3839	147.23490	112.22262	0.00000	287.65E-6	-3.3966	0.67356	1.1109	-3.2098	340.92	*
				1.8451	147.67083	112.07180	0.00000	292.45E-6	-3.4532	0.69038	1.1294	-3.2633	340.92	*
				2.3064	148.10677	111.92097	0.00000	297.24E-6	-3.5098	0.70764	1.1479	-3.3168	340.92	*
				2.7677	148.54270	111.77015	0.00000	302.03E-6	-3.5663	0.72535	1.1664	-3.3702	340.92	*
				3.2290	148.97863	111.61933	0.00000	306.82E-6	-3.6229	0.74351	1.1849	-3.4237	340.92	*
				3.6903	149.41457	111.46850	0.00000	311.61E-6	-3.6795	0.76214	1.2034	-3.4772	340.92	*
				4.1516	149.85050	111.31768	0.00000	316.40E-6	-3.7361	0.78123	1.2219	-3.5306	340.92	*
				4.6129	150.28643	111.16685	0.00000	321.19E-6	-3.7926	0.80079	1.2404	-3.5841	340.92	*
				5.0742	150.72237	111.01602	0.00000	325.98E-6	-3.8492	0.82083	1.2589	-3.6375	340.92	*
				5.5354	151.15830	110.86520	0.00000	330.77E-6	-3.9058	0.84136	1.2774	-3.6910	340.92	*
		109	23K-08	0.0	151.15830	110.86520	0.00000	330.77E-6	-3.9058	0.84136	3.6910	1.2773	250.92	*
				0.49250	150.99728	110.39977	0.00000	345.55E-6	-4.0803	0.91231	3.8559	1.3344	250.92	*
				0.98500	150.83625	109.93434	0.00000	360.34E-6	-4.2548	0.98891	4.0209	1.3915	250.92	*
				1.4775	150.67523	109.46891	0.00000	375.12E-6	-4.4294	1.0713	4.1858	1.4486	250.92	*
				1.9700	150.51420	109.00348	0.00000	389.90E-6	-4.6039	1.1597	4.3507	1.5056	250.92	*
				2.4625	150.35317	108.53805	0.00000	404.68E-6	-4.7784	1.2543	4.5157	1.5627	250.92	*
				2.9550	150.19215	108.07262	0.00000	419.46E-6	-4.9530	1.3550	4.6806	1.6198	250.92	*
				3.4475	150.03113	107.60719	0.00000	434.24E-6	-5.1275	1.4621	4.8455	1.6769	250.92	*
				3.9400	149.87010	107.14176	0.00000	449.02E-6	-5.3020	1.6034	5.0105	1.7340	250.92	*
				4.4325	149.70908	106.67633	0.00000	463.80E-6	-5.4766	1.8165	5.1754	1.7910	250.92	*
				4.9250	149.54805	106.21090	0.00000	478.58E-6	-5.6511	2.0361	5.3403	1.8481	250.92	*
				5.4175	149.38702	105.74547	0.00000	493.36E-6	-5.8256	2.2623	5.5053	1.9052	250.92	*
				5.9100	149.22600	105.28004	0.00000	508.14E-6	-6.0001	2.4949	5.6702	1.9623	250.92	*
				6.4025	149.06498	104.81461	0.00000	522.92E-6	-6.1747	2.7341	5.8351	2.0193	250.92	*
				6.8950	148.90395	104.34918	0.00000	537.70E-6	-6.3492	2.9797	6.0001	2.0764	250.92	*
				7.3875	148.74293	103.88375	0.00000	552.48E-6	-6.5237	3.2317	6.1650	2.1335	250.92	*
				7.8800	148.58190	103.41832	0.00000	567.27E-6	-6.6983	3.4900	6.3299	2.1906	250.92	*
				8.3725	148.42087	102.95289	0.00000	582.05E-6	-6.8728	3.7545	6.4949	2.2477	250.92	*
				8.8650	148.25985	102.48746	0.00000	596.83E-6	-7.0473	4.0251	6.6598	2.3047	250.92	*
				9.3575	148.09883	102.02203	0.00000	611.61E-6	-7.2219	4.3016	6.8248	2.3618	250.92	*
				9.8500	147.93780	101.55660	0.00000	626.39E-6	-7.3964	4.5839	6.9897	2.4189	250.92	*
		110	23K-09	0.0	147.93780	101.55660	0.00000	626.39E-6	-7.3964	4.5839	-2.4662	6.9731	160.53	*
				0.46129	147.50289	101.71037	0.00000	621.50E-6	-7.3387	4.4922	-2.4470	6.9187	160.53	*
				0.92259	147.06798	101.86415	0.00000	616.62E-6	-7.2810	4.4011	-2.4278	6.8644	160.53	*
				1.3839	146.63308	102.01793	0.00000	611.73E-6	-7.2234	4.3103	-2.4085	6.8100	160.53	*
				1.8452	146.19817	102.17170	0.00000	606.85E-6	-7.1657	4.2201	-2.3893	6.7556	160.53	*
				2.3065	145.76326	102.32547	0.00000	601.97E-6	-7.1080	4.1303	-2.3701	6.7012	160.53	*
				2.7678	145.32835	102.47925	0.00000	597.08E-6	-7.0503	4.0410	-2.3508	6.6469	160.53	*
				3.2291	144.89344	102.63303	0.00000	592.20E-6	-6.9927	3.9522	-2.3316	6.5925	160.53	*
				3.6904	144.45853	102.78680	0.00000	587.31E-6	-6.9350	3.8639	-2.3124	6.5381	160.53	*
				4.1516	144.02362	102.94057	0.00000	582.43E-6	-6.8773	3.7761	-2.2931	6.4837	160.53	*
				4.6129	143.58872	103.09435	0.00000	577.54E-6	-6.8196	3.6888	-2.2739	6.4294	160.53	*
				5.0742	143.15381	103.24813	0.00000	572.66E-6	-6.7619	3.6021	-2.2547	6.3750	160.53	*
				5.5355	142.71890	103.40190	0.00000	567.77E-6	-6.7043	3.5160	-2.2354	6.3206	160.53	*
		111	23K-10	0.0	137.49760	104.66790	0.00000	506.30E-6	-5.9784	2.7511	1.9608	-5.6477	340.86	*
				0.44540	137.91837	104.52185	0.00000	513.19E-6	-6.0597	2.8358	1.9875	-5.7245	340.86	*
				0.89080	138.33915	104.37580	0.00000	520.12E-6	-6.1416	2.9214	2.0144	-5.8019	340.86	*
				1.3362	138.75993	104.22975	0.00000	527.10E-6	-6.2240	3.0080	2.0414	-5.8797	340.86	*
				1.7816	139.18070	104.08370	0.00000	534.11E-6	-6.3068	3.0954	2.0686	-5.9579	340.86	*
				2.2270	139.60147	103.93765	0.00000	541.18E-6	-6.3902	3.1839	2.0959	-6.0367	340.86	*
				2.6724	140.02225	103.79160	0.00000	548.28E-6	-6.4741	3.2732	2.1234	-6.1159	340.86	*
				3.1178	140.44303	103.64555	0.00000	555.42E-6	-6.5584	3.3635	2.1511	-6.1956	340.86	*
				3.5632	140.86380	103.49950	0.00000	562.61E-6	-6.6433	3.4547	2.1789	-6.2758	340.86	*
				4.0086	141.28457	103.35345	0.00000	569.31E-6	-6.7224	3.5447	2.2049	-6.3505	340.86	*
				4.4540	141.70535	103.20740	0.00000	573.95E-6	-6.7772	3.6270	2.2228	-6.4023	340.86	*
				4.8994	142.12613	103.06135	0.00000	578.59E-6	-6.8320	3.7098	2.2408	-6.4540	340.86	*
				5.3448	142.54690	102.91530	0.00000	583.23E-6	-6.8867	3.7932	2.2588	-6.5058	340.86	*
		112	23K-11	0.0	142.54690	102.91530	0.00000	583.23E-6	-6.8867	3.7932	-6.5073	-2.2544	70.897	*
				0.46948	142.70055	103.35993	0.00000	569.14E-6	-6.7204	3.5402	-6.3501	-2.1999	70.897	*
				0.93896	142.85419	103.80255	0.00000	555.05E-6	-6.5540	3.2929	-6.1929	-2.1454	70.897	*
				1.4084	143.00784	104.24618	0.00000	540.96E-6	-6.3877	3.0512	-6.0357	-2.0910	70.897	*
				1.8779	143.16148	104.68981	0.00000	526.87E-6	-6.2213	2.8154	-5.8785	-2.0365	70.897	*
				2.3474	143.31513	105.13344	0.00000	512.78E-6	-6.0550	2.5853	-5.7214	-1.9821	70.897	*
				2.8169	143.46877	105.57706	0.00000	498.70E-6	-5.8886	2.3612	-5.5642	-1.9276	70.897	*
				3.2864	143.62242	106.02069	0.00000	484.61E-6	-5.7222	2.1430	-5.4070	-1.8732	70.897	*
				3.7558	143.77606	106.46432	0.00000	470.52E-6	-5.5559	1.9307	-5.2498	-1.8187	70.897	*
				4.2253	143.92971	106.90795	0.00000	456.43E-6	-5.3895	1.7243	-5.0926	-1.7642	70.897	*
				4.6948	144.08335	107.35157	0.00000	442.34E-6	-5.2232	1.5381	-4.9354	-1.7098	70.897	*
				5.1643	144.23700	107.79520	0.00000	428.25E-6	-5.0568	1.4322	-4.7782	-1.6553	70.897	*
				5.6338	144.39065	108.23883	0.00000	414.17E-6	-4.8905	1.3321	-4.6210	-1.6009	70.897	*
				6.1032	144.54429	108.68245	0.00000	400.08E-6	-4.7241	1.2378	-4.4638	-1.5464	70.897	*
				6.5727	144.69794	109.12608	0.00000	385.99E-6	-4.5578	1.1490	-4.3066	-1.4920	70.897	*
				7.0422	144.85158	109.56971	0.00000	371.90E-6	-4.3914	1.0658	-4.1495	-1.4375	70.897	*
				7.5117	145.00523	110.01334	0.00000	357.81E-6	-4.2250	0.98806	-3.9923	-1.3831	70.897	*
				7.9812	145.15887	110.45696	0.00000	343.72E-6	-4.0587	0.91554	-3.8351	-1.3286	70.897	*
				8.4507	145.31252	110.90059	0.00000	329.64E-6	-3.8923	0.84812	-3.6779	-1.2741	70.897	*
				8.9201	145.46616	111.34422	0.00000	315.55E-6	-3.7260	0.78563	-3.5207	-1.2197	70.897	*
				9.3896	145.61981	111.78785	0.00000	301.46E-6	-3.5596	0.72787	-3.3635	-1.1652	70.897	*
				9.8591	145.77345	112.23147	0.00000	287.37E-6	-3.3933	0.67462	-3.2063	-1.1108	70.897	*
				10.329	145.92710	112.67510	0.00000	273.28E-6	-3.2269	0.62567	-3.0491	-1.0563	70.897	*
		113	23K-12	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.49959	2.5451	0.88360	250.86	*
				0.47283	140.60286	113.61431	0.00000	241.86E-6	-2.8559	0.53631	2.6980	0.93668	250.86	*
				0.94566	140.44782	113.16762	0.00000	255.52E-6	-3.0172	0.57639	2.8503	0.98958	250.86	*
				1.4185	140.29278	112.72093	0.00000	269.13E-6	-3.1779	0.62012	3.0021	1.0423	250.86	*
				1.8913	140.13774	112.27424	0.00000	282.70E-6	-3.3381	0.66774	3.1534	1.0948	250.86	*
				2.3642	139.98270	111.82755	0.00000	296.21E-6	-3.4977	0.71949	3.3042	1.1472	250.86	*
				2.8370	139.82765	111.38085	0.00000	309.68E-6	-3.6567	0.77557	3.4544	1.1993	250.86	*
				3.3098	139.67261	110.93416	0.00000	323.10E-6	-3.8152	0.83619	3.6041	1.2513	250.86	*
				3.7827	139.51757	110.48747	0.00000	336.47E-6	-3.9730	0.90152	3.7533	1.3031	250.86	*
				4.2555	139.36253	110.04078	0.00000	349.79E-6	-4.1304	0.97171	3.9019	1.3547	250.86	*
				4.7283	139.20749	109.59409	0.00000	363.07E-6	-4.2871	1.0469	4.0500	1.4061	250.86	*
				5.2012	139.05245	109.14740	0.00000	376.30E-6	-4.4433	1.1272	4.1975	1.4573	250.86	*
				5.6740	138.89741	108.70071	0.00000	389.48E-6	-4.5989	1.2127	4.3446	1.5084	250.86	*
				6.1468	138.74237	108.25402	0.00000	402.61E-6	-4.7540	1.3035	4.4910	1.5592	250.86	*
				6.6197	138.58733	107.80733	0.00000	415.69E-6	-4.9085	1.3997	4.6370	1.6099	250.86	*
				7.0925	138.43229	107.36064	0.00000	428.73E-6	-5.0624	1.5013	4.7824	1.6604	250.86	*
				7.5653	138.27725	106.91395	0.00000	441.72E-6	-5.2158	1.6815	4.9273	1.7107	250.86	*
				8.0382	138.12220	106.46725	0.00000	454.66E-6	-5.3686	1.8833	5.0716	1.7608	250.86	*
				8.5110	137.96716	106.02056	0.00000	467.55E-6	-5.5208	2.0906	5.2154	1.8107	250.86	*
				8.9838	137.81212	105.57387	0.00000	480.39E-6	-5.6725	2.3032	5.3587	1.8605	250.86	*
				9.4566	137.65708	105.12718	0.00000	493.19E-6	-5.8236	2.5213	5.5015	1.9100	250.86	*
				9.9295	137.50204	104.68049	0.00000	505.94E-6	-5.9741	2.7447	5.6437	1.9594	250.86	*
				10.402	137.34700	104.23380	0.00000	518.64E-6	-6.1241	2.9734	5.7854	2.0086	250.86	*
		114	23K-13	0.0	137.34700	104.23380	0.00000	518.64E-6	-6.1241	2.9734	-2.0498	5.7709	160.45	*
				0.46085	136.91272	104.38802	0.00000	511.41E-6	-6.0387	2.8827	-2.0212	5.6904	160.45	*
				0.92170	136.47843	104.54223	0.00000	504.23E-6	-5.9539	2.7930	-1.9929	5.6105	160.45	*
				1.3826	136.04415	104.69645	0.00000	497.09E-6	-5.8697	2.7044	-1.9647	5.5311	160.45	*
				1.8434	135.60987	104.85067	0.00000	490.00E-6	-5.7859	2.6167	-1.9366	5.4522	160.45	*
				2.3043	135.17558	105.00488	0.00000	482.96E-6	-5.7027	2.5301	-1.9088	5.3738	160.45	*
				2.7651	134.74130	105.15910	0.00000	475.96E-6	-5.6201	2.4445	-1.8811	5.2959	160.45	*
				3.2260	134.30702	105.31332	0.00000	469.01E-6	-5.5380	2.3600	-1.8537	5.2186	160.45	*
				3.6868	133.87273	105.46753	0.00000	462.10E-6	-5.4565	2.2764	-1.8264	5.1418	160.45	*
				4.1477	133.43845	105.62175	0.00000	455.24E-6	-5.3755	2.1938	-1.7993	5.0654	160.45	*
				4.6085	133.00417	105.77597	0.00000	448.43E-6	-5.2951	2.1123	-1.7723	4.9896	160.45	*
				5.0694	132.56988	105.93018	0.00000	441.66E-6	-5.2152	2.0317	-1.7456	4.9143	160.45	*
				5.5302	132.13560	106.08440	0.00000	434.94E-6	-5.1358	1.9521	-1.7190	4.8396	160.45	*
		115	23K-14	0.0	127.09450	107.39930	0.00000	373.10E-6	-4.4056	1.3134	1.4416	-4.1631	340.91	*
				0.43282	127.50351	107.25771	0.00000	378.89E-6	-4.4740	1.3547	1.4639	-4.2277	340.91	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				0.86565	127.91252	107.11612	0.00000	384.72E-6	-4.5428	1.4209	1.4865	-4.2927	340.91	*
				1.2985	128.32153	106.97452	0.00000	390.59E-6	-4.6121	1.4879	1.5092	-4.3582	340.91	*
				1.7313	128.73053	106.83293	0.00000	396.50E-6	-4.6819	1.5556	1.5320	-4.4242	340.91	*
				2.1641	129.13954	106.69134	0.00000	402.45E-6	-4.7521	1.6242	1.5550	-4.4905	340.91	*
				2.5969	129.54855	106.54975	0.00000	408.44E-6	-4.8229	1.6936	1.5781	-4.5574	340.91	*
				3.0298	129.95756	106.40816	0.00000	414.47E-6	-4.8941	1.7638	1.6014	-4.6247	340.91	*
				3.4626	130.36657	106.26657	0.00000	420.54E-6	-4.9658	1.8348	1.6249	-4.6924	340.91	*
				3.8954	130.77558	106.12497	0.00000	426.65E-6	-5.0379	1.9066	1.6485	-4.7606	340.91	*
				4.3282	131.18458	105.98338	0.00000	432.80E-6	-5.1105	1.9793	1.6722	-4.8292	340.91	*
				4.7611	131.59359	105.84179	0.00000	438.99E-6	-5.1836	2.0528	1.6962	-4.8983	340.91	*
				5.1939	132.00260	105.70020	0.00000	445.22E-6	-5.2572	2.1271	1.7202	-4.9678	340.91	*
		116	23K-15	0.0	132.00260	105.70020	0.00000	445.22E-6	-5.2572	2.1271	-4.9678	-1.7203	70.904	*
				0.46221	132.15381	106.13697	0.00000	433.53E-6	-5.1192	1.9284	-4.8373	-1.6751	70.904	*
				0.92441	132.30502	106.57375	0.00000	421.80E-6	-4.9806	1.7345	-4.7064	-1.6298	70.904	*
				1.3866	132.45623	107.01052	0.00000	410.02E-6	-4.8415	1.5455	-4.5749	-1.5843	70.904	*
				1.8488	132.60744	107.44729	0.00000	398.19E-6	-4.7018	1.3949	-4.4430	-1.5386	70.904	*
				2.3110	132.75865	107.88406	0.00000	386.32E-6	-4.5616	1.3029	-4.3105	-1.4927	70.904	*
				2.7732	132.90985	108.32084	0.00000	374.40E-6	-4.4209	1.2157	-4.1775	-1.4466	70.904	*
				3.2354	133.06106	108.75761	0.00000	362.43E-6	-4.2796	1.1332	-4.0440	-1.4004	70.904	*
				3.6976	133.21227	109.19438	0.00000	350.42E-6	-4.1378	1.0555	-3.9100	-1.3540	70.904	*
				4.1599	133.36348	109.63115	0.00000	338.37E-6	-3.9954	0.98239	-3.7755	-1.3074	70.904	*
				4.6221	133.51469	110.06793	0.00000	326.27E-6	-3.8525	0.91383	-3.6404	-1.2607	70.904	*
				5.0843	133.66590	110.50470	0.00000	314.12E-6	-3.7091	0.84972	-3.5049	-1.2137	70.904	*
				5.5465	133.81711	110.94147	0.00000	301.93E-6	-3.5651	0.78994	-3.3689	-1.1666	70.904	*
				6.0087	133.96832	111.37825	0.00000	289.69E-6	-3.4206	0.73436	-3.2323	-1.1193	70.904	*
				6.4709	134.11953	111.81502	0.00000	277.40E-6	-3.2756	0.68281	-3.0952	-1.0719	70.904	*
				6.9331	134.27074	112.25179	0.00000	265.07E-6	-3.1300	0.63515	-2.9577	-1.0242	70.904	*
				7.3953	134.42195	112.68856	0.00000	252.70E-6	-2.9839	0.59118	-2.8196	-0.97640	70.904	*
				7.8575	134.57315	113.12534	0.00000	240.28E-6	-2.8372	0.55069	-2.6810	-0.92841	70.904	*
				8.3197	134.72436	113.56211	0.00000	227.81E-6	-2.6900	0.51349	-2.5419	-0.88024	70.904	*
				8.7819	134.87557	113.99888	0.00000	215.30E-6	-2.5422	0.47932	-2.4023	-0.83189	70.904	*
				9.2441	135.02678	114.43565	0.00000	202.74E-6	-2.3940	0.44793	-2.2622	-0.78337	70.904	*
				9.7063	135.17799	114.87243	0.00000	190.14E-6	-2.2451	0.41906	-2.1215	-0.73467	70.904	*
				10.169	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.39242	-1.9804	-0.68579	70.904	*
		117	23K-16	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.31083	1.5003	0.52147	250.84	*
				0.46752	130.09295	116.02838	0.00000	146.59E-6	-1.7309	0.33191	1.6350	0.56828	250.84	*
				0.93504	129.93949	115.58676	0.00000	158.61E-6	-1.8729	0.35430	1.7691	0.61490	250.84	*
				1.4026	129.78604	115.14515	0.00000	170.59E-6	-2.0144	0.37832	1.9027	0.66134	250.84	*
				1.8701	129.63258	114.70353	0.00000	182.53E-6	-2.1553	0.40428	2.0358	0.70761	250.84	*
				2.3376	129.47913	114.26191	0.00000	194.41E-6	-2.2956	0.43247	2.1684	0.75369	250.84	*
				2.8051	129.32567	113.82029	0.00000	206.25E-6	-2.4354	0.46316	2.3004	0.79958	250.84	*
				3.2726	129.17222	113.37867	0.00000	218.05E-6	-2.5747	0.49660	2.4320	0.84530	250.84	*
				3.7402	129.01876	112.93705	0.00000	229.79E-6	-2.7134	0.53302	2.5630	0.89083	250.84	*
				4.2077	128.86531	112.49544	0.00000	241.49E-6	-2.8515	0.57265	2.6935	0.93619	250.84	*
				4.6752	128.71185	112.05382	0.00000	253.14E-6	-2.9891	0.61568	2.8234	0.98136	250.84	*
				5.1427	128.55840	111.61220	0.00000	264.75E-6	-3.1261	0.66230	2.9529	1.0263	250.84	*
				5.6102	128.40495	111.17058	0.00000	276.31E-6	-3.2626	0.71268	3.0818	1.0712	250.84	*
				6.0778	128.25149	110.72896	0.00000	287.82E-6	-3.3986	0.76697	3.2102	1.1158	250.84	*
				6.5453	128.09804	110.28735	0.00000	299.28E-6	-3.5339	0.82531	3.3380	1.1602	250.84	*
				7.0128	127.94458	109.84573	0.00000	310.70E-6	-3.6687	0.88781	3.4654	1.2045	250.84	*
				7.4803	127.79113	109.40411	0.00000	322.07E-6	-3.8030	0.95458	3.5922	1.2486	250.84	*
				7.9478	127.63767	108.96249	0.00000	333.40E-6	-3.9367	1.0257	3.7185	1.2925	250.84	*
				8.4154	127.48422	108.52087	0.00000	344.67E-6	-4.0699	1.1013	3.8443	1.3362	250.84	*
				8.8829	127.33076	108.07925	0.00000	355.90E-6	-4.2025	1.1813	3.9695	1.3797	250.84	*
				9.3504	127.17731	107.63764	0.00000	367.09E-6	-4.3345	1.2659	4.0943	1.4231	250.84	*
				9.8179	127.02385	107.19602	0.00000	378.22E-6	-4.4660	1.3716	4.2185	1.4663	250.84	*
				10.285	126.87040	106.75440	0.00000	389.31E-6	-4.5970	1.5536	4.3422	1.5092	250.84	*
		118	23K-17	0.0	150.73130	109.63110	0.00000	369.97E-6	-4.3686	1.0419	1.4473	-4.1218	340.66	*
				0.45094	151.15679	109.48174	0.00000	374.71E-6	-4.4246	1.0675	1.4658	-4.1747	340.66	*
				0.90189	151.58228	109.33238	0.00000	379.45E-6	-4.4806	1.0936	1.4844	-4.2276	340.66	*
				1.3528	152.00777	109.18302	0.00000	384.20E-6	-4.5366	1.1202	1.5030	-4.2804	340.66	*
				1.8038	152.43326	109.03366	0.00000	388.94E-6	-4.5926	1.1474	1.5215	-4.3333	340.66	*
				2.2547	152.85875	108.88430	0.00000	393.69E-6	-4.6487	1.1750	1.5401	-4.3861	340.66	*
				2.7057	153.28424	108.73494	0.00000	398.43E-6	-4.7047	1.2033	1.5586	-4.4390	340.66	*
				3.1566	153.70973	108.58558	0.00000	403.18E-6	-4.7607	1.2320	1.5772	-4.4919	340.66	*
				3.6075	154.13522	108.43622	0.00000	407.92E-6	-4.8167	1.2613	1.5958	-4.5447	340.66	*
				4.0585	154.56071	108.28686	0.00000	412.67E-6	-4.8728	1.2910	1.6143	-4.5976	340.66	*
				4.5094	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.3214	1.6329	-4.6504	340.66	*
		119	23K-18	0.0	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.3214	4.6664	1.5866	251.23	*
				0.44565	154.84277	107.71556	0.00000	430.81E-6	-5.0870	1.4168	4.8162	1.6376	251.23	*
				0.89130	154.69933	107.29362	0.00000	444.21E-6	-5.2452	1.5174	4.9660	1.6885	251.23	*
				1.3370	154.55593	106.87168	0.00000	457.61E-6	-5.4034	1.7052	5.1158	1.7394	251.23	*
				1.7826	154.41250	106.44973	0.00000	471.01E-6	-5.5617	1.9009	5.2656	1.7904	251.23	*
				2.2283	154.26907	106.02779	0.00000	484.41E-6	-5.7199	2.1019	5.4154	1.8413	251.23	*
				2.6739	154.12565	105.60585	0.00000	497.81E-6	-5.8781	2.3082	5.5652	1.8922	251.23	*
				3.1196	153.98222	105.18391	0.00000	511.21E-6	-6.0363	2.5199	5.7150	1.9432	251.23	*
				3.5652	153.83880	104.76197	0.00000	524.61E-6	-6.1946	2.7369	5.8648	1.9941	251.23	*
				4.0109	153.69537	104.34002	0.00000	538.01E-6	-6.3528	2.9592	6.0146	2.0450	251.23	*
				4.4565	153.55195	103.91808	0.00000	551.41E-6	-6.5110	3.1868	6.1644	2.0960	251.23	*
				4.9022	153.40852	103.49614	0.00000	564.81E-6	-6.6692	3.4195	6.3142	2.1469	251.23	*
				5.3478	153.26510	103.07420	0.00000	578.21E-6	-6.8275	3.6573	6.4640	2.1978	251.23	*
		120	23K-19	0.0	153.26510	103.07420	0.00000	578.21E-6	-6.8275	3.6573	-2.2510	6.4457	160.75	*
				0.45393	152.83663	103.22379	0.00000	573.45E-6	-6.7713	3.5757	-2.2325	6.3927	160.75	*
				0.90766	152.40816	103.37338	0.00000	568.70E-6	-6.7152	3.4945	-2.2140	6.3398	160.75	*
				1.3615	151.97969	103.52297	0.00000	563.95E-6	-6.6591	3.4138	-2.1955	6.2868	160.75	*
				1.8153	151.55122	103.67256	0.00000	559.20E-6	-6.6030	3.3335	-2.1770	6.2338	160.75	*
				2.2692	151.12275	103.82215	0.00000	554.45E-6	-6.5469	3.2538	-2.1585	6.1809	160.75	*
				2.7230	150.69428	103.97174	0.00000	549.70E-6	-6.4908	3.1745	-2.1400	6.1279	160.75	*
				3.1768	150.26581	104.12133	0.00000	544.94E-6	-6.4347	3.0957	-2.1215	6.0749	160.75	*
				3.6307	149.83734	104.27092	0.00000	540.19E-6	-6.3786	3.0174	-2.1030	6.0219	160.75	*
				4.0845	149.40887	104.42051	0.00000	535.44E-6	-6.3225	2.9396	-2.0845	5.9690	160.75	*
				4.5383	148.98040	104.57010	0.00000	530.69E-6	-6.2664	2.8623	-2.0660	5.9160	160.75	*
		121	23AB-01	0.0	147.70060	95.28400	0.00000	894.39E-6	-10.561	8.8173	-0.72483	-10.536	3.9404	*
				0.40048	148.10013	95.31152	0.00000	893.08E-6	-10.545	8.7941	-0.72377	-10.521	3.9404	*
				0.80095	148.49966	95.33904	0.00000	891.77E-6	-10.530	8.7708	-0.72271	-10.505	3.9404	*
				1.2014	148.89919	95.36656	0.00000	890.46E-6	-10.515	8.7472	-0.72165	-10.490	3.9404	*
				1.6019	149.29872	95.39408	0.00000	889.15E-6	-10.499	8.7235	-0.72059	-10.474	3.9404	*
				2.0024	149.69825	95.42160	0.00000	887.84E-6	-10.484	8.6997	-0.71953	-10.459	3.9404	*
				2.4029	150.09778	95.44912	0.00000	886.54E-6	-10.468	8.6757	-0.71847	-10.444	3.9404	*
				2.8033	150.49731	95.47664	0.00000	885.23E-6	-10.453	8.6515	-0.71741	-10.428	3.9404	*
				3.2038	150.89684	95.50416	0.00000	883.92E-6	-10.437	8.6271	-0.71635	-10.413	3.9404	*
				3.6043	151.29637	95.53168	0.00000	882.62E-6	-10.422	8.6026	-0.71529	-10.397	3.9404	*
				4.0048	151.69590	95.55920	0.00000	881.31E-6	-10.407	8.5779	-0.71424	-10.382	3.9404	*
		122	23AB-02	0.0	151.69590	95.55920	0.00000	881.31E-6	-10.407	8.5779	-10.373	0.83013	94.580	*
				0.10895	151.68720	95.66780	0.00000	876.15E-6	-10.346	8.5007	-10.313	0.82527	94.580	*
				0.21790	151.67850	95.77640	0.00000	871.00E-6	-10.285	8.4235	-10.252	0.82042	94.580	*
		123	23AB-03	0.0	151.67850	95.77640	0.00000	871.00E-6	-10.285	8.4235	-0.72345	-10.259	4.0385	*
				0.47908	152.15639	95.81014	0.00000	869.40E-6	-10.266	8.3934	-0.72212	-10.240	4.0385	*
				0.95816	152.63428	95.84388	0.00000	867.80E-6	-10.247	8.3631	-0.72080	-10.222	4.0385	*
				1.4372	153.11217	95.87762	0.00000	866.20E-6	-10.228	8.3325	-0.71947	-10.203	4.0385	*
				1.9163	153.59006	95.91136	0.00000	864.61E-6	-10.209	8.3017	-0.71814	-10.184	4.0385	*
				2.3954	154.06795	95.94510	0.00000	863.01E-6	-10.190	8.2707	-0.71682	-10.165	4.0385	*
				2.8745	154.54584	95.97884	0.00000	861.41E-6	-10.172	8.2395	-0.71549	-10.146	4.0385	*
				3.3536	155.02373	96.01258	0.00000	859.82E-6	-10.153	8.2080	-0.71417	-10.128	4.0385	*
				3.8326	155.50162	96.04632	0.00000	858.22E-6	-10.134	8.1764	-0.71284	-10.109	4.0385	*
				4.3117	155.97951	96.08006	0.00000	856.63E-6	-10.115	8.1445	-0.71152	-10.090	4.0385	*
				4.7908	156.45740	96.11380	0.00000	855.03E-6	-10.096	8.1125	-0.71019	-10.071	4.0385	*
		124	23AB-04	0.0	156.45740	96.11380	0.00000	855.03E-6	-10.096	8.1125	10.071	-0.71014	274.04	*
				0.46049	156.48983	95.65445	0.00000	876.80E-6	-10.353	8.4347	10.328	-0.72822	274.04	*
				0.92099	156.52226	95.19510	0.00000	898.66E-6	-10.611	8.7582	10.585	-0.74637	274.04	*
				1.3815	156.55469	94.73575	0.00000	920.60E-6	-10.870	9.0828	10.844	-0.76459	274.04	*
				1.8420	156.58711	94.27640	0.00000	942.65E-6	-11.131	9.4079	11.103	-0.78290	274.04	*
				2.3025	156.61954	93.81705	0.00000	964.80E-6	-11.392	9.7332	11.364	-0.80131	274.04	*
				2.7630	156.65197	93.35770	0.00000	987.08E-6	-11.655	10.058	11.627	-0.81981	274.04	*
				3.2235	156.68440	92.89835	0.00000	0.0010095	-11.920	10.382	11.891	-0.83842	274.04	*
				3.6839	156.71683	92.43900	0.00000	0.0010320	-12.186	10.706	12.156	-0.85715	274.04	*
				4.1444	156.74926	91.97965	0.00000	0.0010547	-12.454	11.027	12.423	-0.87599	274.04	*
				4.6049	156.78169	91.52030	0.00000	0.0010776	-12.724	11.347	12.693	-0.89497	274.04	*
				5.0654	156.81411	91.06095	0.00000	0.0011006	-12.996	11.664	12.964	-0.91409	274.04	*
				5.5259	156.84654	90.60160	0.00000	0.0011238	-13.270	11.978	13.237	-0.93335	274.04	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				5.9864	156.87897	90.14225	0.00000	0.0011472	-13.546	12.288	13.512	-0.95277	274.04	*
				6.4469	156.91140	89.68290	0.00000	0.0011707	-13.824	12.595	13.790	-0.97235	274.04	*
		125	23AB-05	0.0	156.91140	89.68290	0.00000	0.0011707	-13.824	12.595	-0.94491	-13.792	3.9242	*
				0.25352	157.16432	89.70025	0.00000	0.0011699	-13.814	12.574	-0.94419	-13.781	3.9242	*
				0.50704	157.41725	89.71760	0.00000	0.0011690	-13.803	12.553	-0.94347	-13.771	3.9242	*
				0.76056	157.67018	89.73495	0.00000	0.0011681	-13.793	12.532	-0.94275	-13.760	3.9242	*
				1.0141	157.92310	89.75230	0.00000	0.0011672	-13.782	12.511	-0.94203	-13.750	3.9242	*
		126	23AB-06	0.0	157.92310	89.75230	0.00000	0.0011672	-13.782	12.511	13.737	-1.1073	274.61	*
				0.45735	157.95989	89.29643	0.00000	0.0011907	-14.060	12.810	14.015	-1.1297	274.61	*
				0.91471	157.99667	88.84056	0.00000	0.0012145	-14.341	13.104	14.295	-1.1523	274.61	*
				1.3721	158.03346	88.38469	0.00000	0.0012385	-14.624	13.393	14.577	-1.1750	274.61	*
				1.8294	158.07024	87.92881	0.00000	0.0012627	-14.910	13.677	14.862	-1.1980	274.61	*
				2.2868	158.10703	87.47294	0.00000	0.0012872	-15.199	13.955	15.150	-1.2212	274.61	*
				2.7441	158.14381	87.01707	0.00000	0.0013119	-15.491	14.227	15.441	-1.2446	274.61	*
				3.2015	158.18060	86.56120	0.00000	0.0013368	-15.785	14.493	15.734	-1.2683	274.61	*
				3.6588	158.21739	86.10533	0.00000	0.0013621	-16.083	14.753	16.031	-1.2922	274.61	*
				4.1162	158.25417	85.64946	0.00000	0.0013875	-16.384	15.006	16.331	-1.3164	274.61	*
				4.5735	158.29096	85.19359	0.00000	0.0014133	-16.688	15.254	16.634	-1.3409	274.61	*
				5.0309	158.32774	84.73771	0.00000	0.0014394	-16.996	15.495	16.941	-1.3656	274.61	*
				5.4882	158.36453	84.28184	0.00000	0.0014657	-17.307	15.731	17.251	-1.3906	274.61	*
				5.9456	158.40131	83.82597	0.00000	0.0014924	-17.622	15.961	17.565	-1.4159	274.61	*
				6.4029	158.43810	83.37010	0.00000	0.0015194	-17.941	16.188	17.883	-1.4415	274.61	*
		127	23AB-07	0.0	158.43810	83.37010	0.00000	0.0015194	-17.941	16.188	1.4412	17.883	184.61	*
				0.41980	158.01966	83.33634	0.00000	0.0015214	-17.965	16.237	1.4431	17.907	184.61	*
				0.83960	157.60122	83.30258	0.00000	0.0015234	-17.988	16.285	1.4450	17.930	184.61	*
				1.2594	157.18277	83.26882	0.00000	0.0015254	-18.012	16.331	1.4469	17.954	184.61	*
				1.6792	156.76433	83.23507	0.00000	0.0015274	-18.036	16.377	1.4488	17.978	184.61	*
				2.0990	156.34589	83.20131	0.00000	0.0015295	-18.060	16.421	1.4508	18.001	184.61	*
				2.5188	155.92745	83.16755	0.00000	0.0015315	-18.084	16.464	1.4527	18.025	184.61	*
				2.9386	155.50901	83.13379	0.00000	0.0015335	-18.107	16.506	1.4546	18.049	184.61	*
				3.3584	155.09057	83.10003	0.00000	0.0015355	-18.131	16.547	1.4565	18.073	184.61	*
				3.7782	154.67212	83.06628	0.00000	0.0015375	-18.155	16.587	1.4584	18.097	184.61	*
				4.1980	154.25368	83.03252	0.00000	0.0015396	-18.179	16.627	1.4603	18.120	184.61	*
				4.6178	153.83524	82.99876	0.00000	0.0015416	-18.203	16.665	1.4623	18.144	184.61	*
				5.0376	153.41680	82.96500	0.00000	0.0015436	-18.227	16.702	1.4642	18.168	184.61	*
		128	23AB-08	0.0	153.41680	82.96500	0.00000	0.0015436	-18.227	16.702	-18.168	1.4618	94.605	*
				0.14075	153.40550	83.10530	0.00000	0.0015352	-18.128	16.629	-18.069	1.4538	94.605	*
				0.28151	153.39420	83.24560	0.00000	0.0015268	-18.028	16.556	-17.970	1.4458	94.605	*
		129	23AB-09	0.0	153.39420	83.24560	0.00000	0.0015268	-18.028	16.556	1.1178	17.994	183.56	*
				0.46923	152.92588	83.21647	0.00000	0.0015285	-18.049	16.592	1.1191	18.014	183.56	*
				0.93846	152.45755	83.18733	0.00000	0.0015303	-18.069	16.627	1.1204	18.035	183.56	*
				1.4077	151.98923	83.15820	0.00000	0.0015320	-18.090	16.661	1.1216	18.055	183.56	*
				1.8769	151.52090	83.12907	0.00000	0.0015338	-18.111	16.694	1.1229	18.076	183.56	*
				2.3462	151.05258	83.09993	0.00000	0.0015355	-18.131	16.726	1.1242	18.096	183.56	*
				2.8154	150.58425	83.07080	0.00000	0.0015372	-18.152	16.757	1.1255	18.117	183.56	*
				3.2846	150.11593	83.04167	0.00000	0.0015390	-18.172	16.787	1.1267	18.137	183.56	*
				3.7538	149.64760	83.01253	0.00000	0.0015407	-18.193	16.816	1.1280	18.158	183.56	*
				4.2231	149.17928	82.98340	0.00000	0.0015425	-18.214	16.845	1.1293	18.179	183.56	*
				4.6923	148.71095	82.95427	0.00000	0.0015442	-18.234	16.873	1.1306	18.199	183.56	*
				5.1615	148.24263	82.92513	0.00000	0.0015460	-18.255	16.900	1.1319	18.220	183.56	*
				5.6308	147.77430	82.89600	0.00000	0.0015478	-18.276	16.927	1.1332	18.241	183.56	*
		130	23AB-10	0.0	147.77430	82.89600	0.00000	0.0015478	-18.276	16.927	-18.219	1.4351	94.509	*
				0.38164	147.74430	83.27646	0.00000	0.0015249	-18.006	16.723	-17.951	1.4139	94.509	*
				0.76329	147.71430	83.65693	0.00000	0.0015023	-17.739	16.518	-17.685	1.3930	94.509	*
				1.1449	147.68430	84.03739	0.00000	0.0014799	-17.475	16.311	-17.421	1.3722	94.509	*
				1.5266	147.65430	84.41785	0.00000	0.0014578	-17.214	16.101	-17.160	1.3517	94.509	*
				1.9082	147.62430	84.79831	0.00000	0.0014358	-16.954	15.888	-16.902	1.3313	94.509	*
				2.2899	147.59430	85.17878	0.00000	0.0014141	-16.698	15.672	-16.646	1.3112	94.509	*
				2.6715	147.56430	85.55924	0.00000	0.0013926	-16.444	15.451	-16.393	1.2912	94.509	*
				3.0531	147.53430	85.93970	0.00000	0.0013712	-16.192	15.227	-16.142	1.2714	94.509	*
		131	23AB-11	0.0	147.53430	85.93970	0.00000	0.0013712	-16.192	15.227	-1.1061	-16.154	3.9220	*
				0.46163	147.99485	85.97128	0.00000	0.0013695	-16.171	15.200	-1.1047	-16.133	3.9220	*
				0.92326	148.45540	86.00285	0.00000	0.0013677	-16.150	15.172	-1.1033	-16.112	3.9220	*
				1.3849	148.91595	86.03442	0.00000	0.0013660	-16.129	15.144	-1.1019	-16.092	3.9220	*
				1.8465	149.37650	86.06600	0.00000	0.0013642	-16.109	15.115	-1.1004	-16.071	3.9220	*
		132	23AB-12	0.0	149.37650	86.06600	0.00000	0.0013642	-16.109	15.115	-16.071	1.1004	93.922	*
				0.47810	149.34380	86.54298	0.00000	0.0013378	-15.797	14.828	-15.760	1.0791	93.922	*
				0.95621	149.31110	87.01997	0.00000	0.0013117	-15.488	14.535	-15.452	1.0580	93.922	*
				1.4343	149.27840	87.49695	0.00000	0.0012859	-15.183	14.236	-15.148	1.0372	93.922	*
				1.9124	149.24570	87.97393	0.00000	0.0012603	-14.881	13.931	-14.847	1.0166	93.922	*
				2.3905	149.21300	88.45092	0.00000	0.0012350	-14.583	13.620	-14.549	0.99615	93.922	*
				2.8686	149.18030	88.92790	0.00000	0.0012099	-14.287	13.304	-14.253	0.97593	93.922	*
		133	23AB-13	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	13.304	1.2452	14.232	185.01	*
				0.25818	148.92310	88.90537	0.00000	0.0012111	-14.301	13.323	1.2464	14.246	185.01	*
				0.51637	148.66590	88.88285	0.00000	0.0012123	-14.314	13.343	1.2476	14.260	185.01	*
				0.77455	148.40870	88.86033	0.00000	0.0012134	-14.328	13.362	1.2489	14.274	185.01	*
				1.0327	148.15150	88.83780	0.00000	0.0012146	-14.342	13.381	1.2501	14.288	185.01	*
		134	23AB-14	0.0	148.15150	88.83780	0.00000	0.0012146	-14.342	13.381	-14.307	0.99956	94.001	*
				0.46157	148.11929	89.29824	0.00000	0.0011906	-14.059	13.071	-14.025	0.97980	94.001	*
				0.92314	148.08709	89.75869	0.00000	0.0011668	-13.778	12.758	-13.744	0.96021	94.001	*
				1.3847	148.05488	90.21913	0.00000	0.0011432	-13.499	12.440	-13.466	0.94079	94.001	*
				1.8463	148.02267	90.67957	0.00000	0.0011198	-13.223	12.119	-13.191	0.92153	94.001	*
				2.3079	147.99046	91.14001	0.00000	0.0010966	-12.949	11.795	-12.917	0.90243	94.001	*
				2.7694	147.95826	91.60046	0.00000	0.0010735	-12.676	11.468	-12.646	0.88346	94.001	*
				3.2310	147.92605	92.06090	0.00000	0.0010507	-12.406	11.140	-12.376	0.86464	94.001	*
				3.6925	147.89384	92.52134	0.00000	0.0010280	-12.138	10.809	-12.109	0.84594	94.001	*
				4.1541	147.86164	92.98179	0.00000	0.0010054	-11.871	10.478	-11.843	0.82736	94.001	*
				4.6157	147.82943	93.44223	0.00000	982.94E-6	-11.607	10.146	-11.578	0.80890	94.001	*
				5.0772	147.79722	93.90267	0.00000	960.63E-6	-11.343	9.8129	-11.316	0.79054	94.001	*
				5.5388	147.76501	94.36311	0.00000	938.44E-6	-11.081	9.4804	-11.054	0.77228	94.001	*
				6.0004	147.73281	94.82356	0.00000	916.37E-6	-10.820	9.1484	-10.794	0.75411	94.001	*
				6.4620	147.70060	95.28400	0.00000	894.39E-6	-10.561	8.8173	-10.535	0.73602	94.001	*
		135	23AB-15	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	13.304	-1.3892	-14.219	5.5852	*
				0.48350	149.66150	88.97496	0.00000	0.0012075	-14.258	13.264	-1.3864	-14.190	5.5852	*
				0.96699	150.14270	89.02201	0.00000	0.0012050	-14.229	13.223	-1.3836	-14.161	5.5852	*
				1.4505	150.62390	89.06907	0.00000	0.0012025	-14.200	13.182	-1.3808	-14.132	5.5852	*
				1.9340	151.10510	89.11612	0.00000	0.0012001	-14.171	13.140	-1.3780	-14.104	5.5852	*
				2.4175	151.58630	89.16318	0.00000	0.0011976	-14.142	13.098	-1.3752	-14.075	5.5852	*
				2.9010	152.06750	89.21024	0.00000	0.0011952	-14.113	13.055	-1.3724	-14.046	5.5852	*
				3.3845	152.54870	89.25729	0.00000	0.0011928	-14.084	13.012	-1.3695	-14.017	5.5852	*
				3.8680	153.02990	89.30435	0.00000	0.0011903	-14.055	12.968	-1.3667	-13.989	5.5852	*
				4.3515	153.51110	89.35141	0.00000	0.0011879	-14.026	12.923	-1.3639	-13.960	5.5852	*
				4.8350	153.99230	89.39846	0.00000	0.0011854	-13.998	12.878	-1.3611	-13.931	5.5852	*
				5.3184	154.47350	89.44552	0.00000	0.0011830	-13.969	12.833	-1.3583	-13.903	5.5852	*
				5.8019	154.95470	89.49258	0.00000	0.0011806	-13.940	12.787	-1.3556	-13.874	5.5852	*
				6.2854	155.43590	89.53963	0.00000	0.0011781	-13.911	12.740	-1.3528	-13.846	5.5852	*
				6.7689	155.91710	89.58669	0.00000	0.0011757	-13.883	12.693	-1.3500	-13.817	5.5852	*
				7.2524	156.39830	89.63374	0.00000	0.0011733	-13.854	12.646	-1.3472	-13.788	5.5852	*
				7.7359	156.87950	89.68080	0.00000	0.0011709	-13.825	12.597	-1.3444	-13.760	5.5852	*
		136	28K-01	0.0	157.04370	132.95660	0.00000	0.0	0.0	-0.011129	0.0	0.0	333.20	*
				0.46362	157.45751	132.74754	0.00000	0.0	0.0	-0.010798	0.0	0.0	333.20	*
				0.92724	157.87132	132.53848	0.00000	0.0	0.0	-0.010468	0.0	0.0	333.20	*
				1.3909	158.28512	132.32941	0.00000	0.0	0.0	-0.010136	0.0	0.0	333.20	*
				1.8545	158.69893	132.12035	0.00000	0.0	0.0	-0.0098054	0.0	0.0	333.20	*
				2.3181	159.11274	131.91129	0.00000	0.0	0.0	-0.0094744	0.0	0.0	333.20	*
				2.7817	159.52655	131.70222	0.00000	0.0	0.0	-0.0091439	0.0	0.0	333.20	*
				3.2453	159.94036	131.49316	0.00000	0.0	0.0	-0.0088138	0.0	0.0	333.20	*
				3.7090	160.35417	131.28410	0.00000	0.0	0.0	-0.0084845	0.0	0.0	333.20	*
				4.1726	160.76798	131.07504	0.00000	0.0	0.0	-0.0081562	0.0	0.0	333.20	*
				4.6362	161.18178	130.86597	0.00000	0.0	0.0	-0.0078291	0.0	0.0	333.20	*
				5.0998	161.59559	130.65691	0.00000	0.0	0.0	-0.0075033	0.0	0.0	333.20	*
				5.5635	162.00940	130.44785	0.00000	0.0	0.0	-0.0071791	0.0	0.0	333.20	*
				6.0271	162.42321	130.23879	0.00000	0.0	0.0	-0.0068567	0.0	0.0	333.20	*
				6.4907	162.83702	130.02973	0.00000	0.0	0.0	-0.0065364	0.0	0.0	333.20	*
				6.9543	163.25082	129.82066	0.00000	0.0	0.0	-0.0062183	0.0	0.0	333.20	*
				7.4179	163.66463	129.61160	0.00000	0.0	0.0	-0.0059027	0.0	0.0	333.20	*
				7.8816	164.07844	129.40254	0.00000	0.0	0.0	-0.0055899	0.0	0.0	333.20	*
				8.3452	164.49225	129.19348	0.00000	0.0	0.0	-0.0052800	0.0	0.0	333.20	*
				8.8088	164.90606	128.98441	0.00000	0.0	0.0	-0.0049732	0.0	0.0	333.20	*
				9.2724	165.31987	128.77535	0.00000	0.0	0.0	-0.0046699	0.0	0.0	333.20	*

Stage: Ref.	Stage: Name	Disp. Line: Ref.	Disp. Line: Name	Chainage [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	δH// [mm]	δHperp. [mm]	Angle [°]	
				9.7360	165.73368	128.56629	0.00000	0.0	0.0	-0.0043703	0.0	0.0	333.20	*
				10.200	166.14748	128.35722	0.00000	0.0	0.0	-0.0040745	0.0	0.0	333.20	*
				10.663	166.56129	128.14816	0.00000	0.0	0.0	-0.0037829	0.0	0.0	333.20	*
				11.127	166.97510	127.93910	0.00000	0.0	0.0	-0.0034956	0.0	0.0	333.20	*
		137	28K-02	0.0	166.97510	127.93910	0.00000	0.0	0.0	-0.0034956	0.0	0.0	270.00	*
				0.46979	166.97510	127.46931	0.00000	0.0	0.0	-0.0020654	0.0	0.0	270.00	*
				0.93957	166.97510	126.99953	0.00000	0.0	0.0	-565.96E-6	0.0	0.0	270.00	*
				1.4094	166.97510	126.52974	0.00000	0.0	0.0	0.0010057	0.0	0.0	270.00	*
				1.8791	166.97510	126.05995	0.00000	0.0	0.0	0.0026526	0.0	0.0	270.00	*
				2.3489	166.97510	125.59016	0.00000	0.0	0.0	0.0043780	0.0	0.0	270.00	*
				2.8187	166.97510	125.12037	0.00000	0.0	0.0	0.0061853	0.0	0.0	270.00	*
				3.2885	166.97510	124.65059	0.00000	0.0	0.0	0.0080779	0.0	0.0	270.00	*
				3.7583	166.97510	124.18080	0.00000	0.0	0.0	0.010060	0.0	0.0	270.00	*
		138	28K-03	0.0	166.97510	124.18080	0.00000	0.0	0.0	0.010060	0.0	0.0	243.20	*
				0.49736	166.75082	123.73688	0.00000	0.0	0.0	0.012312	0.0	0.0	243.20	*
				0.99472	166.52654	123.29296	0.00000	0.0	0.0	0.014679	0.0	0.0	243.20	*
				1.4921	166.30227	122.84903	0.00000	0.0	0.0	0.017168	0.0	0.0	243.20	*
				1.9894	166.07799	122.40511	0.00000	0.0	0.0	0.019782	0.0	0.0	243.20	*
				2.4868	165.85371	121.96119	0.00000	0.0	0.0	0.022530	0.0	0.0	243.20	*
				2.9842	165.62943	121.51727	0.00000	0.0	0.0	0.025415	0.0	0.0	243.20	*
				3.4815	165.40516	121.07334	0.00000	6.6222E-6	-0.078195	0.053772	0.069791	0.035267	243.20	*
				3.9789	165.18088	120.62942	0.00000	20.720E-6	-0.24466	0.087743	0.21836	0.11034	243.20	*
				4.4762	164.95660	120.18550	0.00000	34.817E-6	-0.41112	0.11824	0.36693	0.18542	243.20	*
				4.9736	164.73232	119.74158	0.00000	48.914E-6	-0.57758	0.14584	0.51550	0.26050	243.20	*
				5.4710	164.50804	119.29766	0.00000	63.012E-6	-0.74404	0.17109	0.66407	0.33557	243.20	*
				5.9683	164.28377	118.85373	0.00000	77.109E-6	-0.91050	0.19453	0.81264	0.41065	243.20	*
				6.4657	164.05949	118.40981	0.00000	91.206E-6	-1.0770	0.21668	0.96121	0.48572	243.20	*
				6.9630	163.83521	117.96589	0.00000	105.30E-6	-1.2434	0.23802	1.1098	0.56080	243.20	*
				7.4604	163.61093	117.52197	0.00000	119.40E-6	-1.4099	0.25905	1.2584	0.63588	243.20	*
				7.9578	163.38666	117.07804	0.00000	133.50E-6	-1.5764	0.28023	1.4069	0.71095	243.20	*
				8.4551	163.16238	116.63412	0.00000	147.60E-6	-1.7428	0.30199	1.5555	0.78603	243.20	*
				8.9525	162.93810	116.19020	0.00000	161.69E-6	-1.9093	0.32477	1.7041	0.86111	243.20	*
		139	28K-04	0.0	162.93810	116.19020	0.00000	161.69E-6	-1.9093	0.32477	-0.83319	1.7179	154.13	*
				0.48162	162.50474	116.40034	0.00000	155.02E-6	-1.8305	0.31530	-0.79880	1.6470	154.13	*
				0.96323	162.07139	116.61048	0.00000	148.34E-6	-1.7516	0.30603	-0.76441	1.5761	154.13	*
				1.4449	161.63803	116.82061	0.00000	141.67E-6	-1.6728	0.29692	-0.73001	1.5051	154.13	*
				1.9265	161.20468	117.03075	0.00000	134.99E-6	-1.5940	0.28793	-0.69562	1.4342	154.13	*
				2.4081	160.77132	117.24089	0.00000	128.32E-6	-1.5152	0.27901	-0.66122	1.3633	154.13	*
				2.8897	160.33796	117.45103	0.00000	121.65E-6	-1.4364	0.27012	-0.62683	1.2924	154.13	*
				3.3713	159.90461	117.66116	0.00000	114.97E-6	-1.3576	0.26121	-0.59244	1.2215	154.13	*
				3.8529	159.47125	117.87130	0.00000	108.30E-6	-1.2788	0.25224	-0.55804	1.1506	154.13	*
				4.3346	159.03789	118.08144	0.00000	101.62E-6	-1.1999	0.24316	-0.52365	1.0797	154.13	*
				4.8162	158.60454	118.29158	0.00000	94.947E-6	-1.1211	0.23392	-0.48925	1.0087	154.13	*
				5.2978	158.17118	118.50171	0.00000	88.272E-6	-1.0423	0.22448	-0.45486	0.93783	154.13	*
				5.7794	157.73782	118.71185	0.00000	81.598E-6	-0.96351	0.21478	-0.42047	0.86692	154.13	*
				6.2610	157.30447	118.92199	0.00000	74.923E-6	-0.88469	0.20477	-0.38607	0.79601	154.13	*
				6.7426	156.87111	119.13213	0.00000	68.248E-6	-0.80588	0.19441	-0.35168	0.72509	154.13	*
				7.2243	156.43776	119.34226	0.00000	61.574E-6	-0.72706	0.18363	-0.31728	0.65418	154.13	*
				7.7059	156.00440	119.55240	0.00000	54.899E-6	-0.64825	0.17239	-0.28289	0.58326	154.13	*
		140	28K-05	0.0	156.00440	119.55240	0.00000	54.899E-6	-0.64825	0.17239	-0.58189	-0.28572	63.853	*
				0.45854	156.20647	119.96402	0.00000	41.827E-6	-0.49390	0.14730	-0.44334	-0.21769	63.853	*
				0.91709	156.40854	120.37564	0.00000	28.756E-6	-0.33955	0.11997	-0.30479	-0.14966	63.853	*
				1.3756	156.61061	120.78726	0.00000	15.684E-6	-0.18520	0.089949	-0.16624	-0.081627	63.853	*
				1.8342	156.81268	121.19888	0.00000	2.6125E-6	-0.030849	0.056786	-0.027691	-0.013597	63.853	*
				2.2927	157.01474	121.61049	0.00000	0.0	0.0	0.037679	0.0	0.0	63.853	*
				2.7513	157.21681	122.02211	0.00000	0.0	0.0	0.034537	0.0	0.0	63.853	*
				3.2098	157.41888	122.43373	0.00000	0.0	0.0	0.031528	0.0	0.0	63.853	*
				3.6683	157.62095	122.84535	0.00000	0.0	0.0	0.028648	0.0	0.0	63.853	*
				4.1269	157.82302	123.25697	0.00000	0.0	0.0	0.025890	0.0	0.0	63.853	*
				4.5854	158.02509	123.66859	0.00000	0.0	0.0	0.023251	0.0	0.0	63.853	*
				5.0440	158.22716	124.08021	0.00000	0.0	0.0	0.020725	0.0	0.0	63.853	*
				5.5025	158.42923	124.49183	0.00000	0.0	0.0	0.018307	0.0	0.0	63.853	*
				5.9611	158.63129	124.90344	0.00000	0.0	0.0	0.015995	0.0	0.0	63.853	*
				6.4196	158.83336	125.31506	0.00000	0.0	0.0	0.013783	0.0	0.0	63.853	*
				6.8781	159.03543	125.72668	0.00000	0.0	0.0	0.011667	0.0	0.0	63.853	*
				7.3367	159.23750	126.13830	0.00000	0.0	0.0	0.0096436	0.0	0.0	63.853	*
		141	28K-06	0.0	159.23750	126.13830	0.00000	0.0	0.0	0.0096436	0.0	0.0	153.85	*
				0.49484	158.79330	126.35637	0.00000	0.0	0.0	0.0090637	0.0	0.0	153.85	*
				0.98968	158.34910	126.57444	0.00000	0.0	0.0	0.0084806	0.0	0.0	153.85	*
				1.4845	157.90490	126.79251	0.00000	0.0	0.0	0.0078949	0.0	0.0	153.85	*
				1.9794	157.46070	127.01058	0.00000	0.0	0.0	0.0073070	0.0	0.0	153.85	*
				2.4742	157.01650	127.22865	0.00000	0.0	0.0	0.0067173	0.0	0.0	153.85	*
				2.9690	156.57230	127.44672	0.00000	0.0	0.0	0.0061261	0.0	0.0	153.85	*
				3.4639	156.12810	127.66479	0.00000	0.0	0.0	0.0055339	0.0	0.0	153.85	*
				3.9587	155.68390	127.88286	0.00000	0.0	0.0	0.0049412	0.0	0.0	153.85	*
				4.4536	155.23970	128.10093	0.00000	0.0	0.0	0.0043481	0.0	0.0	153.85	*
				4.9484	154.79550	128.31900	0.00000	0.0	0.0	0.0037553	0.0	0.0	153.85	*
		142	28K-07	0.0	154.79550	128.31900	0.00000	0.0	0.0	0.0037553	0.0	0.0	64.137	*
				0.42948	154.98285	128.70547	0.00000	0.0	0.0	0.0022025	0.0	0.0	64.137	*
				0.85897	155.17020	129.09193	0.00000	0.0	0.0	713.75E-6	0.0	0.0	64.137	*
				1.2885	155.35755	129.47840	0.00000	0.0	0.0	-713.41E-6	0.0	0.0	64.137	*
				1.7179	155.54490	129.86487	0.00000	0.0	0.0	-0.0020812	0.0	0.0	64.137	*
				2.1474	155.73225	130.25133	0.00000	0.0	0.0	-0.0033917	0.0	0.0	64.137	*
				2.5769	155.91960	130.63780	0.00000	0.0	0.0	-0.0046471	0.0	0.0	64.137	*
				3.0064	156.10695	131.02427	0.00000	0.0	0.0	-0.0058494	0.0	0.0	64.137	*
				3.4359	156.29430	131.41073	0.00000	0.0	0.0	-0.0070004	0.0	0.0	64.137	*
				3.8654	156.48165	131.79720	0.00000	0.0	0.0	-0.0081021	0.0	0.0	64.137	*
				4.2948	156.66900	132.18367	0.00000	0.0	0.0	-0.0091563	0.0	0.0	64.137	*
				4.7243	156.85635	132.57013	0.00000	0.0	0.0	-0.010165	0.0	0.0	64.137	*
				5.1538	157.04370	132.95660	0.00000	0.0	0.0	-0.011129	0.0	0.0	64.137	*

* Result includes imported displacement(s).

Displacement Results - Displacement Grids

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
0	Base Model 1	A		0.00000	0.00000	0.00000	0.0	0.0	-0.023741	*
				5.09524	0.00000	0.00000	0.0	0.0	-0.025260	*
				10.19048	0.00000	0.00000	0.0	0.0	-0.026842	*
				15.28571	0.00000	0.00000	0.0	0.0	-0.028477	*
				20.38095	0.00000	0.00000	0.0	0.0	-0.030155	*
				25.47619	0.00000	0.00000	0.0	0.0	-0.031862	*
				30.57143	0.00000	0.00000	0.0	0.0	-0.033583	*
				35.66667	0.00000	0.00000	0.0	0.0	-0.035299	*
				40.76190	0.00000	0.00000	0.0	0.0	-0.036988	*
				45.85714	0.00000	0.00000	0.0	0.0	-0.038628	*
				50.95238	0.00000	0.00000	0.0	0.0	-0.040191	*
				56.04762	0.00000	0.00000	0.0	0.0	-0.041647	*
				61.14286	0.00000	0.00000	0.0	0.0	-0.042954	*
				66.23810	0.00000	0.00000	0.0	0.0	-0.044055	*
				71.33333	0.00000	0.00000	0.0	0.0	-0.044871	*
				76.42857	0.00000	0.00000	0.0	0.0	-0.045303	*
				81.52381	0.00000	0.00000	0.0	0.0	-0.045233	*
				86.61905	0.00000	0.00000	0.0	0.0	-0.044538	*
				91.71429	0.00000	0.00000	0.0	0.0	-0.043114	*
				96.80952	0.00000	0.00000	0.0	0.0	-0.040900	*
				101.90476	0.00000	0.00000	0.0	0.0	-0.037900	*
				107.00000	0.00000	0.00000	0.0	0.0	-0.0068999	*
				0.00000	5.00000	0.00000	0.0	0.0	-0.024546	*
				5.09524	5.00000	0.00000	0.0	0.0	-0.026109	*
				10.19048	5.00000	0.00000	0.0	0.0	-0.027722	*
				15.28571	5.00000	0.00000	0.0	0.0	-0.029374	*
				20.38095	5.00000	0.00000	0.0	0.0	-0.031046	*
				25.47619	5.00000	0.00000	0.0	0.0	-0.032716	*
				30.57143	5.00000	0.00000	0.0	0.0	-0.034361	*
				35.66667	5.00000	0.00000	0.0	0.0	-0.035949	*
				40.76190	5.00000	0.00000	0.0	0.0	-0.037451	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				45.85714	5.00000	0.00000	0.0	0.0	-0.038833	*
				50.95238	5.00000	0.00000	0.0	0.0	-0.040059	*
				56.04762	5.00000	0.00000	0.0	0.0	-0.041091	*
				61.14286	5.00000	0.00000	0.0	0.0	-0.041875	*
				66.23810	5.00000	0.00000	0.0	0.0	-0.042339	*
				71.33333	5.00000	0.00000	0.0	0.0	-0.042371	*
				76.42857	5.00000	0.00000	0.0	0.0	-0.041818	*
				81.52381	5.00000	0.00000	0.0	0.0	-0.040487	*
				86.61905	5.00000	0.00000	0.0	0.0	-0.038168	*
				91.71429	5.00000	0.00000	0.0	0.0	-0.034675	*
				96.80952	5.00000	0.00000	0.0	0.0	-0.029899	*
				101.90476	5.00000	0.00000	0.0	0.0	-0.023846	*
				107.00000	5.00000	0.00000	0.0	0.0	0.0093428	*
				0.00000	10.00000	0.00000	0.0	0.0	-0.025293	*
				5.09524	10.00000	0.00000	0.0	0.0	-0.026878	*
				10.19048	10.00000	0.00000	0.0	0.0	-0.028495	*
				15.28571	10.00000	0.00000	0.0	0.0	-0.030123	*
				20.38095	10.00000	0.00000	0.0	0.0	-0.031735	*
				25.47619	10.00000	0.00000	0.0	0.0	-0.033297	*
				30.57143	10.00000	0.00000	0.0	0.0	-0.034767	*
				35.66667	10.00000	0.00000	0.0	0.0	-0.036100	*
				40.76190	10.00000	0.00000	0.0	0.0	-0.037246	*
				45.85714	10.00000	0.00000	0.0	0.0	-0.038154	*
				50.95238	10.00000	0.00000	0.0	0.0	-0.038777	*
				56.04762	10.00000	0.00000	0.0	0.0	-0.039064	*
				61.14286	10.00000	0.00000	0.0	0.0	-0.038958	*
				66.23810	10.00000	0.00000	0.0	0.0	-0.038368	*
				71.33333	10.00000	0.00000	0.0	0.0	-0.037142	*
				76.42857	10.00000	0.00000	0.0	0.0	-0.035042	*
				81.52381	10.00000	0.00000	0.0	0.0	-0.031742	*
				86.61905	10.00000	0.00000	0.0	0.0	-0.026865	*
				91.71429	10.00000	0.00000	0.0	0.0	-0.020063	*
				96.80952	10.00000	0.00000	0.0	0.0	-0.011117	*
				101.90476	10.00000	0.00000	0.0	0.0	-24.029E-6	*
				107.00000	10.00000	0.00000	0.0	0.0	0.035097	*
				0.00000	15.00000	0.00000	0.0	0.0	-0.025959	*
				5.09524	15.00000	0.00000	0.0	0.0	-0.027537	*
				10.19048	15.00000	0.00000	0.0	0.0	-0.029119	*
				15.28571	15.00000	0.00000	0.0	0.0	-0.030670	*
				20.38095	15.00000	0.00000	0.0	0.0	-0.032148	*
				25.47619	15.00000	0.00000	0.0	0.0	-0.033499	*
				30.57143	15.00000	0.00000	0.0	0.0	-0.034657	*
				35.66667	15.00000	0.00000	0.0	0.0	-0.035547	*
				40.76190	15.00000	0.00000	0.0	0.0	-0.036088	*
				45.85714	15.00000	0.00000	0.0	0.0	-0.036199	*
				50.95238	15.00000	0.00000	0.0	0.0	-0.035806	*
				56.04762	15.00000	0.00000	0.0	0.0	-0.034850	*
				61.14286	15.00000	0.00000	0.0	0.0	-0.033276	*
				66.23810	15.00000	0.00000	0.0	0.0	-0.030993	*
				71.33333	15.00000	0.00000	0.0	0.0	-0.027811	*
				76.42857	15.00000	0.00000	0.0	0.0	-0.023369	*
				81.52381	15.00000	0.00000	0.0	0.0	-0.017104	*
				86.61905	15.00000	0.00000	0.026199	-0.0073971	-923.47E-6	*
				91.71429	15.00000	0.00000	0.10968	-0.030966	0.022175	*
				96.80952	15.00000	0.00000	0.043797	-0.012366	0.027912	*
				101.90476	15.00000	0.00000	0.0	0.0	0.038740	*
				107.00000	15.00000	0.00000	0.0	0.0	0.075275	*
				0.00000	20.00000	0.00000	0.0	0.0	-0.026519	*
				5.09524	20.00000	0.00000	0.0	0.0	-0.028054	*
				10.19048	20.00000	0.00000	0.0	0.0	-0.02954?	*
				15.28571	20.00000	0.00000	0.0	0.0	-0.030948	*
				20.38095	20.00000	0.00000	0.0	0.0	-0.032191	*
				25.47619	20.00000	0.00000	0.0	0.0	-0.033192	*
				30.57143	20.00000	0.00000	0.0	0.0	-0.033846	*
				35.66667	20.00000	0.00000	0.0	0.0	-0.034030	*
				40.76190	20.00000	0.00000	0.0	0.0	-0.033603	*
				45.85714	20.00000	0.00000	0.0	0.0	-0.032425	*
				50.95238	20.00000	0.00000	0.0	0.0	-0.030375	*
				56.04762	20.00000	0.00000	0.0	0.0	-0.027377	*
				61.14286	20.00000	0.00000	0.0	0.0	-0.023401	*
				66.23810	20.00000	0.00000	0.0	0.0	-0.018413	*
				71.33333	20.00000	0.00000	0.0	0.0	-0.012234	*
				76.42857	20.00000	0.00000	0.0	0.0	-0.0043474	*
				81.52381	20.00000	0.00000	0.18747	-0.052930	0.042495	*
				86.61905	20.00000	0.00000	0.39786	-0.11233	0.10192	*
				91.71429	20.00000	0.00000	0.39802	-0.11238	0.17284	*
				96.80952	20.00000	0.00000	0.19672	-0.055542	0.14558	*
				101.90476	20.00000	0.00000	0.0	0.0	0.10039	*
				107.00000	20.00000	0.00000	0.0	0.0	0.13742	*
				0.00000	25.00000	0.00000	0.0	0.0	-0.026945	*
				5.09524	25.00000	0.00000	0.0	0.0	-0.028385	*
				10.19048	25.00000	0.00000	0.0	0.0	-0.029720	*
				15.28571	25.00000	0.00000	0.0	0.0	-0.030874	*
				20.38095	25.00000	0.00000	0.0	0.0	-0.031747	*
				25.47619	25.00000	0.00000	0.0	0.0	-0.032211	*
				30.57143	25.00000	0.00000	0.0	0.0	-0.032100	*
				35.66667	25.00000	0.00000	0.0	0.0	-0.031209	*
				40.76190	25.00000	0.00000	0.0	0.0	-0.029294	*
				45.85714	25.00000	0.00000	0.0	0.0	-0.026095	*
				50.95238	25.00000	0.00000	0.0	0.0	-0.021379	*
				56.04762	25.00000	0.00000	0.0	0.0	-0.015020	*
				61.14286	25.00000	0.00000	0.0	0.0	-0.0070559	*
				66.23810	25.00000	0.00000	0.0	0.0	0.0023443	*
				71.33333	25.00000	0.00000	0.0	0.0	0.013150	*
				76.42857	25.00000	0.00000	0.29476	-0.083223	0.081225	*
				81.52381	25.00000	0.00000	0.73095	-0.20638	0.22960	*
				86.61905	25.00000	0.00000	0.92455	-0.26104	0.41878	*
				91.71429	25.00000	0.00000	0.84991	-0.23997	0.49281	*
				96.80952	25.00000	0.00000	0.50082	-0.14140	0.40791	*
				101.90476	25.00000	0.00000	0.0	0.0	0.19735	*
				107.00000	25.00000	0.00000	0.0	0.0	0.23332	*
				0.00000	30.00000	0.00000	0.0	0.0	-0.027203	*
				5.09524	30.00000	0.00000	0.0	0.0	-0.028485	*
				10.19048	30.00000	0.00000	0.0	0.0	-0.029570	*
				15.28571	30.00000	0.00000	0.0	0.0	-0.030347	*
				20.38095	30.00000	0.00000	0.0	0.0	-0.030670	*
				25.47619	30.00000	0.00000	0.0	0.0	-0.030347	*
				30.57143	30.00000	0.00000	0.0	0.0	-0.029121	*
				35.66667	30.00000	0.00000	0.0	0.0	-0.026656	*
				40.76190	30.00000	0.00000	0.0	0.0	-0.022525	*
				45.85714	30.00000	0.00000	0.0	0.0	-0.016224	*
				50.95238	30.00000	0.00000	0.0	0.0	-0.0072545	*
				56.04762	30.00000	0.00000	0.0	0.0	0.0047018	*
				61.14286	30.00000	0.00000	0.0	0.0	0.019523	*
				66.23810	30.00000	0.00000	0.0	0.0	0.036501	*
				71.33333	30.00000	0.00000	0.19879	-0.056125	0.098539	*
				76.42857	30.00000	0.00000	0.93040	-0.26269	0.29326	*
				81.52381	30.00000	0.00000	1.4297	-0.40366	0.65662	*
				86.61905	30.00000	0.00000	1.6441	-0.46419	0.94474	*
				91.71429	30.00000	0.00000	1.5497	-0.43753	1.0772	*
				96.80952	30.00000	0.00000	1.0929	-0.30856	1.0135	*
				101.90476	30.00000	0.00000	0.23522	0.17355	0.98421	*
				107.00000	30.00000	0.00000	0.36773	1.2699	1.3476	*
				0.00000	35.00000	0.00000	0.0	0.0	-0.027258	*
				5.09524	35.00000	0.00000	0.0	0.0	-0.028298	*
				10.19048	35.00000	0.00000	0.0	0.0	-0.029012	*
				15.28571	35.00000	0.00000	0.0	0.0	-0.029242	*
				20.38095	35.00000	0.00000	0.0	0.0	-0.028777	*
				25.47619	35.00000	0.00000	0.0	0.0	-0.027336	*
				30.57143	35.00000	0.00000	0.0	0.0	-0.024533	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				35.66667	35.00000	0.00000	0.0	0.0	-0.019834	*
				40.76190	35.00000	0.00000	0.0	0.0	-0.012500	*
				45.85714	35.00000	0.00000	0.0	0.0	-0.0015551	*
				50.95238	35.00000	0.00000	0.0	0.0	0.014139	*
				56.04762	35.00000	0.00000	0.0	0.0	0.035557	*
				61.14286	35.00000	0.00000	0.0	0.0	0.062769	*
				66.23810	35.00000	0.00000	0.10996	0.38337	0.40204	*
				71.33333	35.00000	0.00000	0.97966	0.30792	0.85121	*
				76.42857	35.00000	0.00000	1.7595	0.071180	1.5223	*
				81.52381	35.00000	0.00000	2.2644	-0.33147	1.8803	*
				86.61905	35.00000	0.00000	2.6458	-0.70868	1.9083	*
				91.71429	35.00000	0.00000	2.7092	-0.76492	2.3196	*
				96.80952	35.00000	0.00000	2.4800	0.70576	2.8859	*
				101.90476	35.00000	0.00000	1.6042	2.6288	2.9162	*
				107.00000	35.00000	0.00000	1.3392	4.6246	3.0997	*
				0.00000	40.00000	0.00000	0.0	0.0	-0.027071	*
				5.09524	40.00000	0.00000	0.0	0.0	-0.027762	*
				10.19048	40.00000	0.00000	0.0	0.0	-0.027949	*
				15.28571	40.00000	0.00000	0.0	0.0	-0.027406	*
				20.38095	40.00000	0.00000	0.0	0.0	-0.025832	*
				25.47619	40.00000	0.00000	0.0	0.0	-0.022828	*
				30.57143	40.00000	0.00000	0.0	0.0	-0.017839	*
				35.66667	40.00000	0.00000	0.0	0.0	-0.010054	*
				40.76190	40.00000	0.00000	0.0	0.0	0.0017521	*
				45.85714	40.00000	0.00000	0.0	0.0	0.019415	*
				50.95238	40.00000	0.00000	0.076218	0.12418	0.21554	*
				56.04762	40.00000	0.00000	0.26737	0.75399	0.82182	*
				61.14286	40.00000	0.00000	0.40650	1.4173	1.2988	*
				66.23810	40.00000	0.00000	0.95226	2.1590	1.9441	*
				71.33333	40.00000	0.00000	2.2374	1.7180	2.7053	*
				76.42857	40.00000	0.00000	2.8934	1.1056	3.6559	*
				81.52381	40.00000	0.00000	3.0557	0.078473	4.0294	*
				86.61905	40.00000	0.00000	3.8310	-0.85891	4.2018	*
				91.71429	40.00000	0.00000	4.5877	-0.10787	4.6233	*
				96.80952	40.00000	0.00000	4.5882	1.8966	5.3887	*
				101.90476	40.00000	0.00000	3.6028	5.0043	6.0097	*
				107.00000	40.00000	0.00000	2.4083	8.3165	6.2526	*
				0.00000	45.00000	0.00000	0.0	0.0	-0.026607	*
				5.09524	45.00000	0.00000	0.0	0.0	-0.026815	*
				10.19048	45.00000	0.00000	0.0	0.0	-0.026270	*
				15.28571	45.00000	0.00000	0.0	0.0	-0.024648	*
				20.38095	45.00000	0.00000	0.0	0.0	-0.021526	*
				25.47619	45.00000	0.00000	0.0	0.0	-0.016349	*
				30.57143	45.00000	0.00000	0.0	0.0	-0.0083496	*
				35.66667	45.00000	0.00000	0.0	0.0	0.0036198	*
				40.76190	45.00000	0.00000	0.0	0.0	0.021441	*
				45.85714	45.00000	0.00000	0.071868	0.044234	0.16299	*
				50.95238	45.00000	0.00000	0.57913	0.59864	1.1478	*
				56.04762	45.00000	0.00000	0.96466	1.9341	2.2911	*
				61.14286	45.00000	0.00000	1.0054	3.5054	3.3227	*
				66.23810	45.00000	0.00000	2.2872	4.6458	4.6939	*
				71.33333	45.00000	0.00000	3.8223	3.9344	5.6710	*
				76.42857	45.00000	0.00000	4.3352	2.4710	6.5670	*
				81.52381	45.00000	0.00000	4.0220	0.0092943	6.8586	*
				86.61905	45.00000	0.00000	5.1136	-0.86762	7.2249	*
				91.71429	45.00000	0.00000	6.5949	-0.14918	7.6749	*
				96.80952	45.00000	0.00000	7.4120	2.0706	8.7891	*
				101.90476	45.00000	0.00000	6.4338	5.9777	10.571	*
				107.00000	45.00000	0.00000	3.4324	11.831	10.805	*
				0.00000	50.00000	0.00000	0.0	0.0	-0.025834	*
				5.09524	50.00000	0.00000	0.0	0.0	-0.025395	*
				10.19048	50.00000	0.00000	0.0	0.0	-0.023857	*
				15.28571	50.00000	0.00000	0.0	0.0	-0.020748	*
				20.38095	50.00000	0.00000	0.0	0.0	-0.015461	*
				25.47619	50.00000	0.00000	0.0	0.0	-0.0072247	*
				30.57143	50.00000	0.00000	0.0	0.0	0.0049733	*
				35.66667	50.00000	0.00000	0.0	0.0	0.022620	*
				40.76190	50.00000	0.00000	0.0	0.0	0.048291	*
				45.85714	50.00000	0.00000	0.54979	0.14779	0.70998	*
				50.95238	50.00000	0.00000	1.6264	0.71719	2.1389	*
				56.04762	50.00000	0.00000	2.2692	2.2282	4.0131	*
				61.14286	50.00000	0.00000	1.6432	5.7290	5.7665	*
				66.23810	50.00000	0.00000	3.5713	7.1302	7.4418	*
				71.33333	50.00000	0.00000	5.6042	6.8507	8.6401	*
				76.42857	50.00000	0.00000	5.8935	4.2532	9.0343	*
				81.52381	50.00000	0.00000	3.2923	-1.3525	9.9868	*
				86.61905	50.00000	0.00000	6.7369	-1.8365	10.410	*
				91.71429	50.00000	0.00000	10.009	-1.2464	11.314	*
				96.80952	50.00000	0.00000	11.503	0.35750	12.796	*
				101.90476	50.00000	0.00000	10.829	3.9970	16.313	*
				107.00000	50.00000	0.00000	6.9743	12.610	16.825	*
				0.00000	55.00000	0.00000	0.0	0.0	-0.024737	*
				5.09524	55.00000	0.00000	0.0	0.0	-0.023461	*
				10.19048	55.00000	0.00000	0.0	0.0	-0.020604	*
				15.28571	55.00000	0.00000	0.0	0.0	-0.015466	*
				20.38095	55.00000	0.00000	0.0	0.0	-0.0071392	*
				25.47619	55.00000	0.00000	0.0	0.0	0.0054924	*
				30.57143	55.00000	0.00000	0.0	0.0	0.023771	*
				35.66667	55.00000	0.00000	0.0	0.0	0.049436	*
				40.76190	55.00000	0.00000	0.0	0.0	0.085408	*
				45.85714	55.00000	0.00000	0.96141	0.025056	0.99931	*
				50.95238	55.00000	0.00000	2.9304	0.11813	2.8469	*
				56.04762	55.00000	0.00000	5.1822	0.40363	5.3813	*
				61.14286	55.00000	0.00000	5.3116	3.2565	6.2572	*
				66.23810	55.00000	0.00000	Point lies within an excavation.			*
				71.33333	55.00000	0.00000	Point lies within an excavation.			*
				76.42857	55.00000	0.00000	6.4008	-1.8072	6.4385	*
				81.52381	55.00000	0.00000	3.3907	-2.6032	12.685	*
				86.61905	55.00000	0.00000	8.9232	-3.0098	13.029	*
				91.71429	55.00000	0.00000	14.114	-3.1359	14.754	*
				96.80952	55.00000	0.00000	18.192	-3.0238	17.688	*
				101.90476	55.00000	0.00000	20.506	-2.2965	22.215	*
				107.00000	55.00000	0.00000	18.769	1.7576	20.665	*
				0.00000	60.00000	0.00000	0.0	0.0	-0.023332	*
				5.09524	60.00000	0.00000	0.0	0.0	-0.021011	*
				10.19048	60.00000	0.00000	0.0	0.0	-0.016459	*
				15.28571	60.00000	0.00000	0.0	0.0	-0.0086049	*
				20.38095	60.00000	0.00000	0.0	0.0	0.0039780	*
				25.47619	60.00000	0.00000	0.0	0.0	0.023067	*
				30.57143	60.00000	0.00000	0.0	0.0	0.050651	*
				35.66667	60.00000	0.00000	0.0	0.0	0.088714	*
				40.76190	60.00000	0.00000	0.0	0.0	0.13956	*
				45.85714	60.00000	0.00000	1.3590	0.0	1.1251	*
				50.95238	60.00000	0.00000	3.9410	0.0	3.2917	*
				56.04762	60.00000	0.00000	7.0064	0.0	6.4576	*
				61.14286	60.00000	0.00000	10.656	0.0	7.6156	*
				66.23810	60.00000	0.00000	Point lies within an excavation.			*
				71.33333	60.00000	0.00000	Point lies within an excavation.			*
				76.42857	60.00000	0.00000	7.3180	-2.0662	11.133	*
				81.52381	60.00000	0.00000	4.0690	-3.0414	15.011	*
				86.61905	60.00000	0.00000	10.787	-3.9900	14.973	*
				91.71429	60.00000	0.00000	17.606	-5.1168	17.275	*
				96.80952	60.00000	0.00000	24.271	-6.8044	21.500	*
				101.90476	60.00000	0.00000	30.138	-8.5093	27.714	*
				107.00000	60.00000	0.00000	36.626	-10.341	28.445	*
				0.00000	65.00000	0.00000	0.0	0.0	-0.021674	*
				5.09524	65.00000	0.00000	0.0	0.0	-0.018119	*
				10.19048	65.00000	0.00000	0.0	0.0	-0.011483	*
				15.28571	65.00000	0.00000	0.0	0.0	-127.19E-6	*
				20.38095	65.00000	0.00000	0.0	0.0	0.018291	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				25.47619	65.00000	0.00000	0.0	0.0	0.046914	*
				30.57143	65.00000	0.00000	0.0	0.0	0.089453	*
				35.66667	65.00000	0.00000	0.0	0.0	0.14912	*
				40.76190	65.00000	0.00000	0.0	0.0	0.22652	*
				45.85714	65.00000	0.00000	1.2758	0.056602	1.3827	*
				50.95238	65.00000	0.00000	3.6095	-0.036881	3.7414	*
				56.04762	65.00000	0.00000	6.1197	-1.0499	6.6678	*
				61.14286	65.00000	0.00000	9.2098	-3.4386	7.9329	*
				66.23810	65.00000	0.00000	Point lies within an excavation.			*
				71.33333	65.00000	0.00000	Point lies within an excavation.			*
				76.42857	65.00000	0.00000	7.7514	-2.1885	12.167	*
				81.52381	65.00000	0.00000	4.0760	-3.2901	16.066	*
				86.61905	65.00000	0.00000	11.963	-4.6379	15.762	*
				91.71429	65.00000	0.00000	19.951	-6.1170	18.386	*
				96.80952	65.00000	0.00000	27.429	-7.7443	23.310	*
				101.90476	65.00000	0.00000	33.777	-9.5366	30.475	*
				107.00000	65.00000	0.00000	40.770	-11.511	32.058	*
				0.00000	70.00000	0.00000	0.0	0.0	-0.019874	*
				5.09524	70.00000	0.00000	0.0	0.0	-0.014959	*
				10.19048	70.00000	0.00000	0.0	0.0	-0.0059342	*
				15.28571	70.00000	0.00000	0.0	0.0	0.0096587	*
				20.38095	70.00000	0.00000	0.0	0.0	0.035659	*
				25.47619	70.00000	0.00000	0.0	0.0	0.077916	*
				30.57143	70.00000	0.00000	0.0	0.0	0.14475	*
				35.66667	70.00000	0.00000	0.039150	0.068162	0.32896	*
				40.76190	70.00000	0.00000	0.46511	0.85897	1.0657	*
				45.85714	70.00000	0.00000	1.4815	0.96155	2.4377	*
				50.95238	70.00000	0.00000	3.2486	0.54468	4.6836	*
				56.04762	70.00000	0.00000	5.1958	-0.67259	7.5265	*
				61.14286	70.00000	0.00000	7.8773	-2.3497	9.4911	*
				66.23810	70.00000	0.00000	Point lies within an excavation.			*
				71.33333	70.00000	0.00000	Point lies within an excavation.			*
				76.42857	70.00000	0.00000	8.3512	-2.3579	10.742	*
				81.52381	70.00000	0.00000	5.4656	-3.6010	15.156	*
				86.61905	70.00000	0.00000	13.830	-5.1113	15.486	*
				91.71429	70.00000	0.00000	22.278	-6.7481	18.757	*
				96.80952	70.00000	0.00000	30.207	-8.5286	24.460	*
				101.90476	70.00000	0.00000	37.081	-10.469	32.529	*
				107.00000	70.00000	0.00000	41.751	-11.788	33.547	*
				0.00000	75.00000	0.00000	0.0	0.0	-0.018097	*
				5.09524	75.00000	0.00000	0.0	0.0	-0.011825	*
				10.19048	75.00000	0.00000	0.0	0.0	-323.37E-6	*
				15.28571	75.00000	0.00000	0.0	0.0	0.019897	*
				20.38095	75.00000	0.00000	0.0	0.0	0.054803	*
				25.47619	75.00000	0.00000	0.0	0.0	0.11484	*
				30.57143	75.00000	0.00000	0.080811	0.080700	0.37641	*
				35.66667	75.00000	0.00000	0.53265	0.74464	1.4332	*
				40.76190	75.00000	0.00000	1.1522	2.1279	2.7103	*
				45.85714	75.00000	0.00000	2.1808	3.5140	4.5937	*
				50.95238	75.00000	0.00000	3.9568	3.8309	7.5212	*
				56.04762	75.00000	0.00000	4.2646	1.9035	9.7899	*
				61.14286	75.00000	0.00000	5.7308	-0.31998	11.137	*
				66.23810	75.00000	0.00000	9.7450	-3.1059	9.4596	*
				71.33333	75.00000	0.00000	Point lies within an excavation.			*
				76.42857	75.00000	0.00000	8.7369	-2.4668	5.8484	*
				81.52381	75.00000	0.00000	6.7812	-3.8118	13.319	*
				86.61905	75.00000	0.00000	14.872	-5.2998	14.403	*
				91.71429	75.00000	0.00000	21.802	-6.5629	17.323	*
				96.80952	75.00000	0.00000	27.534	-7.7740	21.901	*
				101.90476	75.00000	0.00000	31.699	-8.9500	28.393	*
				107.00000	75.00000	0.00000	35.800	-10.108	30.225	*
				0.00000	80.00000	0.00000	0.0	0.0	-0.016543	*
				5.09524	80.00000	0.00000	0.0	0.0	-0.0090978	*
				10.19048	80.00000	0.00000	0.0	0.0	0.0046078	*
				15.28571	80.00000	0.00000	0.0	0.0	0.029127	*
				20.38095	80.00000	0.00000	0.0	0.0	0.072840	*
				25.47619	80.00000	0.00000	0.0	0.0	0.15219	*
				30.57143	80.00000	0.00000	0.40632	0.21896	1.0332	*
				35.66667	80.00000	0.00000	1.2514	1.0505	2.6707	*
				40.76190	80.00000	0.00000	2.0356	3.0741	5.1445	*
				45.85714	80.00000	0.00000	3.1920	5.8950	9.2830	*
				50.95238	80.00000	0.00000	4.6564	5.8604	12.211	*
				56.04762	80.00000	0.00000	1.1518	5.4724	13.638	*
				61.14286	80.00000	0.00000	2.5846	1.9740	12.987	*
				66.23810	80.00000	0.00000	0.93235	0.48226	6.5783	*
				71.33333	80.00000	0.00000	Point lies within an excavation.			*
				76.42857	80.00000	0.00000	7.4991	-2.1857	3.5535	*
				81.52381	80.00000	0.00000	5.1006	-3.1766	10.979	*
				86.61905	80.00000	0.00000	11.764	-4.3166	11.862	*
				91.71429	80.00000	0.00000	17.986	-5.4348	14.263	*
				96.80952	80.00000	0.00000	23.009	-6.4964	18.108	*
				101.90476	80.00000	0.00000	26.628	-7.5182	23.041	*
				107.00000	80.00000	0.00000	29.930	-8.5495	25.122	*
				0.00000	85.00000	0.00000	0.0	0.0	-0.015407	*
				5.09524	85.00000	0.00000	0.0	0.0	-0.0071720	*
				10.19048	85.00000	0.00000	0.0	0.0	0.0080423	*
				15.28571	85.00000	0.00000	0.0	0.0	0.035579	*
				20.38095	85.00000	0.00000	0.0	0.0	0.085704	*
				25.47619	85.00000	0.00000	0.0	0.0	0.17993	*
				30.57143	85.00000	0.00000	0.67358	0.015203	1.4311	*
				35.66667	85.00000	0.00000	1.9564	0.23024	3.5534	*
				40.76190	85.00000	0.00000	3.2079	1.2149	7.0283	*
				45.85714	85.00000	0.00000	4.0160	7.4167	16.243	*
				50.95238	85.00000	0.00000	Point lies within an excavation.			*
				56.04762	85.00000	0.00000	-3.5182	10.683	18.604	*
				61.14286	85.00000	0.00000	-4.0135	5.9118	11.542	*
				66.23810	85.00000	0.00000	-4.0377	2.1863	4.6678	*
				71.33333	85.00000	0.00000	1.1890	-3.3185	4.7947	*
				76.42857	85.00000	0.00000	4.6544	-3.8984	5.9342	*
				81.52381	85.00000	0.00000	6.5831	-3.3470	7.4235	*
				86.61905	85.00000	0.00000	10.126	-3.6279	9.1021	*
				91.71429	85.00000	0.00000	14.709	-4.4708	11.331	*
				96.80952	85.00000	0.00000	18.144	-5.5545	14.325	*
				101.90476	85.00000	0.00000	19.314	-6.6875	17.460	*
				107.00000	85.00000	0.00000	17.350	-7.8755	17.657	*
				0.00000	90.00000	0.00000	0.0	0.0	-0.014833	*
				5.09524	90.00000	0.00000	0.0	0.0	-0.0063403	*
				10.19048	90.00000	0.00000	0.0	0.0	0.0093506	*
				15.28571	90.00000	0.00000	0.0	0.0	0.037821	*
				20.38095	90.00000	0.00000	0.0	0.0	0.089877	*
				25.47619	90.00000	0.00000	0.0	0.0	0.18832	*
				30.57143	90.00000	0.00000	0.80782	-0.26640	1.4087	*
				35.66667	90.00000	0.00000	2.4883	-0.99399	3.6097	*
				40.76190	90.00000	0.00000	4.7993	-2.6023	7.4028	*
				45.85714	90.00000	0.00000	7.6751	-4.1617	16.412	*
				50.95238	90.00000	0.00000	Point lies within an excavation.			*
				56.04762	90.00000	0.00000	Point lies within an excavation.			*
				61.14286	90.00000	0.00000	Point lies within an excavation.			*
				66.23810	90.00000	0.00000	-7.7424	0.56691	9.4592	*
				71.33333	90.00000	0.00000	-3.4280	-0.94698	6.9366	*
				76.42857	90.00000	0.00000	2.3792	-2.2268	5.0979	*
				81.52381	90.00000	0.00000	6.0166	-2.6165	4.9654	*
				86.61905	90.00000	0.00000	8.5892	-2.9663	6.2632	*
				91.71429	90.00000	0.00000	11.412	-3.8643	7.9948	*
				96.80952	90.00000	0.00000	13.044	-4.7640	10.322	*
				101.90476	90.00000	0.00000	12.745	-5.7203	12.275	*
				107.00000	90.00000	0.00000	9.9044	-6.7198	12.230	*
				0.00000	95.00000	0.00000	0.0	0.0	-0.014869	*
				5.09524	95.00000	0.00000	0.0	0.0	-0.0066998	*
				10.19048	95.00000	0.00000	0.0	0.0	0.0083295	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				15.28571	95.00000	0.00000	0.0	0.0	0.035409	*
				20.38095	95.00000	0.00000	0.0	0.0	0.084349	*
				25.47619	95.00000	0.00000	0.0	0.0	0.17502	*
				30.57143	95.00000	0.00000	0.57631	-0.31043	0.96070	*
				35.66667	95.00000	0.00000	2.0959	-1.1365	2.7083	*
				40.76190	95.00000	0.00000	4.3435	-2.3552	5.9706	*
				45.85714	95.00000	0.00000	7.1473	-3.8755	11.823	*
				50.95238	95.00000	0.00000	Point lies within an excavation.			*
				56.04762	95.00000	0.00000	Point lies within an excavation.			*
				61.14286	95.00000	0.00000	-16.456	-1.2290	16.118	*
				66.23810	95.00000	0.00000	-10.382	-2.2198	12.424	*
				71.33333	95.00000	0.00000	-5.3947	-1.4586	7.1539	*
				76.42857	95.00000	0.00000	0.67604	-1.2722	3.9086	*
				81.52381	95.00000	0.00000	4.7624	-1.5439	2.7949	*
				86.61905	95.00000	0.00000	6.5758	-2.3238	3.7153	*
				91.71429	95.00000	0.00000	8.2440	-3.1506	4.9364	*
				96.80952	95.00000	0.00000	8.9081	-3.9183	6.7586	*
				101.90476	95.00000	0.00000	8.1181	-4.5194	7.9865	*
				107.00000	95.00000	0.00000	6.3791	-5.7544	8.5308	*
				0.00000	100.00000	0.00000	0.0	0.0	-0.015457	*
				5.09524	100.00000	0.00000	0.0	0.0	-0.0081215	*
				10.19048	100.00000	0.00000	0.0	0.0	0.0052732	*
				15.28571	100.00000	0.00000	0.0	0.0	0.029059	*
				20.38095	100.00000	0.00000	0.0	0.0	0.071045	*
				25.47619	100.00000	0.00000	0.0	0.0	0.14595	*
				30.57143	100.00000	0.00000	0.064122	-0.034769	0.34808	*
				35.66667	100.00000	0.00000	1.4218	-0.77092	1.7580	*
				40.76190	100.00000	0.00000	3.6993	-2.0059	4.3325	*
				45.85714	100.00000	0.00000	5.6807	-3.0803	8.1539	*
				50.95238	100.00000	0.00000	7.7901	-4.2240	15.621	*
				56.04762	100.00000	0.00000	Point lies within an excavation.			*
				61.14286	100.00000	0.00000	-8.5706	-2.8564	8.4448	*
				66.23810	100.00000	0.00000	-6.6901	-1.6110	6.8308	*
				71.33333	100.00000	0.00000	-5.6945	-2.5269	5.5771	*
				76.42857	100.00000	0.00000	-0.59017	-0.97977	2.1768	*
				81.52381	100.00000	0.00000	3.0901	-1.0043	1.0320	*
				86.61905	100.00000	0.00000	4.5691	-1.7228	1.9326	*
				91.71429	100.00000	0.00000	5.4121	-2.3802	2.9423	*
				96.80952	100.00000	0.00000	5.7411	-3.0367	3.8569	*
				101.90476	100.00000	0.00000	5.3238	-3.7650	4.8017	*
				107.00000	100.00000	0.00000	4.1408	-4.6041	5.2719	*
				0.00000	105.00000	0.00000	0.0	0.0	-0.016448	*
				5.09524	105.00000	0.00000	0.0	0.0	-0.010299	*
				10.19048	105.00000	0.00000	0.0	0.0	840.34E-6	*
				15.28571	105.00000	0.00000	0.0	0.0	0.020253	*
				20.38095	105.00000	0.00000	0.0	0.0	0.053489	*
				25.47619	105.00000	0.00000	0.0	0.0	0.11011	*
				30.57143	105.00000	0.00000	0.0	0.0	0.20701	*
				35.66667	105.00000	0.00000	0.71092	-0.38548	0.94783	*
				40.76190	105.00000	0.00000	2.1628	-1.1727	2.5996	*
				45.85714	105.00000	0.00000	3.8525	-2.0889	5.1994	*
				50.95238	105.00000	0.00000	5.2266	-3.0942	8.4725	*
				56.04762	105.00000	0.00000	-3.5547	-6.5595	9.1949	*
				61.14286	105.00000	0.00000	-3.4570	-6.3792	7.5007	*
				66.23810	105.00000	0.00000	-3.2132	-2.8863	4.8595	*
				71.33333	105.00000	0.00000	-2.3142	-1.0515	2.5535	*
				76.42857	105.00000	0.00000	-0.81763	-0.25598	0.89673	*
				81.52381	105.00000	0.00000	1.4968	-0.42261	0.36826	*
				86.61905	105.00000	0.00000	2.7436	-1.0557	0.96485	*
				91.71429	105.00000	0.00000	3.4227	-1.6487	1.5622	*
				96.80952	105.00000	0.00000	3.5387	-2.2152	2.0827	*
				101.90476	105.00000	0.00000	3.3892	-2.9208	2.4581	*
				107.00000	105.00000	0.00000	2.6250	-3.5874	2.6062	*
				0.00000	110.00000	0.00000	0.0	0.0	-0.017652	*
				5.09524	110.00000	0.00000	0.0	0.0	-0.012848	*
				10.19048	110.00000	0.00000	0.0	0.0	-0.0041851	*
				15.28571	110.00000	0.00000	0.0	0.0	0.010623	*
				20.38095	110.00000	0.00000	0.0	0.0	0.035153	*
				25.47619	110.00000	0.00000	0.0	0.0	0.074954	*
				30.57143	110.00000	0.00000	0.0	0.0	0.13846	*
				35.66667	110.00000	0.00000	0.0	0.0	0.23810	*
				40.76190	110.00000	0.00000	0.98739	-0.53539	1.4518	*
				45.85714	110.00000	0.00000	1.9867	-1.4104	3.1119	*
				50.95238	110.00000	0.00000	1.3915	-2.3538	4.5780	*
				56.04762	110.00000	0.00000	-1.1120	-3.5642	5.0628	*
				61.14286	110.00000	0.00000	-2.1952	-4.0509	4.4190	*
				66.23810	110.00000	0.00000	-1.4866	-2.5746	2.7914	*
				71.33333	110.00000	0.00000	-0.90230	-0.86152	1.4058	*
				76.42857	110.00000	0.00000	-0.16678	-0.10283	0.32043	*
				81.52381	110.00000	0.00000	0.11761	-0.033205	0.11941	*
				86.61905	110.00000	0.00000	1.2357	-0.34889	0.24890	*
				91.71429	110.00000	0.00000	1.8743	-0.87835	0.67600	*
				96.80952	110.00000	0.00000	2.1810	-1.4420	1.0051	*
				101.90476	110.00000	0.00000	2.0715	-1.9899	1.2003	*
				107.00000	110.00000	0.00000	1.5710	-2.4862	1.2136	*
				0.00000	115.00000	0.00000	0.0	0.0	-0.018877	*
				5.09524	115.00000	0.00000	0.0	0.0	-0.015404	*
				10.19048	115.00000	0.00000	0.0	0.0	-0.0091085	*
				15.28571	115.00000	0.00000	0.0	0.0	0.0014861	*
				20.38095	115.00000	0.00000	0.0	0.0	0.018498	*
				25.47619	115.00000	0.00000	0.0	0.0	0.044823	*
				30.57143	115.00000	0.00000	0.0	0.0	0.084097	*
				35.66667	115.00000	0.00000	0.0	0.0	0.14007	*
				40.76190	115.00000	0.00000	0.25990	-0.18965	0.57831	*
				45.85714	115.00000	0.00000	0.56728	-0.61706	1.4805	*
				50.95238	115.00000	0.00000	0.34503	-1.1921	2.1971	*
				56.04762	115.00000	0.00000	-0.41459	-1.7191	2.4151	*
				61.14286	115.00000	0.00000	-0.81397	-1.5067	1.8438	*
				66.23810	115.00000	0.00000	-0.60684	-1.1198	1.1024	*
				71.33333	115.00000	0.00000	-0.17159	-0.24584	0.38640	*
				76.42857	115.00000	0.00000	0.0	0.0	0.073921	*
				81.52381	115.00000	0.00000	0.0	0.0	0.042716	*
				86.61905	115.00000	0.00000	0.017096	-0.0048268	0.037807	*
				91.71429	115.00000	0.00000	0.71314	-0.20135	0.13671	*
				96.80952	115.00000	0.00000	1.0852	-0.54999	0.33312	*
				101.90476	115.00000	0.00000	1.1353	-0.98634	0.49812	*
				107.00000	115.00000	0.00000	0.89771	-1.3542	0.53034	*
				0.00000	120.00000	0.00000	0.0	0.0	-0.019966	*
				5.09524	120.00000	0.00000	0.0	0.0	-0.017687	*
				10.19048	120.00000	0.00000	0.0	0.0	-0.013444	*
				15.28571	120.00000	0.00000	0.0	0.0	-0.0063414	*
				20.38095	120.00000	0.00000	0.0	0.0	0.0047793	*
				25.47619	120.00000	0.00000	0.0	0.0	0.021282	*
				30.57143	120.00000	0.00000	0.0	0.0	0.044466	*
				35.66667	120.00000	0.00000	0.0	0.0	0.074869	*
				40.76190	120.00000	0.00000	0.0	0.0	0.11081	*
				45.85714	120.00000	0.00000	0.053389	-0.084719	0.30668	*
				50.95238	120.00000	0.00000	0.049497	-0.32453	0.70199	*
				56.04762	120.00000	0.00000	-0.10041	-0.45903	0.77487	*
				61.14286	120.00000	0.00000	-0.14140	-0.31071	0.49470	*
				66.23810	120.00000	0.00000	0.0	0.0	0.098967	*
				71.33333	120.00000	0.00000	0.0	0.0	0.061469	*
				76.42857	120.00000	0.00000	0.0	0.0	0.032026	*
				81.52381	120.00000	0.00000	0.0	0.0	0.011734	*
				86.61905	120.00000	0.00000	0.0	0.0	-418.56E-6	*
				91.71429	120.00000	0.00000	0.0	0.0	-0.0058997	*
				96.80952	120.00000	0.00000	0.18878	-0.053302	0.034603	*
				101.90476	120.00000	0.00000	0.38963	-0.11001	0.061602	*
				107.00000	120.00000	0.00000	0.37296	-0.17080	0.11096	*
				0.00000	125.00000	0.00000	0.0	0.0	-0.020815	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				5.09524	125.00000	0.00000	0.0	0.0	-0.019529	*
				10.19048	125.00000	0.00000	0.0	0.0	-0.016934	*
				15.28571	125.00000	0.00000	0.0	0.0	-0.012520	*
				20.38095	125.00000	0.00000	0.0	0.0	-0.0056951	*
				25.47619	125.00000	0.00000	0.0	0.0	0.0041107	*
				30.57143	125.00000	0.00000	0.0	0.0	0.017222	*
				35.66667	125.00000	0.00000	0.0	0.0	0.033292	*
				40.76190	125.00000	0.00000	0.0	0.0	0.050691	*
				45.85714	125.00000	0.00000	0.0	0.0	0.065980	*
				50.95238	125.00000	0.00000	0.0	0.0	0.074345	*
				56.04762	125.00000	0.00000	0.0	0.0	0.071978	*
				61.14286	125.00000	0.00000	0.0	0.0	0.059120	*
				66.23810	125.00000	0.00000	0.0	0.0	0.040112	*
				71.33333	125.00000	0.00000	0.0	0.0	0.020212	*
				76.42857	125.00000	0.00000	0.0	0.0	0.0029809	*
				81.52381	125.00000	0.00000	0.0	0.0	-0.010086	*
				86.61905	125.00000	0.00000	0.0	0.0	-0.018821	*
				91.71429	125.00000	0.00000	0.0	0.0	-0.023656	*
				96.80952	125.00000	0.00000	0.0	0.0	-0.025231	*
				101.90476	125.00000	0.00000	0.0	0.0	-0.024235	*
				107.00000	125.00000	0.00000	0.0	0.0	0.0055467	*
				0.00000	130.00000	0.00000	0.0	0.0	-0.021375	*
				5.09524	130.00000	0.00000	0.0	0.0	-0.020862	*
				10.19048	130.00000	0.00000	0.0	0.0	-0.019513	*
				15.28571	130.00000	0.00000	0.0	0.0	-0.017049	*
				20.38095	130.00000	0.00000	0.0	0.0	-0.013192	*
				25.47619	130.00000	0.00000	0.0	0.0	-0.0077403	*
				30.57143	130.00000	0.00000	0.0	0.0	-709.51E-6	*
				35.66667	130.00000	0.00000	0.0	0.0	0.0074611	*
				40.76190	130.00000	0.00000	0.0	0.0	0.015702	*
				45.85714	130.00000	0.00000	0.0	0.0	0.022274	*
				50.95238	130.00000	0.00000	0.0	0.0	0.025165	*
				56.04762	130.00000	0.00000	0.0	0.0	0.023008	*
				61.14286	130.00000	0.00000	0.0	0.0	0.015956	*
				66.23810	130.00000	0.00000	0.0	0.0	0.0056710	*
				71.33333	130.00000	0.00000	0.0	0.0	-0.0056133	*
				76.42857	130.00000	0.00000	0.0	0.0	-0.016061	*
				81.52381	130.00000	0.00000	0.0	0.0	-0.024616	*
				86.61905	130.00000	0.00000	0.0	0.0	-0.030894	*
				91.71429	130.00000	0.00000	0.0	0.0	-0.034935	*
				96.80952	130.00000	0.00000	0.0	0.0	-0.036993	*
				101.90476	130.00000	0.00000	0.0	0.0	-0.037421	*
				107.00000	130.00000	0.00000	0.0	0.0	-0.0088355	*
				0.00000	135.00000	0.00000	0.0	0.0	-0.021637	*
				5.09524	135.00000	0.00000	0.0	0.0	-0.021693	*
				10.19048	135.00000	0.00000	0.0	0.0	-0.021236	*
				15.28571	135.00000	0.00000	0.0	0.0	-0.020122	*
				20.38095	135.00000	0.00000	0.0	0.0	-0.018230	*
				25.47619	135.00000	0.00000	0.0	0.0	-0.015511	*
				30.57143	135.00000	0.00000	0.0	0.0	-0.012066	*
				35.66667	135.00000	0.00000	0.0	0.0	-0.0082318	*
				40.76190	135.00000	0.00000	0.0	0.0	-0.0046326	*
				45.85714	135.00000	0.00000	0.0	0.0	-0.0021358	*
				50.95238	135.00000	0.00000	0.0	0.0	-0.0016264	*
				56.04762	135.00000	0.00000	0.0	0.0	-0.0036475	*
				61.14286	135.00000	0.00000	0.0	0.0	-0.0081078	*
				66.23810	135.00000	0.00000	0.0	0.0	-0.014296	*
				71.33333	135.00000	0.00000	0.0	0.0	-0.021196	*
				76.42857	135.00000	0.00000	0.0	0.0	-0.027869	*
				81.52381	135.00000	0.00000	0.0	0.0	-0.033669	*
				86.61905	135.00000	0.00000	0.0	0.0	-0.038267	*
				91.71429	135.00000	0.00000	0.0	0.0	-0.041586	*
				96.80952	135.00000	0.00000	0.0	0.0	-0.043701	*
				101.90476	135.00000	0.00000	0.0	0.0	-0.044778	*
				107.00000	135.00000	0.00000	0.0	0.0	-0.017693	*
				0.00000	140.00000	0.00000	0.0	0.0	-0.021625	*
				5.09524	140.00000	0.00000	0.0	0.0	-0.022076	*
				10.19048	140.00000	0.00000	0.0	0.0	-0.022227	*
				15.28571	140.00000	0.00000	0.0	0.0	-0.022007	*
				20.38095	140.00000	0.00000	0.0	0.0	-0.021367	*
				25.47619	140.00000	0.00000	0.0	0.0	-0.020316	*
				30.57143	140.00000	0.00000	0.0	0.0	-0.018951	*
				35.66667	140.00000	0.00000	0.0	0.0	-0.017492	*
				40.76190	140.00000	0.00000	0.0	0.0	-0.016289	*
				45.85714	140.00000	0.00000	0.0	0.0	-0.015776	*
				50.95238	140.00000	0.00000	0.0	0.0	-0.016359	*
				56.04762	140.00000	0.00000	0.0	0.0	-0.018269	*
				61.14286	140.00000	0.00000	0.0	0.0	-0.021449	*
				66.23810	140.00000	0.00000	0.0	0.0	-0.025568	*
				71.33333	140.00000	0.00000	0.0	0.0	-0.030139	*
				76.42857	140.00000	0.00000	0.0	0.0	-0.034671	*
				81.52381	140.00000	0.00000	0.0	0.0	-0.038787	*
				86.61905	140.00000	0.00000	0.0	0.0	-0.042256	*
				91.71429	140.00000	0.00000	0.0	0.0	-0.044984	*
				96.80952	140.00000	0.00000	0.0	0.0	-0.046973	*
				101.90476	140.00000	0.00000	0.0	0.0	-0.048294	*
				107.00000	140.00000	0.00000	0.0	0.0	-0.022880	*
				0.00000	145.00000	0.00000	0.0	0.0	-0.021378	*
				5.09524	145.00000	0.00000	0.0	0.0	-0.022087	*
				10.19048	145.00000	0.00000	0.0	0.0	-0.022630	*
				15.28571	145.00000	0.00000	0.0	0.0	-0.022975	*
				20.38095	145.00000	0.00000	0.0	0.0	-0.023106	*
				25.47619	145.00000	0.00000	0.0	0.0	-0.023045	*
				30.57143	145.00000	0.00000	0.0	0.0	-0.022862	*
				35.66667	145.00000	0.00000	0.0	0.0	-0.022694	*
				40.76190	145.00000	0.00000	0.0	0.0	-0.022733	*
				45.85714	145.00000	0.00000	0.0	0.0	-0.023197	*
				50.95238	145.00000	0.00000	0.0	0.0	-0.024279	*
				56.04762	145.00000	0.00000	0.0	0.0	-0.026079	*
				61.14286	145.00000	0.00000	0.0	0.0	-0.028561	*
				66.23810	145.00000	0.00000	0.0	0.0	-0.031561	*
				71.33333	145.00000	0.00000	0.0	0.0	-0.034830	*
				76.42857	145.00000	0.00000	0.0	0.0	-0.038109	*
				81.52381	145.00000	0.00000	0.0	0.0	-0.041177	*
				86.61905	145.00000	0.00000	0.0	0.0	-0.043882	*
				91.71429	145.00000	0.00000	0.0	0.0	-0.046145	*
				96.80952	145.00000	0.00000	0.0	0.0	-0.047945	*
				101.90476	145.00000	0.00000	0.0	0.0	-0.049301	*
				107.00000	145.00000	0.00000	0.0	0.0	-0.025634	*
				0.00000	150.00000	0.00000	0.0	0.0	-0.020941	*
				5.09524	150.00000	0.00000	0.0	0.0	-0.021804	*
				10.19048	150.00000	0.00000	0.0	0.0	-0.022585	*
				15.28571	150.00000	0.00000	0.0	0.0	-0.023268	*
				20.38095	150.00000	0.00000	0.0	0.0	-0.023851	*
				25.47619	150.00000	0.00000	0.0	0.0	-0.024355	*
				30.57143	150.00000	0.00000	0.0	0.0	-0.024827	*
				35.66667	150.00000	0.00000	0.0	0.0	-0.025346	*
				40.76190	150.00000	0.00000	0.0	0.0	-0.026017	*
				45.85714	150.00000	0.00000	0.0	0.0	-0.026950	*
				50.95238	150.00000	0.00000	0.0	0.0	-0.028237	*
				56.04762	150.00000	0.00000	0.0	0.0	-0.029922	*
				61.14286	150.00000	0.00000	0.0	0.0	-0.031981	*
				66.23810	150.00000	0.00000	0.0	0.0	-0.034327	*
				71.33333	150.00000	0.00000	0.0	0.0	-0.036827	*
				76.42857	150.00000	0.00000	0.0	0.0	-0.039339	*
				81.52381	150.00000	0.00000	0.0	0.0	-0.041732	*
				86.61905	150.00000	0.00000	0.0	0.0	-0.043909	*
				91.71429	150.00000	0.00000	0.0	0.0	-0.045810	*
				96.80952	150.00000	0.00000	0.0	0.0	-0.047408	*
				101.90476	150.00000	0.00000	0.0	0.0	-0.048701	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				107.00000	150.00000	0.00000	0.0	0.0	-0.026784	*
		2	B	107.00000	0.00000	0.00000	0.0	0.0	-0.0068999	*
				112.15000	0.00000	0.00000	0.0	0.0	-0.0024893	*
				117.30000	0.00000	0.00000	0.0	0.0	0.0020820	*
				122.45000	0.00000	0.00000	0.0	0.0	0.0065516	*
				127.60000	0.00000	0.00000	0.0	0.0	0.010633	*
				132.75000	0.00000	0.00000	0.0	0.0	0.014036	*
				137.90000	0.00000	0.00000	0.0	0.0	0.016499	*
				143.05000	0.00000	0.00000	0.0	0.0	0.017807	*
				148.20000	0.00000	0.00000	0.0	0.0	0.017819	*
				153.35000	0.00000	0.00000	0.0	0.0	0.016490	*
				158.50000	0.00000	0.00000	0.0	0.0	0.013878	*
				163.65000	0.00000	0.00000	0.0	0.0	0.010154	*
				168.80000	0.00000	0.00000	0.0	0.0	0.0055878	*
				173.95000	0.00000	0.00000	0.0	0.0	528.83E-6	*
				179.10000	0.00000	0.00000	0.0	0.0	-0.0046405	*
				184.25000	0.00000	0.00000	0.0	0.0	-0.0095564	*
				189.40000	0.00000	0.00000	0.0	0.0	-0.013923	*
				194.55000	0.00000	0.00000	0.0	0.0	-0.017545	*
				199.70000	0.00000	0.00000	0.0	0.0	-0.020332	*
				204.85000	0.00000	0.00000	0.0	0.0	-0.022287	*
				210.00000	0.00000	0.00000	0.0	0.0	-0.023480	*
				107.00000	5.00000	0.00000	0.0	0.0	0.0093428	*
				112.15000	5.00000	0.00000	0.0	0.0	0.016965	*
				117.30000	5.00000	0.00000	0.0	0.0	0.024836	*
				122.45000	5.00000	0.00000	0.0	0.0	0.032515	*
				127.60000	5.00000	0.00000	0.0	0.0	0.039518	*
				132.75000	5.00000	0.00000	0.0	0.0	0.045354	*
				137.90000	5.00000	0.00000	0.0	0.0	0.049571	*
				143.05000	5.00000	0.00000	0.0	0.0	0.051800	*
				148.20000	5.00000	0.00000	0.0	0.0	0.051792	*
				153.35000	5.00000	0.00000	0.0	0.0	0.049458	*
				158.50000	5.00000	0.00000	0.0	0.0	0.044885	*
				163.65000	5.00000	0.00000	0.0	0.0	0.038350	*
				168.80000	5.00000	0.00000	0.0	0.0	0.030317	*
				173.95000	5.00000	0.00000	0.0	0.0	0.021398	*
				179.10000	5.00000	0.00000	0.0	0.0	0.012273	*
				184.25000	5.00000	0.00000	0.0	0.0	0.0035886	*
				189.40000	5.00000	0.00000	0.0	0.0	-0.0041418	*
				194.55000	5.00000	0.00000	0.0	0.0	-0.010595	*
				199.70000	5.00000	0.00000	0.0	0.0	-0.015644	*
				204.85000	5.00000	0.00000	0.0	0.0	-0.019326	*
				210.00000	5.00000	0.00000	0.0	0.0	-0.021784	*
				107.00000	10.00000	0.00000	0.0	0.0	0.035097	*
				112.15000	10.00000	0.00000	0.0	0.0	0.047969	*
				117.30000	10.00000	0.00000	0.0	0.0	0.061278	*
				122.45000	10.00000	0.00000	0.0	0.0	0.074283	*
				127.60000	10.00000	0.00000	0.0	0.0	0.086170	*
				132.75000	10.00000	0.00000	0.0	0.0	0.096108	*
				137.90000	10.00000	0.00000	0.0	0.0	0.10332	*
				143.05000	10.00000	0.00000	0.0	0.0	0.10717	*
				148.20000	10.00000	0.00000	0.0	0.0	0.10721	*
				153.35000	10.00000	0.00000	0.0	0.0	0.10327	*
				158.50000	10.00000	0.00000	0.0	0.0	0.095476	*
				163.65000	10.00000	0.00000	0.0	0.0	0.084260	*
				168.80000	10.00000	0.00000	0.0	0.0	0.070409	*
				173.95000	10.00000	0.00000	0.0	0.0	0.054998	*
				179.10000	10.00000	0.00000	0.0	0.0	0.039254	*
				184.25000	10.00000	0.00000	0.0	0.0	0.024337	*
				189.40000	10.00000	0.00000	0.0	0.0	0.011145	*
				194.55000	10.00000	0.00000	0.0	0.0	196.69E-6	*
				199.70000	10.00000	0.00000	0.0	0.0	-0.0083570	*
				204.85000	10.00000	0.00000	0.0	0.0	-0.014648	*
				210.00000	10.00000	0.00000	0.0	0.0	-0.018972	*
				107.00000	15.00000	0.00000	0.0	0.0	0.075275	*
				112.15000	15.00000	0.00000	0.0	0.0	0.096760	*
				117.30000	15.00000	0.00000	0.0	0.0	0.11906	*
				122.45000	15.00000	0.00000	0.0	0.0	0.14093	*
				127.60000	15.00000	0.00000	0.0	0.0	0.16103	*
				132.75000	15.00000	0.00000	0.0	0.0	0.17794	*
				137.90000	15.00000	0.00000	0.0	0.0	0.19030	*
				143.05000	15.00000	0.00000	0.0	0.0	0.19701	*
				148.20000	15.00000	0.00000	0.0	0.0	0.19730	*
				153.35000	15.00000	0.00000	0.0	0.0	0.19083	*
				158.50000	15.00000	0.00000	0.0	0.0	0.17774	*
				163.65000	15.00000	0.00000	0.0	0.0	0.15870	*
				168.80000	15.00000	0.00000	0.0	0.0	0.13502	*
				173.95000	15.00000	0.00000	0.0	0.0	0.10858	*
				179.10000	15.00000	0.00000	0.0	0.0	0.081655	*
				184.25000	15.00000	0.00000	0.0	0.0	0.056369	*
				189.40000	15.00000	0.00000	0.0	0.0	0.034305	*
				194.55000	15.00000	0.00000	0.0	0.0	0.016269	*
				199.70000	15.00000	0.00000	0.0	0.0	0.0023645	*
				204.85000	15.00000	0.00000	0.0	0.0	-0.0077849	*
				210.00000	15.00000	0.00000	0.0	0.0	-0.014791	*
				107.00000	20.00000	0.00000	0.0	0.0	0.13742	*
				112.15000	20.00000	0.00000	0.0	0.0	0.17313	*
				117.30000	20.00000	0.00000	0.0	0.0	0.21037	*
				122.45000	20.00000	0.00000	0.0	0.0	0.24712	*
				127.60000	20.00000	0.00000	0.0	0.0	0.28113	*
				132.75000	20.00000	0.00000	0.0	0.0	0.40917	*
				137.90000	20.00000	0.00000	0.0	0.0	0.43520	*
				143.05000	20.00000	0.00000	0.0	0.0	0.44716	*
				148.20000	20.00000	0.00000	0.0	0.0	0.44829	*
				153.35000	20.00000	0.00000	0.0	0.0	0.43800	*
				158.50000	20.00000	0.00000	0.0	0.0	0.41637	*
				163.65000	20.00000	0.00000	0.0	0.0	0.38433	*
				168.80000	20.00000	0.00000	0.0	0.0	0.23929	*
				173.95000	20.00000	0.00000	0.0	0.0	0.19386	*
				179.10000	20.00000	0.00000	0.0	0.0	0.14775	*
				184.25000	20.00000	0.00000	0.0	0.0	0.10503	*
				189.40000	20.00000	0.00000	0.0	0.0	0.068521	*
				194.55000	20.00000	0.00000	0.0	0.0	0.039389	*
				199.70000	20.00000	0.00000	0.0	0.0	0.017446	*
				204.85000	20.00000	0.00000	0.0	0.0	0.0017240	*
				210.00000	20.00000	0.00000	0.0	0.0	-0.0090198	*
				107.00000	25.00000	0.00000	0.0	0.0	0.23332	*
				112.15000	25.00000	0.00000	0.0	0.0	0.37901	*
				117.30000	25.00000	0.00000	0.0	0.0	0.72782	*
				122.45000	25.00000	0.00000	0.32487	1.1219	1.2771	*
				127.60000	25.00000	0.00000	0.59477	2.2965	1.7443	*
				132.75000	25.00000	0.00000	0.13962	3.0259	2.0194	*
				137.90000	25.00000	0.00000	409.84E-6	3.1512	2.0756	*
				143.05000	25.00000	0.00000	417.84E-6	3.2127	2.1048	*
				148.20000	25.00000	0.00000	425.83E-6	3.2741	2.1156	*
				153.35000	25.00000	0.00000	429.36E-6	3.3012	2.1027	*
				158.50000	25.00000	0.00000	429.43E-6	3.3018	2.0670	*
				163.65000	25.00000	0.00000	429.51E-6	3.3024	2.0129	*
				168.80000	25.00000	0.00000	0.0	0.0	0.40919	*
				173.95000	25.00000	0.00000	0.0	0.0	0.33021	*
				179.10000	25.00000	0.00000	0.0	0.0	0.25040	*
				184.25000	25.00000	0.00000	0.0	0.0	0.17791	*
				189.40000	25.00000	0.00000	0.0	0.0	0.11783	*
				194.55000	25.00000	0.00000	0.0	0.0	0.071511	*
				199.70000	25.00000	0.00000	0.0	0.0	0.037755	*
				204.85000	25.00000	0.00000	0.0	0.0	0.014228	*
				210.00000	25.00000	0.00000	0.0	0.0	-0.0015357	*
				107.00000	30.00000	0.00000	0.36773	1.2699	1.3476	*
				112.15000	30.00000	0.00000	0.77156	2.6644	1.8933	*
				117.30000	30.00000	0.00000	1.2066	4.1667	2.4963	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				122.45000	30.00000	0.00000	1.5694	5.4197	3.1635	*
				127.60000	30.00000	0.00000	1.9548	6.7504	3.9699	*
				132.75000	30.00000	0.00000	0.45761	7.8498	4.6164	*
				137.90000	30.00000	0.00000	0.0010624	8.1686	4.7544	*
				143.05000	30.00000	0.00000	0.0010817	8.3166	4.8257	*
				148.20000	30.00000	0.00000	0.0011009	8.4646	4.8655	*
				153.35000	30.00000	0.00000	0.0011093	8.5295	4.8544	*
				158.50000	30.00000	0.00000	0.0011094	8.5301	4.7962	*
				163.65000	30.00000	0.00000	0.0011095	8.5308	4.7050	*
				168.80000	30.00000	0.00000	0.0	0.0	0.79634	*
				173.95000	30.00000	0.00000	0.0	0.0	0.65272	*
				179.10000	30.00000	0.00000	0.0	0.0	0.40989	*
				184.25000	30.00000	0.00000	0.0	0.0	0.28535	*
				189.40000	30.00000	0.00000	0.0	0.0	0.18675	*
				194.55000	30.00000	0.00000	0.0	0.0	0.11434	*
				199.70000	30.00000	0.00000	0.0	0.0	0.063793	*
				204.85000	30.00000	0.00000	0.0	0.0	0.029784	*
				210.00000	30.00000	0.00000	0.0	0.0	0.0075845	*
				107.00000	35.00000	0.00000	1.3392	4.6246	3.0997	*
				112.15000	35.00000	0.00000	1.9656	6.7877	4.1609	*
				117.30000	35.00000	0.00000	2.6635	9.1979	5.5541	*
				122.45000	35.00000	0.00000	3.0438	10.511	6.8940	*
				127.60000	35.00000	0.00000	3.4098	11.775	8.3724	*
				132.75000	35.00000	0.00000	1.0284	13.020	9.5962	*
				137.90000	35.00000	0.00000	0.0017711	13.617	9.9438	*
				143.05000	35.00000	0.00000	0.0018016	13.852	10.115	*
				148.20000	35.00000	0.00000	0.0018321	14.086	10.230	*
				153.35000	35.00000	0.00000	0.0018454	14.189	10.235	*
				158.50000	35.00000	0.00000	0.0018455	14.190	10.141	*
				163.65000	35.00000	0.00000	0.0018456	14.190	9.9880	*
				168.80000	35.00000	0.00000	0.0	5.9838	2.2858	*
				173.95000	35.00000	0.00000	-0.10342	3.8224	2.0207	*
				179.10000	35.00000	0.00000	-0.29503	1.1008	1.5295	*
				184.25000	35.00000	0.00000	0.0	0.0	0.79349	*
				189.40000	35.00000	0.00000	0.0	0.0	0.27899	*
				194.55000	35.00000	0.00000	0.0	0.0	0.16836	*
				199.70000	35.00000	0.00000	0.0	0.0	0.095187	*
				204.85000	35.00000	0.00000	0.0	0.0	0.047919	*
				210.00000	35.00000	0.00000	0.0	0.0	0.017969	*
				107.00000	40.00000	0.00000	2.4083	8.3165	6.2526	*
				112.15000	40.00000	0.00000	3.1954	11.035	8.3368	*
				117.30000	40.00000	0.00000	4.0860	14.110	10.901	*
				122.45000	40.00000	0.00000	4.5741	15.796	12.971	*
				127.60000	40.00000	0.00000	4.9312	17.029	14.788	*
				132.75000	40.00000	0.00000	2.2210	18.191	16.140	*
				137.90000	40.00000	0.00000	0.0025092	19.293	16.891	*
				143.05000	40.00000	0.00000	0.0025509	19.614	17.210	*
				148.20000	40.00000	0.00000	0.0025927	19.935	17.427	*
				153.35000	40.00000	0.00000	0.0026109	20.075	17.451	*
				158.50000	40.00000	0.00000	0.0026110	20.075	17.304	*
				163.65000	40.00000	0.00000	0.0026111	20.076	17.050	*
				168.80000	40.00000	0.00000	0.0	21.935	14.975	*
				173.95000	40.00000	0.00000	-0.60065	13.998	10.651	*
				179.10000	40.00000	0.00000	-3.0579	6.3002	6.7708	*
				184.25000	40.00000	0.00000	-1.6669	1.2887	1.7359	*
				189.40000	40.00000	0.00000	0.0	0.0	0.63443	*
				194.55000	40.00000	0.00000	0.0	0.0	0.23128	*
				199.70000	40.00000	0.00000	0.0	0.0	0.13007	*
				204.85000	40.00000	0.00000	0.0	0.0	0.067410	*
				210.00000	40.00000	0.00000	0.0	0.0	0.028873	*
				107.00000	45.00000	0.00000	3.4324	11.831	10.805	*
				112.15000	45.00000	0.00000	4.3853	15.144	13.860	*
				117.30000	45.00000	0.00000	5.4502	18.821	17.234	*
				122.45000	45.00000	0.00000	6.1950	21.393	19.668	*
				127.60000	45.00000	0.00000	6.5537	22.632	20.884	*
				132.75000	45.00000	0.00000	6.2066	23.824	21.884	*
				137.90000	45.00000	0.00000	0.0032952	25.336	22.774	*
				143.05000	45.00000	0.00000	0.0033482	25.743	23.216	*
				148.20000	45.00000	0.00000	0.0034012	26.151	23.482	*
				153.35000	45.00000	0.00000	0.0034243	26.329	23.493	*
				158.50000	45.00000	0.00000	0.0034244	26.329	23.274	*
				163.65000	45.00000	0.00000	0.0034245	26.330	22.873	*
				168.80000	45.00000	0.00000	0.0	38.237	30.886	*
				173.95000	45.00000	0.00000	-2.2252	22.672	20.754	*
				179.10000	45.00000	0.00000	-9.6573	6.1839	12.260	*
				184.25000	45.00000	0.00000	-6.6707	1.7792	5.7974	*
				189.40000	45.00000	0.00000	0.0	0.0	1.1525	*
				194.55000	45.00000	0.00000	0.0	0.0	0.29628	*
				199.70000	45.00000	0.00000	0.0	0.0	0.16468	*
				204.85000	45.00000	0.00000	0.0	0.0	0.086235	*
				210.00000	45.00000	0.00000	0.0	0.0	0.039208	*
				107.00000	50.00000	0.00000	6.9743	12.610	16.825	*
				112.15000	50.00000	0.00000	5.5703	19.236	18.973	*
				117.30000	50.00000	0.00000	6.8197	23.551	22.452	*
				122.45000	50.00000	0.00000	7.9417	27.425	23.926	*
				127.60000	50.00000	0.00000	8.3122	28.704	22.805	*
				132.75000	50.00000	0.00000	Point lies within an excavation.			*
				137.90000	50.00000	0.00000	Point lies within an excavation.			*
				143.05000	50.00000	0.00000	Point lies within an excavation.			*
				148.20000	50.00000	0.00000	Point lies within an excavation.			*
				153.35000	50.00000	0.00000	Point lies within an excavation.			*
				158.50000	50.00000	0.00000	Point lies within an excavation.			*
				163.65000	50.00000	0.00000	Point lies within an excavation.			*
				168.80000	50.00000	0.00000	Point lies within an excavation.			*
				173.95000	50.00000	0.00000	-35.775	0.0	37.990	*
				179.10000	50.00000	0.00000	-23.423	0.0	18.181	*
				184.25000	50.00000	0.00000	-11.683	0.0	8.0066	*
				189.40000	50.00000	0.00000	-0.42235	0.0	1.3861	*
				194.55000	50.00000	0.00000	0.0	0.0	0.35217	*
				199.70000	50.00000	0.00000	0.0	0.0	0.19386	*
				204.85000	50.00000	0.00000	0.0	0.0	0.10188	*
				210.00000	50.00000	0.00000	0.0	0.0	0.047706	*
				107.00000	55.00000	0.00000	18.769	1.7576	20.665	*
				112.15000	55.00000	0.00000	6.7851	23.431	21.775	*
				117.30000	55.00000	0.00000	Point lies within an excavation.			*
				122.45000	55.00000	0.00000	Point lies within an excavation.			*
				127.60000	55.00000	0.00000	Point lies within an excavation.			*
				132.75000	55.00000	0.00000	Point lies within an excavation.			*
				137.90000	55.00000	0.00000	Point lies within an excavation.			*
				143.05000	55.00000	0.00000	Point lies within an excavation.			*
				148.20000	55.00000	0.00000	Point lies within an excavation.			*
				153.35000	55.00000	0.00000	Point lies within an excavation.			*
				158.50000	55.00000	0.00000	Point lies within an excavation.			*
				163.65000	55.00000	0.00000	Point lies within an excavation.			*
				168.80000	55.00000	0.00000	Point lies within an excavation.			*
				173.95000	55.00000	0.00000	-41.349	0.0	41.912	*
				179.10000	55.00000	0.00000	-27.163	0.0	20.709	*
				184.25000	55.00000	0.00000	-13.590	0.0	9.0230	*
				189.40000	55.00000	0.00000	-0.49580	0.0	1.4542	*
				194.55000	55.00000	0.00000	0.0	0.0	0.38741	*
				199.70000	55.00000	0.00000	0.0	0.0	0.21258	*
				204.85000	55.00000	0.00000	0.0	0.0	0.11199	*
				210.00000	55.00000	0.00000	0.0	0.0	0.053216	*
				107.00000	60.00000	0.00000	36.626	-10.341	28.445	*
				112.15000	60.00000	0.00000	Point lies within an excavation.			*
				117.30000	60.00000	0.00000	Point lies within an excavation.			*
				122.45000	60.00000	0.00000	Point lies within an excavation.			*
				127.60000	60.00000	0.00000	Point lies within an excavation.			*
				132.75000	60.00000	0.00000	Point lies within an excavation.			*
				137.90000	60.00000	0.00000	Point lies within an excavation.			*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				143.05000	60.00000	0.00000	Point lies within an excavation.			*
				148.20000	60.00000	0.00000	Point lies within an excavation.			*
				153.35000	60.00000	0.00000	Point lies within an excavation.			*
				158.50000	60.00000	0.00000	Point lies within an excavation.			*
				163.65000	60.00000	0.00000	Point lies within an excavation.			*
				168.80000	60.00000	0.00000	Point lies within an excavation.			*
				173.95000	60.00000	0.00000	-46.923	0.0	44.664	*
				179.10000	60.00000	0.00000	-30.904	0.0	22.846	*
				184.25000	60.00000	0.00000	-15.497	0.0	9.9005	*
				189.40000	60.00000	0.00000	-0.56925	0.0	1.4646	*
				194.55000	60.00000	0.00000	0.0	0.0	0.39575	*
				199.70000	60.00000	0.00000	0.0	0.0	0.21787	*
				204.85000	60.00000	0.00000	0.0	0.0	0.11512	*
				210.00000	60.00000	0.00000	0.0	0.0	0.055004	*
				107.00000	65.00000	0.00000	40.770	-11.511	32.058	*
				112.15000	65.00000	0.00000	48.553	-13.709	32.027	*
				117.30000	65.00000	0.00000	Point lies within an excavation.			*
				122.45000	65.00000	0.00000	Point lies within an excavation.			*
				127.60000	65.00000	0.00000	Point lies within an excavation.			*
				132.75000	65.00000	0.00000	Point lies within an excavation.			*
				137.90000	65.00000	0.00000	Point lies within an excavation.			*
				143.05000	65.00000	0.00000	Point lies within an excavation.			*
				148.20000	65.00000	0.00000	Point lies within an excavation.			*
				153.35000	65.00000	0.00000	Point lies within an excavation.			*
				158.50000	65.00000	0.00000	Point lies within an excavation.			*
				163.65000	65.00000	0.00000	Point lies within an excavation.			*
				168.80000	65.00000	0.00000	Point lies within an excavation.			*
				173.95000	65.00000	0.00000	-48.885	0.0	45.073	*
				179.10000	65.00000	0.00000	-32.220	0.0	23.348	*
				184.25000	65.00000	0.00000	-16.168	0.0	10.108	*
				189.40000	65.00000	0.00000	-0.59510	0.0	1.4244	*
				194.55000	65.00000	0.00000	0.0	0.0	0.37822	*
				199.70000	65.00000	0.00000	0.0	0.0	0.20967	*
				204.85000	65.00000	0.00000	0.0	0.0	0.11108	*
				210.00000	65.00000	0.00000	0.0	0.0	0.052924	*
				107.00000	70.00000	0.00000	41.751	-11.788	33.547	*
				112.15000	70.00000	0.00000	46.481	-13.124	32.348	*
				117.30000	70.00000	0.00000	Point lies within an excavation.			*
				122.45000	70.00000	0.00000	Point lies within an excavation.			*
				127.60000	70.00000	0.00000	Point lies within an excavation.			*
				132.75000	70.00000	0.00000	Point lies within an excavation.			*
				137.90000	70.00000	0.00000	Point lies within an excavation.			*
				143.05000	70.00000	0.00000	Point lies within an excavation.			*
				148.20000	70.00000	0.00000	Point lies within an excavation.			*
				153.35000	70.00000	0.00000	Point lies within an excavation.			*
				158.50000	70.00000	0.00000	Point lies within an excavation.			*
				163.65000	70.00000	0.00000	Point lies within an excavation.			*
				168.80000	70.00000	0.00000	Point lies within an excavation.			*
				173.95000	70.00000	0.00000	-43.309	0.0	39.650	*
				179.10000	70.00000	0.00000	-28.479	0.0	20.736	*
				184.25000	70.00000	0.00000	-14.261	0.0	9.0713	*
				189.40000	70.00000	0.00000	-0.52163	0.0	1.3491	*
				194.55000	70.00000	0.00000	0.0	0.0	0.34061	*
				199.70000	70.00000	0.00000	0.0	0.0	0.19026	*
				204.85000	70.00000	0.00000	0.0	0.0	0.10082	*
				210.00000	70.00000	0.00000	0.0	0.0	0.047402	*
				107.00000	75.00000	0.00000	35.800	-10.108	30.225	*
				112.15000	75.00000	0.00000	39.939	-11.276	30.200	*
				117.30000	75.00000	0.00000	Point lies within an excavation.			*
				122.45000	75.00000	0.00000	Point lies within an excavation.			*
				127.60000	75.00000	0.00000	Point lies within an excavation.			*
				132.75000	75.00000	0.00000	Point lies within an excavation.			*
				137.90000	75.00000	0.00000	Point lies within an excavation.			*
				143.05000	75.00000	0.00000	Point lies within an excavation.			*
				148.20000	75.00000	0.00000	Point lies within an excavation.			*
				153.35000	75.00000	0.00000	Point lies within an excavation.			*
				158.50000	75.00000	0.00000	Point lies within an excavation.			*
				163.65000	75.00000	0.00000	Point lies within an excavation.			*
				168.80000	75.00000	0.00000	Point lies within an excavation.			*
				173.95000	75.00000	0.00000	-37.734	0.0	34.361	*
				179.10000	75.00000	0.00000	-24.738	0.0	18.110	*
				184.25000	75.00000	0.00000	-12.353	0.0	8.0082	*
				189.40000	75.00000	0.00000	-0.44817	0.0	1.2541	*
				194.55000	75.00000	0.00000	0.0	0.0	0.29030	*
				199.70000	75.00000	0.00000	0.0	0.0	0.16318	*
				204.85000	75.00000	0.00000	0.0	0.0	0.086042	*
				210.00000	75.00000	0.00000	0.0	0.0	0.039274	*
				107.00000	80.00000	0.00000	29.930	-8.5495	25.122	*
				112.15000	80.00000	0.00000	25.083	-10.198	22.396	*
				117.30000	80.00000	0.00000	0.0013883	-16.393	15.643	*
				122.45000	80.00000	0.00000	0.0014618	-17.261	16.811	*
				127.60000	80.00000	0.00000	0.0015354	-18.129	17.580	*
				132.75000	80.00000	0.00000	0.0016089	-18.998	18.155	*
				137.90000	80.00000	0.00000	0.0016824	-19.866	18.607	*
				143.05000	80.00000	0.00000	0.0017295	-20.422	18.793	*
				148.20000	80.00000	0.00000	0.0017296	-20.423	18.686	*
				153.35000	80.00000	0.00000	0.0017296	-20.423	18.477	*
				158.50000	80.00000	0.00000	0.0017296	-20.423	18.073	*
				163.65000	80.00000	0.00000	0.0017296	-20.424	17.277	*
				168.80000	80.00000	0.00000	0.0064130	-44.116	36.694	*
				173.95000	80.00000	0.00000	-4.1682	-23.612	23.167	*
				179.10000	80.00000	0.00000	-14.369	-4.5433	13.913	*
				184.25000	80.00000	0.00000	-8.7202	-1.2541	6.5412	*
				189.40000	80.00000	0.00000	0.0	0.0	1.1072	*
				194.55000	80.00000	0.00000	0.0	0.0	0.23445	*
				199.70000	80.00000	0.00000	0.0	0.0	0.13219	*
				204.85000	80.00000	0.00000	0.0	0.0	0.068723	*
				210.00000	80.00000	0.00000	0.0	0.0	0.029568	*
				107.00000	85.00000	0.00000	17.350	-7.8755	17.657	*
				112.15000	85.00000	0.00000	9.7493	-9.9324	15.264	*
				117.30000	85.00000	0.00000	0.0011244	-13.277	12.870	*
				122.45000	85.00000	0.00000	0.0011890	-14.040	13.733	*
				127.60000	85.00000	0.00000	0.0012536	-14.803	14.442	*
				132.75000	85.00000	0.00000	0.0013182	-15.566	15.038	*
				137.90000	85.00000	0.00000	0.0013829	-16.329	15.551	*
				143.05000	85.00000	0.00000	0.0014243	-16.818	15.833	*
				148.20000	85.00000	0.00000	0.0014243	-16.818	15.762	*
				153.35000	85.00000	0.00000	0.0014243	-16.818	15.611	*
				158.50000	85.00000	0.00000	0.0014243	-16.819	15.344	*
				163.65000	85.00000	0.00000	0.0014244	-16.819	14.909	*
				168.80000	85.00000	0.00000	0.0040142	-27.614	18.902	*
				173.95000	85.00000	0.00000	-0.93051	-17.386	13.084	*
				179.10000	85.00000	0.00000	-4.6100	-7.0025	8.2310	*
				184.25000	85.00000	0.00000	-3.1982	-1.8073	2.9154	*
				189.40000	85.00000	0.00000	0.0	0.0	0.70647	*
				194.55000	85.00000	0.00000	0.0	0.0	0.17918	*
				199.70000	85.00000	0.00000	0.0	0.0	0.10069	*
				204.85000	85.00000	0.00000	0.0	0.0	0.050729	*
				210.00000	85.00000	0.00000	0.0	0.0	0.019309	*
				107.00000	90.00000	0.00000	9.9044	-6.7198	12.230	*
				112.15000	90.00000	0.00000	5.3149	-8.8323	11.641	*
				117.30000	90.00000	0.00000	895.83E-6	-10.578	10.230	*
				122.45000	90.00000	0.00000	951.55E-6	-11.236	10.859	*
				127.60000	90.00000	0.00000	0.0010073	-11.894	11.423	*
				132.75000	90.00000	0.00000	0.0010630	-12.552	11.927	*
				137.90000	90.00000	0.00000	0.0011187	-13.210	12.379	*
				143.05000	90.00000	0.00000	0.0011544	-13.631	12.638	*
				148.20000	90.00000	0.00000	0.0011544	-13.631	12.590	*
				153.35000	90.00000	0.00000	0.0011544	-13.632	12.489	*
				158.50000	90.00000	0.00000	0.0011545	-13.632	12.324	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				163.65000	90.00000	0.00000	0.0011545	-13.632	12.088	*
				168.80000	90.00000	0.00000	0.0016828	-11.576	6.4247	*
				173.95000	90.00000	0.00000	-0.23268	-7.4569	4.7505	*
				179.10000	90.00000	0.00000	-1.0511	-3.2761	2.1847	*
				184.25000	90.00000	0.00000	0.0	0.0	0.96917	*
				189.40000	90.00000	0.00000	0.0	0.0	0.21571	*
				194.55000	90.00000	0.00000	0.0	0.0	0.12906	*
				199.70000	90.00000	0.00000	0.0	0.0	0.071341	*
				204.85000	90.00000	0.00000	0.0	0.0	0.033586	*
				210.00000	90.00000	0.00000	0.0	0.0	0.0093691	*
				107.00000	95.00000	0.00000	6.3791	-5.7544	8.5308	*
				112.15000	95.00000	0.00000	3.2254	-7.1449	8.2169	*
				117.30000	95.00000	0.00000	690.68E-6	-8.1555	7.3227	*
				122.45000	95.00000	0.00000	737.48E-6	-8.7082	7.7522	*
				127.60000	95.00000	0.00000	784.29E-6	-9.2609	8.1518	*
				132.75000	95.00000	0.00000	831.11E-6	-9.8137	8.5185	*
				137.90000	95.00000	0.00000	877.92E-6	-10.366	8.8537	*
				143.05000	95.00000	0.00000	907.92E-6	-10.721	9.0488	*
				148.20000	95.00000	0.00000	907.93E-6	-10.721	9.0171	*
				153.35000	95.00000	0.00000	907.95E-6	-10.721	8.9531	*
				158.50000	95.00000	0.00000	907.97E-6	-10.721	8.8540	*
				163.65000	95.00000	0.00000	907.99E-6	-10.722	8.7211	*
				168.80000	95.00000	0.00000	0.0	0.0	1.0936	*
				173.95000	95.00000	0.00000	0.0	0.0	0.93267	*
				179.10000	95.00000	0.00000	0.0	0.0	0.60333	*
				184.25000	95.00000	0.00000	0.0	0.0	0.22894	*
				189.40000	95.00000	0.00000	0.0	0.0	0.14592	*
				194.55000	95.00000	0.00000	0.0	0.0	0.086703	*
				199.70000	95.00000	0.00000	0.0	0.0	0.045813	*
				204.85000	95.00000	0.00000	0.0	0.0	0.018344	*
				210.00000	95.00000	0.00000	0.0	0.0	389.29E-6	*
				107.00000	100.00000	0.00000	4.1408	-4.6041	5.2719	*
				112.15000	100.00000	0.00000	2.0392	-5.3585	5.0913	*
				117.30000	100.00000	0.00000	499.93E-6	-5.9031	4.5051	*
				122.45000	100.00000	0.00000	537.82E-6	-6.3506	4.7690	*
				127.60000	100.00000	0.00000	575.72E-6	-6.7982	5.0177	*
				132.75000	100.00000	0.00000	613.63E-6	-7.2457	5.2482	*
				137.90000	100.00000	0.00000	651.53E-6	-7.6932	5.4600	*
				143.05000	100.00000	0.00000	675.81E-6	-7.9800	5.5831	*
				148.20000	100.00000	0.00000	675.82E-6	-7.9801	5.5629	*
				153.35000	100.00000	0.00000	675.84E-6	-7.9803	5.5232	*
				158.50000	100.00000	0.00000	675.85E-6	-7.9804	5.4639	*
				163.65000	100.00000	0.00000	675.86E-6	-7.9806	5.3876	*
				168.80000	100.00000	0.00000	0.0	0.0	0.38308	*
				173.95000	100.00000	0.00000	0.0	0.0	0.29426	*
				179.10000	100.00000	0.00000	0.0	0.0	0.21311	*
				184.25000	100.00000	0.00000	0.0	0.0	0.14525	*
				189.40000	100.00000	0.00000	0.0	0.0	0.092236	*
				194.55000	100.00000	0.00000	0.0	0.0	0.052894	*
				199.70000	100.00000	0.00000	0.0	0.0	0.024854	*
				204.85000	100.00000	0.00000	0.0	0.0	0.0055612	*
				210.00000	100.00000	0.00000	0.0	0.0	-0.0072472	*
				107.00000	105.00000	0.00000	2.6250	-3.5874	2.6062	*
				112.15000	105.00000	0.00000	1.2824	-4.1421	2.4767	*
				117.30000	105.00000	0.00000	382.45E-6	-4.5160	2.0808	*
				122.45000	105.00000	0.00000	411.45E-6	-4.8584	2.2221	*
				127.60000	105.00000	0.00000	440.44E-6	-5.2008	2.3554	*
				132.75000	105.00000	0.00000	469.44E-6	-5.5432	2.4784	*
				137.90000	105.00000	0.00000	498.44E-6	-5.8856	2.5903	*
				143.05000	105.00000	0.00000	517.02E-6	-6.1050	2.6542	*
				148.20000	105.00000	0.00000	517.03E-6	-6.1051	2.6416	*
				153.35000	105.00000	0.00000	517.05E-6	-6.1053	2.6172	*
				158.50000	105.00000	0.00000	517.06E-6	-6.1054	2.5819	*
				163.65000	105.00000	0.00000	517.07E-6	-6.1056	2.5374	*
				168.80000	105.00000	0.00000	0.0	0.0	0.22657	*
				173.95000	105.00000	0.00000	0.0	0.0	0.17522	*
				179.10000	105.00000	0.00000	0.0	0.0	0.12732	*
				184.25000	105.00000	0.00000	0.0	0.0	0.086031	*
				189.40000	105.00000	0.00000	0.0	0.0	0.052678	*
				194.55000	105.00000	0.00000	0.0	0.0	0.027146	*
				199.70000	105.00000	0.00000	0.0	0.0	0.0084748	*
				204.85000	105.00000	0.00000	0.0	0.0	-0.0046133	*
				210.00000	105.00000	0.00000	0.0	0.0	-0.013387	*
				107.00000	110.00000	0.00000	1.5710	-2.4862	1.2136	*
				112.15000	110.00000	0.00000	0.75807	-2.8829	1.0058	*
				117.30000	110.00000	0.00000	264.98E-6	-3.1289	0.73349	*
				122.45000	110.00000	0.00000	285.07E-6	-3.3661	0.79941	*
				127.60000	110.00000	0.00000	305.16E-6	-3.6034	0.86097	*
				132.75000	110.00000	0.00000	325.26E-6	-3.8407	0.91671	*
				137.90000	110.00000	0.00000	345.36E-6	-4.0780	0.96581	*
				143.05000	110.00000	0.00000	358.23E-6	-4.2300	0.99248	*
				148.20000	110.00000	0.00000	358.24E-6	-4.2301	0.98458	*
				153.35000	110.00000	0.00000	358.26E-6	-4.2303	0.96973	*
				158.50000	110.00000	0.00000	358.27E-6	-4.2304	0.94855	*
				163.65000	110.00000	0.00000	358.28E-6	-4.2306	0.92231	*
				168.80000	110.00000	0.00000	0.0	0.0	0.12876	*
				173.95000	110.00000	0.00000	0.0	0.0	0.098673	*
				179.10000	110.00000	0.00000	0.0	0.0	0.070237	*
				184.25000	110.00000	0.00000	0.0	0.0	0.045206	*
				189.40000	110.00000	0.00000	0.0	0.0	0.024506	*
				194.55000	110.00000	0.00000	0.0	0.0	0.0082999	*
				199.70000	110.00000	0.00000	0.0	0.0	-0.0037680	*
				204.85000	110.00000	0.00000	0.0	0.0	-0.012321	*
				210.00000	110.00000	0.00000	0.0	0.0	-0.018053	*
				107.00000	115.00000	0.00000	0.89771	-1.3542	0.53034	*
				112.15000	115.00000	0.00000	0.44020	-1.6157	0.43908	*
				117.30000	115.00000	0.00000	147.50E-6	-1.7417	0.31766	*
				122.45000	115.00000	0.00000	158.69E-6	-1.8738	0.34801	*
				127.60000	115.00000	0.00000	169.88E-6	-2.0060	0.37596	*
				132.75000	115.00000	0.00000	181.07E-6	-2.1381	0.40060	*
				137.90000	115.00000	0.00000	192.27E-6	-2.2703	0.42133	*
				143.05000	115.00000	0.00000	199.44E-6	-2.3550	0.43171	*
				148.20000	115.00000	0.00000	199.45E-6	-2.3551	0.42685	*
				153.35000	115.00000	0.00000	199.47E-6	-2.3553	0.41789	*
				158.50000	115.00000	0.00000	199.48E-6	-2.3555	0.40526	*
				163.65000	115.00000	0.00000	199.49E-6	-2.3556	0.38977	*
				168.80000	115.00000	0.00000	0.0	0.0	0.067269	*
				173.95000	115.00000	0.00000	0.0	0.0	0.049576	*
				179.10000	115.00000	0.00000	0.0	0.0	0.032710	*
				184.25000	115.00000	0.00000	0.0	0.0	0.017664	*
				189.40000	115.00000	0.00000	0.0	0.0	0.0050309	*
				194.55000	115.00000	0.00000	0.0	0.0	-0.0049962	*
				199.70000	115.00000	0.00000	0.0	0.0	-0.012529	*
				204.85000	115.00000	0.00000	0.0	0.0	-0.017865	*
				210.00000	115.00000	0.00000	0.0	0.0	-0.021381	*
				107.00000	120.00000	0.00000	0.37296	-0.17080	0.11096	*
				112.15000	120.00000	0.00000	0.19660	-0.32616	0.13407	*
				117.30000	120.00000	0.00000	30.023E-6	-0.35451	0.11311	*
				122.45000	120.00000	0.00000	32.309E-6	-0.38151	0.12586	*
				127.60000	120.00000	0.00000	34.597E-6	-0.40852	0.13732	*
				132.75000	120.00000	0.00000	36.886E-6	-0.43555	0.14691	*
				137.90000	120.00000	0.00000	39.177E-6	-0.46260	0.15423	*
				143.05000	120.00000	0.00000	40.650E-6	-0.47999	0.15719	*
				148.20000	120.00000	0.00000	40.663E-6	-0.48015	0.15426	*
				153.35000	120.00000	0.00000	40.677E-6	-0.48031	0.14892	*
				158.50000	120.00000	0.00000	40.691E-6	-0.48048	0.14148	*
				163.65000	120.00000	0.00000	40.705E-6	-0.48064	0.13240	*
				168.80000	120.00000	0.00000	0.0	0.0	0.028643	*
				173.95000	120.00000	0.00000	0.0	0.0	0.018295	*
				179.10000	120.00000	0.00000	0.0	0.0	0.0083889	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				184.25000	120.00000	0.00000	0.0	0.0	-508.54E-6	*
				189.40000	120.00000	0.00000	0.0	0.0	-0.0080305	*
				194.55000	120.00000	0.00000	0.0	0.0	-0.014022	*
				199.70000	120.00000	0.00000	0.0	0.0	-0.018503	*
				204.85000	120.00000	0.00000	0.0	0.0	-0.021616	*
				210.00000	120.00000	0.00000	0.0	0.0	-0.023563	*
				107.00000	125.00000	0.00000	0.0	0.0	0.0055467	*
				112.15000	125.00000	0.00000	0.0036728	-0.0010370	0.011358	*
				117.30000	125.00000	0.00000	0.0	0.0	0.013945	*
				122.45000	125.00000	0.00000	0.0	0.0	0.018097	*
				127.60000	125.00000	0.00000	0.0	0.0	0.021573	*
				132.75000	125.00000	0.00000	0.0	0.0	0.024010	*
				137.90000	125.00000	0.00000	0.0	0.0	0.025154	*
				143.05000	125.00000	0.00000	0.0	0.0	0.024868	*
				148.20000	125.00000	0.00000	0.0	0.0	0.023117	*
				153.35000	125.00000	0.00000	0.0	0.0	0.019979	*
				158.50000	125.00000	0.00000	0.0	0.0	0.015636	*
				163.65000	125.00000	0.00000	0.0	0.0	0.010375	*
				168.80000	125.00000	0.00000	0.0	0.0	0.0045663	*
				173.95000	125.00000	0.00000	0.0	0.0	-0.0013809	*
				179.10000	125.00000	0.00000	0.0	0.0	-0.0070709	*
				184.25000	125.00000	0.00000	0.0	0.0	-0.012177	*
				189.40000	125.00000	0.00000	0.0	0.0	-0.016478	*
				194.55000	125.00000	0.00000	0.0	0.0	-0.019864	*
				199.70000	125.00000	0.00000	0.0	0.0	-0.022329	*
				204.85000	125.00000	0.00000	0.0	0.0	-0.023940	*
				210.00000	125.00000	0.00000	0.0	0.0	-0.024809	*
				107.00000	130.00000	0.00000	0.0	0.0	-0.0088355	*
				112.15000	130.00000	0.00000	0.0	0.0	-0.0068714	*
				117.30000	130.00000	0.00000	0.0	0.0	-0.0046232	*
				122.45000	130.00000	0.00000	0.0	0.0	-0.0024162	*
				127.60000	130.00000	0.00000	0.0	0.0	-533.62E-6	*
				132.75000	130.00000	0.00000	0.0	0.0	798.63E-6	*
				137.90000	130.00000	0.00000	0.0	0.0	0.0014207	*
				143.05000	130.00000	0.00000	0.0	0.0	0.0012415	*
				148.20000	130.00000	0.00000	0.0	0.0	238.43E-6	*
				153.35000	130.00000	0.00000	0.0	0.0	-0.0015437	*
				158.50000	130.00000	0.00000	0.0	0.0	-0.0039948	*
				163.65000	130.00000	0.00000	0.0	0.0	-0.0069467	*
				168.80000	130.00000	0.00000	0.0	0.0	-0.010187	*
				173.95000	130.00000	0.00000	0.0	0.0	-0.013483	*
				179.10000	130.00000	0.00000	0.0	0.0	-0.016610	*
				184.25000	130.00000	0.00000	0.0	0.0	-0.019382	*
				189.40000	130.00000	0.00000	0.0	0.0	-0.021665	*
				194.55000	130.00000	0.00000	0.0	0.0	-0.023392	*
				199.70000	130.00000	0.00000	0.0	0.0	-0.024549	*
				204.85000	130.00000	0.00000	0.0	0.0	-0.025170	*
				210.00000	130.00000	0.00000	0.0	0.0	-0.025320	*
				107.00000	135.00000	0.00000	0.0	0.0	-0.017693	*
				112.15000	135.00000	0.00000	0.0	0.0	-0.016892	*
				117.30000	135.00000	0.00000	0.0	0.0	-0.015851	*
				122.45000	135.00000	0.00000	0.0	0.0	-0.014765	*
				127.60000	135.00000	0.00000	0.0	0.0	-0.013807	*
				132.75000	135.00000	0.00000	0.0	0.0	-0.013114	*
				137.90000	135.00000	0.00000	0.0	0.0	-0.012787	*
				143.05000	135.00000	0.00000	0.0	0.0	-0.012885	*
				148.20000	135.00000	0.00000	0.0	0.0	-0.013424	*
				153.35000	135.00000	0.00000	0.0	0.0	-0.014379	*
				158.50000	135.00000	0.00000	0.0	0.0	-0.015686	*
				163.65000	135.00000	0.00000	0.0	0.0	-0.017247	*
				168.80000	135.00000	0.00000	0.0	0.0	-0.018942	*
				173.95000	135.00000	0.00000	0.0	0.0	-0.020640	*
				179.10000	135.00000	0.00000	0.0	0.0	-0.022212	*
				184.25000	135.00000	0.00000	0.0	0.0	-0.023553	*
				189.40000	135.00000	0.00000	0.0	0.0	-0.024587	*
				194.55000	135.00000	0.00000	0.0	0.0	-0.025271	*
				199.70000	135.00000	0.00000	0.0	0.0	-0.025598	*
				204.85000	135.00000	0.00000	0.0	0.0	-0.025586	*
				210.00000	135.00000	0.00000	0.0	0.0	-0.025273	*
				107.00000	140.00000	0.00000	0.0	0.0	-0.022880	*
				112.15000	140.00000	0.00000	0.0	0.0	-0.022717	*
				117.30000	140.00000	0.00000	0.0	0.0	-0.022353	*
				122.45000	140.00000	0.00000	0.0	0.0	-0.021903	*
				127.60000	140.00000	0.00000	0.0	0.0	-0.021472	*
				132.75000	140.00000	0.00000	0.0	0.0	-0.021143	*
				137.90000	140.00000	0.00000	0.0	0.0	-0.020979	*
				143.05000	140.00000	0.00000	0.0	0.0	-0.021017	*
				148.20000	140.00000	0.00000	0.0	0.0	-0.021269	*
				153.35000	140.00000	0.00000	0.0	0.0	-0.021722	*
				158.50000	140.00000	0.00000	0.0	0.0	-0.022339	*
				163.65000	140.00000	0.00000	0.0	0.0	-0.023066	*
				168.80000	140.00000	0.00000	0.0	0.0	-0.023836	*
				173.95000	140.00000	0.00000	0.0	0.0	-0.024574	*
				179.10000	140.00000	0.00000	0.0	0.0	-0.025210	*
				184.25000	140.00000	0.00000	0.0	0.0	-0.025685	*
				189.40000	140.00000	0.00000	0.0	0.0	-0.025956	*
				194.55000	140.00000	0.00000	0.0	0.0	-0.026001	*
				199.70000	140.00000	0.00000	0.0	0.0	-0.025817	*
				204.85000	140.00000	0.00000	0.0	0.0	-0.025415	*
				210.00000	140.00000	0.00000	0.0	0.0	-0.024820	*
				107.00000	145.00000	0.00000	0.0	0.0	-0.025634	*
				112.15000	145.00000	0.00000	0.0	0.0	-0.025806	*
				117.30000	145.00000	0.00000	0.0	0.0	-0.025809	*
				122.45000	145.00000	0.00000	0.0	0.0	-0.025711	*
				127.60000	145.00000	0.00000	0.0	0.0	-0.025573	*
				132.75000	145.00000	0.00000	0.0	0.0	-0.025447	*
				137.90000	145.00000	0.00000	0.0	0.0	-0.025369	*
				143.05000	145.00000	0.00000	0.0	0.0	-0.025363	*
				148.20000	145.00000	0.00000	0.0	0.0	-0.025439	*
				153.35000	145.00000	0.00000	0.0	0.0	-0.025590	*
				158.50000	145.00000	0.00000	0.0	0.0	-0.025796	*
				163.65000	145.00000	0.00000	0.0	0.0	-0.026028	*
				168.80000	145.00000	0.00000	0.0	0.0	-0.026249	*
				173.95000	145.00000	0.00000	0.0	0.0	-0.026419	*
				179.10000	145.00000	0.00000	0.0	0.0	-0.026501	*
				184.25000	145.00000	0.00000	0.0	0.0	-0.026461	*
				189.40000	145.00000	0.00000	0.0	0.0	-0.026280	*
				194.55000	145.00000	0.00000	0.0	0.0	-0.025947	*
				199.70000	145.00000	0.00000	0.0	0.0	-0.025461	*
				204.85000	145.00000	0.00000	0.0	0.0	-0.024832	*
				210.00000	145.00000	0.00000	0.0	0.0	-0.024079	*
				107.00000	150.00000	0.00000	0.0	0.0	-0.026784	*
				112.15000	150.00000	0.00000	0.0	0.0	-0.027118	*
				117.30000	150.00000	0.00000	0.0	0.0	-0.027309	*
				122.45000	150.00000	0.00000	0.0	0.0	-0.027397	*
				127.60000	150.00000	0.00000	0.0	0.0	-0.027417	*
				132.75000	150.00000	0.00000	0.0	0.0	-0.027397	*
				137.90000	150.00000	0.00000	0.0	0.0	-0.027363	*
				143.05000	150.00000	0.00000	0.0	0.0	-0.027327	*
				148.20000	150.00000	0.00000	0.0	0.0	-0.027296	*
				153.35000	150.00000	0.00000	0.0	0.0	-0.027269	*
				158.50000	150.00000	0.00000	0.0	0.0	-0.027235	*
				163.65000	150.00000	0.00000	0.0	0.0	-0.027179	*
				168.80000	150.00000	0.00000	0.0	0.0	-0.027083	*
				173.95000	150.00000	0.00000	0.0	0.0	-0.026925	*
				179.10000	150.00000	0.00000	0.0	0.0	-0.026688	*
				184.25000	150.00000	0.00000	0.0	0.0	-0.026355	*
				189.40000	150.00000	0.00000	0.0	0.0	-0.025917	*
				194.55000	150.00000	0.00000	0.0	0.0	-0.025371	*
				199.70000	150.00000	0.00000	0.0	0.0	-0.024721	*

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]	
				204.85000	150.00000	0.00000	0.0	0.0	-0.023975	*
				210.00000	150.00000	0.00000	0.0	0.0	-0.023147	*

* Result includes imported displacement(s).

Specific Building Damage Results - Horizontal Displacements

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
0	Base Model	1	16S-01	16S-01	0.0	86.49970	85.17730	0.00000	9.9712	-3.5853	-2.4585	10.307	d
					0.42983	86.26439	84.81760	0.00000	9.8569	-3.6111	-2.3743	10.226	d
					0.85967	86.02907	84.45790	0.00000	9.7316	-3.6335	-2.2870	10.133	d
					1.2895	85.79376	84.09820	0.00000	9.5947	-3.6520	-2.1965	10.029	d
					1.7193	85.55844	83.73850	0.00000	9.4453	-3.6664	-2.1028	9.9114	d
					2.1492	85.32313	83.37880	0.00000	9.2827	-3.6761	-2.0056	9.7806	d
					2.5790	85.08781	83.01910	0.00000	9.1061	-3.6807	-1.9050	9.6353	d
					3.0088	84.85250	82.65940	0.00000	8.9145	-3.6797	-1.8010	9.4744	d
					3.4387	84.61719	82.29970	0.00000	8.7072	-3.6725	-1.6935	9.2970	d
					3.8685	84.38187	81.94000	0.00000	8.4833	-3.6587	-1.5825	9.1021	d
					4.2983	84.14656	81.58030	0.00000	8.2423	-3.6375	-1.4683	8.8888	d
					4.7282	83.91124	81.22060	0.00000	7.9834	-3.6084	-1.3509	8.6563	d
					5.1580	83.67593	80.86090	0.00000	7.7065	-3.5709	-1.2307	8.4040	d
					5.5878	83.44061	80.50120	0.00000	7.4115	-3.5245	-1.1080	8.1317	d
					6.0177	83.20530	80.14150	0.00000	7.1945	-3.5033	-1.0070	7.9385	d
		2	16S-02	16S-02	0.0	83.20530	80.14150	0.00000	7.1945	-3.5033	-7.4025	3.0392	d
					0.47059	82.73566	80.17139	0.00000	6.5359	-3.3872	-6.7379	2.9652	d
					0.94119	82.26601	80.20129	0.00000	5.9422	-3.2908	-6.1392	2.9067	d
					1.4118	81.79637	80.23118	0.00000	5.3478	-3.1956	-5.5400	2.8494	d
					1.8824	81.32673	80.26107	0.00000	4.7462	-3.0998	-4.9336	2.7920	d
					2.3530	80.85709	80.29096	0.00000	4.1372	-3.0034	-4.3196	2.7346	d
					2.8236	80.38744	80.32086	0.00000	3.5203	-2.9065	-3.6978	2.6770	d
					3.2942	79.91780	80.35075	0.00000	2.9145	-2.8162	-3.0875	2.6254	d
					3.7647	79.44816	80.38064	0.00000	2.3297	-2.7461	-2.4994	2.5926	d
					4.2353	78.97851	80.41054	0.00000	1.7576	-2.6910	-1.9250	2.5739	d
					4.7059	78.50887	80.44043	0.00000	1.2231	-2.6528	-1.3891	2.5698	d
					5.1765	78.03923	80.47032	0.00000	0.76556	-2.6476	-0.93219	2.5936	d
					5.6471	77.56959	80.50021	0.00000	0.48814	-2.7169	-0.65974	2.6804	d
					6.1177	77.09994	80.53011	0.00000	0.75975	-3.0099	-0.94941	2.9556	d
					6.5883	76.63030	80.56000	0.00000	3.7678	-4.4978	-4.0459	4.2494	d
		3	16S-03	16S-03	0.0	76.63030	80.56000	0.00000	3.7678	-4.4978	-5.3176	2.4799	d
					0.46710	76.20712	80.75773	0.00000	6.3028	-5.9097	-8.2120	2.6860	d
					0.93420	75.78393	80.95547	0.00000	5.9071	-5.7549	-7.7879	2.7133	d
					1.4013	75.36075	81.15320	0.00000	5.5132	-5.6007	-7.3657	2.7403	d
					1.8684	74.93757	81.35093	0.00000	5.1213	-5.4470	-6.9456	2.7670	d
					2.3355	74.51438	81.54867	0.00000	4.7297	-5.2952	-6.5266	2.7952	d
					2.8026	74.09120	81.74640	0.00000	4.3316	-5.1514	-6.1050	2.8334	d
		4	16S-04	16S-04	0.0	74.09120	81.74640	0.00000	4.3316	-5.1514	-1.8284	-6.4774	d
					0.47964	74.36064	82.14321	0.00000	4.4045	-5.0024	-1.6642	-6.4540	d
					0.95928	74.63009	82.54001	0.00000	4.4741	-4.8583	-1.5058	-6.4306	d
					1.4389	74.89953	82.93682	0.00000	4.5408	-4.7184	-1.3526	-6.4072	d
					1.9186	75.16898	83.33362	0.00000	4.6050	-4.5824	-1.2041	-6.3839	d
					2.3982	75.43842	83.73043	0.00000	4.6669	-4.4497	-1.0596	-6.3606	d
					2.8778	75.70786	84.12724	0.00000	4.7268	-4.3200	-0.91859	-6.3373	d
					3.3575	75.97731	84.52404	0.00000	4.4392	-4.0055	-0.81999	-5.9227	d
					3.8371	76.24675	84.92085	0.00000	4.5119	-3.8890	-0.68275	-5.9174	d
					4.3168	76.51619	85.31766	0.00000	4.5793	-3.7778	-0.55286	-5.9107	d
					4.7964	76.78564	85.71446	0.00000	4.6427	-3.6706	-0.42863	-5.9029	d
					5.2760	77.05508	86.11127	0.00000	4.7114	-3.5698	-0.30658	-5.9031	d
					5.7557	77.32452	86.50807	0.00000	4.7808	-3.4724	-0.18702	-5.9058	d
					6.2353	77.59397	86.90488	0.00000	4.8469	-3.3759	-0.070094	-5.9063	d
					6.7150	77.86341	87.30169	0.00000	4.8385	-3.2516	0.028010	-5.8295	d
					7.1946	78.13286	87.69849	0.00000	4.8295	-3.1321	0.12183	-5.7550	d
					7.6743	78.40230	88.09530	0.00000	4.8426	-3.0252	0.21765	-5.7058	d
		5	16S-05	16S-05	0.0	78.40230	88.09530	0.00000	4.8426	-3.0252	4.2132	-3.8538	d
					0.49531	78.88938	88.18518	0.00000	5.1166	-3.0339	4.4811	-3.9121	d
					0.99061	79.37647	88.27507	0.00000	5.3460	-3.0144	4.7103	-3.9345	d
					1.4859	79.86355	88.36495	0.00000	5.5337	-2.9714	4.9026	-3.9263	d
					1.9812	80.35063	88.45483	0.00000	5.7333	-2.9314	5.1061	-3.9231	d
					2.4765	80.83772	88.54472	0.00000	5.9439	-2.8949	5.3199	-3.9255	d
					2.9718	81.32480	88.63460	0.00000	6.1648	-2.8619	5.5431	-3.9331	d
		6	16S-06	16S-06	0.0	81.32480	88.63460	0.00000	6.1648	-2.8619	6.7159	1.0450	d
					0.44454	81.69444	88.38765	0.00000	6.3861	-2.8880	6.9144	1.1462	d
					0.88908	82.06407	88.14070	0.00000	6.6104	-2.9126	7.1146	1.2504	d
					1.3336	82.43371	87.89375	0.00000	6.8142	-2.9576	7.3090	1.3261	d
					1.7782	82.80334	87.64680	0.00000	7.0253	-3.0006	7.5084	1.4077	d
					2.2227	83.17298	87.39985	0.00000	7.2449	-3.0421	7.7141	1.4952	d
					2.6672	83.54261	87.15290	0.00000	7.4741	-3.0828	7.9273	1.5886	d
					3.1118	83.91225	86.90595	0.00000	7.7137	-3.1233	8.1490	1.6881	d
					3.5563	84.28189	86.65900	0.00000	7.9497	-3.1639	8.3678	1.7854	d
					4.0009	84.65152	86.41205	0.00000	8.2109	-3.2140	8.6129	1.8889	d
					4.4454	85.02116	86.16510	0.00000	8.5272	-3.2767	8.9106	2.0124	d
					4.8899	85.39079	85.91815	0.00000	8.8619	-3.3453	9.2270	2.1413	d
					5.3345	85.76043	85.67120	0.00000	9.2164	-3.4225	9.5647	2.2740	d
					5.7790	86.13006	85.42425	0.00000	9.5861	-3.5025	9.9166	2.4130	d
					6.2235	86.49970	85.17730	0.00000	9.9712	-3.5853	10.283	2.5580	d
		7	BS-01	BS-01	0.0	41.07740	85.19800	0.00000	3.3366	1.1724	2.7140	2.2675	d
					0.49919	41.54492	85.02303	0.00000	3.4132	1.5851	2.6411	2.6809	d
					0.99838	42.01244	84.84806	0.00000	3.4711	2.0837	2.5206	3.1682	d
					1.4976	42.47996	84.67309	0.00000	3.5057	2.6813	2.3435	3.7399	d
					1.9968	42.94748	84.49812	0.00000	3.5119	3.3879	2.1016	4.4040	d
					2.4959	43.41500	84.32315	0.00000	3.4854	4.2062	1.7900	5.1610	d
					2.9951	43.88252	84.14818	0.00000	3.4234	5.1239	1.4103	5.9988	d
					3.4943	44.35003	83.97322	0.00000	3.3269	6.1086	0.97471	6.8872	d
					3.9935	44.81755	83.79825	0.00000	3.4539	6.3786	0.99901	7.1846	d
					4.4927	45.28507	83.62328	0.00000	3.5891	6.6283	1.0381	7.4658	d
					4.9919	45.75259	83.44831	0.00000	3.7253	6.8798	1.0775	7.7491	d
					5.4911	46.22011	83.27334	0.00000	3.8625	7.1332	1.1172	8.0345	d
					5.9903	46.68763	83.09837	0.00000	4.0007	7.3885	1.1572	8.3220	d
					6.4894	47.15515	82.92340	0.00000	4.1399	7.6456	1.1974	8.6116	d
					6.9886	47.62267	82.74843	0.00000	4.2801	7.9045	1.2380	8.9033	d
					7.4878	48.09019	82.57346	0.00000	4.4445	8.1566	1.3036	9.1969	d
					7.9870	48.55771	82.39849	0.00000	4.6824	8.2295	1.5008	9.3486	d
					8.4862	49.02523	82.22352	0.00000	4.7527	7.9928	1.6496	9.1516	d
					8.9854	49.49275	82.04855	0.00000	4.8221	7.7546	1.7981	8.9528	d
					9.4846	49.96027	81.87358	0.00000	4.8906	7.5148	1.9464	8.7522	d
					9.9838	50.42778	81.69862	0.00000	4.9583	7.2734	2.0943	8.5499	d
					10.483	50.89530	81.52365	0.00000	5.0251	7.0304	2.2421	8.3457	d
					10.982	51.36282	81.34868	0.00000	5.0910	6.7858	2.3895	8.1398	d
					11.481	51.83034	81.17371	0.00000	5.1560	6.5397	2.5367	7.9320	d
					11.981	52.29786	80.99874	0.00000	5.2202	6.2920	2.6836	7.7225	d
					12.480	52.76538	80.82377	0.00000	6.4322	9.4611	2.7079	11.115	d
					12.979	53.23290	80.64880	0.00000	5.1442	8.6486	1.7864	9.9030	d
		8	BS-02	BS-02	0.0	53.23290	80.64880	0.00000	5.1442	8.6486	-9.9054	1.7732	d
					0.49133	53.06007	80.18887	0.00000	5.2777	8.3131	-9.6383	2.0162	d
					0.98267	52.88724	79.72893	0.00000	5.2985	7.9309	-9.2878	2.1701	d
					1.4740	52.71441	79.26900	0.00000	5.2537	7.5239	-8.8910	2.2714	d
					1.9653	52.54158	78.80906	0.00000	5.1680	7.1033	-8.4673	2.3391	d
					2.4567	52.36875	78.34913	0.00000	5.0555	6.6756	-8.0272	2.3842	d
					2.9480	52.19592	77.88920	0.00000	4.9246	6.2442	-7.5774	2.4134	d
					3.4393	52.02309	77.42926	0.00000	4.7808	5.8114	-7.1217	2.4311	d
					3.9307	51.85025	76.96933	0.00000	4.6277	5.3785	-6.6626	2.4400	d
					4.4220	51.67742	76.50940	0.00000	4.4701	4.9507	-6.2067	2.4430	d
					4.9133	51.50459	76.04946	0.00000	4.3336	4.5995	-5.8299	2.4387	d
					5.4047	51.33176	75.58953	0.00000	4.1838	4.2534	-5.4532	2.4203	d
					5.8960	51.15893	75.12959	0.00000	4.0310	3.9089	-5.0771	2.3984	d
					6.3873	50.98610	74.66966	0.00000	3.8760	3.5664	-4.7019	2.3738	d
					6.8787	50.81327	74.20973	0.00000	3.7192	3.2257	-4.3279	2.3469	d
					7.3700	50.64044	73.74979	0.00000	3.5593	2.8834	-3.9511	2.3175	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					7.8614	50.46761	73.28986	0.00000	3.3980	2.5425	-3.5752	2.2865	d
					8.3527	50.29478	72.82992	0.00000	3.2376	2.2063	-3.2042	2.2546	d
					8.8440	50.12195	72.36999	0.00000	3.0783	1.8749	-2.8378	2.2220	d
					9.3354	49.94912	71.91006	0.00000	2.9201	1.5480	-2.4762	2.1890	d
					9.8267	49.77629	71.45012	0.00000	2.8302	1.3491	-2.2584	2.1748	d
					10.318	49.60346	70.99019	0.00000	2.7554	1.1799	-2.0737	2.1643	d
					10.809	49.43063	70.53025	0.00000	2.6803	1.0115	-1.8897	2.1531	d
					11.301	49.25780	70.07032	0.00000	2.6047	0.84394	-1.7062	2.1414	d
					11.792	49.08496	69.61039	0.00000	2.5289	0.67684	-1.5231	2.1292	d
					12.283	48.91213	69.15045	0.00000	2.4526	0.51005	-1.3402	2.1164	d
					12.775	48.73930	68.69052	0.00000	2.3769	0.35511	-1.1685	2.1001	d
					13.266	48.56647	68.23059	0.00000	2.3168	0.29824	-1.0941	2.0638	d
					13.757	48.39364	67.77065	0.00000	2.2607	0.27527	-1.0529	2.0194	d
					14.249	48.22081	67.31072	0.00000	2.1962	0.25304	-1.0094	1.9669	d
					14.740	48.04798	66.85078	0.00000	2.1234	0.23052	-0.96270	1.9066	d
					15.231	47.87515	66.39085	0.00000	2.0423	0.20668	-0.91185	1.8390	d
					15.723	47.70232	65.93092	0.00000	1.9747	0.17658	-0.85992	1.7864	d
					16.214	47.52949	65.47098	0.00000	1.9036	0.14248	-0.80300	1.7319	d
					16.705	47.35666	65.01105	0.00000	1.8230	0.10469	-0.73925	1.6697	d
					17.197	47.18383	64.55111	0.00000	1.7396	0.062043	-0.67001	1.6066	d
					17.688	47.01100	64.09118	0.00000	1.6665	0.014162	-0.59946	1.5550	d
					18.179	46.83817	63.63125	0.00000	1.6035	0.0	-0.56406	1.5011	d
					18.671	46.66534	63.17131	0.00000	1.5584	0.0	-0.54818	1.4588	d
					19.162	46.49250	62.71138	0.00000	1.5121	0.0	-0.53191	1.4155	d
					19.653	46.31967	62.25145	0.00000	1.4647	0.0	-0.51523	1.3711	d
					20.145	46.14684	61.79151	0.00000	1.4162	0.0	-0.49814	1.3257	d
					20.636	45.97401	61.33158	0.00000	1.3664	0.0	-0.48066	1.2791	d
					21.127	45.80118	60.87164	0.00000	1.3156	0.0	-0.46277	1.2315	d
					21.619	45.62835	60.41171	0.00000	1.2636	0.0	-0.44448	1.1828	d
					22.110	45.45552	59.95178	0.00000	1.2105	0.0	-0.42579	1.1331	d
					22.601	45.28269	59.49184	0.00000	1.1384	0.0	-0.40043	1.0656	d
					23.093	45.10986	59.03191	0.00000	1.0403	0.0	-0.36592	0.97378	d
					23.584	44.93703	58.57197	0.00000	0.94621	0.0	-0.33284	0.88574	d
					24.075	44.76420	58.11204	0.00000	0.85623	0.0	-0.30119	0.80151	d
					24.567	44.59137	57.65211	0.00000	0.77031	0.0	-0.27096	0.72108	d
					25.058	44.41854	57.19217	0.00000	0.68845	0.0	-0.24217	0.64445	d
					25.549	44.24571	56.73224	0.00000	0.61065	0.0	-0.21480	0.57163	d
					26.041	44.07288	56.27230	0.00000	0.53692	0.0	-0.18887	0.50260	d
					26.532	43.90005	55.81237	0.00000	0.46725	0.0	-0.16436	0.43738	d
					27.023	43.72721	55.35244	0.00000	0.40815	0.0044994	-0.14778	0.38048	d
					27.515	43.55438	54.89250	0.00000	0.35117	0.0092825	-0.13221	0.32546	d
					28.006	43.38155	54.43257	0.00000	0.29333	0.012351	-0.11474	0.27024	d
					28.497	43.20872	53.97264	0.00000	0.23483	0.013627	-0.095359	0.21503	d
					28.989	43.03589	53.51270	0.00000	0.17584	0.013046	-0.074066	0.16001	d
					29.480	42.86306	53.05277	0.00000	0.11652	0.010555	-0.050868	0.10536	d
					29.971	42.69023	52.59283	0.00000	0.057023	0.0061125	-0.025780	0.051228	d
					30.463	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0	d
		9	BS-03	BS-03	0.0	42.51740	52.13290	0.00000	0.0	0.0	0.0	0.0	d
					0.17272	42.34490	52.12415	0.00000	0.0	0.0	0.0	0.0	d
					0.34544	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0	d
		10	BS-04	BS-04	0.0	42.17240	52.11540	0.00000	0.0	0.0	0.0	0.0	d
					0.48678	41.96133	51.67676	0.00000	0.0	0.0	0.0	0.0	d
					0.97357	41.75025	51.23812	0.00000	0.0	0.0	0.0	0.0	d
					1.4604	41.53918	50.79948	0.00000	0.0	0.0	0.0	0.0	d
					1.9471	41.32810	50.36083	0.00000	0.0	0.0	0.0	0.0	d
					2.4339	41.11702	49.92219	0.00000	0.0	0.0	0.0	0.0	d
					2.9207	40.90595	49.48355	0.00000	0.0	0.0	0.0	0.0	d
					3.4075	40.69488	49.04491	0.00000	0.0	0.0	0.0	0.0	d
					3.8943	40.48380	48.60627	0.00000	0.0	0.0	0.0	0.0	d
					4.3811	40.27273	48.16763	0.00000	0.0	0.0	0.0	0.0	d
					4.8678	40.06165	47.72898	0.00000	0.0	0.0	0.0	0.0	d
					5.3546	39.85057	47.29034	0.00000	0.0	0.0	0.0	0.0	d
					5.8414	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0	d
		11	BS-05	BS-05	0.0	39.63950	46.85170	0.00000	0.0	0.0	0.0	0.0	d
					0.41953	39.22713	46.92883	0.00000	0.0	0.0	0.0	0.0	d
					0.83905	38.81475	47.00595	0.00000	0.0	0.0	0.0	0.0	d
					1.2586	38.40237	47.08308	0.00000	0.0	0.0	0.0	0.0	d
					1.6781	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0	d
		12	BS-06	BS-06	0.0	37.99000	47.16020	0.00000	0.0	0.0	0.0	0.0	d
					0.40368	37.62248	47.32718	0.00000	0.0	0.0	0.0	0.0	d
					0.80735	37.25495	47.49415	0.00000	0.0	0.0	0.0	0.0	d
					1.2110	36.88743	47.66112	0.00000	0.0	0.0	0.0	0.0	d
					1.6147	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0	d
		13	BS-07	BS-07	0.0	36.51990	47.82810	0.00000	0.0	0.0	0.0	0.0	d
					0.38860	36.26713	48.12325	0.00000	0.0	0.0	0.0	0.0	d
					0.77720	36.01435	48.41840	0.00000	0.0	0.0	0.0	0.0	d
					1.1658	35.76158	48.71355	0.00000	0.0	0.0	0.0	0.0	d
					1.5544	35.50880	49.00870	0.00000	0.0	0.0	0.0	0.0	d
					1.9430	35.25603	49.30385	0.00000	0.0	0.0	0.0	0.0	d
					2.3316	35.00325	49.59900	0.00000	0.0	0.0	0.0	0.0	d
					2.7202	34.75048	49.89415	0.00000	0.0	0.0	0.0	0.0	d
					3.1088	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0	d
		14	BS-08	BS-08	0.0	34.49770	50.18930	0.00000	0.0	0.0	0.0	0.0	d
					0.43736	34.10233	50.37673	0.00000	0.0	0.0	0.0	0.0	d
					0.87473	33.70737	50.56417	0.00000	0.0	0.0	0.0	0.0	d
					1.3121	33.31220	50.75160	0.00000	0.0	0.0	0.0	0.0	d
					1.7495	32.91703	50.93903	0.00000	0.0	0.0	0.0	0.0	d
					2.1868	32.52187	51.12647	0.00000	0.0	0.0	0.0	0.0	d
					2.6242	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0	d
		15	BS-09	BS-09	0.0	32.12670	51.31390	0.00000	0.0	0.0	0.0	0.0	d
					0.48956	32.31482	51.76587	0.00000	0.0	0.0	0.0	0.0	d
					0.97913	32.50295	52.21785	0.00000	0.0	0.0	0.0	0.0	d
					1.4687	32.69107	52.66983	0.00000	0.0	0.0	0.0	0.0	d
					1.9583	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0	d
		16	BS-10	BS-10	0.0	32.87920	53.12180	0.00000	0.0	0.0	0.0	0.0	d
					0.40664	32.49437	53.25320	0.00000	0.0	0.0	0.0	0.0	d
					0.81328	32.10955	53.38460	0.00000	0.0	0.0	0.0	0.0	d
					1.2199	31.72472	53.51600	0.00000	0.0	0.0	0.0	0.0	d
					1.6266	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0	d
		17	BS-11	BS-11	0.0	31.33990	53.64740	0.00000	0.0	0.0	0.0	0.0	d
					0.25067	31.26590	53.40790	0.00000	0.0	0.0	0.0	0.0	d
					0.50134	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0	d
		18	BS-12	BS-12	0.0	31.19190	53.16840	0.00000	0.0	0.0	0.0	0.0	d
					0.39957	30.82340	53.32289	0.00000	0.0	0.0	0.0	0.0	d
					0.79915	30.45490	53.47737	0.00000	0.0	0.0	0.0	0.0	d
					1.1987	30.08640	53.63186	0.00000	0.0	0.0	0.0	0.0	d
					1.5983	29.71790	53.78635	0.00000	0.0	0.0	0.0	0.0	d
					1.9979	29.34940	53.94084	0.00000	0.0	0.0	0.0	0.0	d
					2.3974	28.98090	54.09533	0.00000	0.0	0.0	0.0	0.0	d
					2.7970	28.61240	54.24981	0.00000	0.0	0.0	0.0	0.0	d
					3.1966	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0	d
		19	BS-13	BS-13	0.0	28.24390	54.40430	0.00000	0.0	0.0	0.0	0.0	d
					0.44360	28.40681	54.81690	0.00000	0.0	0.0	0.0	0.0	d
					0.88720	28.56972	55.22950	0.00000	0.0	0.0	0.0	0.0	d
					1.3308	28.73264	55.64210	0.00000	0.0	0.0	0.0	0.0	d
					1.7744	28.89555	56.05470	0.00000	0.0	0.0	0.0	0.0	d
					2.2180	29.05846	56.46730	0.00000	0.0	0.0	0.0	0.0	d
					2.6616	29.22138	56.87990	0.00000	0.0	0.0	0.0	0.0	d
					3.1052	29.38429	57.29250	0.00000	0.0	0.0	0.0	0.0	d
					3.5488	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0	d
		20	BS-14	BS-14	0.0	29.54720	57.70510	0.00000	0.0	0.0	0.0	0.0	d
					0.41644	29.93258	57.54730	0.00000	0.0	0.0	0.0	0.0	d
					0.83288	30.31797	57.38950	0.00000	0.0	0.0	0.0	0.0	d
					1.2493	30.70335	57.23170	0.00000	0.0	0.0	0.0	0.0	d
					1.6658	31.08873	57.07390	0.00000	0.0	0.0	0.0	0.0	d
					2.0822	31.47412	56.91610	0.00000	0.0	0.0	0.0	0.0	d
					2.4986	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0	d
		21	BS-15	BS-15	0.0	31.85950	56.75830	0.00000	0.0	0.0	0.0	0.0	d
					0.49971	32.03411	57.22651	0.00000	0.0	0.0	0.0	0.0	d
					0.99942	32.20873	57.69472	0.00000	0.0	0.0	0.0	0.0	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					1.4991	32.38334	58.16294	0.00000	0.0	0.0	0.0	0.0	d
					1.9988	32.55796	58.63115	0.00000	0.0	0.0	0.0	0.0	d
					2.4986	32.73257	59.09936	0.00000	0.0	0.0	0.0	0.0	d
					2.9983	32.90719	59.56757	0.00000	0.0	0.0	0.0	0.0	d
					3.4980	33.08180	60.03578	0.00000	0.0	0.0	0.0	0.0	d
					3.9977	33.25642	60.50399	0.00000	0.0	0.0	0.0	0.0	d
					4.4974	33.43103	60.97221	0.00000	0.0	0.0	0.0	0.0	d
					4.9971	33.60565	61.44042	0.00000	0.0	0.0	0.0	0.0	d
					5.4968	33.78026	61.90863	0.00000	0.0	0.0	0.0	0.0	d
					5.9965	33.95488	62.37684	0.00000	0.0	0.0	0.0	0.0	d
					6.4963	34.12949	62.84505	0.00000	0.0	0.0	0.0	0.0	d
					6.9960	34.30411	63.31326	0.00000	0.0	0.0	0.0	0.0	d
					7.4957	34.47872	63.78148	0.00000	0.0	0.0	0.0	0.0	d
					7.9954	34.65334	64.24969	0.00000	0.0	0.0	0.0	0.0	d
					8.4951	34.82795	64.71790	0.00000	0.0	0.0	0.0	0.0	d
					8.9948	35.00256	65.18611	0.00000	0.0	0.0	0.0	0.0	d
					9.4945	35.17718	65.65432	0.00000	0.0	0.0	0.0	0.0	d
					9.9942	35.35179	66.12254	0.00000	0.0	0.0	0.0	0.0	d
					10.494	35.52641	66.59075	0.00000	0.0	0.0	0.0	0.0	d
					10.994	35.70102	67.05896	0.00000	0.0	0.0	0.0	0.0	d
					11.493	35.87564	67.52717	0.00000	0.0	0.0	0.0	0.0	d
					11.993	36.05025	67.99538	0.00000	0.0	0.0	0.0	0.0	d
					12.493	36.22487	68.46359	0.00000	0.0	0.0	0.0	0.0	d
					12.993	36.39948	68.93181	0.00000	0.0	0.0	0.0	0.0	d
					13.492	36.57410	69.40002	0.00000	0.030898	0.057062	0.064262	-0.0090109	d
					13.992	36.74871	69.86823	0.00000	0.089954	0.16613	0.18709	-0.026234	d
					14.492	36.92333	70.33644	0.00000	0.14898	0.27427	0.30904	-0.043750	d
					14.991	37.09794	70.80465	0.00000	0.20820	0.38160	0.43030	-0.061731	d
					15.491	37.27256	71.27286	0.00000	0.26742	0.48786	0.55056	-0.080091	d
					15.991	37.44717	71.74108	0.00000	0.32665	0.59297	0.66973	-0.098862	d
					16.491	37.62179	72.20929	0.00000	0.38589	0.69681	0.78773	-0.11808	d
					16.990	37.79640	72.67750	0.00000	0.44514	0.79928	0.90444	-0.13779	d
		22	BS-16	BS-16	0.0	37.79640	72.67750	0.00000	0.44514	0.79928	0.89271	-0.20017	d
					0.49570	37.93699	73.15284	0.00000	0.50316	0.89586	1.0018	-0.22842	d
					0.99139	38.07758	73.62818	0.00000	0.56117	0.99013	1.1086	-0.25730	d
					1.4871	38.21817	74.10352	0.00000	0.63399	1.1072	1.2415	-0.29384	d
					1.9828	38.35876	74.57886	0.00000	0.73335	1.2660	1.4221	-0.34416	d
					2.4785	38.49935	75.05420	0.00000	0.83327	1.4206	1.5986	-0.39613	d
					2.9742	38.63994	75.52954	0.00000	0.93381	1.5706	1.7710	-0.44999	d
					3.4699	38.78053	76.00488	0.00000	1.0351	1.7157	1.9389	-0.50602	d
					3.9656	38.92112	76.48022	0.00000	1.1374	1.8555	2.1019	-0.56449	d
					4.4613	39.06171	76.95556	0.00000	1.2409	1.9893	2.2596	-0.62574	d
					4.9570	39.20230	77.43090	0.00000	1.3457	2.1166	2.4113	-0.69014	d
		23	BS-17	BS-17	0.0	39.20230	77.43090	0.00000	1.3457	2.1166	-0.54090	-2.4491	d
					0.40858	38.81835	77.57060	0.00000	1.3284	1.9933	-0.56675	-2.3274	d
					0.81715	38.43440	77.71030	0.00000	1.3076	1.8710	-0.58907	-2.2053	d
		24	BS-18	BS-18	0.0	38.43440	77.71030	0.00000	1.3076	1.8710	2.1995	-0.61029	d
					0.49628	38.59959	78.17928	0.00000	1.4146	1.9775	2.3356	-0.67578	d
					0.99256	38.76478	78.64626	0.00000	1.5233	2.0754	2.4641	-0.74566	d
					1.4888	38.92996	79.11424	0.00000	1.6339	2.1636	2.5841	-0.82053	d
					1.9851	39.09515	79.58222	0.00000	1.7464	2.2406	2.6941	-0.90107	d
					2.4814	39.26034	80.05021	0.00000	1.8613	2.3046	2.7927	-0.98806	d
					2.9777	39.42552	80.51819	0.00000	1.9786	2.3535	2.8779	-1.0824	d
					3.4740	39.59071	80.98617	0.00000	2.0987	2.3850	2.9476	-1.1852	d
					3.9702	39.75590	81.45415	0.00000	2.2218	2.3960	2.9989	-1.2975	d
					4.4665	39.92109	81.92213	0.00000	2.3480	2.3831	3.0287	-1.4210	d
					4.9628	40.08628	82.39011	0.00000	2.4778	2.3419	3.0331	-1.5570	d
					5.4591	40.25146	82.85809	0.00000	2.6113	2.2676	3.0075	-1.7076	d
					5.9554	40.41665	83.32608	0.00000	2.7486	2.1545	2.9466	-1.8747	d
					6.4516	40.58184	83.79406	0.00000	2.8899	1.9960	2.8441	-2.0608	d
					6.9479	40.74702	84.26204	0.00000	3.0353	1.7847	2.6932	-2.2681	d
					7.4442	40.91221	84.73002	0.00000	3.1843	1.5128	2.4864	-2.4992	d
					7.9405	41.07740	85.19800	0.00000	3.3366	1.1724	2.2161	-2.7561	d
		25	SB-01	SB-01	0.0	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0	d
					0.28479	80.70318	128.86005	0.00000	0.0	0.0	0.0	0.0	d
					0.56958	80.84675	129.10600	0.00000	0.0	0.0	0.0	0.0	d
					0.85437	80.99032	129.35195	0.00000	0.0	0.0	0.0	0.0	d
					1.1392	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0	d
		26	SB-02	SB-02	0.0	81.13390	129.59790	0.00000	0.0	0.0	0.0	0.0	d
					0.46930	81.53432	129.35316	0.00000	0.0	0.0	0.0	0.0	d
					0.93860	81.93475	129.10841	0.00000	0.0	0.0	0.0	0.0	d
					1.4079	82.33517	128.86366	0.00000	0.0	0.0	0.0	0.0	d
					1.8772	82.73560	128.61892	0.00000	0.0	0.0	0.0	0.0	d
					2.3465	83.13602	128.37418	0.00000	0.0	0.0	0.0	0.0	d
					2.8158	83.53645	128.12943	0.00000	0.0	0.0	0.0	0.0	d
					3.2851	83.93688	127.88469	0.00000	0.0	0.0	0.0	0.0	d
					3.7544	84.33730	127.63994	0.00000	0.0	0.0	0.0	0.0	d
					4.2237	84.73772	127.39520	0.00000	0.0	0.0	0.0	0.0	d
					4.6930	85.13815	127.15045	0.00000	0.0	0.0	0.0	0.0	d
					5.1623	85.53857	126.90571	0.00000	0.0	0.0	0.0	0.0	d
					5.6316	85.93900	126.66096	0.00000	0.0	0.0	0.0	0.0	d
					6.1009	86.33942	126.41622	0.00000	0.0	0.0	0.0	0.0	d
					6.5702	86.73985	126.17147	0.00000	0.0	0.0	0.0	0.0	d
					7.0395	87.14028	125.92673	0.00000	0.0	0.0	0.0	0.0	d
					7.5088	87.54070	125.68198	0.00000	0.0	0.0	0.0	0.0	d
					7.9781	87.94112	125.43724	0.00000	0.0	0.0	0.0	0.0	d
					8.4474	88.34155	125.19249	0.00000	0.0	0.0	0.0	0.0	d
					8.9167	88.74197	124.94774	0.00000	0.0	0.0	0.0	0.0	d
					9.3860	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0	d
		27	SB-03	SB-03	0.0	89.14240	124.70300	0.00000	0.0	0.0	0.0	0.0	d
					0.49874	88.87339	124.28303	0.00000	0.0	0.0	0.0	0.0	d
					0.99747	88.60438	123.86307	0.00000	0.0	0.0	0.0	0.0	d
					1.4962	88.33537	123.44310	0.00000	0.0	0.0	0.0	0.0	d
					1.9949	88.06636	123.02313	0.00000	0.0	0.0	0.0	0.0	d
					2.4937	87.79735	122.60316	0.00000	0.0	0.0	0.0	0.0	d
					2.9924	87.52834	122.18320	0.00000	0.0	0.0	0.0	0.0	d
					3.4912	87.25933	121.76323	0.00000	0.0	0.0	0.0	0.0	d
					3.9899	86.99032	121.34326	0.00000	0.0	0.0	0.0	0.0	d
					4.4886	86.72131	120.92329	0.00000	0.0	0.0	0.0	0.0	d
					4.9874	86.45230	120.50333	0.00000	0.0	0.0	0.0	0.0	d
					5.4861	86.18329	120.08336	0.00000	0.0	0.0	0.0	0.0	d
					5.9848	85.91428	119.66339	0.00000	0.0	0.0	0.0	0.0	d
					6.4836	85.64527	119.24343	0.00000	0.0	0.0	0.0	0.0	d
					6.9823	85.37626	118.82346	0.00000	0.0	0.0	0.0	0.0	d
					7.4811	85.10724	118.40349	0.00000	0.0	0.0	0.0	0.0	d
					7.9798	84.83823	117.98352	0.00000	0.0	0.0	0.0	0.0	d
					8.4785	84.56922	117.56356	0.00000	0.0	0.0	0.0	0.0	d
					8.9773	84.30021	117.14359	0.00000	0.0	0.0	0.0	0.0	d
					9.4760	84.03120	116.72362	0.00000	0.0	0.0	0.0	0.0	d
					9.9747	83.76219	116.30366	0.00000	0.0	0.0	0.0	0.0	d
					10.473	83.49318	115.88369	0.00000	0.0	0.0	0.0	0.0	d
					10.972	83.22417	115.46372	0.00000	0.0	0.0	0.0	0.0	d
					11.471	82.95516	115.04375	0.00000	0.0	0.0	0.0	0.0	d
					11.970	82.68615	114.62379	0.00000	0.0	0.0	0.0	0.0	d
					12.468	82.41714	114.20382	0.00000	0.0	0.0	0.0	0.0	d
					12.967	82.14813	113.78385	0.00000	0.0	0.0	0.0	0.0	d
					13.466	81.87912	113.36388	0.00000	0.0	0.0	0.0	0.0	d
					13.965	81.61011	112.94392	0.00000	0.0	0.0	0.0	0.0	d
					14.463	81.34110	112.52395	0.00000	0.0	0.0	0.0	0.0	d
					14.962	81.07209	112.10398	0.00000	0.0	0.0	0.0	0.0	d
					15.461	80.80308	111.68402	0.00000	0.0	0.0	0.0	0.0	d
					15.960	80.53407	111.26405	0.00000	0.0	0.0	0.0	0.0	d
					16.458	80.26506	110.84408	0.00000	0.0	0.0	0.0	0.0	d
					16.957	79.99605	110.42411	0.00000	0.0	0.0	0.0	0.0	d
					17.456	79.72704	110.00415	0.00000	0.0	0.0	0.0	0.0	d
					17.955	79.45803	109.58418	0.00000	0.0	0.0	0.0	0.0	d
					18.453	79.18902	109.16421	0.00000	0.0	0.0	0.0	0.0	d
					18.952	78.92001	108.74424	0.00000	0.0	0.0	0.0	0.0	d
					19.451	78.65100	108.32428	0.00000	0.0	0.0	0.0	0.0	d
					19.949	78.38199	107.90431	0.00000	-0.0084796	-0.0036184	0.0076206	-0.0051886	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					20.448	78.11298	107.48434	0.00000	-0.11608	-0.047684	0.10276	-0.072024	d
					20.947	77.84397	107.06438	0.00000	-0.22556	-0.089012	0.19662	-0.14193	d
					21.446	77.57496	106.64441	0.00000	-0.33702	-0.12746	0.28911	-0.21505	d
					21.944	77.30594	106.22444	0.00000	-0.45054	-0.16287	0.38016	-0.29153	d
					22.443	77.03693	105.80447	0.00000	-0.56618	-0.19509	0.46967	-0.37153	d
					22.942	76.76792	105.38451	0.00000	-0.68404	-0.22395	0.55754	-0.45520	d
					23.441	76.49891	104.96454	0.00000	-0.80418	-0.24929	0.64368	-0.54271	d
					23.939	76.22990	104.54457	0.00000	-0.92670	-0.27091	0.72797	-0.63421	d
					24.438	75.96089	104.12461	0.00000	-1.1175	-0.34524	0.89347	-0.75479	d
					24.937	75.69188	103.70464	0.00000	-1.3667	-0.46355	1.1275	-0.90083	d
					25.436	75.42287	103.28467	0.00000	-1.6183	-0.57756	1.3592	-1.0512	d
					25.934	75.15386	102.86470	0.00000	-1.9026	-0.71432	1.6277	-1.2168	d
					26.433	74.88485	102.44474	0.00000	-2.2049	-0.85186	1.9066	-1.3972	d
					26.932	74.61584	102.02477	0.00000	-2.5594	-0.99846	2.2213	-1.6166	d
					27.431	74.34683	101.60480	0.00000	-2.9184	-1.1426	2.5362	-1.8411	d
					27.929	74.07782	101.18483	0.00000	-3.2001	-1.2646	2.7910	-2.0126	d
					28.428	73.80881	100.76487	0.00000	-3.3946	-1.3621	2.9780	-2.1238	d
					28.927	73.53980	100.34490	0.00000	-3.5751	-1.4527	3.1516	-2.2269	d
		28	SB-04	SB-04	0.0	73.53980	100.34490	0.00000	-3.5751	-1.4527	2.2391	3.1430	d
					0.45074	73.15931	100.58655	0.00000	-3.9283	-1.6068	2.4546	3.4624	d
					0.90147	72.77883	100.82820	0.00000	-4.2937	-1.7668	2.6773	3.7934	d
					1.3522	72.39835	101.06985	0.00000	-4.6103	-1.9180	2.8635	4.0907	d
					1.8029	72.01786	101.31150	0.00000	-4.8122	-2.0516	2.9623	4.3118	d
					2.2537	71.63737	101.55315	0.00000	-4.9354	-2.1222	3.0284	4.4374	d
					2.7044	71.25689	101.79480	0.00000	-5.0400	-2.1812	3.0850	4.5433	d
					3.1552	70.87641	102.03645	0.00000	-5.1373	-2.2386	3.1365	4.6439	d
					3.6059	70.49592	102.27810	0.00000	-5.2417	-2.3336	3.1737	4.7801	d
					4.0566	70.11543	102.51975	0.00000	-5.3560	-2.4988	3.1815	4.9808	d
					4.5074	69.73495	102.76140	0.00000	-3.6702	-1.1417	2.4860	2.9314	d
					4.9581	69.35447	103.00305	0.00000	-3.6949	-1.2809	2.4323	3.0622	d
					5.4088	68.97398	103.24470	0.00000	-3.7008	-1.4312	2.3567	3.1922	d
					5.8596	68.59349	103.48635	0.00000	-3.6869	-1.5925	2.2585	3.3209	d
					6.3103	68.21301	103.72800	0.00000	-3.6524	-1.7648	2.1370	3.4479	d
					6.7611	67.83253	103.96965	0.00000	-3.5966	-1.9479	1.9917	3.5725	d
					7.2118	67.45204	104.21130	0.00000	-3.5191	-2.1410	1.8228	3.6940	d
					7.6625	67.07155	104.45295	0.00000	-3.4199	-2.3433	1.6306	3.8116	d
					8.1133	66.69107	104.69460	0.00000	-3.3034	-2.5567	1.4178	3.9292	d
					8.5640	66.31059	104.93625	0.00000	-3.2358	-2.8297	1.2143	4.1235	d
					9.0147	65.93010	105.17790	0.00000	-3.1525	-3.1099	0.99385	4.3154	d
		29	SB-05	SB-05	0.0	65.93010	105.17790	0.00000	-3.1525	-3.1099	-4.3145	0.99776	d
					0.47729	66.18562	105.58103	0.00000	-2.9647	-3.0122	-4.1314	0.89148	d
					0.95459	66.44114	105.98417	0.00000	-2.7850	-2.9048	-3.9444	0.79722	d
					1.4319	66.69667	106.38730	0.00000	-2.6124	-2.7894	-3.7546	0.71317	d
					1.9092	66.95219	106.79044	0.00000	-2.4459	-2.6675	-3.5625	0.63784	d
					2.3865	67.20771	107.19357	0.00000	-2.2849	-2.5400	-3.3686	0.57004	d
					2.8638	67.46323	107.59671	0.00000	-2.1285	-2.4079	-3.1733	0.50874	d
					3.3411	67.71875	107.99984	0.00000	-1.9764	-2.2717	-2.9768	0.45309	d
					3.8183	67.97428	108.40297	0.00000	-1.8278	-2.1321	-2.7794	0.40240	d
					4.2956	68.22980	108.80611	0.00000	-1.6825	-1.9894	-2.5811	0.35604	d
					4.7729	68.48532	109.20924	0.00000	-1.5400	-1.8440	-2.3820	0.31351	d
					5.2502	68.74084	109.61238	0.00000	-1.3999	-1.6961	-2.1821	0.27436	d
					5.7275	68.99636	110.01551	0.00000	-1.2619	-1.5459	-1.9813	0.23822	d
					6.2048	69.25188	110.41865	0.00000	-1.1257	-1.3936	-1.7797	0.20473	d
					6.6821	69.50741	110.82178	0.00000	-0.99094	-1.2391	-1.5771	0.17363	d
					7.1594	69.76293	111.22492	0.00000	-0.85641	-1.0813	-1.3718	0.14447	d
					7.6367	70.01845	111.62805	0.00000	-0.77305	-0.98380	-1.2448	0.12625	d
					8.1140	70.27397	112.03118	0.00000	-0.69022	-0.88494	-1.1170	0.10922	d
					8.5913	70.52949	112.43432	0.00000	-0.60788	-0.78483	-0.98832	0.093265	d
					9.0686	70.78502	112.83745	0.00000	-0.52599	-0.68358	-0.85896	0.078301	d
					9.5459	71.04054	113.24059	0.00000	-0.44451	-0.58129	-0.72895	0.064245	d
					10.023	71.29606	113.64372	0.00000	-0.36341	-0.47804	-0.59832	0.051026	d
					10.500	71.55158	114.04686	0.00000	-0.28267	-0.37389	-0.46713	0.038579	d
					10.978	71.80710	114.44999	0.00000	-0.20224	-0.26893	-0.33542	0.026846	d
					11.455	72.06262	114.85312	0.00000	-0.12212	-0.16320	-0.20323	0.015775	d
					11.932	72.31815	115.25626	0.00000	-0.042280	-0.056772	-0.070586	0.0053172	d
					12.410	72.57367	115.65939	0.00000	0.0	0.0	0.0	0.0	d
					12.887	72.82919	116.06253	0.00000	0.0	0.0	0.0	0.0	d
					13.364	73.08471	116.46566	0.00000	0.0	0.0	0.0	0.0	d
					13.842	73.34023	116.86880	0.00000	0.0	0.0	0.0	0.0	d
					14.319	73.59576	117.27193	0.00000	0.0	0.0	0.0	0.0	d
					14.796	73.85128	117.67507	0.00000	0.0	0.0	0.0	0.0	d
					15.273	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0	d
		30	SB-06	SB-06	0.0	74.10680	118.07820	0.00000	0.0	0.0	0.0	0.0	d
					0.43543	73.71623	118.27067	0.00000	0.0	0.0	0.0	0.0	d
					0.87085	73.32565	118.46315	0.00000	0.0	0.0	0.0	0.0	d
					1.3063	72.93508	118.65563	0.00000	0.0	0.0	0.0	0.0	d
					1.7417	72.54450	118.84810	0.00000	0.0	0.0	0.0	0.0	d
					2.1771	72.15393	119.04057	0.00000	0.0	0.0	0.0	0.0	d
					2.6126	71.76335	119.23305	0.00000	0.0	0.0	0.0	0.0	d
					3.0480	71.37278	119.42552	0.00000	0.0	0.0	0.0	0.0	d
					3.4834	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0	d
		31	SB-07	SB-07	0.0	70.98220	119.61800	0.00000	0.0	0.0	0.0	0.0	d
					0.37898	70.83282	119.26970	0.00000	0.0	0.0	0.0	0.0	d
					0.75796	70.68345	118.92140	0.00000	0.0	0.0	0.0	0.0	d
					1.1369	70.53408	118.57310	0.00000	0.0	0.0	0.0	0.0	d
					1.5159	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0	d
		32	SB-08	SB-08	0.0	70.38470	118.22480	0.00000	0.0	0.0	0.0	0.0	d
					0.49123	69.95028	118.45410	0.00000	0.0	0.0	0.0	0.0	d
					0.98245	69.51585	118.68340	0.00000	0.0	0.0	0.0	0.0	d
					1.4737	69.08143	118.91271	0.00000	0.0	0.0	0.0	0.0	d
					1.9649	68.64701	119.14201	0.00000	0.0	0.0	0.0	0.0	d
					2.4561	68.21258	119.37131	0.00000	0.0	0.0	0.0	0.0	d
					2.9474	67.77816	119.60061	0.00000	0.0	0.0	0.0	0.0	d
					3.4386	67.34374	119.82991	0.00000	0.0	0.0	0.0	0.0	d
					3.9298	66.90931	120.05921	0.00000	0.0	0.0	0.0	0.0	d
					4.4210	66.47489	120.28852	0.00000	0.0	0.0	0.0	0.0	d
					4.9123	66.04047	120.51782	0.00000	0.0	0.0	0.0	0.0	d
					5.4035	65.60604	120.74712	0.00000	0.0	0.0	0.0	0.0	d
					5.8947	65.17162	120.97642	0.00000	0.0	0.0	0.0	0.0	d
					6.3859	64.73720	121.20572	0.00000	0.0	0.0	0.0	0.0	d
					6.8772	64.30277	121.43502	0.00000	0.0	0.0	0.0	0.0	d
					7.3684	63.86835	121.66433	0.00000	0.0	0.0	0.0	0.0	d
					7.8596	63.43393	121.89363	0.00000	0.0	0.0	0.0	0.0	d
					8.3508	62.99950	122.12293	0.00000	0.0	0.0	0.0	0.0	d
					8.8421	62.56508	122.35223	0.00000	0.0	0.0	0.0	0.0	d
					9.3333	62.13066	122.58153	0.00000	0.0	0.0	0.0	0.0	d
					9.8245	61.69623	122.81083	0.00000	0.0	0.0	0.0	0.0	d
					10.316	61.26181	123.04014	0.00000	0.0	0.0	0.0	0.0	d
					10.807	60.82739	123.26944	0.00000	0.0	0.0	0.0	0.0	d
					11.298	60.39296	123.49874	0.00000	0.0	0.0	0.0	0.0	d
					11.789	59.95854	123.72804	0.00000	0.0	0.0	0.0	0.0	d
					12.281	59.52412	123.95734	0.00000	0.0	0.0	0.0	0.0	d
					12.772	59.08969	124.18664	0.00000	0.0	0.0	0.0	0.0	d
					13.263	58.65527	124.41595	0.00000	0.0	0.0	0.0	0.0	d
					13.754	58.22085	124.64525	0.00000	0.0	0.0	0.0	0.0	d
					14.246	57.78642	124.87455	0.00000	0.0	0.0	0.0	0.0	d
					14.737	57.35200	125.10385	0.00000	0.0	0.0	0.0	0.0	d
					15.228	56.91758	125.33315	0.00000	0.0	0.0	0.0	0.0	d
					15.719	56.48315	125.56245	0.00000	0.0	0.0	0.0	0.0	d
					16.210	56.04873	125.79175	0.00000	0.0	0.0	0.0	0.0	d
					16.702	55.61431	126.02106	0.00000	0.0	0.0	0.0	0.0	d
					17.193	55.17988	126.25036	0.00000	0.0	0.0	0.0	0.0	d
					17.684	54.74546	126.47966	0.00000	0.0	0.0	0.0	0.0	d
					18.175	54.31104	126.70896	0.00000	0.0	0.0	0.0	0.0	d
					18.667	53.87661	126.93826	0.00000	0.0	0.0	0.0	0.0	d
					19.158	53.44219	127.16756	0.00000	0.0	0.0	0.0	0.0	d
					19.649	53.00777	127.39687	0.00000	0.0	0.0	0.0	0.0	d
					20.140	52.57334	127.62617	0.00000	0.0	0.0	0.0	0.0	d
					20.631	52.13892	127.85547	0.00000	0.0	0.0	0.0	0.0	d
					21.123	51.70450	128.08477	0.00000	0.0	0.0	0.0	0.0	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					21.614	51.27007	128.31407	0.00000	0.0	0.0	0.0	0.0	d
					22.105	50.83565	128.54337	0.00000	0.0	0.0	0.0	0.0	d
					22.596	50.40123	128.77268	0.00000	0.0	0.0	0.0	0.0	d
					23.088	49.96680	129.00198	0.00000	0.0	0.0	0.0	0.0	d
					23.579	49.53238	129.23128	0.00000	0.0	0.0	0.0	0.0	d
					24.070	49.09796	129.46058	0.00000	0.0	0.0	0.0	0.0	d
					24.561	48.66353	129.68988	0.00000	0.0	0.0	0.0	0.0	d
					25.053	48.22911	129.91918	0.00000	0.0	0.0	0.0	0.0	d
					25.544	47.79469	130.14849	0.00000	0.0	0.0	0.0	0.0	d
					26.035	47.36026	130.37779	0.00000	0.0	0.0	0.0	0.0	d
					26.526	46.92584	130.60709	0.00000	0.0	0.0	0.0	0.0	d
					27.017	46.49142	130.83639	0.00000	0.0	0.0	0.0	0.0	d
					27.509	46.05699	131.06569	0.00000	0.0	0.0	0.0	0.0	d
					28.000	45.62257	131.29500	0.00000	0.0	0.0	0.0	0.0	d
					28.491	45.18815	131.52430	0.00000	0.0	0.0	0.0	0.0	d
					28.982	44.75372	131.75360	0.00000	0.0	0.0	0.0	0.0	d
					29.474	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	d
		33	SB-09	SB-09	0.0	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	d
					0.49663	44.54866	132.42340	0.00000	0.0	0.0	0.0	0.0	d
					0.99327	44.77801	132.86390	0.00000	0.0	0.0	0.0	0.0	d
					1.4899	45.00737	133.30440	0.00000	0.0	0.0	0.0	0.0	d
					1.9865	45.23672	133.74490	0.00000	0.0	0.0	0.0	0.0	d
					2.4832	45.46608	134.18540	0.00000	0.0	0.0	0.0	0.0	d
					2.9798	45.69544	134.62590	0.00000	0.0	0.0	0.0	0.0	d
					3.4764	45.92479	135.06640	0.00000	0.0	0.0	0.0	0.0	d
					3.9731	46.15415	135.50690	0.00000	0.0	0.0	0.0	0.0	d
					4.4697	46.38351	135.94740	0.00000	0.0	0.0	0.0	0.0	d
					4.9663	46.61286	136.38790	0.00000	0.0	0.0	0.0	0.0	d
					5.4630	46.84222	136.82840	0.00000	0.0	0.0	0.0	0.0	d
					5.9596	47.07158	137.26890	0.00000	0.0	0.0	0.0	0.0	d
					6.4562	47.30093	137.70940	0.00000	0.0	0.0	0.0	0.0	d
					6.9529	47.53029	138.14990	0.00000	0.0	0.0	0.0	0.0	d
					7.4495	47.75964	138.59040	0.00000	0.0	0.0	0.0	0.0	d
					7.9461	47.98900	139.03090	0.00000	0.0	0.0	0.0	0.0	d
					8.4428	48.21836	139.47140	0.00000	0.0	0.0	0.0	0.0	d
					8.9394	48.44771	139.91190	0.00000	0.0	0.0	0.0	0.0	d
					9.4360	48.67707	140.35240	0.00000	0.0	0.0	0.0	0.0	d
					9.9327	48.90642	140.79290	0.00000	0.0	0.0	0.0	0.0	d
					10.429	49.13578	141.23340	0.00000	0.0	0.0	0.0	0.0	d
					10.926	49.36514	141.67390	0.00000	0.0	0.0	0.0	0.0	d
					11.423	49.59449	142.11440	0.00000	0.0	0.0	0.0	0.0	d
					11.919	49.82385	142.55490	0.00000	0.0	0.0	0.0	0.0	d
					12.416	50.05321	142.99540	0.00000	0.0	0.0	0.0	0.0	d
					12.912	50.28256	143.43590	0.00000	0.0	0.0	0.0	0.0	d
					13.409	50.51192	143.87640	0.00000	0.0	0.0	0.0	0.0	d
					13.906	50.74128	144.31690	0.00000	0.0	0.0	0.0	0.0	d
					14.402	50.97063	144.75740	0.00000	0.0	0.0	0.0	0.0	d
					14.899	51.19999	145.19790	0.00000	0.0	0.0	0.0	0.0	d
					15.396	51.42934	145.63840	0.00000	0.0	0.0	0.0	0.0	d
					15.892	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0	d
		34	SB-10	SB-10	0.0	51.65870	146.07890	0.00000	0.0	0.0	0.0	0.0	d
					0.46146	52.05637	145.84480	0.00000	0.0	0.0	0.0	0.0	d
					0.92292	52.45404	145.61070	0.00000	0.0	0.0	0.0	0.0	d
					1.3844	52.85171	145.37660	0.00000	0.0	0.0	0.0	0.0	d
					1.8458	53.24938	145.14250	0.00000	0.0	0.0	0.0	0.0	d
					2.3073	53.64705	144.90840	0.00000	0.0	0.0	0.0	0.0	d
					2.7688	54.04472	144.67430	0.00000	0.0	0.0	0.0	0.0	d
					3.2302	54.44239	144.44020	0.00000	0.0	0.0	0.0	0.0	d
					3.6917	54.84006	144.20610	0.00000	0.0	0.0	0.0	0.0	d
					4.1531	55.23773	143.97200	0.00000	0.0	0.0	0.0	0.0	d
					4.6146	55.63540	143.73790	0.00000	0.0	0.0	0.0	0.0	d
					5.0760	56.03307	143.50380	0.00000	0.0	0.0	0.0	0.0	d
					5.5375	56.43074	143.26970	0.00000	0.0	0.0	0.0	0.0	d
					5.9990	56.82841	143.03560	0.00000	0.0	0.0	0.0	0.0	d
					6.4604	57.22608	142.80150	0.00000	0.0	0.0	0.0	0.0	d
					6.9219	57.62375	142.56740	0.00000	0.0	0.0	0.0	0.0	d
					7.3833	58.02142	142.33330	0.00000	0.0	0.0	0.0	0.0	d
					7.8448	58.41909	142.09920	0.00000	0.0	0.0	0.0	0.0	d
					8.3063	58.81676	141.86510	0.00000	0.0	0.0	0.0	0.0	d
					8.7677	59.21443	141.63100	0.00000	0.0	0.0	0.0	0.0	d
					9.2292	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0	d
		35	SB-11	SB-11	0.0	59.61210	141.39690	0.00000	0.0	0.0	0.0	0.0	d
					0.48552	60.04295	141.17306	0.00000	0.0	0.0	0.0	0.0	d
					0.97105	60.47379	140.94923	0.00000	0.0	0.0	0.0	0.0	d
					1.4566	60.90464	140.72539	0.00000	0.0	0.0	0.0	0.0	d
					1.9421	61.33549	140.50155	0.00000	0.0	0.0	0.0	0.0	d
					2.4276	61.76634	140.27772	0.00000	0.0	0.0	0.0	0.0	d
					2.9131	62.19718	140.05388	0.00000	0.0	0.0	0.0	0.0	d
					3.3987	62.62803	139.83004	0.00000	0.0	0.0	0.0	0.0	d
					3.8842	63.05888	139.60621	0.00000	0.0	0.0	0.0	0.0	d
					4.3697	63.48973	139.38237	0.00000	0.0	0.0	0.0	0.0	d
					4.8552	63.92057	139.15853	0.00000	0.0	0.0	0.0	0.0	d
					5.3408	64.35142	138.93469	0.00000	0.0	0.0	0.0	0.0	d
					5.8263	64.78227	138.71086	0.00000	0.0	0.0	0.0	0.0	d
					6.3118	65.21312	138.48702	0.00000	0.0	0.0	0.0	0.0	d
					6.7973	65.64396	138.26318	0.00000	0.0	0.0	0.0	0.0	d
					7.2828	66.07481	138.03935	0.00000	0.0	0.0	0.0	0.0	d
					7.7684	66.50566	137.81551	0.00000	0.0	0.0	0.0	0.0	d
					8.2539	66.93651	137.59167	0.00000	0.0	0.0	0.0	0.0	d
					8.7394	67.36735	137.36784	0.00000	0.0	0.0	0.0	0.0	d
					9.2249	67.79820	137.14400	0.00000	0.0	0.0	0.0	0.0	d
					9.7105	68.22905	136.92016	0.00000	0.0	0.0	0.0	0.0	d
					10.196	68.65989	136.69633	0.00000	0.0	0.0	0.0	0.0	d
					10.682	69.09074	136.47249	0.00000	0.0	0.0	0.0	0.0	d
					11.167	69.52159	136.24865	0.00000	0.0	0.0	0.0	0.0	d
					11.653	69.95244	136.02482	0.00000	0.0	0.0	0.0	0.0	d
					12.138	70.38328	135.80098	0.00000	0.0	0.0	0.0	0.0	d
					12.624	70.81413	135.57714	0.00000	0.0	0.0	0.0	0.0	d
					13.109	71.24498	135.35331	0.00000	0.0	0.0	0.0	0.0	d
					13.595	71.67583	135.12947	0.00000	0.0	0.0	0.0	0.0	d
					14.080	72.10667	134.90563	0.00000	0.0	0.0	0.0	0.0	d
					14.566	72.53752	134.68179	0.00000	0.0	0.0	0.0	0.0	d
					15.051	72.96837	134.45796	0.00000	0.0	0.0	0.0	0.0	d
					15.537	73.39922	134.23412	0.00000	0.0	0.0	0.0	0.0	d
					16.022	73.83006	134.01028	0.00000	0.0	0.0	0.0	0.0	d
					16.508	74.26091	133.78645	0.00000	0.0	0.0	0.0	0.0	d
					16.993	74.69176	133.56261	0.00000	0.0	0.0	0.0	0.0	d
					17.479	75.12261	133.33877	0.00000	0.0	0.0	0.0	0.0	d
					17.964	75.55345	133.11494	0.00000	0.0	0.0	0.0	0.0	d
					18.450	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0	d
		36	SB-12	SB-12	0.0	75.98430	132.89110	0.00000	0.0	0.0	0.0	0.0	d
					0.28634	76.21543	132.72207	0.00000	0.0	0.0	0.0	0.0	d
					0.57267	76.44655	132.55305	0.00000	0.0	0.0	0.0	0.0	d
					0.85901	76.67767	132.38403	0.00000	0.0	0.0	0.0	0.0	d
					1.1453	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0	d
		37	SB-13	SB-13	0.0	76.90880	132.21500	0.00000	0.0	0.0	0.0	0.0	d
					0.31767	76.76538	131.93155	0.00000	0.0	0.0	0.0	0.0	d
					0.63534	76.62195	131.64810	0.00000	0.0	0.0	0.0	0.0	d
					0.95301	76.47852	131.36465	0.00000	0.0	0.0	0.0	0.0	d
					1.2707	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0	d
		38	SB-14	SB-14	0.0	76.33510	131.08120	0.00000	0.0	0.0	0.0	0.0	d
					0.48921	76.75755	130.83449	0.00000	0.0	0.0	0.0	0.0	d
					0.97843	77.18000	130.58778	0.00000	0.0	0.0	0.0	0.0	d
					1.4676	77.60245	130.34107	0.00000	0.0	0.0	0.0	0.0	d
					1.9569	78.02490	130.09436	0.00000	0.0	0.0	0.0	0.0	d
					2.4461	78.44735	129.84765	0.00000	0.0	0.0	0.0	0.0	d
					2.9353	78.86980	129.60094	0.00000	0.0	0.0	0.0	0.0	d
					3.4245	79.29225	129.35423	0.00000	0.0	0.0	0.0	0.0	d
					3.9137	79.71470	129.10752	0.00000	0.0	0.0	0.0	0.0	d
					4.4029	80.13715	128.86081	0.00000	0.0	0.0	0.0	0.0	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					4.8921	80.55960	128.61410	0.00000	0.0	0.0	0.0	0.0	d
		39	HL-01	HL-01	0.0	50.98220	128.46600	0.00000	0.0	0.0	0.0	0.0	d
					0.48226	50.76237	128.03676	0.00000	0.0	0.0	0.0	0.0	d
					0.96452	50.54254	127.60752	0.00000	0.0	0.0	0.0	0.0	d
					1.4468	50.32271	127.17828	0.00000	0.0	0.0	0.0	0.0	d
					1.9290	50.10287	126.74904	0.00000	0.0	0.0	0.0	0.0	d
					2.4113	49.88304	126.31980	0.00000	0.0	0.0	0.0	0.0	d
					2.8936	49.66321	125.89056	0.00000	0.0	0.0	0.0	0.0	d
					3.3758	49.44338	125.46132	0.00000	0.0	0.0	0.0	0.0	d
					3.8581	49.22355	125.03208	0.00000	0.0	0.0	0.0	0.0	d
					4.3403	49.00372	124.60283	0.00000	0.0	0.0	0.0	0.0	d
					4.8226	48.78389	124.17359	0.00000	0.0	0.0	0.0	0.0	d
					5.3048	48.56406	123.74435	0.00000	0.0	0.0	0.0	0.0	d
					5.7871	48.34423	123.31511	0.00000	0.0	0.0	0.0	0.0	d
					6.2694	48.12439	122.88587	0.00000	0.0	0.0	0.0	0.0	d
					6.7516	47.90456	122.45663	0.00000	0.0	0.0	0.0	0.0	d
					7.2339	47.68473	122.02739	0.00000	0.0	0.0	0.0	0.0	d
					7.7161	47.46490	121.59815	0.00000	0.0	0.0	0.0	0.0	d
					8.1984	47.24507	121.16891	0.00000	0.010229	-0.022170	0.015069	0.019210	d
					8.6807	47.02524	120.73967	0.00000	0.030707	-0.061861	0.041063	0.055530	d
					9.1629	46.80541	120.31043	0.00000	0.053559	-0.10056	0.065093	0.093512	d
					9.6452	46.58557	119.88119	0.00000	0.078803	-0.13823	0.087114	0.13315	d
					10.127	46.36574	119.45195	0.00000	0.10644	-0.17482	0.10708	0.17443	d
					10.610	46.14591	119.02271	0.00000	0.13648	-0.21028	0.12495	0.21733	d
					11.092	45.92608	118.59347	0.00000	0.16889	-0.24457	0.14070	0.26181	d
					11.574	45.70625	118.16423	0.00000	0.20364	-0.27764	0.15428	0.30781	d
					12.056	45.48642	117.73498	0.00000	0.24070	-0.30943	0.16569	0.35528	d
					12.539	45.26659	117.30574	0.00000	0.27998	-0.33989	0.17490	0.40414	d
					13.021	45.04676	116.87650	0.00000	0.32141	-0.36899	0.18191	0.45427	d
					13.503	44.82693	116.44726	0.00000	0.36488	-0.39665	0.18672	0.50558	d
					13.985	44.60709	116.01802	0.00000	0.41026	-0.42284	0.18934	0.55791	d
					14.468	44.38726	115.58878	0.00000	0.45740	-0.44751	0.18981	0.61110	d
					14.950	44.16743	115.15954	0.00000	0.50611	-0.47060	0.18816	0.66498	d
					15.432	43.94760	114.73030	0.00000	0.55618	-0.49207	0.18444	0.71934	d
		40	HL-02	HL-02	0.0	43.94760	114.73030	0.00000	0.55618	-0.49207	-0.72310	0.16913	d
					0.46776	43.53589	114.95231	0.00000	0.50319	-0.43763	-0.65061	0.14637	d
					0.93551	43.12418	115.17432	0.00000	0.44759	-0.38310	-0.57579	0.12476	d
					1.4033	42.71246	115.39634	0.00000	0.38956	-0.32850	-0.49880	0.10424	d
					1.8710	42.30075	115.61835	0.00000	0.32930	-0.27381	-0.41980	0.084709	d
					2.3388	41.88904	115.84036	0.00000	0.26694	-0.21906	-0.33893	0.066113	d
					2.8065	41.47733	116.06238	0.00000	0.20263	-0.16424	-0.25631	0.048383	d
					3.2743	41.06561	116.28439	0.00000	0.13651	-0.10936	-0.17206	0.031464	d
					3.7421	40.65390	116.50640	0.00000	0.068694	-0.054427	-0.086296	0.015301	d
					4.2098	40.24219	116.72841	0.00000	0.0	0.0	0.0	0.0	d
					4.6776	39.83047	116.95042	0.00000	0.0	0.0	0.0	0.0	d
					5.1453	39.41876	117.17244	0.00000	0.0	0.0	0.0	0.0	d
					5.6131	39.00705	117.39445	0.00000	0.0	0.0	0.0	0.0	d
					6.0808	38.59534	117.61646	0.00000	0.0	0.0	0.0	0.0	d
					6.5486	38.18362	117.83848	0.00000	0.0	0.0	0.0	0.0	d
					7.0164	37.77191	118.06049	0.00000	0.0	0.0	0.0	0.0	d
					7.4841	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0	d
		41	HL-03	HL-03	0.0	37.36020	118.28250	0.00000	0.0	0.0	0.0	0.0	d
					0.48020	37.57767	118.71064	0.00000	0.0	0.0	0.0	0.0	d
					0.96041	37.79514	119.13877	0.00000	0.0	0.0	0.0	0.0	d
					1.4406	38.01262	119.56691	0.00000	0.0	0.0	0.0	0.0	d
					1.9208	38.23009	119.99505	0.00000	0.0	0.0	0.0	0.0	d
					2.4010	38.44756	120.42319	0.00000	0.0	0.0	0.0	0.0	d
					2.8812	38.66503	120.85133	0.00000	0.0	0.0	0.0	0.0	d
					3.3614	38.88250	121.27946	0.00000	0.0	0.0	0.0	0.0	d
					3.8416	39.09998	121.70760	0.00000	0.0	0.0	0.0	0.0	d
					4.3218	39.31745	122.13574	0.00000	0.0	0.0	0.0	0.0	d
					4.8020	39.53492	122.56387	0.00000	0.0	0.0	0.0	0.0	d
					5.2822	39.75239	122.99201	0.00000	0.0	0.0	0.0	0.0	d
					5.7624	39.96986	123.42015	0.00000	0.0	0.0	0.0	0.0	d
					6.2427	40.18733	123.84829	0.00000	0.0	0.0	0.0	0.0	d
					6.7229	40.40481	124.27643	0.00000	0.0	0.0	0.0	0.0	d
					7.2031	40.62228	124.70456	0.00000	0.0	0.0	0.0	0.0	d
					7.6833	40.83975	125.13270	0.00000	0.0	0.0	0.0	0.0	d
					8.1635	41.05722	125.56084	0.00000	0.0	0.0	0.0	0.0	d
					8.6437	41.27469	125.98897	0.00000	0.0	0.0	0.0	0.0	d
					9.1239	41.49217	126.41711	0.00000	0.0	0.0	0.0	0.0	d
					9.6041	41.70964	126.84525	0.00000	0.0	0.0	0.0	0.0	d
					10.084	41.92711	127.27339	0.00000	0.0	0.0	0.0	0.0	d
					10.564	42.14458	127.70153	0.00000	0.0	0.0	0.0	0.0	d
					11.045	42.36205	128.12966	0.00000	0.0	0.0	0.0	0.0	d
					11.525	42.57952	128.55780	0.00000	0.0	0.0	0.0	0.0	d
					12.005	42.79700	128.98594	0.00000	0.0	0.0	0.0	0.0	d
					12.485	43.01447	129.41407	0.00000	0.0	0.0	0.0	0.0	d
					12.966	43.23194	129.84221	0.00000	0.0	0.0	0.0	0.0	d
					13.446	43.44941	130.27035	0.00000	0.0	0.0	0.0	0.0	d
					13.926	43.66688	130.69849	0.00000	0.0	0.0	0.0	0.0	d
					14.406	43.88436	131.12662	0.00000	0.0	0.0	0.0	0.0	d
					14.886	44.10183	131.55476	0.00000	0.0	0.0	0.0	0.0	d
					15.367	44.31930	131.98290	0.00000	0.0	0.0	0.0	0.0	d
		42	CH-01	CH-01	0.0	43.98880	114.70780	0.00000	0.56138	-0.49754	0.72956	-0.17445	d
					0.48967	44.42074	114.47714	0.00000	0.61330	-0.55433	0.80212	-0.20008	d
					0.97934	44.85268	114.24649	0.00000	0.66182	-0.61100	0.87161	-0.22721	d
					1.4690	45.28462	114.01583	0.00000	0.74725	-0.71044	0.99381	-0.27470	d
					1.9587	45.71656	113.78517	0.00000	0.82967	-0.81322	1.1149	-0.32654	d
					2.4483	46.14850	113.55451	0.00000	0.90566	-0.91642	1.2306	-0.38177	d
					2.9380	46.58044	113.32386	0.00000	0.97471	-1.0202	1.3403	-0.44075	d
					3.4277	47.01237	113.09320	0.00000	1.0362	-1.1246	1.4438	-0.50391	d
					3.9173	47.44431	112.86254	0.00000	1.0894	-1.2298	1.5403	-0.57171	d
					4.4070	47.87625	112.63189	0.00000	1.1335	-1.3361	1.6292	-0.64464	d
					4.8967	48.30819	112.40123	0.00000	1.1675	-1.4434	1.7097	-0.72328	d
					5.3863	48.74013	112.17057	0.00000	1.1903	-1.5519	1.7810	-0.80825	d
					5.8760	49.17207	111.93991	0.00000	1.2006	-1.6617	1.8418	-0.90026	d
					6.3657	49.60401	111.70926	0.00000	1.1971	-1.7730	1.8911	-1.0001	d
					6.8553	50.03595	111.47860	0.00000	1.1780	-1.8857	1.9274	-1.1085	d
					7.3450	50.46789	111.24794	0.00000	1.1416	-2.0000	1.9491	-1.2265	d
					7.8347	50.89983	111.01729	0.00000	1.0857	-2.1158	1.9543	-1.3550	d
					8.3243	51.33177	110.78663	0.00000	1.0081	-2.2332	1.9412	-1.4951	d
					8.8140	51.76371	110.55597	0.00000	0.90639	-2.3521	1.9075	-1.6478	d
					9.3037	52.19565	110.32531	0.00000	0.77793	-2.4723	1.8508	-1.8143	d
					9.7934	52.62759	110.09466	0.00000	0.63416	-2.6410	1.8034	-2.0309	d
					10.283	53.05953	109.86400	0.00000	0.46518	-2.8334	1.7450	-2.2802	d
					10.773	53.49146	109.63334	0.00000	0.26459	-3.0355	1.6633	-2.5530	d
					11.262	53.92340	109.40269	0.00000	0.030606	-3.2470	1.5565	-2.8498	d
					11.752	54.35534	109.17203	0.00000	-0.23782	-3.4672	1.4234	-3.1704	d
					12.242	54.78728	108.94137	0.00000	-0.54059	-3.6945	1.2634	-3.5136	d
					12.731	55.21922	108.71071	0.00000	-0.87610	-3.9268	1.0769	-3.8766	d
					13.221	55.65116	108.48006	0.00000	-1.2408	-4.1611	0.86556	-4.2550	d
					13.711	56.08310	108.24940	0.00000	-1.6290	-4.3934	0.63255	-4.6428	d
		43	CH-02	CH-02	0.0	56.08310	108.24940	0.00000	-1.6290	-4.3934	4.6347	0.68905	d
					0.48553	55.84919	107.82393	0.00000	-1.6029	-4.5494	4.7589	0.78708	d
					0.97106	55.61528	107.39846	0.00000	-1.5483	-4.6950	4.8602	0.90512	d
					1.4566	55.38138	106.97298	0.00000	-1.4552	-4.8254	4.9296	1.0495	d
					1.9421	55.14747	106.54751	0.00000	-1.3094	-4.9337	4.9542	1.2294	d
					2.4276	54.91356	106.12204	0.00000	-1.0894	-5.0092	4.9144	1.4585	d
					2.9132	54.67965	105.69657	0.00000	-0.76238	-5.0356	4.7800	1.7578	d
					3.3987	54.44574	105.27110	0.00000	-0.27579	-4.9865	4.5025	2.1606	d
					3.8842	54.21184	104.84562	0.00000	0.45469	-4.8190	4.0039	2.7200	d
					4.3698	53.97793	104.42015	0.00000	1.5793	-4.5284	3.2074	3.5655	d
					4.8553	53.74402	103.99468	0.00000	3.3744	-4.3885	2.2200	5.0712	d
					5.3408	53.51011	103.56921	0.00000	5.8278	-4.1009	0.78608	7.0826	d
					5.8264	53.27620	103.14374	0.00000	7.2623	-3.9378	-0.047930	8.2611	d
					6.3119	53.04230	102.71826	0.00000	7.3696	-3.9960	-0.048638	8.3831	d
					6.7974	52.80839	102.29279	0.00000	7.4768	-4.0542	-0.049346	8.5051	d
					7.2829	52.57448	101.86732	0.00000	7.5841	-4.1123	-0.050054	8.6271	d
					7.7685	52.34057	101.44185	0.00000	7.6913	-4.1704	-0.050761	8.7490	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					8.2540	52.10666	101.01638	0.00000	7.7984	-4.2285	-0.051468	8.8709	d
					8.7395	51.87276	100.59090	0.00000	7.9056	-4.2866	-0.052175	8.9928	d
					9.2251	51.63885	100.16543	0.00000	8.0127	-4.3447	-0.052882	9.1146	d
					9.7106	51.40494	99.73996	0.00000	8.1197	-4.4028	-0.053589	9.2364	d
					10.196	51.17103	99.31449	0.00000	8.2268	-4.4608	-0.054295	9.3582	d
					10.682	50.93712	98.88902	0.00000	8.3338	-4.5188	-0.055001	9.4799	d
					11.167	50.70322	98.46354	0.00000	8.4407	-4.5768	-0.055707	9.6016	d
					11.653	50.46931	98.03807	0.00000	8.5477	-4.6348	-0.056413	9.7232	d
					12.138	50.23540	97.61260	0.00000	8.6546	-4.6928	-0.057119	9.8448	d
					12.624	50.00149	97.18713	0.00000	8.7614	-4.7507	-0.057824	9.9664	d
					13.109	49.76758	96.76166	0.00000	8.8683	-4.8086	-0.058529	10.088	d
					13.595	49.53368	96.33618	0.00000	8.9751	-4.8666	-0.059234	10.209	d
					14.080	49.29977	95.91071	0.00000	9.0819	-4.9245	-0.059939	10.331	d
					14.566	49.06586	95.48524	0.00000	9.1886	-4.9823	-0.060643	10.452	d
					15.051	48.83195	95.05977	0.00000	9.1139	-4.9418	-0.060150	10.367	d
					15.537	48.59804	94.63430	0.00000	9.0032	-4.8818	-0.059420	10.241	d
					16.022	48.36414	94.20882	0.00000	8.8926	-4.8218	-0.058690	10.116	d
					16.508	48.13023	93.78335	0.00000	8.7820	-4.7619	-0.057960	9.9898	d
					16.994	47.89632	93.35788	0.00000	8.6714	-4.7019	-0.057230	9.8640	d
					17.479	47.66241	92.93241	0.00000	8.5609	-4.6420	-0.056500	9.7382	d
					17.965	47.42850	92.50694	0.00000	8.4504	-4.5820	-0.055771	9.6125	d
					18.450	47.19460	92.08146	0.00000	8.3399	-4.5221	-0.055042	9.4868	d
					18.936	46.96069	91.65599	0.00000	8.2294	-4.4622	-0.054313	9.3612	d
					19.421	46.72678	91.23052	0.00000	8.1190	-4.4024	-0.053584	9.2356	d
					19.907	46.49287	90.80505	0.00000	8.0087	-4.3425	-0.052856	9.1101	d
					20.392	46.25896	90.37958	0.00000	7.8983	-4.2827	-0.052127	8.9845	d
					20.878	46.02506	89.95410	0.00000	7.7880	-4.2229	-0.051399	8.8591	d
					21.363	45.79115	89.52863	0.00000	7.6777	-4.1631	-0.050672	8.7336	d
					21.849	45.55724	89.10316	0.00000	7.5675	-4.1033	-0.049944	8.6082	d
					22.334	45.32333	88.67769	0.00000	7.4573	-4.0436	-0.049217	8.4828	d
					22.820	45.08942	88.25222	0.00000	7.3471	-3.9838	-0.048489	8.3575	d
					23.305	44.85552	87.82674	0.00000	7.2369	-3.9241	-0.047762	8.2322	d
					23.791	44.62161	87.40127	0.00000	6.9600	-3.4761	-0.30691	7.7737	d
					24.276	44.38770	86.97580	0.00000	5.8986	-1.2899	-1.7113	5.7904	d
	44	CH-03	CH-03		0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	-5.7430	-1.8642	d
					0.48596	43.96821	87.22111	0.00000	5.9739	-1.8808	-6.1063	-1.3921	d
					0.97191	43.54871	87.46643	0.00000	5.9205	-2.1910	-6.2167	-1.0974	d
					1.4579	43.12922	87.71174	0.00000	5.8016	-2.3534	-6.1961	-0.89712	d
					1.9438	42.70973	87.95705	0.00000	5.6467	-2.4304	-6.1013	-0.75251	d
					2.4298	42.29023	88.20237	0.00000	5.4711	-2.4543	-5.9618	-0.64325	d
					2.9157	41.87074	88.44768	0.00000	5.2834	-2.4435	-5.7943	-0.55778	d
					3.4017	41.45125	88.69300	0.00000	5.0886	-2.4092	-5.6089	-0.48905	d
					3.8876	41.03175	88.93831	0.00000	4.8900	-2.3585	-5.4118	-0.43255	d
					4.3736	40.61226	89.18362	0.00000	4.6896	-2.2962	-5.2073	-0.38523	d
					4.8596	40.19277	89.42894	0.00000	4.4888	-2.2253	-4.9982	-0.34498	d
					5.3455	39.77327	89.67425	0.00000	4.2883	-2.1483	-4.7863	-0.31029	d
					5.8315	39.35378	89.91956	0.00000	4.0890	-2.0668	-4.5731	-0.28004	d
					6.3174	38.93429	90.16488	0.00000	3.8910	-1.9819	-4.3593	-0.25339	d
					6.8034	38.51480	90.41019	0.00000	3.6947	-1.8945	-4.1458	-0.22971	d
					7.2893	38.09530	90.65550	0.00000	3.5002	-1.8053	-3.9328	-0.20848	d
					7.7753	37.67581	90.90082	0.00000	3.3074	-1.7148	-3.7207	-0.18932	d
					8.2613	37.25632	91.14613	0.00000	3.1165	-1.6233	-3.5097	-0.17191	d
					8.7472	36.83682	91.39145	0.00000	2.9272	-1.5311	-3.2998	-0.15598	d
					9.2332	36.41733	91.63676	0.00000	2.7396	-1.4383	-3.0910	-0.14134	d
					9.7191	35.99784	91.88207	0.00000	2.5534	-1.3452	-2.8833	-0.12779	d
					10.205	35.57834	92.12739	0.00000	2.3686	-1.2517	-2.6765	-0.11520	d
					10.691	35.15885	92.37270	0.00000	2.1850	-1.1579	-2.4707	-0.10344	d
					11.177	34.73936	92.61801	0.00000	2.0023	-1.0639	-2.2655	-0.092407	d
					11.663	34.31986	92.86333	0.00000	1.8205	-0.96958	-2.0609	-0.082007	d
					12.149	33.90037	93.10864	0.00000	1.6392	-0.87498	-1.8567	-0.072164	d
					12.635	33.48088	93.35395	0.00000	1.4583	-0.78003	-1.6526	-0.062810	d
					13.121	33.06138	93.59927	0.00000	1.2776	-0.68468	-1.4485	-0.053886	d
					13.607	32.64189	93.84458	0.00000	1.0964	-0.58864	-1.2436	-0.045323	d
					14.093	32.22240	94.08990	0.00000	0.99036	-0.53251	-1.1237	-0.040260	d
					14.579	31.80290	94.33521	0.00000	0.88415	-0.47606	-1.0036	-0.035373	d
					15.065	31.38341	94.58052	0.00000	0.77777	-0.41933	-0.88308	-0.030646	d
					15.551	30.96392	94.82584	0.00000	0.67123	-0.36233	-0.76234	-0.026066	d
					16.037	30.54442	95.07115	0.00000	0.56454	-0.30509	-0.64135	-0.021619	d
					16.523	30.12493	95.31646	0.00000	0.45772	-0.24763	-0.52013	-0.017296	d
					17.008	29.70544	95.56178	0.00000	0.35078	-0.18997	-0.39870	-0.013086	d
					17.494	29.28595	95.80709	0.00000	0.24372	-0.13212	-0.27708	-0.0089811	d
					17.980	28.86645	96.05240	0.00000	0.13659	-0.074065	-0.15530	-0.0050171	d
					18.466	28.44696	96.29772	0.00000	0.029313	-0.015895	-0.033328	-0.0010769	d
					18.952	28.02747	96.54303	0.00000	0.0	0.0	0.0	0.0	d
					19.438	27.60797	96.78835	0.00000	0.0	0.0	0.0	0.0	d
					19.924	27.18848	97.03366	0.00000	0.0	0.0	0.0	0.0	d
					20.410	26.76899	97.27897	0.00000	0.0	0.0	0.0	0.0	d
					20.896	26.34949	97.52429	0.00000	0.0	0.0	0.0	0.0	d
					21.382	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0	d
	45	CH-04	CH-04		0.0	25.93000	97.76960	0.00000	0.0	0.0	0.0	0.0	d
					0.48923	26.16813	98.19696	0.00000	0.0	0.0	0.0	0.0	d
					0.97845	26.40627	98.62432	0.00000	0.0	0.0	0.0	0.0	d
					1.4677	26.64440	99.05168	0.00000	0.0	0.0	0.0	0.0	d
					1.9569	26.88253	99.47903	0.00000	0.0	0.0	0.0	0.0	d
					2.4461	27.12067	99.90639	0.00000	0.0	0.0	0.0	0.0	d
					2.9354	27.35880	100.33375	0.00000	0.0	0.0	0.0	0.0	d
					3.4246	27.59693	100.76111	0.00000	0.0	0.0	0.0	0.0	d
					3.9138	27.83507	101.18847	0.00000	0.0	0.0	0.0	0.0	d
					4.4030	28.07320	101.61583	0.00000	0.0	0.0	0.0	0.0	d
					4.8923	28.31133	102.04318	0.00000	0.0	0.0	0.0	0.0	d
					5.3815	28.54947	102.47054	0.00000	0.0	0.0	0.0	0.0	d
					5.8707	28.78760	102.89790	0.00000	0.0	0.0	0.0	0.0	d
					6.3599	29.02573	103.32526	0.00000	0.0	0.0	0.0	0.0	d
					6.8492	29.26387	103.75262	0.00000	0.0	0.0	0.0	0.0	d
					7.3384	29.50200	104.17997	0.00000	0.0	0.0	0.0	0.0	d
					7.8276	29.74013	104.60733	0.00000	0.0	0.0	0.0	0.0	d
					8.3169	29.97827	105.03469	0.00000	0.0	0.0	0.0	0.0	d
					8.8061	30.21640	105.46205	0.00000	0.0	0.0	0.0	0.0	d
					9.2953	30.45453	105.88941	0.00000	0.0	0.0	0.0	0.0	d
					9.7845	30.69267	106.31677	0.00000	0.0	0.0	0.0	0.0	d
					10.274	30.93080	106.74412	0.00000	0.0	0.0	0.0	0.0	d
					10.763	31.16893	107.17148	0.00000	0.0	0.0	0.0	0.0	d
					11.252	31.40707	107.59884	0.00000	0.0	0.0	0.0	0.0	d
					11.741	31.64520	108.02620	0.00000	0.0	0.0	0.0	0.0	d
					12.231	31.88333	108.45356	0.00000	0.0	0.0	0.0	0.0	d
					12.720	32.12147	108.88092	0.00000	0.0	0.0	0.0	0.0	d
					13.209	32.35960	109.30827	0.00000	0.0	0.0	0.0	0.0	d
					13.698	32.59773	109.73563	0.00000	0.0	0.0	0.0	0.0	d
					14.188	32.83587	110.16299	0.00000	0.0	0.0	0.0	0.0	d
					14.677	33.07400	110.59035	0.00000	0.0	0.0	0.0	0.0	d
					15.166	33.31213	111.01771	0.00000	0.0	0.0	0.0	0.0	d
					15.655	33.55027	111.44507	0.00000	0.0	0.0	0.0	0.0	d
					16.144	33.78840	111.87242	0.00000	0.0	0.0	0.0	0.0	d
					16.634	34.02653	112.29978	0.00000	0.0	0.0	0.0	0.0	d
					17.123	34.26467	112.72714	0.00000	0.0	0.0	0.0	0.0	d
					17.612	34.50280	113.15450	0.00000	0.0	0.0	0.0	0.0	d
					18.101	34.74093	113.58186	0.00000	0.0	0.0	0.0	0.0	d
					18.591	34.97907	114.00922	0.00000	0.0	0.0	0.0	0.0	d
					19.080	35.21720	114.43657	0.00000	0.0	0.0	0.0	0.0	d
					19.569	35.45533	114.86393	0.00000	0.0	0.0	0.0	0.0	d
					20.058	35.69347	115.29129	0.00000	0.0	0.0	0.0	0.0	d
					20.548	35.93160	115.71865	0.00000	0.0	0.0	0.0	0.0	d
					21.037	36.16973	116.14601	0.00000	0.0	0.0	0.0	0.0	d
					21.526	36.40787	116.57337	0.00000	0.0	0.0	0.0	0.0	d
					22.015	36.64600	117.00072	0.00000	0.0	0.0	0.0	0.0	d
					22.504	36.88413	117.42808	0.00000	0.0	0.0	0.0	0.0	d
					22.994	37.12227	117.85544	0.00000	0.0	0.0	0.0	0.0	d
					23.483	37.36040	118.28280	0.00000	0.0	0.0	0.0	0.0	d
	46	CH-05	CH-05		0.0	44.38770	86.97580	0.00000	5.8986	-1.2899	-5.3932	2.7148	d
					0.43282	43.96845	86.86828	0.00000	5.4594	-0.73469	-5.1058	2.0679	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					0.86564	43.54920	86.76075	0.00000	5.1174	-0.39034	-4.8600	1.6494	d
					1.2985	43.12995	86.65323	0.00000	4.8311	-0.16291	-4.6392	1.3580	d
					1.7313	42.71070	86.54570	0.00000	4.5803	-0.0063192	-4.4352	1.1440	d
					2.1641	42.29145	86.43818	0.00000	4.3540	0.10444	-4.2434	0.98048	d
					2.5969	41.87220	86.33065	0.00000	4.1454	0.18403	-4.0612	0.85158	d
					3.0297	41.45295	86.22312	0.00000	3.9505	0.24157	-3.8867	0.74742	d
					3.4626	41.03370	86.11560	0.00000	3.7665	0.28302	-3.7187	0.66156	d
		47	CH-06	CH-06	0.0	41.03370	86.11560	0.00000	3.7665	0.28302	-3.1083	-2.1460	d
					0.48042	40.61901	86.35816	0.00000	3.7571	0.0036583	-3.2412	-1.9001	d
					0.96085	40.20431	86.60072	0.00000	3.7193	-0.22004	-3.3215	-1.6879	d
					1.4413	39.78962	86.84328	0.00000	3.6587	-0.39768	-3.3589	-1.5040	d
					1.9217	39.37493	87.08584	0.00000	3.5799	-0.53721	-3.3613	-1.3437	d
					2.4021	38.96024	87.32840	0.00000	3.4864	-0.64518	-3.3352	-1.2034	d
					2.8825	38.54554	87.57096	0.00000	3.3812	-0.72689	-3.2856	-1.0797	d
					3.3630	38.13085	87.81352	0.00000	3.2666	-0.78669	-3.2169	-0.97022	d
					3.8434	37.71616	88.05609	0.00000	3.1444	-0.82812	-3.1323	-0.87276	d
					4.3238	37.30146	88.29865	0.00000	3.0160	-0.85404	-3.0346	-0.78557	d
					4.8042	36.88677	88.54121	0.00000	2.8827	-0.86684	-2.9260	-0.70721	d
					5.2846	36.47208	88.78377	0.00000	2.7453	-0.86845	-2.8082	-0.63645	d
					5.7651	36.05739	89.02633	0.00000	2.6046	-0.86048	-2.6827	-0.57228	d
					6.2455	35.64269	89.26889	0.00000	2.4611	-0.84426	-2.5506	-0.51383	d
					6.7259	35.22800	89.51145	0.00000	2.3153	-0.82088	-2.4130	-0.46039	d
					7.2063	34.81331	89.75401	0.00000	2.1675	-0.79127	-2.2704	-0.41133	d
					7.6868	34.39861	89.99657	0.00000	2.0179	-0.75618	-2.1236	-0.36612	d
					8.1672	33.98392	90.23913	0.00000	1.8669	-0.71625	-1.9731	-0.32430	d
					8.6476	33.56923	90.48169	0.00000	1.7143	-0.67202	-1.8191	-0.28548	d
					9.1280	33.15454	90.72425	0.00000	1.5605	-0.62391	-1.6620	-0.24931	d
					9.6085	32.73984	90.96681	0.00000	1.4052	-0.57229	-1.5019	-0.21550	d
					10.089	32.32515	91.20938	0.00000	1.2487	-0.51747	-1.3391	-0.18378	d
					10.569	31.91046	91.45194	0.00000	1.0907	-0.45968	-1.1736	-0.15391	d
					11.050	31.49576	91.69450	0.00000	0.96044	-0.41064	-1.0364	-0.13046	d
					11.530	31.08107	91.93706	0.00000	0.86916	-0.37557	-0.93986	-0.11464	d
					12.011	30.66638	92.17962	0.00000	0.77690	-0.33902	-0.84178	-0.099615	d
					12.491	30.25169	92.42218	0.00000	0.68376	-0.30111	-0.74224	-0.085315	d
					12.971	29.83699	92.66474	0.00000	0.58980	-0.26194	-0.64136	-0.071683	d
					13.452	29.42230	92.90730	0.00000	0.49510	-0.22163	-0.53926	-0.058665	d
		48	CH-07	CH-07	0.0	29.42230	92.90730	0.00000	0.49510	-0.22163	-0.092640	0.53447	d
					0.48449	29.15173	92.50539	0.00000	0.46323	-0.19833	-0.094169	0.49502	d
					0.96899	28.88117	92.10349	0.00000	0.42978	-0.17548	-0.094441	0.45452	d
					1.4535	28.61060	91.70158	0.00000	0.39491	-0.15329	-0.093381	0.41320	d
					1.9380	28.34003	91.29968	0.00000	0.35877	-0.13192	-0.090923	0.37129	d
					2.4225	28.06947	90.89777	0.00000	0.32152	-0.11156	-0.087008	0.32901	d
					2.9070	27.79890	90.49587	0.00000	0.28327	-0.092344	-0.081590	0.28655	d
					3.3915	27.52833	90.09396	0.00000	0.24417	-0.074415	-0.074625	0.24410	d
					3.8760	27.25777	89.69206	0.00000	0.20433	-0.057893	-0.066082	0.20183	d
					4.3604	26.98720	89.29015	0.00000	0.16386	-0.042884	-0.055937	0.15988	d
					4.8449	26.71663	88.88824	0.00000	0.12288	-0.029479	-0.044170	0.11840	d
					5.3294	26.44607	88.48634	0.00000	0.081480	-0.017757	-0.030772	0.077507	d
					5.8139	26.17550	88.08443	0.00000	0.039743	-0.0077833	-0.015738	0.037315	d
					6.2984	25.90493	87.68253	0.00000	0.0	0.0	0.0	0.0	d
					6.7829	25.63437	87.28062	0.00000	0.0	0.0	0.0	0.0	d
					7.2674	25.36380	86.87872	0.00000	0.0	0.0	0.0	0.0	d
					7.7519	25.09323	86.47681	0.00000	0.0	0.0	0.0	0.0	d
					8.2364	24.82267	86.07491	0.00000	0.0	0.0	0.0	0.0	d
					8.7209	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0	d
		49	CH-08	CH-08	0.0	24.55210	85.67300	0.00000	0.0	0.0	0.0	0.0	d
					0.22375	24.36080	85.78905	0.00000	0.0	0.0	0.0	0.0	d
					0.44750	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0	d
		50	CH-09	CH-09	0.0	24.16950	85.90510	0.00000	0.0	0.0	0.0	0.0	d
					0.41343	23.93042	85.56789	0.00000	0.0	0.0	0.0	0.0	d
					0.82687	23.69135	85.23050	0.00000	0.0	0.0	0.0	0.0	d
					1.2403	23.45228	84.89320	0.00000	0.0	0.0	0.0	0.0	d
					1.6537	23.21320	84.55590	0.00000	0.0	0.0	0.0	0.0	d
					2.0672	22.97413	84.21860	0.00000	0.0	0.0	0.0	0.0	d
					2.4806	22.73505	83.88130	0.00000	0.0	0.0	0.0	0.0	d
					2.8940	22.49598	83.54400	0.00000	0.0	0.0	0.0	0.0	d
					3.3075	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0	d
		51	CH-10	CH-10	0.0	22.25690	83.20670	0.00000	0.0	0.0	0.0	0.0	d
					0.49151	21.84234	83.47075	0.00000	0.0	0.0	0.0	0.0	d
					0.98302	21.42778	83.73480	0.00000	0.0	0.0	0.0	0.0	d
					1.4745	21.01322	83.99885	0.00000	0.0	0.0	0.0	0.0	d
					1.9660	20.59866	84.26290	0.00000	0.0	0.0	0.0	0.0	d
					2.4576	20.18410	84.52695	0.00000	0.0	0.0	0.0	0.0	d
					2.9491	19.76954	84.79100	0.00000	0.0	0.0	0.0	0.0	d
					3.4406	19.35498	85.05505	0.00000	0.0	0.0	0.0	0.0	d
					3.9321	18.94042	85.31910	0.00000	0.0	0.0	0.0	0.0	d
					4.4236	18.52586	85.58315	0.00000	0.0	0.0	0.0	0.0	d
					4.9151	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0	d
		52	CH-11	CH-11	0.0	18.11130	85.84720	0.00000	0.0	0.0	0.0	0.0	d
					0.47528	18.37194	86.24464	0.00000	0.0	0.0	0.0	0.0	d
					0.95057	18.63258	86.64209	0.00000	0.0	0.0	0.0	0.0	d
					1.4259	18.89322	87.03953	0.00000	0.0	0.0	0.0	0.0	d
					1.9011	19.15386	87.43697	0.00000	0.0	0.0	0.0	0.0	d
					2.3764	19.41450	87.83442	0.00000	0.0	0.0	0.0	0.0	d
					2.8517	19.67514	88.23186	0.00000	0.0	0.0	0.0	0.0	d
					3.3270	19.93578	88.62930	0.00000	0.0	0.0	0.0	0.0	d
					3.8023	20.19642	89.02675	0.00000	0.0	0.0	0.0	0.0	d
					4.2776	20.45706	89.42419	0.00000	0.0	0.0	0.0	0.0	d
					4.7528	20.71770	89.82163	0.00000	0.0	0.0	0.0	0.0	d
					5.2281	20.97834	90.21908	0.00000	0.0	0.0	0.0	0.0	d
					5.7034	21.23898	90.61652	0.00000	0.0	0.0	0.0	0.0	d
					6.1787	21.49962	91.01396	0.00000	0.0	0.0	0.0	0.0	d
					6.6540	21.76026	91.41141	0.00000	0.0	0.0	0.0	0.0	d
					7.1293	22.02090	91.80885	0.00000	0.0	0.0	0.0	0.0	d
					7.6045	22.28154	92.20629	0.00000	0.0	0.0	0.0	0.0	d
					8.0798	22.54218	92.60374	0.00000	0.0	0.0	0.0	0.0	d
					8.5551	22.80282	93.00118	0.00000	0.0	0.0	0.0	0.0	d
					9.0304	23.06346	93.39862	0.00000	0.0	0.0	0.0	0.0	d
					9.5057	23.32410	93.79607	0.00000	0.0	0.0	0.0	0.0	d
					9.9810	23.58474	94.19351	0.00000	0.0	0.0	0.0	0.0	d
					10.456	23.84538	94.59095	0.00000	0.0	0.0	0.0	0.0	d
					10.932	24.10602	94.98840	0.00000	0.0	0.0	0.0	0.0	d
					11.407	24.36666	95.38584	0.00000	0.0	0.0	0.0	0.0	d
					11.882	24.62730	95.78328	0.00000	0.0	0.0	0.0	0.0	d
					12.357	24.88794	96.18073	0.00000	0.0	0.0	0.0	0.0	d
					12.833	25.14858	96.57817	0.00000	0.0	0.0	0.0	0.0	d
					13.308	25.40922	96.97561	0.00000	0.0	0.0	0.0	0.0	d
					13.783	25.66986	97.37306	0.00000	0.0	0.0	0.0	0.0	d
					14.259	25.93050	97.77050	0.00000	0.0	0.0	0.0	0.0	d
		53	10S-01	10S-01	0.0	60.26430	42.08760	0.00000	0.59562	2.0766	-2.1453	-0.25406	d
					0.46042	60.08619	41.66303	0.00000	0.53428	1.8627	-1.9244	-0.22790	d
					0.92083	59.90809	41.23846	0.00000	0.47326	1.6500	-1.7046	-0.20187	d
					1.3812	59.72998	40.81389	0.00000	0.41250	1.4382	-1.4858	-0.17596	d
					1.8417	59.55187	40.38931	0.00000	0.37252	1.2988	-1.3418	-0.15890	d
					2.3021	59.37376	39.96474	0.00000	0.33435	1.1657	-1.2043	-0.14262	d
					2.7625	59.19566	39.54017	0.00000	0.29636	1.0333	-1.0675	-0.12641	d
					3.2229	59.01755	39.11560	0.00000	0.25857	0.90148	-0.93132	-0.11029	d
					3.6833	58.83944	38.69103	0.00000	0.22096	0.77036	-0.79586	-0.094250	d
					4.1437	58.66134	38.26646	0.00000	0.18354	0.63989	-0.66107	-0.078288	d
					4.6042	58.48323	37.84189	0.00000	0.14630	0.51008	-0.52696	-0.062406	d
					5.0646	58.30512	37.41731	0.00000	0.10926	0.38092	-0.39353	-0.046604	d
					5.5250	58.12701	36.99274	0.00000	0.072399	0.25242	-0.26077	-0.030882	d
					5.9854	57.94891	36.56817	0.00000	0.035729	0.12457	-0.12869	-0.015240	d
					6.4458	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0	d
		54	10S-02	10S-02	0.0	57.77080	36.14360	0.00000	0.0	0.0	0.0	0.0	d
					0.38404	57.41346	36.28429	0.00000	0.0021292	0.0074234	738.30E-6	-0.0076873	d
					0.76807	57.05613	36.42498	0.00000	0.0049053	0.017102	0.0017009	-0.017710	d
					1.1521	56.69879	36.56566	0.00000	0.0075969	0.026408	0.0026057	-0.027355	d
					1.5361	56.34145	36.70635	0.00000	0.010313	0.034323	0.0029783	-0.035715	d
					1.9202	55.98411	36.84704	0.00000	0.012571	0.040065	0.0029808	-0.041885	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					2.3042	55.62678	36.98772	0.00000	0.014325	0.043730	0.0026907	-0.045938	d
					2.6882	55.26944	37.12841	0.00000	0.015531	0.045417	0.0021868	-0.047950	d
					3.0723	54.91210	37.26910	0.00000	0.016143	0.045229	0.0015482	-0.047999	d
		55	10S-03	10S-03	0.0	54.91210	37.26910	0.00000	0.016143	0.045229	-0.047855	-0.0040266	d
					0.34208	54.77050	36.95770	0.00000	0.0	0.0	0.0	0.0	d
					0.68417	54.62890	36.64630	0.00000	0.0	0.0	0.0	0.0	d
					1.0262	54.48730	36.33490	0.00000	0.0	0.0	0.0	0.0	d
					1.3683	54.34570	36.02350	0.00000	0.0	0.0	0.0	0.0	d
					1.7104	54.20410	35.71210	0.00000	0.0	0.0	0.0	0.0	d
					2.0525	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0	d
		56	10S-04	10S-04	0.0	54.06250	35.40070	0.00000	0.0	0.0	0.0	0.0	d
					0.33357	54.36875	35.26848	0.00000	0.0	0.0	0.0	0.0	d
					0.66714	54.67500	35.13627	0.00000	0.0	0.0	0.0	0.0	d
					1.0007	54.98125	35.00405	0.00000	0.0	0.0	0.0	0.0	d
					1.3343	55.28750	34.87183	0.00000	0.0	0.0	0.0	0.0	d
					1.6679	55.59375	34.73962	0.00000	0.0	0.0	0.0	0.0	d
					2.0014	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	d
		57	10S-05	10S-05	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	d
					0.46683	55.71496	34.17881	0.00000	0.0	0.0	0.0	0.0	d
					0.93366	55.52993	33.75021	0.00000	0.0	0.0	0.0	0.0	d
					1.4005	55.34489	33.32162	0.00000	0.0	0.0	0.0	0.0	d
					1.8673	55.15986	32.89303	0.00000	0.0	0.0	0.0	0.0	d
					2.3341	54.97482	32.46444	0.00000	0.0	0.0	0.0	0.0	d
					2.8010	54.78979	32.03584	0.00000	0.0	0.0	0.0	0.0	d
					3.2678	54.60475	31.60725	0.00000	0.0	0.0	0.0	0.0	d
					3.7346	54.41971	31.17866	0.00000	0.0	0.0	0.0	0.0	d
					4.2015	54.23468	30.75006	0.00000	0.0	0.0	0.0	0.0	d
					4.6683	54.04964	30.32147	0.00000	0.0	0.0	0.0	0.0	d
					5.1351	53.86461	29.89288	0.00000	0.0	0.0	0.0	0.0	d
					5.6020	53.67957	29.46429	0.00000	0.0	0.0	0.0	0.0	d
					6.0688	53.49454	29.03569	0.00000	0.0	0.0	0.0	0.0	d
					6.5356	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	d
		58	10S-06	10S-06	0.0	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	d
					0.44988	52.88902	28.76706	0.00000	0.0	0.0	0.0	0.0	d
					0.89976	52.46854	28.92701	0.00000	0.0	0.0	0.0	0.0	d
					1.3496	52.04806	29.08697	0.00000	0.0	0.0	0.0	0.0	d
					1.7995	51.62758	29.24692	0.00000	0.0	0.0	0.0	0.0	d
					2.2494	51.20709	29.40688	0.00000	0.0	0.0	0.0	0.0	d
					2.6993	50.78661	29.56684	0.00000	0.0	0.0	0.0	0.0	d
					3.1491	50.36613	29.72679	0.00000	0.0	0.0	0.0	0.0	d
					3.5990	49.94565	29.88675	0.00000	0.0	0.0	0.0	0.0	d
					4.0489	49.52517	30.04671	0.00000	0.0	0.0	0.0	0.0	d
					4.4988	49.10469	30.20666	0.00000	0.0	0.0	0.0	0.0	d
					4.9487	48.68421	30.36662	0.00000	0.0	0.0	0.0	0.0	d
					5.3985	48.26373	30.52658	0.00000	0.0	0.0	0.0	0.0	d
					5.8484	47.84324	30.68653	0.00000	0.0	0.0	0.0	0.0	d
					6.2983	47.42276	30.84649	0.00000	0.0	0.0	0.0	0.0	d
					6.7482	47.00228	31.00644	0.00000	0.0	0.0	0.0	0.0	d
					7.1981	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0	d
		59	10S-07	10S-07	0.0	46.58180	31.16640	0.00000	0.0	0.0	0.0	0.0	d
					0.47216	46.77181	31.59864	0.00000	0.0	0.0	0.0	0.0	d
					0.94432	46.96181	32.03089	0.00000	0.0	0.0	0.0	0.0	d
					1.4165	47.15182	32.46313	0.00000	0.0	0.0	0.0	0.0	d
					1.8886	47.34183	32.89538	0.00000	0.0	0.0	0.0	0.0	d
					2.3608	47.53183	33.32762	0.00000	0.0	0.0	0.0	0.0	d
					2.8330	47.72184	33.75986	0.00000	0.0	0.0	0.0	0.0	d
					3.3051	47.91184	34.19211	0.00000	0.0	0.0	0.0	0.0	d
					3.7773	48.10185	34.62435	0.00000	0.0	0.0	0.0	0.0	d
					4.2495	48.29186	35.05659	0.00000	0.0	0.0	0.0	0.0	d
					4.7216	48.48186	35.48884	0.00000	0.0	0.0	0.0	0.0	d
					5.1938	48.67187	35.92108	0.00000	0.0	0.0	0.0	0.0	d
					5.6659	48.86187	36.35332	0.00000	0.0	0.0	0.0	0.0	d
					6.1381	49.05188	36.78557	0.00000	0.0	0.0	0.0	0.0	d
					6.6103	49.24189	37.21781	0.00000	0.0	0.0	0.0	0.0	d
					7.0824	49.43189	37.65006	0.00000	0.0	0.0	0.0	0.0	d
					7.5546	49.62190	38.08230	0.00000	0.0	0.0	0.0	0.0	d
					8.0268	49.81191	38.51454	0.00000	0.0	0.0	0.0	0.0	d
					8.4989	50.00191	38.94679	0.00000	0.0	0.0	0.0	0.0	d
					8.9711	50.19192	39.37903	0.00000	0.0	0.0	0.0	0.0	d
					9.4432	50.38193	39.81127	0.00000	0.022707	0.035521	0.041656	-0.0064932	d
					9.9154	50.57193	40.24352	0.00000	0.074565	0.11519	0.13546	-0.021908	d
					10.388	50.76194	40.67576	0.00000	0.12690	0.19346	0.22817	-0.038318	d
					10.860	50.95194	41.10801	0.00000	0.17973	0.27022	0.31971	-0.055795	d
					11.332	51.14195	41.54025	0.00000	0.23312	0.34538	0.40999	-0.074419	d
					11.804	51.33196	41.97249	0.00000	0.28708	0.41880	0.49892	-0.094277	d
					12.276	51.52196	42.40474	0.00000	0.34168	0.49036	0.58640	-0.11546	d
					12.748	51.71197	42.83698	0.00000	0.39696	0.55989	0.67230	-0.13809	d
					13.221	51.90198	43.26922	0.00000	0.45297	0.62724	0.75650	-0.16226	d
					13.693	52.09198	43.70147	0.00000	0.50978	0.69223	0.83885	-0.18812	d
					14.165	52.28199	44.13371	0.00000	0.56746	0.75464	0.91920	-0.21580	d
					14.637	52.47199	44.56596	0.00000	0.64741	0.84015	1.0296	-0.25458	d
					15.109	52.66200	44.99820	0.00000	0.74914	0.94610	1.1676	-0.30508	d
		60	10S-08	10S-08	0.0	52.66200	44.99820	0.00000	0.74914	0.94610	0.36135	1.1514	d
					0.45225	53.08435	44.83650	0.00000	0.76217	1.0323	0.34269	1.2366	d
					0.90449	53.50670	44.67480	0.00000	0.77032	1.1193	0.31920	1.3207	d
					1.3567	53.92905	44.51310	0.00000	0.77372	1.2065	0.29119	1.4034	d
					1.8090	54.35140	44.35140	0.00000	0.77253	1.2934	0.25901	1.4841	d
					2.2612	54.77375	44.18970	0.00000	0.76695	1.3794	0.22305	1.5624	d
					2.7135	55.19610	44.02800	0.00000	0.75720	1.4638	0.18377	1.6378	d
					3.1657	55.61845	43.86630	0.00000	0.74352	1.5459	0.14164	1.7096	d
					3.6180	56.04080	43.70460	0.00000	0.72622	1.6250	0.097178	1.7773	d
					4.0702	56.46315	43.54290	0.00000	0.70558	1.7004	0.050949	1.8403	d
					4.5225	56.88550	43.38120	0.00000	0.68196	1.7714	0.0035241	1.8981	d
					4.9747	57.30785	43.21950	0.00000	0.65570	1.8371	-0.044499	1.9501	d
					5.4270	57.73020	43.05780	0.00000	0.62716	1.8969	-0.092514	1.9957	d
					5.8792	58.15255	42.89610	0.00000	0.59674	1.9500	-0.13991	2.0344	d
					6.3314	58.57490	42.73440	0.00000	0.57141	1.9922	-0.17867	2.0648	d
					6.7837	58.99725	42.57270	0.00000	0.57766	2.0140	-0.18063	2.0874	d
					7.2359	59.41960	42.41100	0.00000	0.58378	2.0353	-0.18254	2.1095	d
					7.6882	59.84195	42.24930	0.00000	0.58976	2.0562	-0.18441	2.1311	d
					8.1404	60.26430	42.08760	0.00000	0.59562	2.0766	-0.18624	2.1523	d
		61	10S-09	10S-09	0.0	55.90000	34.60740	0.00000	0.0	0.0	0.0	0.0	d
					0.43838	56.30750	34.44578	0.00000	0.0	0.0	0.0	0.0	d
					0.87676	56.71500	34.28416	0.00000	0.0	0.0	0.0	0.0	d
					1.3151	57.12250	34.12254	0.00000	0.0	0.0	0.0	0.0	d
					1.7535	57.53000	33.96092	0.00000	0.0	0.0	0.0	0.0	d
					2.1919	57.93750	33.79930	0.00000	0.0	0.0	0.0	0.0	d
					2.6303	58.34500	33.63768	0.00000	0.0	0.0	0.0	0.0	d
					3.0687	58.75250	33.47606	0.00000	0.0	0.0	0.0	0.0	d
					3.5070	59.16000	33.31444	0.00000	0.0	0.0	0.0	0.0	d
					3.9454	59.56750	33.15282	0.00000	0.0	0.0	0.0	0.0	d
					4.3838	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0	d
		62	10S-10	10S-10	0.0	59.97500	32.99120	0.00000	0.0	0.0	0.0	0.0	d
					0.46737	59.79820	32.55856	0.00000	0.0	0.0	0.0	0.0	d
					0.93475	59.62140	32.12591	0.00000	0.0	0.0	0.0	0.0	d
					1.4021	59.44460	31.69327	0.00000	0.0	0.0	0.0	0.0	d
					1.8695	59.26780	31.26063	0.00000	0.0	0.0	0.0	0.0	d
					2.3369	59.09100	30.82799	0.00000	0.0	0.0	0.0	0.0	d
					2.8042	58.91420	30.39534	0.00000	0.0	0.0	0.0	0.0	d
					3.2716	58.73740	29.96270	0.00000	0.0	0.0	0.0	0.0	d
					3.7390	58.56060	29.53006	0.00000	0.0	0.0	0.0	0.0	d
					4.2064	58.38380	29.09741	0.00000	0.0	0.0	0.0	0.0	d
					4.6737	58.20700	28.66477	0.00000	0.0	0.0	0.0	0.0	d
					5.1411	58.03020	28.23213	0.00000	0.0	0.0	0.0	0.0	d
					5.6085	57.85340	27.79949	0.00000	0.0	0.0	0.0	0.0	d
					6.0759	57.67660	27.36684	0.00000	0.0	0.0	0.0	0.0	d
					6.5432	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0	d
		63	10S-11	10S-11	0.0	57.49980	26.93420	0.00000	0.0	0.0	0.0	0.0	d
					0.45119	57.08077	27.10149	0.00000	0.0	0.0	0.0	0.0	d
					0.90238	56.66174	27.26878	0.00000	0.0	0.0	0.0	0.0	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					1.3536	56.24271	27.43607	0.00000	0.0	0.0	0.0	0.0	d
					1.8048	55.82368	27.60336	0.00000	0.0	0.0	0.0	0.0	d
					2.2559	55.40465	27.77065	0.00000	0.0	0.0	0.0	0.0	d
					2.7071	54.98562	27.93794	0.00000	0.0	0.0	0.0	0.0	d
					3.1583	54.56659	28.10523	0.00000	0.0	0.0	0.0	0.0	d
					3.6095	54.14756	28.27252	0.00000	0.0	0.0	0.0	0.0	d
					4.0607	53.72853	28.43981	0.00000	0.0	0.0	0.0	0.0	d
					4.5119	53.30950	28.60710	0.00000	0.0	0.0	0.0	0.0	d
		64	12S-01	12S-01	0.0	56.42810	52.89730	0.00000	3.7909	1.5989	3.2154	2.5668	d
					0.49308	56.90271	52.76362	0.00000	3.7190	1.8576	3.0761	2.7963	d
					0.98615	57.37732	52.62994	0.00000	3.6014	2.1529	2.8828	3.0487	d
					1.4792	57.85193	52.49626	0.00000	3.4320	2.4884	2.6289	3.3257	d
					1.9723	58.32654	52.36258	0.00000	3.3011	2.9388	2.3807	3.7237	d
					2.4654	58.80115	52.22890	0.00000	3.1467	3.4618	2.0903	4.1852	d
					2.9585	59.27576	52.09522	0.00000	2.9461	4.0392	1.7407	4.6866	d
					3.4515	59.75037	51.96154	0.00000	2.7001	4.6635	1.3346	5.2209	d
					3.9446	60.22498	51.82786	0.00000	2.4132	5.3210	0.88019	5.7759	d
					4.4377	60.69959	51.69418	0.00000	2.0940	5.9912	0.39122	6.3346	d
					4.9308	61.17420	51.56050	0.00000	1.8622	6.4925	0.032250	6.7542	d
					5.4238	61.64881	51.42682	0.00000	1.8920	6.5965	0.032767	6.8624	d
					5.9169	62.12342	51.29314	0.00000	1.9219	6.7006	0.033284	6.9707	d
					6.4100	62.59803	51.15946	0.00000	1.9663	6.8006	0.048955	7.0790	d
					6.9031	63.07264	51.02578	0.00000	2.1873	6.8508	0.24800	7.1872	d
					7.3962	63.54725	50.89210	0.00000	2.4062	6.9016	0.44492	7.2955	d
					7.8892	64.02186	50.75842	0.00000	2.6229	6.9530	0.63964	7.4037	d
					8.3823	64.49647	50.62474	0.00000	2.8376	7.0051	0.83211	7.5120	d
					8.8754	64.97108	50.49106	0.00000	3.0500	7.0578	1.0223	7.6204	d
					9.3685	65.44569	50.35738	0.00000	3.2601	7.1112	1.2100	7.7288	d
					9.8615	65.92030	50.22370	0.00000	3.4679	7.1654	1.3954	7.8372	d
					10.355	66.39491	50.09002	0.00000	3.6733	7.2202	1.5782	7.9456	d
					10.848	66.86952	49.95634	0.00000	3.8761	7.2757	1.7584	8.0541	d
					11.341	67.34413	49.82266	0.00000	4.0765	7.3320	1.9360	8.1626	d
					11.834	67.81874	49.68898	0.00000	4.2742	7.3891	2.1108	8.2712	d
					12.327	68.29335	49.55530	0.00000	4.4467	7.3684	2.2824	8.2980	d
					12.820	68.76796	49.42162	0.00000	4.5605	7.1538	2.4502	8.1223	d
					13.313	69.24257	49.28794	0.00000	4.6715	6.9400	2.6150	7.9465	d
					13.806	69.71718	49.15426	0.00000	4.7795	6.7269	2.7767	7.7707	d
					14.299	70.19179	49.02058	0.00000	4.8844	6.5146	2.9353	7.5949	d
					14.792	70.66640	48.88690	0.00000	4.9862	6.3032	3.0905	7.4189	d
		65	12S-02	12S-02	0.0	70.66640	48.88690	0.00000	4.9862	6.3032	-7.8018	1.9299	d
					0.47168	70.47116	48.45752	0.00000	4.7728	6.0815	-7.5116	1.8274	d
					0.94336	70.27592	48.02815	0.00000	4.5622	5.8634	-7.2259	1.7260	d
					1.4150	70.08067	47.59877	0.00000	4.3543	5.6487	-6.9444	1.6256	d
					1.8867	69.88543	47.16940	0.00000	4.1491	5.4371	-6.6668	1.5264	d
					2.3584	69.69019	46.74002	0.00000	3.9466	5.2283	-6.3930	1.4284	d
					2.8301	69.49495	46.31065	0.00000	3.7466	5.0222	-6.1226	1.3317	d
					3.3018	69.29971	45.88128	0.00000	3.5491	4.8184	-5.8553	1.2363	d
					3.7734	69.10447	45.45190	0.00000	3.3540	4.6168	-5.5910	1.1422	d
					4.2451	68.90922	45.02253	0.00000	3.1613	4.4170	-5.3294	1.0495	d
					4.7168	68.71398	44.59315	0.00000	2.9710	4.2188	-5.0702	0.95824	d
					5.1885	68.51874	44.16378	0.00000	2.7829	4.0220	-4.8132	0.86847	d
					5.6602	68.32350	43.73440	0.00000	2.5970	3.8263	-4.5581	0.78023	d
		66	12S-03	12S-03	0.0	68.32350	43.73440	0.00000	2.5970	3.8263	-1.2512	-4.4519	d
					0.27923	68.05865	43.82285	0.00000	2.5480	3.9143	-1.1769	-4.5199	d
					0.55846	67.79380	43.91130	0.00000	2.4980	4.0028	-1.1015	-4.5879	d
					0.83769	67.52895	43.99975	0.00000	2.4471	4.0917	-1.0250	-4.6561	d
					1.1169	67.26410	44.08820	0.00000	2.3951	4.1810	-0.94734	-4.7244	d
		67	12S-04	12S-04	0.0	67.26410	44.08820	0.00000	2.3951	4.1810	-4.7618	0.73662	d
					0.43774	67.10714	43.67957	0.00000	2.2285	3.9795	-4.5139	0.65339	d
					0.87548	66.95018	43.27094	0.00000	2.0636	3.7791	-4.2678	0.57129	d
					1.3132	66.79322	42.86231	0.00000	1.9003	3.5797	-4.0231	0.49035	d
					1.7510	66.63626	42.45368	0.00000	1.7386	3.3811	-3.7796	0.41060	d
					2.1887	66.47930	42.04505	0.00000	1.5783	3.1830	-3.5372	0.33206	d
					2.6264	66.32234	41.63642	0.00000	1.4195	2.9852	-3.2957	0.25475	d
					3.0642	66.16538	41.22779	0.00000	1.2622	2.7875	-3.0547	0.17871	d
					3.5019	66.00842	40.81916	0.00000	1.1061	2.5898	-2.8142	0.10394	d
					3.9396	65.85146	40.41053	0.00000	0.95137	2.3918	-2.5739	0.030482	d
					4.3774	65.69450	40.00190	0.00000	0.79785	2.1933	-2.3335	-0.041657	d
		68	12S-05	12S-05	0.0	65.69450	40.00190	0.00000	0.79785	2.1933	0.046740	-2.3335	d
					0.49007	65.23740	40.17862	0.00000	0.69885	2.2672	0.16573	-2.3667	d
					0.98014	64.78030	40.35534	0.00000	0.64952	2.2645	0.21077	-2.3464	d
					1.4702	64.32320	40.53206	0.00000	0.64494	2.2486	0.20929	-2.3298	d
					1.9603	63.86610	40.70879	0.00000	0.64020	2.2321	0.20775	-2.3127	d
					2.4504	63.40900	40.88551	0.00000	0.63531	2.2150	0.20616	-2.2950	d
					2.9404	62.95190	41.06223	0.00000	0.63025	2.1973	0.20452	-2.2768	d
					3.4305	62.49480	41.23895	0.00000	0.62503	2.1791	0.20283	-2.2579	d
					3.9206	62.03770	41.41567	0.00000	0.61965	2.1604	0.20108	-2.2385	d
					4.4107	61.58060	41.59239	0.00000	0.61411	2.1411	0.19928	-2.2185	d
					4.9007	61.12350	41.76911	0.00000	0.60841	2.1212	0.19743	-2.1979	d
					5.3908	60.66640	41.94584	0.00000	0.60255	2.1008	0.19553	-2.1767	d
					5.8809	60.20930	42.12256	0.00000	0.59653	2.0798	0.19358	-2.1550	d
					6.3709	59.75220	42.29928	0.00000	0.59034	2.0582	0.19157	-2.1326	d
					6.8610	59.29510	42.47600	0.00000	0.58400	2.0361	0.18951	-2.1097	d
					7.3511	58.83800	42.65272	0.00000	0.57750	2.0134	0.18740	-2.0862	d
					7.8412	58.38090	42.82944	0.00000	0.58252	1.9834	0.17190	-2.0600	d
					8.3312	57.92380	43.00616	0.00000	0.61673	1.9300	0.12072	-2.0225	d
					8.8213	57.46670	43.18289	0.00000	0.64895	1.8683	0.068421	-1.9766	d
					9.3114	57.00960	43.35961	0.00000	0.67868	1.7992	0.015781	-1.9229	d
					9.8014	56.55250	43.53633	0.00000	0.70546	1.7237	-0.036420	-1.8621	d
					10.292	56.09540	43.71305	0.00000	0.72882	1.6427	-0.087413	-1.7950	d
					10.782	55.63830	43.88977	0.00000	0.74833	1.5572	-0.13645	-1.7223	d
					11.272	55.18120	44.06649	0.00000	0.76359	1.4681	-0.18282	-1.6447	d
					11.762	54.72410	44.24321	0.00000	0.77423	1.3763	-0.22584	-1.5629	d
					12.252	54.26700	44.41994	0.00000	0.77993	1.2827	-0.26491	-1.4777	d
					12.742	53.80990	44.59666	0.00000	0.78042	1.1882	-0.29945	-1.3897	d
					13.232	53.35280	44.77338	0.00000	0.77545	1.0935	-0.32897	-1.2995	d
					13.722	52.89570	44.95010	0.00000	0.76483	0.99927	-0.35303	-1.2078	d
		69	12S-06	12S-06	0.0	52.89570	44.95010	0.00000	0.76483	0.99927	1.2238	-0.29303	d
					0.48316	53.09194	45.39161	0.00000	0.87030	1.1067	1.3648	-0.34577	d
					0.96632	53.28819	45.83312	0.00000	0.97830	1.2093	1.5024	-0.40280	d
					1.4495	53.48443	46.27463	0.00000	1.0892	1.3066	1.6364	-0.46461	d
					1.9326	53.68068	46.71614	0.00000	1.2034	1.3981	1.7664	-0.53176	d
					2.4158	53.87692	47.15766	0.00000	1.3213	1.4833	1.8921	-0.60489	d
					2.8990	54.07317	47.59917	0.00000	1.4434	1.5614	2.0130	-0.68475	d
					3.3821	54.26941	48.04068	0.00000	1.5702	1.6315	2.1286	-0.77216	d
					3.8653	54.46566	48.48219	0.00000	1.7023	1.6927	2.2382	-0.86809	d
					4.3484	54.66190	48.92370	0.00000	1.8405	1.7436	2.3408	-0.97365	d
					4.8316	54.85814	49.36521	0.00000	1.9854	1.7829	2.4356	-1.0901	d
					5.3148	55.05439	49.80672	0.00000	2.1379	1.8087	2.5212	-1.2189	d
					5.7979	55.25063	50.24823	0.00000	2.2989	1.8192	2.5962	-1.3618	d
					6.2811	55.44688	50.68974	0.00000	2.4809	1.8204	2.6711	-1.5276	d
					6.7642	55.64312	51.13126	0.00000	2.6999	1.8207	2.7604	-1.7276	d
					7.2474	55.83937	51.57277	0.00000	2.9378	1.8021	2.8400	-1.9525	d
					7.7306	56.03561	52.01428	0.00000	3.1970	1.7615	2.9082	-2.2060	d
					8.2137	56.23186	52.45579	0.00000	3.4804	1.6951	2.9626	-2.4919	d
					8.6969	56.42810	52.89730	0.00000	3.7909	1.5989	3.0009	-2.8147	d
		70	14S-01	14S-01	0.0	92.77120	50.75620	0.00000	11.119	-1.2854	11.178	-0.58016	d
					0.48973	93.25995	50.72525	0.00000	11.306	-1.1601	11.356	-0.44324	d
					0.97946	93.74870	50.69430	0.00000	11.480	-1.0253	11.522	-0.29772	d
					1.4692	94.23745	50.66335	0.00000	11.641	-0.88035	11.673	-0.14292	d
					1.9589	94.72620	50.63240	0.00000	11.786	-0.72442	11.809	0.021913	d
					2.4486	95.21495	50.60145	0.00000	11.916	-0.55660	11.928	0.19760	d
					2.9384	95.70370	50.57050	0.00000	12.029	-0.37592	12.029	0.38503	d
					3.4281	96.19245	50.53955	0.00000	12.122	-0.18128	12.110	0.58519	d
					3.9178	96.68120	50.50860	0.00000	12.140	0.029700	12.114	0.79685	d
					4.4076	97.16995	50.47765	0.00000	12.094	0.25802	12.053	1.0218	d
					4.8973	97.65870	50.44670	0.00000	12.023	0.50418	11.967	1.2630	d
					5.3870	98.14745	50.41575	0.00000	11.926	0.76974	11.854	1.5219	d
					5.8767	98.63620	50.38480	0.00000	11.800	1.0564	11.709	1.8000	d
		71	14S-02	14S-02	0.0	98.63620	50.38480	0.00000	11.800	1.0564	-1.3480	11.770	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					0.49211	98.62403	49.89284	0.00000	11.106	1.3565	-1.6308	11.069	d
					0.98421	98.61185	49.40089	0.00000	10.649	1.6572	-1.9202	10.605	d
					1.4763	98.59968	48.90893	0.00000	10.226	1.9320	-2.1844	10.176	d
					1.9684	98.58751	48.41697	0.00000	9.8149	2.1784	-2.4205	9.7580	d
					2.4605	98.57533	47.92502	0.00000	9.4149	2.3969	-2.6290	9.3527	d
					2.9526	98.56316	47.43306	0.00000	9.0264	2.5881	-2.8106	8.9597	d
					3.4448	98.55099	46.94110	0.00000	8.6495	2.7528	-2.9659	8.5788	d
					3.9369	98.53881	46.44915	0.00000	8.2839	2.8917	-3.0958	8.2099	d
					4.4290	98.52664	45.95719	0.00000	7.9295	3.0059	-3.2011	7.8527	d
					4.9211	98.51447	45.46523	0.00000	7.5859	3.0961	-3.2828	7.5070	d
					5.4132	98.50229	44.97328	0.00000	7.2529	3.1635	-3.3419	7.1725	d
					5.9053	98.49012	44.48132	0.00000	6.9302	3.2088	-3.3793	6.8487	d
					6.3974	98.47795	43.98936	0.00000	6.6173	3.2332	-3.3959	6.5353	d
					6.8895	98.46577	43.49741	0.00000	6.3140	3.2374	-3.3927	6.2320	d
					7.3816	98.45360	43.00545	0.00000	6.0199	3.2226	-3.3705	5.9383	d
					7.8737	98.44143	42.51349	0.00000	5.7345	3.1895	-3.3304	5.6539	d
					8.3658	98.42925	42.02154	0.00000	5.4576	3.1390	-3.2731	5.3783	d
					8.8579	98.41708	41.52958	0.00000	5.1887	3.0720	-3.1994	5.1111	d
					9.3500	98.40491	41.03762	0.00000	4.9275	2.9892	-3.1102	4.8520	d
					9.8421	98.39273	40.54567	0.00000	4.6736	2.8915	-3.0062	4.6006	d
					10.334	98.38056	40.05371	0.00000	4.4267	2.7794	-2.8880	4.3566	d
					10.826	98.36839	39.56175	0.00000	4.1864	2.6537	-2.7565	4.1195	d
					11.318	98.35621	39.06980	0.00000	3.9524	2.5150	-2.6120	3.8890	d
					11.811	98.34404	38.57784	0.00000	3.7244	2.3640	-2.4554	3.6648	d
					12.303	98.33187	38.08588	0.00000	3.5021	2.2011	-2.2871	3.4466	d
					12.795	98.31969	37.59393	0.00000	3.2853	2.0269	-2.1076	3.2341	d
					13.287	98.30752	37.10197	0.00000	3.0786	1.8597	-1.9353	3.0317	d
					13.779	98.29535	36.61001	0.00000	2.8891	1.7243	-1.7952	2.8456	d
					14.271	98.28317	36.11806	0.00000	2.7045	1.5804	-1.6468	2.6646	d
					14.763	98.27100	35.62610	0.00000	2.5248	1.4283	-1.4903	2.4887	d
	72	14S-03	14S-03		0.0	98.27100	35.62610	0.00000	2.5248	1.4283	-2.4321	-1.5809	d
					0.43680	97.83503	35.65297	0.00000	2.5962	1.2708	-2.5131	-1.4281	d
					0.87360	97.39906	35.67984	0.00000	2.6623	1.1154	-2.5887	-1.2771	d
					1.3104	96.96309	35.70671	0.00000	2.7233	0.96236	-2.6589	-1.1281	d
					1.7472	96.52711	35.73359	0.00000	2.7790	0.81181	-2.7238	-0.98124	d
					2.1840	96.09114	35.76046	0.00000	2.8295	0.66386	-2.7833	-0.83667	d
					2.6208	95.65517	35.78733	0.00000	2.8749	0.51861	-2.8376	-0.69449	d
					3.0576	95.21920	35.81420	0.00000	2.9152	0.37615	-2.8865	-0.55477	d
					3.4944	94.78323	35.84107	0.00000	2.9503	0.23656	-2.9302	-0.41762	d
					3.9312	94.34726	35.86794	0.00000	2.9805	0.099922	-2.9687	-0.28309	d
					4.3680	93.91129	35.89481	0.00000	3.0056	-0.033715	-3.0020	-0.15125	d
					4.8048	93.47531	35.92169	0.00000	3.0259	-0.16430	-3.0303	-0.022158	d
					5.2416	93.03934	35.94856	0.00000	3.0413	-0.29180	-3.0535	0.10415	d
					5.6784	92.60337	35.97543	0.00000	3.0519	-0.41618	-3.0717	0.22764	d
					6.1152	92.16740	36.00230	0.00000	3.0578	-0.53741	-3.0851	0.34828	d
	73	14S-04	14S-04		0.0	92.16740	36.00230	0.00000	3.0578	-0.53741	0.84806	2.9866	d
					0.37863	92.20622	35.62567	0.00000	2.9168	-0.60276	0.89861	2.8396	d
					0.75726	92.24503	35.24903	0.00000	2.7776	-0.67259	0.95381	2.6940	d
					1.1359	92.28385	34.87240	0.00000	2.6406	-0.74556	1.0123	2.5503	d
					1.5145	92.32267	34.49577	0.00000	2.5364	-0.71612	0.97237	2.4496	d
					1.8931	92.36148	34.11913	0.00000	2.4349	-0.68746	0.93346	2.3515	d
					2.2718	92.40030	33.74250	0.00000	2.3361	-0.65957	0.89559	2.2562	d
	74	14S-05	14S-05		0.0	92.40030	33.74250	0.00000	2.3361	-0.65957	-2.2562	0.89562	d
					0.41939	91.98313	33.69950	0.00000	2.3513	-0.66386	-2.2708	0.90145	d
					0.83877	91.56595	33.65650	0.00000	2.3624	-0.66700	-2.2816	0.90570	d
					1.2582	91.14878	33.61350	0.00000	2.3695	-0.66900	-2.2884	0.90842	d
					1.6775	90.73160	33.57050	0.00000	2.3726	-0.66990	-2.2915	0.90964	d
					2.0969	90.31442	33.52750	0.00000	2.3720	-0.66970	-2.2908	0.90937	d
					2.5163	89.89725	33.48450	0.00000	2.3675	-0.66844	-2.2865	0.90765	d
					2.9357	89.48007	33.44150	0.00000	2.3593	-0.66613	-2.2786	0.90452	d
					3.3551	89.06290	33.39850	0.00000	2.3475	-0.66279	-2.2672	0.89999	d
					3.7745	88.64572	33.35550	0.00000	2.3321	-0.65846	-2.2523	0.89410	d
					4.1939	88.22855	33.31250	0.00000	2.3133	-0.65313	-2.2341	0.88688	d
					4.6132	87.81137	33.26950	0.00000	2.2910	-0.64685	-2.2126	0.87834	d
					5.0326	87.39420	33.22650	0.00000	2.2654	-0.63962	-2.1879	0.86852	d
	75	14S-06	14S-06		0.0	87.39420	33.22650	0.00000	2.2654	-0.63962	-2.0749	1.1118	d
					0.41438	86.98952	33.13740	0.00000	2.2262	-0.62855	-2.0390	1.0925	d
					0.82875	86.58483	33.04830	0.00000	2.1946	-0.61963	-2.0100	1.0770	d
					1.2431	86.18015	32.95920	0.00000	2.1698	-0.61261	-1.9873	1.0648	d
					1.6575	85.77547	32.87010	0.00000	2.1428	-0.60500	-1.9626	1.0516	d
					2.0719	85.37078	32.78100	0.00000	2.1138	-0.59681	-1.9360	1.0374	d
					2.4863	84.96610	32.69190	0.00000	2.0828	-0.58806	-1.9076	1.0221	d
	76	14S-07	14S-07		0.0	84.96610	32.69190	0.00000	2.0828	-0.58806	-0.81878	-2.0034	d
					0.45451	84.91494	33.14352	0.00000	2.1666	-0.61173	-0.85174	-2.0840	d
					0.90902	84.86377	33.59514	0.00000	2.2488	-0.62465	-0.87383	-2.1642	d
					1.3635	84.81261	34.04676	0.00000	2.3224	-0.60592	-0.86350	-2.2394	d
					1.8180	84.76144	34.49839	0.00000	2.3969	-0.58867	-0.85475	-2.3154	d
					2.2726	84.71028	34.95001	0.00000	2.4722	-0.57298	-0.84763	-2.3920	d
					2.7271	84.65911	35.40163	0.00000	2.5482	-0.55891	-0.84221	-2.4691	d
					3.1816	84.60795	35.85325	0.00000	2.6377	-0.55016	-0.84359	-2.5590	d
					3.6361	84.55679	36.30487	0.00000	2.7315	-0.54422	-0.84825	-2.6529	d
					4.0906	84.50562	36.75649	0.00000	2.8261	-0.54023	-0.85493	-2.7473	d
					4.5451	84.45446	37.20811	0.00000	2.9214	-0.53828	-0.86372	-2.8422	d
					4.9996	84.40329	37.65974	0.00000	3.0172	-0.53846	-0.87468	-2.9374	d
					5.4541	84.35213	38.11136	0.00000	3.1134	-0.54088	-0.88791	-3.0327	d
					5.9086	84.30096	38.56298	0.00000	3.2099	-0.54565	-0.90352	-3.1280	d
					6.3631	84.24980	39.01460	0.00000	3.2964	-0.53533	-0.90301	-3.2152	d
	77	14S-08	14S-08		0.0	84.24980	39.01460	0.00000	3.2964	-0.53533	3.2358	-0.82617	d
					0.47266	84.72059	39.05661	0.00000	3.3772	-0.61248	3.3094	-0.91019	d
					0.94533	85.19139	39.09861	0.00000	3.4467	-0.66968	3.3735	-0.97334	d
					1.4180	85.66218	39.14062	0.00000	3.5147	-0.72440	3.4364	-1.0339	d
					1.8907	86.13297	39.18263	0.00000	3.5782	-0.77253	3.4954	-1.0875	d
					2.3633	86.60377	39.22463	0.00000	3.6392	-0.81683	3.5522	-1.1370	d
					2.8360	87.07456	39.26664	0.00000	3.6989	-0.85926	3.6079	-1.1846	d
					3.3086	87.54536	39.30864	0.00000	3.7573	-0.89974	3.6625	-1.2301	d
					3.7813	88.01615	39.35065	0.00000	3.8141	-0.93798	3.7156	-1.2732	d
					4.2540	88.48694	39.39266	0.00000	3.9037	-0.85457	3.8123	-1.1981	d
					4.7266	88.95774	39.43466	0.00000	3.9920	-0.76610	3.9081	-1.1178	d
					5.1993	89.42853	39.47667	0.00000	4.0788	-0.67243	4.0029	-1.0323	d
					5.6720	89.89933	39.51868	0.00000	4.1638	-0.57339	4.0964	-0.94117	d
					6.1446	90.37012	39.56068	0.00000	4.2469	-0.46883	4.1884	-0.84440	d
					6.6173	90.84091	39.60269	0.00000	4.3276	-0.35860	4.2786	-0.74178	d
					7.0900	91.31171	39.64469	0.00000	4.4058	-0.24253	4.3668	-0.63312	d
					7.5626	91.78250	39.68670	0.00000	4.4811	-0.12046	4.4526	-0.51822	d
	78	14S-09	14S-09		0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	-0.53008	-4.4512	d
					0.45206	91.74112	40.13687	0.00000	4.6418	-0.089190	-0.51366	-4.6142	d
					0.90413	91.69975	40.58703	0.00000	4.8042	-0.066521	-0.50594	-4.7779	d
					1.3562	91.65838	41.03720	0.00000	4.9680	-0.052546	-0.50702	-4.9424	d
					1.8083	91.61700	41.48737	0.00000	5.1333	-0.047345	-0.51697	-5.1075	d
					2.2603	91.57563	41.93753	0.00000	5.3001	-0.050983	-0.53586	-5.2732	d
					2.7124	91.53425	42.38770	0.00000	5.4683	-0.063508	-0.56372	-5.4395	d
					3.1644	91.49287	42.83787	0.00000	5.6378	-0.084948	-0.60058	-5.6063	d
					3.6165	91.45150	43.28803	0.00000	5.8085	-0.11531	-0.64645	-5.7736	d
					4.0686	91.41012	43.73820	0.00000	5.9806	-0.15458	-0.70130	-5.9413	d
					4.5206	91.36875	44.18837	0.00000	6.1550	-0.19847	-0.76097	-6.1110	d
					4.9727	91.32738	44.63853	0.00000	6.3345	-0.23719	-0.81596	-6.2862	d
					5.4248	91.28600	45.08870	0.00000	6.5147	-0.28607	-0.88112	-6.4612	d
	79	14S-10	14S-10		0.0	91.28600	45.08870	0.00000	6.5147	-0.28607	6.4961	-0.67392	d
					0.36863	91.65398	45.11068	0.00000	6.6270	-0.17838	6.6046	-0.57311	d
					0.73726	92.02195	45.13265	0.00000	6.7375	-0.065489	6.7216	-0.46701	d
					1.1059	92.38993	45.15463	0.00000	6.8458	0.052771	6.8367	-0.35542	d
					1.4745	92.75790	45.17660	0.00000	6.9517	0.17659	6.9499	-0.23813	d
	80	14S-11	14S-11		0.0	92.75790	45.17660	0.00000	6.9517	0.17659	0.19316	-6.9513	d
					0.46497	92.75901	45.64157	0.00000	7.1759	0.11668	0.13379	-7.1756	d
					0.92994	92.76012	46.10653	0.00000	7.4035	0.044195	0.061843	-7.4034	d
					1.3949	92.76122	46.57150	0.00000	7.6344	-0.040806	-0.022608	-7.6345	d
					1.8599	92.76233	47.03647	0.00000	7.9850	-0.13745	-0.11842	-7.9853	d
					2.3248	92.76344	47.50143	0.00000	8.3496	-0.24508	-0.22518	-8.3501	d
					2.7898	92.76455	47.96640	0.00000	8.7224	-0.36353	-0.34274	-8.7232	d
					3.2548	92.76566	48.43137	0.00000	9.1032	-0.49257	-0.47087	-9.1043	d

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					3.7197	92.76677	48.89633	0.00000	9.4918	-0.63195	-0.60932	-9.4933	d
					4.1847	92.76788	49.36130	0.00000	9.8881	-0.78132	-0.75775	-9.8899	d
					4.6497	92.76898	49.82627	0.00000	10.292	-0.94032	-0.91579	-10.294	d
					5.1146	92.77009	50.29123	0.00000	10.702	-1.1085	-1.0830	-10.705	d
					5.5796	92.77120	50.75620	0.00000	11.119	-1.2854	-1.2589	-11.122	d
		81	14S-12	14S-12	0.0	91.78250	39.68670	0.00000	4.4811	-0.12046	0.58540	4.4443	d
					0.46306	91.83061	39.22615	0.00000	4.3189	-0.15976	0.60763	4.2789	d
					0.92611	91.87873	38.76560	0.00000	4.1498	-0.20281	0.63289	4.1063	d
					1.3892	91.92684	38.30505	0.00000	3.9607	-0.24044	0.65066	3.9143	d
					1.8522	91.97495	37.84450	0.00000	3.7744	-0.28547	0.67609	3.7243	d
					2.3153	92.02306	37.38395	0.00000	3.5910	-0.33780	0.70908	3.5365	d
					2.7783	92.07117	36.92340	0.00000	3.4105	-0.39731	0.74951	3.3507	d
					3.2414	92.11929	36.46285	0.00000	3.2327	-0.46389	0.79727	3.1670	d
					3.7045	92.16740	36.00230	0.00000	3.0578	-0.53741	0.85222	2.9854	d
		82	18S-01	18S-01	0.0	81.33400	88.63190	0.00000	6.1698	-2.8620	1.1414	-6.7048	d
					0.49752	81.61613	89.04169	0.00000	6.2437	-2.7857	1.2462	-6.7224	d
					0.99503	81.89826	89.45148	0.00000	6.3137	-2.7089	1.3491	-6.7366	d
					1.4926	82.18038	89.86127	0.00000	6.3758	-2.6348	1.4453	-6.7456	d
					1.9901	82.46251	90.27106	0.00000	6.4135	-2.5771	1.5142	-6.7440	d
					2.4876	82.74464	90.68084	0.00000	6.4450	-2.5201	1.5791	-6.7376	d
					2.9851	83.02677	91.09063	0.00000	6.4704	-2.4635	1.6401	-6.7264	d
					3.4826	83.30889	91.50042	0.00000	6.4899	-2.4070	1.6977	-6.7104	d
					3.9801	83.59102	91.91021	0.00000	6.5036	-2.3503	1.7522	-6.6896	d
					4.4777	83.87315	92.32000	0.00000	6.5118	-2.2932	1.8039	-6.6640	d
					4.9752	84.15528	92.72979	0.00000	6.5147	-2.2354	1.8531	-6.6336	d
					5.4727	84.43741	93.13958	0.00000	6.5063	-2.1876	1.8877	-6.5996	d
					5.9702	84.71953	93.54937	0.00000	6.4640	-2.1903	1.8615	-6.5662	d
					6.4677	85.00166	93.95916	0.00000	6.4168	-2.1916	1.8336	-6.5281	d
					6.9652	85.28379	94.36894	0.00000	6.3650	-2.1916	1.8042	-6.4854	d
					7.4628	85.56592	94.77873	0.00000	6.3086	-2.1903	1.7733	-6.4383	d
					7.9603	85.84804	95.18852	0.00000	6.2480	-2.1877	1.7411	-6.3869	d
					8.4578	86.13017	95.59831	0.00000	6.1832	-2.1838	1.7076	-6.3313	d
					8.9553	86.41230	96.00810	0.00000	6.1145	-2.1786	1.6729	-6.2717	d
		83	18S-02	18S-02	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	6.3052	1.5421	d
					0.48923	86.82094	95.73911	0.00000	6.3478	-2.2694	6.5500	1.5945	d
					0.97846	87.22959	95.47012	0.00000	6.5821	-2.3602	6.7957	1.6475	d
					1.4677	87.63823	95.20114	0.00000	6.8178	-2.4510	7.0424	1.7012	d
					1.9569	88.04688	94.93215	0.00000	7.0549	-2.5419	7.2904	1.7557	d
					2.4461	88.45552	94.66316	0.00000	7.3315	-2.6434	7.5773	1.8230	d
					2.9354	88.86416	94.39418	0.00000	7.6367	-2.7525	7.8922	1.8997	d
					3.4246	89.27281	94.12519	0.00000	7.9438	-2.8617	8.2088	1.9774	d
					3.9138	89.68145	93.85620	0.00000	8.2532	-2.9709	8.5272	2.0562	d
					4.4031	90.09009	93.58721	0.00000	8.5649	-3.0802	8.8477	2.1364	d
					4.8923	90.49874	93.31822	0.00000	8.8792	-3.1895	9.1703	2.2178	d
					5.3815	90.90738	93.04924	0.00000	9.1963	-3.2990	9.4953	2.3007	d
					5.8707	91.31602	92.78025	0.00000	9.5162	-3.4085	9.8228	2.3851	d
					6.3600	91.72467	92.51126	0.00000	9.8383	-3.5182	10.152	2.4706	d
					6.8492	92.13331	92.24228	0.00000	10.164	-3.6280	10.485	2.5580	d
					7.3384	92.54196	91.97329	0.00000	10.494	-3.7380	10.821	2.6475	d
					7.8276	92.95060	91.70430	0.00000	10.821	-3.8481	11.155	2.7355	d
		84	18S-03	18S-03	0.0	92.95060	91.70430	0.00000	10.821	-3.8481	-2.7389	11.154	d
					0.35410	92.75582	91.40858	0.00000	10.950	-3.8572	-2.8021	11.266	d
					0.70821	92.56103	91.11287	0.00000	11.067	-3.8651	-2.8600	11.369	d
					1.0623	92.36625	90.81715	0.00000	11.180	-3.8720	-2.9164	11.467	d
					1.4164	92.17147	90.52143	0.00000	11.289	-3.8779	-2.9711	11.560	d
					1.7705	91.97668	90.22572	0.00000	11.392	-3.8826	-3.0239	11.649	d
					2.1246	91.78190	89.93000	0.00000	11.490	-3.8863	-3.0748	11.733	d
		85	18S-04	18S-04	0.0	91.78190	89.93000	0.00000	11.490	-3.8863	-11.722	-3.1171	d
					0.43664	91.41813	90.17150	0.00000	11.159	-3.7861	-11.390	-3.0173	d
					0.87328	91.05435	90.41300	0.00000	10.832	-3.6862	-11.063	-2.9202	d
					1.3099	90.69057	90.65450	0.00000	10.511	-3.5864	-10.741	-2.8257	d
					1.7466	90.32680	90.89600	0.00000	10.195	-3.4868	-10.422	-2.7338	d
		86	18S-05	18S-05	0.0	90.32680	90.89600	0.00000	10.195	-3.4868	-2.7735	10.412	d
					0.49179	90.05324	90.48731	0.00000	10.294	-3.4880	-2.8277	10.495	d
					0.98359	89.77967	90.07863	0.00000	10.384	-3.4873	-2.8780	10.569	d
					1.4754	89.50611	89.66994	0.00000	10.462	-3.4845	-2.9239	10.632	d
					1.9672	89.23254	89.26126	0.00000	10.529	-3.4798	-2.9653	10.686	d
					2.4590	88.95898	88.85257	0.00000	10.585	-3.4731	-3.0018	10.728	d
					2.9508	88.68541	88.44389	0.00000	10.592	-3.4876	-2.9934	10.742	d
					3.4426	88.41185	88.03520	0.00000	10.569	-3.5086	-2.9633	10.734	d
					3.9344	88.13829	87.62651	0.00000	10.531	-3.5258	-2.9281	10.713	d
					4.4261	87.86472	87.21783	0.00000	10.478	-3.5394	-2.8873	10.678	d
					4.9179	87.59116	86.80914	0.00000	10.409	-3.5490	-2.8406	10.624	d
					5.4097	87.31759	86.40046	0.00000	10.322	-3.5545	-2.7877	10.555	d
					5.9015	87.04403	85.99177	0.00000	10.217	-3.5558	-2.7282	10.468	d
					6.3933	86.77046	85.58309	0.00000	10.092	-3.5530	-2.6615	10.363	d
					6.8851	86.49690	85.17440	0.00000	9.9695	-3.5854	-2.5661	10.279	d
		87	20S-01	20S-01	0.0	86.41230	96.00810	0.00000	6.1145	-2.1786	-6.3169	-1.4932	d
					0.37387	86.09843	96.21123	0.00000	5.9373	-2.1093	-6.1305	-1.4551	d
					0.74773	85.78457	96.41437	0.00000	5.7605	-2.0399	-5.9444	-1.4173	d
					1.1216	85.47070	96.61750	0.00000	5.5840	-1.9706	-5.7586	-1.3796	d
					1.4955	85.15683	96.82063	0.00000	5.4079	-1.9013	-5.5730	-1.3421	d
					1.8693	84.84297	97.02377	0.00000	5.2320	-1.8319	-5.3877	-1.3048	d
					2.2432	84.52910	97.22690	0.00000	5.0562	-1.7626	-5.2024	-1.2674	d
		88	20S-02	20S-02	0.0	84.52910	97.22690	0.00000	5.0562	-1.7626	1.3085	-5.1922	d
					0.44166	84.77199	97.59577	0.00000	5.0010	-1.7557	1.2840	-5.1424	d
					0.88331	85.01487	97.96464	0.00000	4.9438	-1.7478	1.2591	-5.0902	d
					1.3250	85.25776	98.33351	0.00000	4.8826	-1.7389	1.2329	-5.0343	d
					1.7666	85.50064	98.70239	0.00000	4.8030	-1.7291	1.1973	-4.9624	d
					2.2083	85.74353	99.07126	0.00000	4.7212	-1.7183	1.1613	-4.8881	d
					2.6499	85.98641	99.44013	0.00000	4.6374	-1.7065	1.1250	-4.8117	d
					3.0916	86.22930	99.80900	0.00000	4.5518	-1.6939	1.0885	-4.7332	d
					3.5332	86.47219	100.17787	0.00000	4.4644	-1.6802	1.0518	-4.6527	d
					3.9749	86.71507	100.54674	0.00000	4.3753	-1.6656	1.0150	-4.5703	d
					4.4166	86.95796	100.91561	0.00000	4.2848	-1.6501	0.97823	-4.4862	d
					4.8582	87.20084	101.28449	0.00000	4.1930	-1.6337	0.94146	-4.4004	d
					5.2999	87.44373	101.65336	0.00000	4.0999	-1.6163	0.90480	-4.3131	d
					5.7415	87.68661	102.02223	0.00000	4.0058	-1.5980	0.86832	-4.2244	d
					6.1832	87.92950	102.39110	0.00000	3.9107	-1.5788	0.83208	-4.1345	d
		89	20S-03	20S-03	0.0	87.92950	102.39110	0.00000	3.9107	-1.5788	4.1345	0.83206	d
					0.45803	88.31205	102.13921	0.00000	4.0734	-1.6615	4.3158	0.85246	d
					0.91605	88.69459	101.88733	0.00000	4.2348	-1.7441	4.4961	0.87219	d
					1.3741	89.07714	101.63544	0.00000	4.3949	-1.8267	4.6752	0.89123	d
					1.8321	89.45968	101.38355	0.00000	4.5535	-1.9093	4.8531	0.90955	d
					2.2901	89.84223	101.13167	0.00000	4.7107	-1.9917	5.0298	0.92712	d
					2.7482	90.22477	100.87978	0.00000	4.8664	-2.0742	5.2051	0.94391	d
					3.2062	90.60732	100.62790	0.00000	5.0206	-2.1565	5.3792	0.95989	d
					3.6642	90.98986	100.37601	0.00000	5.1731	-2.2388	5.5518	0.97504	d
					4.1222	91.37241	100.12412	0.00000	5.3239	-2.3210	5.7230	0.98931	d
					4.5803	91.75495	99.87224	0.00000	5.4730	-2.4032	5.8927	1.0027	d
					5.0383	92.13750	99.62035	0.00000	5.6410	-2.4911	6.0814	1.0216	d
					5.4963	92.52005	99.36846	0.00000	5.8347	-2.5868	6.2958	1.0483	d
					5.9543	92.90259	99.11658	0.00000	6.0262	-2.6823	6.5082	1.0738	d
					6.4124	93.28514	98.86469	0.00000	6.2154	-2.7776	6.7187	1.0982	d
					6.8704	93.66768	98.61280	0.00000	6.4022	-2.8728	6.9270	1.1214	d
					7.3284	94.05023	98.36092	0.00000	6.5864	-2.9679	7.1332	1.1434	d
					7.7864	94.43277	98.10903	0.00000	6.7682	-3.0628	7.3371	1.1640	d
					8.2445	94.81532	97.85715	0.00000	6.9472	-3.1575	7.5388	1.1834	d
					8.7025	95.19786	97.60526	0.00000	7.1235	-3.2521	7.7380	1.2014	d
					9.1605	95.58041	97.35337	0.00000	7.2970	-3.3465	7.9348	1.2179	d
					9.6185	95.96295	97.10149	0.00000	7.4674	-3.4407	8.1290	1.2329	d
					10.077	96.34550	96.84960	0.00000	7.6347	-3.5348	8.3205	1.2463	d
		90	20S-04	20S-04	0.0	96.34550	96.84960	0.00000	7.6347	-3.5348	-1.2463	8.3205	d
					0.44039	96.10331	96.48179	0.00000	7.8732	-3.5664	-1.3511	8.5370	d
					0.88078	95.86113	96.11397	0.00000	8.1114	-3.5966	-1.4569	8.7527	d
					1.3212	95.61894	95.74616	0.00000	8.3492	-3.6256	-1.5634	8.9671	d
					1.7616	95.37676	95.37834	0.00000	8.5860	-3.6532	-1.6706	9.1801	d
					2.2019	95.13457	95.01053	0.00000	8.8216	-3.6795	-1.7782	9.3913	d
					2.6423	94.89239	94.64271	0.00000	9.0555	-3.7043	-1.8861	9.6004	d
					3.0827	94.65020	94.27490	0.00000	9.2875	-3.7277	-1.9942	9.8070	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					3.5231	94.40801	93.90709	0.00000	9.5172	-3.7497	-2.1021	10.011	d
					3.9635	94.16583	93.53927	0.00000	9.7442	-3.7702	-2.2098	10.212	d
					4.4039	93.92364	93.17146	0.00000	9.9681	-3.7891	-2.3171	10.409	d
					4.8443	93.68146	92.80364	0.00000	10.188	-3.8066	-2.4238	10.603	d
					5.2847	93.43927	92.43583	0.00000	10.405	-3.8225	-2.5296	10.793	d
					5.7250	93.19709	92.06801	0.00000	10.618	-3.8368	-2.6345	10.978	d
					6.1654	92.95490	91.70020	0.00000	10.825	-3.8495	-2.7382	11.158	d
		91	20S-05	20S-05	0.0	87.93150	102.38980	0.00000	3.9116	-1.5792	0.84650	-4.1325	d
					0.43506	88.17202	102.75233	0.00000	3.8176	-1.5597	0.81085	-4.0434	d
					0.87012	88.41253	103.11487	0.00000	3.7230	-1.5392	0.77554	-3.9533	d
					1.3052	88.65305	103.47740	0.00000	3.6277	-1.5179	0.74064	-3.8621	d
					1.7402	88.89357	103.83993	0.00000	3.5321	-1.4958	0.70621	-3.7702	d
					2.1753	89.13408	104.20247	0.00000	3.4360	-1.4728	0.67230	-3.6774	d
					2.6104	89.37460	104.56500	0.00000	3.3398	-1.4489	0.63897	-3.5841	d
		92	20S-06	20S-06	0.0	89.37460	104.56500	0.00000	3.3398	-1.4489	3.6145	0.43499	d
					0.45769	89.76970	104.33398	0.00000	3.4718	-1.5285	3.7686	0.43294	d
					0.91538	90.16481	104.10295	0.00000	3.6015	-1.6079	3.9207	0.42984	d
					1.3731	90.55991	103.87193	0.00000	3.7288	-1.6872	4.0706	0.42565	d
					1.8308	90.95502	103.64091	0.00000	3.8537	-1.7664	4.2183	0.42033	d
					2.2884	91.35012	103.40989	0.00000	3.9760	-1.8454	4.3638	0.41384	d
					2.7461	91.74523	103.17886	0.00000	4.0957	-1.9243	4.5069	0.40615	d
					3.2038	92.14033	102.94784	0.00000	4.2126	-2.0030	4.6476	0.39719	d
					3.6615	92.53544	102.71682	0.00000	4.3267	-2.0816	4.7858	0.38694	d
					4.1192	92.93054	102.48580	0.00000	4.4378	-2.1600	4.9213	0.37534	d
					4.5769	93.32565	102.25477	0.00000	4.5459	-2.2383	5.0541	0.36235	d
					5.0346	93.72075	102.02375	0.00000	4.6508	-2.3164	5.1841	0.34790	d
					5.4923	94.11585	101.79273	0.00000	4.7557	-2.3952	5.3144	0.33280	d
					5.9500	94.51096	101.56170	0.00000	4.8954	-2.4846	5.4802	0.32613	d
					6.4076	94.90606	101.33068	0.00000	5.0311	-2.5737	5.6423	0.31770	d
					6.8653	95.30117	101.09966	0.00000	5.1626	-2.6625	5.8005	0.30744	d
					7.3230	95.69627	100.86864	0.00000	5.2896	-2.7509	5.9549	0.29529	d
					7.7807	96.09138	100.63761	0.00000	5.4122	-2.8389	6.1051	0.28118	d
					8.2384	96.48648	100.40659	0.00000	5.5300	-2.9265	6.2510	0.26502	d
					8.6961	96.88159	100.17557	0.00000	5.6430	-3.0137	6.3926	0.24675	d
					9.1538	97.27669	99.94455	0.00000	5.7509	-3.1005	6.5296	0.22627	d
					9.6115	97.67180	99.71352	0.00000	5.8536	-3.1869	6.6618	0.20350	d
					10.069	98.06690	99.48250	0.00000	5.9508	-3.2729	6.7891	0.17834	d
		93	20S-07	20S-07	0.0	98.06690	99.48250	0.00000	5.9508	-3.2729	-0.53894	6.7700	d
					0.39321	97.85066	99.15409	0.00000	6.1567	-3.3085	-0.62248	6.9616	d
					0.78642	97.63443	98.82568	0.00000	6.3642	-3.3432	-0.70758	7.1540	d
					1.1796	97.41819	98.49726	0.00000	6.5731	-3.3771	-0.79416	7.3471	d
					1.5728	97.20195	98.16885	0.00000	6.7832	-3.4101	-0.88213	7.5407	d
					1.9660	96.98571	97.84044	0.00000	6.9942	-3.4422	-0.97139	7.7346	d
					2.3593	96.76947	97.51202	0.00000	7.2060	-3.4733	-1.0618	7.9286	d
					2.7525	96.55324	97.18361	0.00000	7.4183	-3.5035	-1.1534	8.1226	d
					3.1457	96.33700	96.85520	0.00000	7.6310	-3.5327	-1.2460	8.3162	d
		94	HT-01	HT-01	0.0	89.37270	104.57010	0.00000	3.3378	-1.4480	-3.6102	-0.45160	d
					0.28136	89.13047	104.71325	0.00000	3.2552	-1.3989	-3.5141	-0.45183	d
					0.56273	88.88825	104.85640	0.00000	3.1718	-1.3498	-3.4174	-0.45168	d
					0.84409	88.64603	104.99955	0.00000	3.0877	-1.3007	-3.3199	-0.45116	d
					1.1255	88.40380	105.14270	0.00000	3.0027	-1.2515	-3.2218	-0.45028	d
		95	HT-02	HT-02	0.0	88.40380	105.14270	0.00000	3.0027	-1.2515	0.41376	-3.2267	d
					0.47611	88.64137	105.55530	0.00000	2.8987	-1.2200	0.38913	-3.1208	d
					0.95221	88.87894	105.96789	0.00000	2.7951	-1.1876	0.36551	-3.0148	d
					1.4283	89.11652	106.38049	0.00000	2.6919	-1.1543	0.34294	-2.9088	d
					1.9044	89.35409	106.79309	0.00000	2.5895	-1.1200	0.32148	-2.8030	d
					2.3805	89.59166	107.20569	0.00000	2.4878	-1.0849	0.30117	-2.6973	d
					2.8566	89.82923	107.61828	0.00000	2.3869	-1.0489	0.28206	-2.5919	d
					3.3327	90.06681	108.03088	0.00000	2.2870	-1.0120	0.26419	-2.4869	d
					3.8088	90.30438	108.44348	0.00000	2.1882	-0.97426	0.24760	-2.3825	d
					4.2850	90.54195	108.85608	0.00000	2.0906	-0.93567	0.23233	-2.2786	d
					4.7611	90.77952	109.26867	0.00000	1.9942	-0.89624	0.21841	-2.1754	d
					5.2372	91.01709	109.68127	0.00000	1.8992	-0.85599	0.20588	-2.0730	d
					5.7133	91.25467	110.09387	0.00000	1.8056	-0.81493	0.19477	-1.9714	d
					6.1894	91.49224	110.50646	0.00000	1.7245	-0.77794	0.18634	-1.8826	d
					6.6655	91.72981	110.91906	0.00000	1.6469	-0.74083	0.17976	-1.7968	d
					7.1416	91.96738	111.33166	0.00000	1.5700	-0.70233	0.17475	-1.7110	d
					7.6177	92.20496	111.74426	0.00000	1.4939	-0.66244	0.17135	-1.6252	d
					8.0938	92.44253	112.15685	0.00000	1.4186	-0.62117	0.16957	-1.5393	d
					8.5699	92.68010	112.56945	0.00000	1.3443	-0.57851	0.16943	-1.4536	d
					9.0460	92.91767	112.98205	0.00000	1.2708	-0.53447	0.17096	-1.3680	d
					9.5221	93.15524	113.39464	0.00000	1.1984	-0.48906	0.17418	-1.2826	d
					9.9982	93.39282	113.80724	0.00000	1.1270	-0.44227	0.17909	-1.1974	d
					10.474	93.63039	114.21984	0.00000	1.0566	-0.39411	0.18571	-1.1124	d
					10.950	93.86796	114.63244	0.00000	0.98738	-0.34459	0.19407	-1.0276	d
					11.427	94.10553	115.04503	0.00000	0.91924	-0.29372	0.20415	-0.94319	d
					11.903	94.34311	115.45763	0.00000	0.85226	-0.24150	0.21599	-0.85908	d
					12.379	94.58068	115.87023	0.00000	0.78647	-0.22205	0.20001	-0.79237	d
					12.855	94.81825	116.28283	0.00000	0.72190	-0.20382	0.18359	-0.72730	d
					13.331	95.05582	116.69542	0.00000	0.65855	-0.18594	0.16748	-0.66349	d
					13.807	95.29339	117.10802	0.00000	0.59647	-0.16841	0.15169	-0.60094	d
					14.283	95.53097	117.52062	0.00000	0.53567	-0.15124	0.13623	-0.53968	d
					14.759	95.76854	117.93321	0.00000	0.47616	-0.13444	0.12109	-0.47973	d
					15.235	96.00611	118.34581	0.00000	0.41797	-0.11801	0.10629	-0.42110	d
					15.712	96.24368	118.75841	0.00000	0.36110	-0.10195	0.091832	-0.36381	d
					16.188	96.48126	119.17101	0.00000	0.30558	-0.086278	0.077713	-0.30787	d
					16.664	96.71883	119.58360	0.00000	0.25142	-0.070985	0.063938	-0.25330	d
					17.140	96.95640	119.99620	0.00000	0.19861	-0.056077	0.050510	-0.20010	d
		96	HT-03	HT-03	0.0	96.95640	119.99620	0.00000	0.19861	-0.056077	0.20008	0.050615	d
					0.48235	97.37429	119.75529	0.00000	0.26241	-0.074089	0.26434	0.066872	d
					0.96471	97.79217	119.51438	0.00000	0.32389	-0.091447	0.32627	0.082540	d
					1.4471	98.21006	119.27347	0.00000	0.38301	-0.10814	0.38583	0.097606	d
					1.9294	98.62795	119.03256	0.00000	0.43973	-0.12415	0.44296	0.11206	d
					2.4118	99.04583	118.79165	0.00000	0.49399	-0.13947	0.49763	0.12589	d
					2.8941	99.46372	118.55075	0.00000	0.54576	-0.15409	0.54978	0.13908	d
					3.3765	99.88160	118.30984	0.00000	0.59498	-0.16799	0.59936	0.15162	d
					3.8588	100.29949	118.06893	0.00000	0.64161	-0.22048	0.66598	0.12943	d
					4.3412	100.71738	117.82802	0.00000	0.68560	-0.30131	0.74445	0.081380	d
					4.8235	101.13526	117.58711	0.00000	0.72689	-0.38232	0.82069	0.031817	d
					5.3059	101.55315	117.34620	0.00000	0.76544	-0.46353	0.89464	-0.019280	d
					5.7883	101.97104	117.10529	0.00000	0.80120	-0.54492	0.96627	-0.071933	d
					6.2706	102.38892	116.86438	0.00000	0.83410	-0.62649	1.0355	-0.12617	d
					6.7530	102.80681	116.62347	0.00000	0.86412	-0.70825	1.1024	-0.18201	d
					7.2353	103.22470	116.38256	0.00000	0.89118	-0.79018	1.1667	-0.23948	d
					7.7177	103.64258	116.14165	0.00000	0.91524	-0.87229	1.2286	-0.29860	d
					8.2000	104.06047	115.90075	0.00000	0.93625	-0.95458	1.2879	-0.35940	d
					8.6824	104.47835	115.65984	0.00000	0.95415	-1.0370	1.3446	-0.42189	d
					9.1647	104.89624	115.41893	0.00000	0.96889	-1.1197	1.3986	-0.48611	d
					9.6471	105.31413	115.17802	0.00000	0.98042	-1.2024	1.4499	-0.55207	d
					10.129	105.73201	114.93711	0.00000	0.98869	-1.2854	1.4985	-0.61979	d
					10.612	106.14990	114.69620	0.00000	0.99364	-1.3685	1.5443	-0.68929	d
		97	HT-04	HT-04	0.0	106.14990	114.69620	0.00000	0.99364	-1.3685	0.68739	1.5452	d
					0.47693	105.91119	114.28331	0.00000	1.0641	-1.4454	0.71874	1.6447	d
					0.95385	105.67248	113.87042	0.00000	1.1373	-1.5209	0.74740	1.7458	d
					1.4308	105.43377	113.45753	0.00000	1.2133	-1.5947	0.77331	1.8485	d
					1.9077	105.19507	113.04464	0.00000	1.2919	-1.6669	0.79645	1.9528	d
					2.3846	104.95636	112.63176	0.00000	1.3734	-1.7375	0.81676	2.0586	d
					2.8616	104.71765	112.21887	0.00000	1.4577	-1.8063	0.83420	2.1660	d
					3.3385	104.47894	111.80598	0.00000	1.5448	-1.8735	0.84875	2.2751	d
					3.8154	104.24023	111.39309	0.00000	1.6347	-1.9389	0.86036	2.3857	d
					4.2923	104.00153	110.98020	0.00000	1.7276	-2.0026	0.86900	2.4979	d
					4.7693	103.76282	110.56731	0.00000	1.8233	-2.0644	0.87463	2.6118	d
					5.2462	103.52411	110.15442	0.00000	1.9220	-2.1244	0.87721	2.7272	d
					5.7231	103.28540	109.74153	0.00000	2.0235	-2.1826	0.87672	2.8443	d
					6.2000	103.04669	109.32864	0.00000	2.1281	-2.2389	0.87313	2.9629	d
					6.6770	102.80798	108.91576	0.00000	2.2355	-2.2932	0.86640	3.0831	d
					7.1539	102.56928	108.50287	0.00000	2.3459	-2.3456	0.85652	3.2050	d
					7.6308	102.33057	108.08998	0.00000	2.4593	-2.3961	0.84345	3.3283	d
					8.1078	102.09186	107.67709	0.00000	2.5756	-2.4445	0.82719	3.4533	d
					8.5847	101.85315	107.26420	0.00000	2.6948	-2.4910	0.80771	3.5797	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					9.0616	101.61444	106.85131	0.00000	2.8202	-2.5363	0.78415	3.7110	d
					9.5385	101.37573	106.43842	0.00000	2.9615	-2.5832	0.75404	3.8568	d
					10.015	101.13702	106.02553	0.00000	3.1062	-2.6281	0.72054	4.0045	d
					10.492	100.89832	105.61264	0.00000	3.2542	-2.6711	0.68365	4.1542	d
					10.969	100.65961	105.19976	0.00000	3.4056	-2.7121	0.64337	4.3058	d
					11.446	100.42090	104.78687	0.00000	3.5603	-2.7511	0.59972	4.4592	d
					11.923	100.18219	104.37398	0.00000	3.7182	-2.7881	0.55271	4.6144	d
					12.400	99.94348	103.96109	0.00000	3.8792	-2.8230	0.50235	4.7713	d
					12.877	99.70477	103.54820	0.00000	4.0433	-2.8559	0.44868	4.9298	d
					13.354	99.46607	103.13531	0.00000	4.2103	-2.8866	0.39173	5.0898	d
					13.831	99.22736	102.72242	0.00000	4.3802	-2.9153	0.33153	5.2512	d
					14.308	98.98865	102.30953	0.00000	4.5529	-2.9419	0.26814	5.4140	d
					14.785	98.74994	101.89664	0.00000	4.7281	-2.9664	0.20160	5.5780	d
					15.262	98.51123	101.48376	0.00000	4.9059	-2.9887	0.13197	5.7431	d
					15.739	98.27253	101.07087	0.00000	5.0860	-3.0090	0.059328	5.9091	d
					16.216	98.03382	100.65798	0.00000	5.3140	-3.0548	-0.015094	6.1294	d
					16.692	97.79511	100.24509	0.00000	5.5532	-3.1042	-0.092066	6.3612	d
					17.169	97.55640	99.83220	0.00000	5.7958	-3.1525	-0.17169	6.5955	d
		98	22S-01	22S-01	0.0	111.36030	124.06920	0.00000	0.040412	-0.011410	0.041917	0.0025016	d
					0.47735	111.81115	123.91236	0.00000	0.044480	-0.012559	0.046137	0.0027535	d
					0.95470	112.26200	123.75551	0.00000	0.046852	-0.013228	0.048597	0.0029003	d
					1.4321	112.71285	123.59867	0.00000	0.047553	-0.013426	0.049324	0.0029437	d
					1.9094	113.16370	123.44183	0.00000	0.046611	-0.013160	0.048347	0.0028853	d
					2.3868	113.61455	123.28499	0.00000	0.044055	-0.012439	0.045696	0.0027272	d
					2.8641	114.06540	123.12814	0.00000	0.039918	-0.011270	0.041405	0.0024710	d
					3.3415	114.51625	122.97130	0.00000	0.034231	-0.0096648	0.035506	0.0021190	d
					3.8188	114.96710	122.81446	0.00000	0.027031	-0.0076319	0.028038	0.0016733	d
					4.2962	115.41795	122.65761	0.00000	0.018354	-0.0051822	0.019038	0.0011362	d
					4.7735	115.86880	122.50077	0.00000	0.0082402	-0.0023265	0.0085471	510.09E-6	d
					5.2509	116.31965	122.34393	0.00000	0.0	0.0	0.0	0.0	d
					5.7282	116.77050	122.18709	0.00000	0.0	0.0	0.0	0.0	d
					6.2056	117.22135	122.03024	0.00000	0.0	0.0	0.0	0.0	d
					6.6829	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0	d
		99	22S-02	22S-02	0.0	117.67220	121.87340	0.00000	0.0	0.0	0.0	0.0	d
					0.49713	117.50862	121.40396	0.00000	0.0	0.0	0.0	0.0	d
					0.99425	117.34504	120.93452	0.00000	8.0710E-6	-0.095302	0.089993	0.031367	d
					1.4914	117.18146	120.46507	0.00000	19.062E-6	-0.22508	0.21254	0.074082	d
					1.9885	117.01788	119.99563	0.00000	30.000E-6	-0.35424	0.33450	0.11659	d
					2.4856	116.85430	119.52619	0.00000	40.884E-6	-0.48276	0.45587	0.15889	d
					2.9828	116.69073	119.05675	0.00000	51.716E-6	-0.61066	0.57664	0.20099	d
					3.4799	116.52715	118.58731	0.00000	62.495E-6	-0.73794	0.69682	0.24288	d
					3.9770	116.36357	118.11787	0.00000	73.220E-6	-0.86458	0.81641	0.28456	d
					4.4741	116.19999	117.64843	0.00000	83.892E-6	-0.99060	0.93541	0.32604	d
					4.9713	116.03641	117.17898	0.00000	0.013459	-1.1182	1.0515	0.38066	d
					5.4684	115.87283	116.70954	0.00000	0.028957	-1.2451	1.1663	0.43706	d
					5.9655	115.70925	116.24010	0.00000	0.046433	-1.3713	1.2797	0.49508	d
					6.4626	115.54567	115.77066	0.00000	0.065955	-1.4967	1.3917	0.55478	d
					6.9598	115.38209	115.30122	0.00000	0.087594	-1.6213	1.5022	0.61622	d
					7.4569	115.21851	114.83178	0.00000	0.11142	-1.7451	1.6113	0.67945	d
					7.9540	115.05493	114.36233	0.00000	0.13752	-1.8680	1.7187	0.74453	d
					8.4511	114.89135	113.89289	0.00000	0.16596	-1.9900	1.8246	0.81154	d
					8.9483	114.72778	113.42345	0.00000	0.19683	-2.1111	1.9288	0.88054	d
					9.4454	114.56420	112.95401	0.00000	0.23023	-2.2313	2.0313	0.95161	d
					9.9425	114.40062	112.48457	0.00000	0.26623	-2.3504	2.1319	1.0248	d
					10.440	114.23704	112.01513	0.00000	0.30494	-2.4686	2.2307	1.1002	d
					10.937	114.07346	111.54568	0.00000	0.34646	-2.5856	2.3276	1.1780	d
					11.434	113.90988	111.07624	0.00000	0.39088	-2.7015	2.4225	1.2581	d
					11.931	113.74630	110.60680	0.00000	0.43833	-2.8163	2.5153	1.3406	d
		100	22S-03	22S-03	0.0	113.74630	110.60680	0.00000	0.43833	-2.8163	-1.3402	2.5155	d
					0.47885	113.29409	110.76428	0.00000	0.50950	-2.7532	-1.3866	2.4325	d
					0.95770	112.84187	110.92176	0.00000	0.57748	-2.6893	-1.4298	2.3498	d
					1.4365	112.38966	111.07924	0.00000	0.64223	-2.6249	-1.4698	2.2677	d
					1.9154	111.93744	111.23671	0.00000	0.70370	-2.5599	-1.5064	2.1861	d
					2.3942	111.48523	111.39419	0.00000	0.76183	-2.4944	-1.5398	2.1051	d
					2.8731	111.03301	111.55167	0.00000	0.81658	-2.4284	-1.5698	2.0248	d
					3.3519	110.58080	111.70915	0.00000	0.86793	-2.3620	-1.5964	1.9452	d
					3.8308	110.12859	111.86663	0.00000	0.91584	-2.2951	-1.6197	1.8663	d
					4.3096	109.67637	112.02411	0.00000	0.96029	-2.2279	-1.6396	1.7882	d
					4.7885	109.22416	112.18159	0.00000	1.0013	-2.1604	-1.6561	1.7109	d
					5.2673	108.77194	112.33906	0.00000	1.0387	-2.0925	-1.6691	1.6345	d
					5.7462	108.31973	112.49654	0.00000	1.0727	-2.0244	-1.6788	1.5590	d
					6.2250	107.86751	112.65402	0.00000	1.1032	-1.9561	-1.6851	1.4845	d
					6.7039	107.41530	112.81150	0.00000	1.1301	-1.8875	-1.6880	1.4108	d
		101	22S-04	22S-04	0.0	107.41530	112.81150	0.00000	1.1301	-1.8875	-1.4075	-1.6907	d
					0.49704	107.57968	113.28057	0.00000	1.0557	-1.7910	-1.3410	-1.5886	d
					0.99408	107.74405	113.74964	0.00000	0.98440	-1.6931	-1.2722	-1.4889	d
					1.4911	107.90842	114.21871	0.00000	0.91601	-1.5938	-1.2012	-1.3916	d
					1.9882	108.07280	114.68778	0.00000	0.85050	-1.4933	-1.1280	-1.2965	d
					2.4852	108.23718	115.15685	0.00000	0.78779	-1.3915	-1.0527	-1.2037	d
					2.9822	108.40155	115.62592	0.00000	0.72781	-1.2885	-0.97533	-1.1130	d
					3.4793	108.56592	116.09500	0.00000	0.67047	-1.1843	-0.89596	-1.0244	d
					3.9763	108.73030	116.56407	0.00000	0.61572	-1.0790	-0.81464	-0.93791	d
					4.4733	108.89468	117.03314	0.00000	0.56348	-0.97251	-0.73144	-0.85339	d
					4.9704	109.05905	117.50221	0.00000	0.51369	-0.86494	-0.64639	-0.77083	d
					5.4674	109.22342	117.97128	0.00000	0.46628	-0.75632	-0.55956	-0.69016	d
					5.9645	109.38780	118.44035	0.00000	0.42118	-0.64667	-0.47099	-0.61134	d
					6.4615	109.55218	118.90942	0.00000	0.37835	-0.53601	-0.38073	-0.53432	d
					6.9585	109.71655	119.37849	0.00000	0.33771	-0.42438	-0.28882	-0.45905	d
					7.4556	109.88092	119.84756	0.00000	0.29921	-0.31181	-0.19531	-0.38549	d
					7.9526	110.04530	120.31663	0.00000	0.26280	-0.19831	-0.10025	-0.31359	d
					8.4496	110.20968	120.78570	0.00000	0.22841	-0.083923	-0.0036620	-0.24332	d
					8.9467	110.37405	121.25477	0.00000	0.19602	-0.055343	0.012595	-0.20329	d
					9.4437	110.53842	121.72385	0.00000	0.16555	-0.046740	0.010637	-0.17169	d
					9.9408	110.70280	122.19292	0.00000	0.13695	-0.038667	0.0087999	-0.14203	d
					10.438	110.86718	122.66199	0.00000	0.11019	-0.031111	0.0070802	-0.11428	d
					10.935	111.03155	123.13106	0.00000	0.085208	-0.024058	0.0054750	-0.088369	d
					11.432	111.19592	123.60013	0.00000	0.061963	-0.017495	0.0039814	-0.064262	d
					11.929	111.36030	124.06920	0.00000	0.040412	-0.011410	0.0025967	-0.041911	d
		102	23K-01	23K-01	0.0	126.87040	106.75440	0.00000	389.31E-6	-4.5970	-1.4957	4.3469	d
					0.48606	126.41078	106.91251	0.00000	382.79E-6	-4.5200	-1.4707	4.2740	d
					0.97212	125.95115	107.07062	0.00000	376.32E-6	-4.4436	-1.4458	4.2018	d
					1.4582	125.49152	107.22872	0.00000	369.90E-6	-4.3677	-1.4211	4.1301	d
					1.9442	125.03190	107.38683	0.00000	363.53E-6	-4.2925	-1.3966	4.0589	d
					2.4303	124.57228	107.54494	0.00000	357.20E-6	-4.2179	-1.3724	3.9884	d
					2.9164	124.11265	107.70305	0.00000	350.93E-6	-4.1438	-1.3483	3.9184	d
					3.4024	123.65302	107.86116	0.00000	344.71E-6	-4.0704	-1.3244	3.8489	d
					3.8885	123.19340	108.01927	0.00000	338.54E-6	-3.9975	-1.3007	3.7800	d
					4.3745	122.73378	108.17738	0.00000	332.42E-6	-3.9253	-1.2771	3.7117	d
					4.8606	122.27415	108.33548	0.00000	326.35E-6	-3.8536	-1.2538	3.6439	d
					5.3466	121.81453	108.49359	0.00000	320.33E-6	-3.7825	-1.2307	3.5767	d
					5.8327	121.35490	108.65170	0.00000	314.37E-6	-3.7120	-1.2078	3.5101	d
		103	23K-02	23K-02	0.0	121.35490	108.65170	0.00000	314.37E-6	-3.7120	-3.5088	-1.2113	d
					0.48330	121.51257	109.10856	0.00000	303.66E-6	-3.5856	-3.3893	-1.1700	d
					0.96659	121.67024	109.56541	0.00000	292.89E-6	-3.4585	-3.2692	-1.1286	d
					1.4499	121.82791	110.02227	0.00000	282.08E-6	-3.3309	-3.1485	-1.0869	d
					1.9332	121.98558	110.47912	0.00000	271.22E-6	-3.2026	-3.0273	-1.0451	d
					2.4165	122.14325	110.93597	0.00000	260.31E-6	-3.0738	-2.9055	-1.0030	d
					2.8998	122.30092	111.39283	0.00000	249.35E-6	-2.9444	-2.7832	-0.96081	d
					3.3831	122.45859	111.84969	0.00000	238.35E-6	-2.8144	-2.6603	-0.91838	d
					3.8664	122.61626	112.30654	0.00000	227.29E-6	-2.6838	-2.5369	-0.87577	d
					4.3497	122.77393	112.76340	0.00000	216.18E-6	-2.5526	-2.4129	-0.83296	d
					4.8330	122.93160	113.22025	0.00000	205.02E-6	-2.4209	-2.2883	-0.78997	d
					5.3163	123.08927	113.67710	0.00000	193.81E-6	-2.2885	-2.1632	-0.74678	d
					5.7996	123.24694	114.13396	0.00000	182.55E-6	-2.1556	-2.0376	-0.70340	d
					6.2829	123.40461	114.59081	0.00000	171.24E-6	-2.0220	-1.9113	-0.65982	d
					6.7662	123.56228	115.04767	0.00000	159.88E-6	-1.8879	-1.7846	-0.61606	d
					7.2495	123.71995	115.50453	0.00000	148.48E-6	-1.7532	-1.6572	-0.57210	d
					7.7328	123.87762	115.96138	0.00000	137.02E-6	-1.6179	-1.5293	-0.52795	d
					8.2161	124.03529	116.41823	0.00000	125.51E-6	-1.4820	-1.4009	-0.48361	d
					8.6994	124.19296	116.87509	0.00000	113.95E-6	-1.3455	-1.2719	-0.43908	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					9.1826	124.35063	117.33194	0.00000	102.34E-6	-1.2085	-1.1423	-0.39435	d
					9.6659	124.50830	117.78880	0.00000	90.688E-6	-1.0708	-1.0122	-0.34943	d
		104	23K-03	23K-03	0.0	124.50830	117.78880	0.00000	90.688E-6	-1.0708	0.34414	-1.0140	d
					0.48785	124.97028	117.63206	0.00000	95.345E-6	-1.1258	0.36181	-1.0661	d
					0.97570	125.43227	117.47532	0.00000	100.05E-6	-1.1814	0.37967	-1.1187	d
					1.4635	125.89425	117.31857	0.00000	104.81E-6	-1.2376	0.39772	-1.1719	d
					1.9514	126.35623	117.16183	0.00000	109.62E-6	-1.2943	0.41596	-1.2257	d
					2.4392	126.81822	117.00509	0.00000	114.47E-6	-1.3517	0.43440	-1.2800	d
					2.9271	127.28020	116.84835	0.00000	119.38E-6	-1.4096	0.45302	-1.3349	d
					3.4149	127.74218	116.69161	0.00000	124.34E-6	-1.4682	0.47183	-1.3903	d
					3.9028	128.20417	116.53487	0.00000	129.34E-6	-1.5273	0.49083	-1.4463	d
					4.3906	128.66615	116.37812	0.00000	134.40E-6	-1.5870	0.51002	-1.5028	d
					4.8785	129.12813	116.22138	0.00000	139.51E-6	-1.6473	0.52941	-1.5599	d
					5.3663	129.59012	116.06464	0.00000	144.67E-6	-1.7082	0.54898	-1.6176	d
					5.8542	130.05210	115.90790	0.00000	149.88E-6	-1.7697	0.56874	-1.6758	d
		105	23K-04	23K-04	0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	0.52054	-1.5006	d
					0.43187	130.65443	116.32850	0.00000	139.17E-6	-1.6433	0.53856	-1.5526	d
					0.86374	131.06247	116.18700	0.00000	143.87E-6	-1.6988	0.55674	-1.6050	d
					1.2956	131.47050	116.04550	0.00000	148.61E-6	-1.7547	0.57507	-1.6578	d
					1.7275	131.87853	115.90400	0.00000	153.38E-6	-1.8111	0.59355	-1.7111	d
					2.1594	132.28657	115.76250	0.00000	158.20E-6	-1.8680	0.61219	-1.7649	d
					2.5912	132.69460	115.62100	0.00000	163.06E-6	-1.9254	0.63099	-1.8190	d
					3.0231	133.10263	115.47950	0.00000	167.95E-6	-1.9832	0.64994	-1.8737	d
					3.4550	133.51067	115.33800	0.00000	172.89E-6	-2.0415	0.66904	-1.9287	d
					3.8868	133.91870	115.19650	0.00000	177.87E-6	-2.1003	0.68830	-1.9843	d
					4.3187	134.32673	115.05500	0.00000	182.88E-6	-2.1595	0.70772	-2.0402	d
					4.7506	134.73477	114.91350	0.00000	187.94E-6	-2.2192	0.72729	-2.0966	d
					5.1825	135.14280	114.77200	0.00000	193.04E-6	-2.2794	0.74701	-2.1535	d
		106	23K-05	23K-05	0.0	135.32920	115.30920	0.00000	177.49E-6	-2.0958	0.68691	-1.9800	d
					0.46218	135.76587	115.15775	0.00000	182.91E-6	-2.1599	0.70792	-2.0405	d
					0.92437	136.20253	115.00630	0.00000	188.39E-6	-2.2245	0.72910	-2.1016	d
					1.3866	136.63920	114.85485	0.00000	193.91E-6	-2.2897	0.75046	-2.1632	d
					1.8487	137.07587	114.70340	0.00000	199.47E-6	-2.3554	0.77200	-2.2253	d
					2.3109	137.51253	114.55195	0.00000	205.08E-6	-2.4216	0.79372	-2.2879	d
					2.7731	137.94920	114.40050	0.00000	210.74E-6	-2.4884	0.81561	-2.3510	d
					3.2353	138.38587	114.24905	0.00000	216.44E-6	-2.5557	0.83768	-2.4146	d
					3.6975	138.82253	114.09760	0.00000	222.19E-6	-2.6236	0.85992	-2.4787	d
					4.1597	139.25920	113.94615	0.00000	227.98E-6	-2.6920	0.88235	-2.5433	d
					4.6218	139.69587	113.79470	0.00000	233.82E-6	-2.7610	0.90495	-2.6085	d
					5.0840	140.13253	113.64325	0.00000	239.71E-6	-2.8305	0.92772	-2.6741	d
					5.5462	140.56920	113.49180	0.00000	245.64E-6	-2.9005	0.95068	-2.7403	d
		107	23K-06	23K-06	0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	0.88284	-2.5453	d
					0.44539	141.17871	113.91508	0.00000	233.84E-6	-2.7612	0.90484	-2.6087	d
					0.89078	141.59952	113.76917	0.00000	238.53E-6	-2.8165	0.92296	-2.6610	d
					1.3362	142.02033	113.62325	0.00000	243.16E-6	-2.8712	0.94089	-2.7127	d
					1.7816	142.44113	113.47733	0.00000	247.80E-6	-2.9260	0.95883	-2.7644	d
					2.2269	142.86194	113.33142	0.00000	252.43E-6	-2.9807	0.97676	-2.8161	d
					2.6723	143.28275	113.18550	0.00000	257.07E-6	-3.0354	0.99470	-2.8678	d
					3.1177	143.70356	113.03958	0.00000	261.70E-6	-3.0902	1.0126	-2.9195	d
					3.5631	144.12437	112.89367	0.00000	266.34E-6	-3.1449	1.0306	-2.9712	d
					4.0085	144.54518	112.74775	0.00000	270.97E-6	-3.1996	1.0485	-3.0230	d
					4.4539	144.96598	112.60183	0.00000	275.61E-6	-3.2544	1.0664	-3.0747	d
					4.8993	145.38679	112.45592	0.00000	280.24E-6	-3.3091	1.0844	-3.1264	d
					5.3447	145.80760	112.31000	0.00000	284.88E-6	-3.3638	1.1023	-3.1781	d
		108	23K-07	23K-07	0.0	145.92710	112.67510	0.00000	273.28E-6	-3.2269	1.0553	-3.0495	d
					0.46129	146.36303	112.52428	0.00000	278.07E-6	-3.2835	1.0738	-3.1029	d
					0.92257	146.79897	112.37345	0.00000	282.86E-6	-3.3401	1.0924	-3.1564	d
					1.3839	147.23490	112.22262	0.00000	287.65E-6	-3.3966	1.1109	-3.2098	d
					1.8451	147.67083	112.07180	0.00000	292.45E-6	-3.4532	1.1294	-3.2633	d
					2.3064	148.10677	111.92097	0.00000	297.24E-6	-3.5098	1.1479	-3.3168	d
					2.7677	148.54270	111.77015	0.00000	302.03E-6	-3.5663	1.1664	-3.3702	d
					3.2290	148.97863	111.61933	0.00000	306.82E-6	-3.6229	1.1849	-3.4237	d
					3.6903	149.41457	111.46850	0.00000	311.61E-6	-3.6795	1.2034	-3.4772	d
					4.1516	149.85050	111.31768	0.00000	316.40E-6	-3.7361	1.2219	-3.5306	d
					4.6129	150.28643	111.16685	0.00000	321.19E-6	-3.7926	1.2404	-3.5841	d
					5.0742	150.72237	111.01602	0.00000	325.98E-6	-3.8492	1.2589	-3.6375	d
					5.5354	151.15830	110.86520	0.00000	330.77E-6	-3.9058	1.2774	-3.6910	d
		109	23K-08	23K-08	0.0	151.15830	110.86520	0.00000	330.77E-6	-3.9058	3.6910	1.2773	d
					0.49250	150.99728	110.39977	0.00000	345.55E-6	-4.0803	3.8559	1.3344	d
					0.98500	150.83625	109.93434	0.00000	360.34E-6	-4.2548	4.0209	1.3915	d
					1.4775	150.67523	109.46891	0.00000	375.12E-6	-4.4294	4.1858	1.4486	d
					1.9700	150.51420	109.00348	0.00000	389.90E-6	-4.6039	4.3507	1.5057	d
					2.4625	150.35317	108.53805	0.00000	404.68E-6	-4.7784	4.5157	1.5627	d
					2.9550	150.19215	108.07262	0.00000	419.46E-6	-4.9530	4.6806	1.6198	d
					3.4475	150.03113	107.60719	0.00000	434.24E-6	-5.1275	4.8455	1.6769	d
					3.9400	149.87010	107.14176	0.00000	449.02E-6	-5.3020	5.0105	1.7340	d
					4.4325	149.70908	106.67633	0.00000	463.80E-6	-5.4766	5.1754	1.7910	d
					4.9250	149.54805	106.21090	0.00000	478.58E-6	-5.6511	5.3403	1.8481	d
					5.4175	149.38702	105.74547	0.00000	493.36E-6	-5.8256	5.5053	1.9052	d
					5.9100	149.22600	105.28004	0.00000	508.14E-6	-6.0001	5.6702	1.9623	d
					6.4025	149.06498	104.81461	0.00000	522.92E-6	-6.1747	5.8351	2.0193	d
					6.8950	148.90395	104.34918	0.00000	537.70E-6	-6.3492	6.0001	2.0764	d
					7.3875	148.74293	103.88375	0.00000	552.48E-6	-6.5237	6.1650	2.1335	d
					7.8800	148.58190	103.41832	0.00000	567.27E-6	-6.6983	6.3299	2.1906	d
					8.3725	148.42087	102.95289	0.00000	582.05E-6	-6.8728	6.4949	2.2477	d
					8.8650	148.25985	102.48746	0.00000	596.83E-6	-7.0473	6.6598	2.3047	d
					9.3575	148.09883	102.02203	0.00000	611.61E-6	-7.2219	6.8248	2.3618	d
					9.8500	147.93780	101.55660	0.00000	626.39E-6	-7.3964	6.9897	2.4189	d
		110	23K-09	23K-09	0.0	147.93780	101.55660	0.00000	626.39E-6	-7.3964	-2.4662	6.9731	d
					0.46129	147.50289	101.71037	0.00000	621.50E-6	-7.3387	-2.4470	6.9187	d
					0.92259	147.06798	101.86415	0.00000	616.62E-6	-7.2810	-2.4278	6.8644	d
					1.3839	146.63308	102.01793	0.00000	611.73E-6	-7.2234	-2.4085	6.8100	d
					1.8452	146.19817	102.17170	0.00000	606.85E-6	-7.1657	-2.3893	6.7556	d
					2.3065	145.76326	102.32547	0.00000	601.97E-6	-7.1080	-2.3701	6.7012	d
					2.7678	145.32835	102.47925	0.00000	597.08E-6	-7.0503	-2.3508	6.6469	d
					3.2291	144.89344	102.63303	0.00000	592.20E-6	-6.9927	-2.3316	6.5925	d
					3.6904	144.45853	102.78680	0.00000	587.31E-6	-6.9350	-2.3124	6.5381	d
					4.1516	144.02362	102.94057	0.00000	582.43E-6	-6.8773	-2.2931	6.4837	d
					4.6129	143.58872	103.09435	0.00000	577.54E-6	-6.8196	-2.2739	6.4294	d
					5.0742	143.15381	103.24813	0.00000	572.66E-6	-6.7619	-2.2547	6.3750	d
					5.5355	142.71890	103.40190	0.00000	567.77E-6	-6.7043	-2.2354	6.3206	d
		111	23K-10	23K-10	0.0	137.49760	104.66790	0.00000	506.30E-6	-5.9784	1.9608	-5.6477	d
					0.44540	137.91837	104.52185	0.00000	513.19E-6	-6.0597	1.9875	-5.7245	d
					0.89080	138.33915	104.37580	0.00000	520.12E-6	-6.1416	2.0144	-5.8019	d
					1.3362	138.75993	104.22975	0.00000	527.10E-6	-6.2240	2.0414	-5.8797	d
					1.7816	139.18070	104.08370	0.00000	534.11E-6	-6.3068	2.0686	-5.9579	d
					2.2270	139.60147	103.93765	0.00000	541.18E-6	-6.3902	2.0959	-6.0367	d
					2.6724	140.02225	103.79160	0.00000	548.28E-6	-6.4741	2.1234	-6.1159	d
					3.1178	140.44303	103.64555	0.00000	555.42E-6	-6.5584	2.1511	-6.1956	d
					3.5632	140.86380	103.49950	0.00000	562.61E-6	-6.6433	2.1789	-6.2758	d
					4.0086	141.28457	103.35345	0.00000	569.31E-6	-6.7224	2.2049	-6.3505	d
					4.4540	141.70535	103.20740	0.00000	573.95E-6	-6.7772	2.2228	-6.4023	d
					4.8994	142.12613	103.06135	0.00000	578.59E-6	-6.8320	2.2408	-6.4540	d
					5.3448	142.54690	102.91530	0.00000	583.23E-6	-6.8867	2.2588	-6.5058	d
		112	23K-11	23K-11	0.0	142.54690	102.91530	0.00000	583.23E-6	-6.8867	-6.5073	-2.2544	d
					0.46948	142.70055	103.35893	0.00000	569.14E-6	-6.7204	-6.3501	-2.1999	d
					0.93896	142.85419	103.80255	0.00000	555.05E-6	-6.5540	-6.1929	-2.1454	d
					1.4084	143.00784	104.24618	0.00000	540.96E-6	-6.3877	-6.0357	-2.0910	d
					1.8779	143.16148	104.68981	0.00000	526.87E-6	-6.2213	-5.8785	-2.0365	d
					2.3474	143.31513	105.13344	0.00000	512.78E-6	-6.0550	-5.7214	-1.9821	d
					2.8169	143.46877	105.57706	0.00000	498.70E-6	-5.8886	-5.5642	-1.9276	d
					3.2864	143.62242	106.02069	0.00000	484.61E-6	-5.7222	-5.4070	-1.8732	d
					3.7558	143.77606	106.46432	0.00000	470.52E-6	-5.5559	-5.2498	-1.8187	d
					4.2253	143.92971	106.90795	0.00000	456.43E-6	-5.3895	-5.0926	-1.7642	d
					4.6948	144.08335	107.35157	0.00000	442.34E-6	-5.2232	-4.9354	-1.7098	d
					5.1643	144.23700	107.79520	0.00000	428.25E-6	-5.0568	-4.7782	-1.6553	d
					5.6338	144.39065	108.23883	0.00000	414.17E-6	-4.8905	-4.6210	-1.6009	d
					6.1032	144.54429	108.68245	0.00000	400.08E-6	-4.7241	-4.4638	-1.5464	d
					6.5727	144.69794	109.12608	0.00000	385.99E-6	-4.5578	-4.3066	-1.4920	d
					7.0422	144.85158	109.56971	0.00000	371.90E-6	-4.3914	-4.1495	-1.4375	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					7.5117	145.00523	110.01334	0.00000	357.81E-6	-4.2250	-3.9923	-1.3831	d
					7.9812	145.15887	110.45696	0.00000	343.72E-6	-4.0587	-3.8351	-1.3286	d
					8.4507	145.31252	110.90059	0.00000	329.64E-6	-3.8923	-3.6779	-1.2741	d
					8.9201	145.46616	111.34422	0.00000	315.55E-6	-3.7260	-3.5207	-1.2197	d
					9.3896	145.61981	111.78785	0.00000	301.46E-6	-3.5596	-3.3635	-1.1652	d
					9.8591	145.77345	112.23147	0.00000	287.37E-6	-3.3933	-3.2063	-1.1108	d
					10.329	145.92710	112.67510	0.00000	273.28E-6	-3.2269	-3.0491	-1.0563	d
	113	23K-12	23K-12		0.0	140.75790	114.06100	0.00000	228.16E-6	-2.6941	2.5451	0.88360	d
					0.47283	140.60286	113.61431	0.00000	241.86E-6	-2.8559	2.6980	0.93668	d
					0.94566	140.44782	113.16762	0.00000	255.52E-6	-3.0172	2.8503	0.98958	d
					1.4185	140.29278	112.72093	0.00000	269.13E-6	-3.1779	3.0021	1.0423	d
					1.8913	140.13774	112.27424	0.00000	282.70E-6	-3.3381	3.1534	1.0948	d
					2.3642	139.98270	111.82755	0.00000	296.21E-6	-3.4977	3.3042	1.1472	d
					2.8370	139.82765	111.38085	0.00000	309.68E-6	-3.6567	3.4544	1.1993	d
					3.3098	139.67261	110.93416	0.00000	323.10E-6	-3.8152	3.6041	1.2513	d
					3.7827	139.51757	110.48747	0.00000	336.47E-6	-3.9730	3.7533	1.3031	d
					4.2555	139.36253	110.04078	0.00000	349.79E-6	-4.1304	3.9019	1.3547	d
					4.7283	139.20749	109.59409	0.00000	363.07E-6	-4.2871	4.0500	1.4061	d
					5.2012	139.05245	109.14740	0.00000	376.30E-6	-4.4433	4.1975	1.4573	d
					5.6740	138.89741	108.70071	0.00000	389.48E-6	-4.5989	4.3446	1.5084	d
					6.1468	138.74237	108.25402	0.00000	402.61E-6	-4.7540	4.4910	1.5592	d
					6.6197	138.58733	107.80733	0.00000	415.69E-6	-4.9085	4.6370	1.6099	d
					7.0925	138.43229	107.36064	0.00000	428.73E-6	-5.0624	4.7824	1.6604	d
					7.5653	138.27725	106.91395	0.00000	441.72E-6	-5.2158	4.9273	1.7107	d
					8.0382	138.12220	106.46725	0.00000	454.66E-6	-5.3686	5.0716	1.7608	d
					8.5110	137.96716	106.02056	0.00000	467.55E-6	-5.5208	5.2154	1.8107	d
					8.9838	137.81212	105.57387	0.00000	480.39E-6	-5.6725	5.3587	1.8605	d
					9.4566	137.65708	105.12718	0.00000	493.19E-6	-5.8236	5.5015	1.9100	d
					9.9295	137.50204	104.68049	0.00000	505.94E-6	-5.9741	5.6437	1.9594	d
					10.402	137.34700	104.23380	0.00000	518.64E-6	-6.1241	5.7854	2.0086	d
	114	23K-13	23K-13		0.0	137.34700	104.23380	0.00000	518.64E-6	-6.1241	-2.0498	5.7709	d
					0.46085	136.91272	104.38802	0.00000	511.41E-6	-6.0387	-2.0212	5.6904	d
					0.92170	136.47843	104.54223	0.00000	504.23E-6	-5.9539	-1.9929	5.6105	d
					1.3826	136.04415	104.69645	0.00000	497.09E-6	-5.8697	-1.9647	5.5311	d
					1.8434	135.60987	104.85067	0.00000	490.00E-6	-5.7859	-1.9366	5.4522	d
					2.3043	135.17558	105.00488	0.00000	482.96E-6	-5.7027	-1.9088	5.3738	d
					2.7651	134.74130	105.15910	0.00000	475.96E-6	-5.6201	-1.8811	5.2959	d
					3.2260	134.30702	105.31332	0.00000	469.01E-6	-5.5380	-1.8537	5.2186	d
					3.6868	133.87273	105.46753	0.00000	462.10E-6	-5.4565	-1.8264	5.1418	d
					4.1477	133.43845	105.62175	0.00000	455.24E-6	-5.3755	-1.7993	5.0654	d
					4.6085	133.00417	105.77597	0.00000	448.43E-6	-5.2951	-1.7723	4.9896	d
					5.0694	132.56988	105.93018	0.00000	441.66E-6	-5.2152	-1.7456	4.9143	d
					5.5302	132.13560	106.08440	0.00000	434.94E-6	-5.1358	-1.7190	4.8396	d
	115	23K-14	23K-14		0.0	127.09450	107.39930	0.00000	373.10E-6	-4.4056	1.4416	-4.1631	d
					0.43282	127.50351	107.25771	0.00000	378.89E-6	-4.4740	1.4639	-4.2277	d
					0.86565	127.91252	107.11612	0.00000	384.72E-6	-4.5428	1.4865	-4.2927	d
					1.2985	128.32153	106.97452	0.00000	390.59E-6	-4.6121	1.5092	-4.3582	d
					1.7313	128.73053	106.83293	0.00000	396.50E-6	-4.6819	1.5320	-4.4242	d
					2.1641	129.13954	106.69134	0.00000	402.45E-6	-4.7521	1.5550	-4.4905	d
					2.5969	129.54855	106.54975	0.00000	408.44E-6	-4.8229	1.5781	-4.5574	d
					3.0298	129.95756	106.40816	0.00000	414.47E-6	-4.8941	1.6014	-4.6247	d
					3.4626	130.36657	106.26657	0.00000	420.54E-6	-4.9658	1.6249	-4.6924	d
					3.8954	130.77558	106.12497	0.00000	426.65E-6	-5.0379	1.6485	-4.7606	d
					4.3282	131.18458	105.98338	0.00000	432.80E-6	-5.1105	1.6722	-4.8292	d
					4.7611	131.59359	105.84179	0.00000	438.99E-6	-5.1836	1.6962	-4.8983	d
					5.1939	132.00260	105.70020	0.00000	445.22E-6	-5.2572	1.7202	-4.9678	d
	116	23K-15	23K-15		0.0	132.00260	105.70020	0.00000	445.22E-6	-5.2572	-4.9678	-1.7203	d
					0.46221	132.15381	106.13697	0.00000	433.53E-6	-5.1192	-4.8373	-1.6751	d
					0.92441	132.30502	106.57375	0.00000	421.80E-6	-4.9806	-4.7064	-1.6298	d
					1.3866	132.45623	107.01052	0.00000	410.02E-6	-4.8415	-4.5749	-1.5843	d
					1.8488	132.60744	107.44729	0.00000	398.19E-6	-4.7018	-4.4430	-1.5386	d
					2.3110	132.75865	107.88406	0.00000	386.32E-6	-4.5616	-4.3105	-1.4927	d
					2.7732	132.90985	108.32084	0.00000	374.40E-6	-4.4209	-4.1775	-1.4466	d
					3.2354	133.06106	108.75761	0.00000	362.43E-6	-4.2796	-4.0440	-1.4004	d
					3.6976	133.21227	109.19438	0.00000	350.42E-6	-4.1378	-3.9100	-1.3540	d
					4.1599	133.36348	109.63115	0.00000	338.37E-6	-3.9954	-3.7755	-1.3074	d
					4.6221	133.51469	110.06793	0.00000	326.27E-6	-3.8525	-3.6404	-1.2607	d
					5.0843	133.66590	110.50470	0.00000	314.12E-6	-3.7091	-3.5049	-1.2137	d
					5.5465	133.81711	110.94147	0.00000	301.93E-6	-3.5651	-3.3689	-1.1666	d
					6.0087	133.96832	111.37825	0.00000	289.69E-6	-3.4206	-3.2323	-1.1193	d
					6.4709	134.11953	111.81502	0.00000	277.40E-6	-3.2756	-3.0952	-1.0719	d
					6.9331	134.27074	112.25179	0.00000	265.07E-6	-3.1300	-2.9577	-1.0242	d
					7.3953	134.42195	112.68856	0.00000	252.70E-6	-2.9839	-2.8196	-0.97640	d
					7.8575	134.57315	113.12534	0.00000	240.28E-6	-2.8372	-2.6810	-0.92841	d
					8.3197	134.72436	113.56211	0.00000	227.81E-6	-2.6900	-2.5419	-0.88024	d
					8.7819	134.87557	113.99888	0.00000	215.30E-6	-2.5422	-2.4023	-0.83189	d
					9.2441	135.02678	114.43565	0.00000	202.74E-6	-2.3940	-2.2622	-0.78337	d
					9.7063	135.17799	114.87243	0.00000	190.14E-6	-2.2451	-2.1215	-0.73467	d
					10.169	135.32920	115.30920	0.00000	177.49E-6	-2.0958	-1.9804	-0.68579	d
	117	23K-16	23K-16		0.0	130.24640	116.47000	0.00000	134.51E-6	-1.5883	1.5003	0.52147	d
					0.46752	130.09295	116.02838	0.00000	146.59E-6	-1.7309	1.6350	0.56828	d
					0.93504	129.93949	115.58676	0.00000	158.61E-6	-1.8729	1.7691	0.61490	d
					1.4026	129.78604	115.14515	0.00000	170.59E-6	-2.0144	1.9027	0.66134	d
					1.8701	129.63258	114.70353	0.00000	182.53E-6	-2.1553	2.0358	0.70761	d
					2.3376	129.47913	114.26191	0.00000	194.41E-6	-2.2956	2.1684	0.75369	d
					2.8051	129.32567	113.82029	0.00000	206.25E-6	-2.4354	2.3004	0.79958	d
					3.2726	129.17222	113.37867	0.00000	218.05E-6	-2.5747	2.4320	0.84530	d
					3.7402	129.01876	112.93705	0.00000	229.79E-6	-2.7134	2.5630	0.89083	d
					4.2077	128.86531	112.49544	0.00000	241.49E-6	-2.8515	2.6935	0.93619	d
					4.6752	128.71185	112.05382	0.00000	253.14E-6	-2.9891	2.8234	0.98136	d
					5.1427	128.55840	111.61220	0.00000	264.75E-6	-3.1261	2.9529	1.0263	d
					5.6102	128.40495	111.17058	0.00000	276.31E-6	-3.2626	3.0818	1.0712	d
					6.0778	128.25149	110.72896	0.00000	287.82E-6	-3.3986	3.2102	1.1158	d
					6.5453	128.09804	110.28735	0.00000	299.28E-6	-3.5339	3.3380	1.1602	d
					7.0128	127.94458	109.84573	0.00000	310.70E-6	-3.6687	3.4654	1.2045	d
					7.4803	127.79113	109.40411	0.00000	322.07E-6	-3.8030	3.5922	1.2486	d
					7.9478	127.63767	108.96249	0.00000	333.40E-6	-3.9367	3.7185	1.2925	d
					8.4154	127.48422	108.52087	0.00000	344.67E-6	-4.0699	3.8443	1.3362	d
					8.8829	127.33076	108.07925	0.00000	355.90E-6	-4.2025	3.9695	1.3797	d
					9.3504	127.17731	107.63764	0.00000	367.09E-6	-4.3345	4.0943	1.4231	d
					9.8179	127.02385	107.19602	0.00000	378.22E-6	-4.4660	4.2185	1.4663	d
					10.285	126.87040	106.75440	0.00000	389.31E-6	-4.5970	4.3422	1.5092	d
	118	23K-17	23K-17		0.0	150.73130	109.63110	0.00000	369.97E-6	-4.3686	1.4473	-4.1218	d
					0.45094	151.15679	109.48174	0.00000	374.71E-6	-4.4246	1.4658	-4.1747	d
					0.90189	151.58228	109.33238	0.00000	379.45E-6	-4.4806	1.4844	-4.2276	d
					1.3528	152.00777	109.18302	0.00000	384.20E-6	-4.5366	1.5030	-4.2804	d
					1.8038	152.43326	109.03366	0.00000	388.94E-6	-4.5926	1.5215	-4.3333	d
					2.2547	152.85875	108.88430	0.00000	393.69E-6	-4.6487	1.5401	-4.3861	d
					2.7057	153.28424	108.73494	0.00000	398.43E-6	-4.7047	1.5586	-4.4390	d
					3.1566	153.70973	108.58558	0.00000	403.18E-6	-4.7607	1.5772	-4.4919	d
					3.6075	154.13522	108.43622	0.00000	407.92E-6	-4.8167	1.5958	-4.5447	d
					4.0585	154.56071	108.28686	0.00000	412.67E-6	-4.8728	1.6143	-4.5976	d
					4.5094	154.98620	108.13750	0.00000	417.41E-6	-4.9288	1.6329	-4.6504	d
	119	23K-18	23K-18		0.0	154.98620	108.13750	0.00000	417.41E-6	-4.9288	4.6664	1.5866	d
					0.44565	154.84277	107.71556	0.00000	430.81E-6	-5.0870	4.8162	1.6376	d
					0.89130	154.69935	107.29362	0.00000	444.21E-6	-5.2452	4.9660	1.6885	d
					1.3370	154.55593	106.87168	0.00000	457.61E-6	-5.4034	5.1158	1.7394	d
					1.7826	154.41250	106.44973	0.00000	471.01E-6	-5.5617	5.2656	1.7904	d
					2.2283	154.26907	106.02779	0.00000	484.41E-6	-5.7199	5.4154	1.8413	d
					2.6739	154.12565	105.60585	0.00000	497.81E-6	-5.8781	5.5652	1.8922	d
					3.1196	153.98222	105.18391	0.00000	511.21E-6	-6.0363	5.7150	1.9432	d
					3.5652	153.83880	104.76197	0.00000	524.61E-6	-6.1946	5.8648	1.9941	d
					4.0109	153.69537	104.34002	0.00000	538.01E-6	-6.3528	6.0146	2.0450	d
					4.4565	153.55195	103.91808	0.00000	551.41E-6	-6.5110	6.1644	2.0960	d
					4.9022	153.40852	103.49614	0.00000	564.81E-6	-6.6692	6.3142	2.1469	d
					5.3478	153.26510	103.07420	0.00000	578.21E-6	-6.8275	6.4640	2.1978	d
	120	23K-19	23K-19		0.0	153.26510	103.07420	0.00000	578.21E-6	-6.8275	-2.2510	6.4457	d
					0.45383	152.83663	103.22379	0.00000	573.45E-6	-6.7713	-2.2325	6.3927	d
					0.90766	152.40816	103.37338	0.00000	568.70E-6	-6.7152	-2.2140	6.3398	d
					1.3615	151.97969	103.52297	0.00000	563.95E-6	-6.6591	-2.1955	6.2868	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					1.8153	151.55122	103.67256	0.00000	559.20E-6	-6.6030	-2.1770	6.2338	d
					2.2692	151.12275	103.82215	0.00000	554.45E-6	-6.5469	-2.1585	6.1809	d
					2.7230	150.69428	103.97174	0.00000	549.70E-6	-6.4908	-2.1400	6.1279	d
					3.1768	150.26581	104.12133	0.00000	544.94E-6	-6.4347	-2.1215	6.0749	d
					3.6307	149.83734	104.27092	0.00000	540.19E-6	-6.3786	-2.1030	6.0219	d
					4.0845	149.40887	104.42051	0.00000	535.44E-6	-6.3225	-2.0845	5.9690	d
					4.5383	148.98040	104.57010	0.00000	530.69E-6	-6.2664	-2.0660	5.9160	d
		121	23AB-01	23AB-01	0.0	147.70060	95.28400	0.00000	894.39E-6	-10.561	-0.72483	-10.536	d
					0.40048	148.10013	95.31152	0.00000	893.08E-6	-10.545	-0.72377	-10.521	d
					0.80095	148.49966	95.33904	0.00000	891.77E-6	-10.530	-0.72271	-10.505	d
					1.2014	148.89919	95.36656	0.00000	890.46E-6	-10.515	-0.72165	-10.490	d
					1.6019	149.29872	95.39408	0.00000	889.15E-6	-10.499	-0.72059	-10.474	d
					2.0024	149.69825	95.42160	0.00000	887.84E-6	-10.484	-0.71953	-10.459	d
					2.4029	150.09778	95.44912	0.00000	886.54E-6	-10.468	-0.71847	-10.444	d
					2.8033	150.49731	95.47664	0.00000	885.23E-6	-10.453	-0.71741	-10.428	d
					3.2038	150.89684	95.50416	0.00000	883.92E-6	-10.437	-0.71635	-10.413	d
					3.6043	151.29637	95.53168	0.00000	882.62E-6	-10.422	-0.71529	-10.397	d
					4.0048	151.69590	95.55920	0.00000	881.31E-6	-10.407	-0.71424	-10.382	d
		122	23AB-02	23AB-02	0.0	151.69590	95.55920	0.00000	881.31E-6	-10.407	-10.373	0.83013	d
					0.10895	151.68720	95.66780	0.00000	876.15E-6	-10.346	-10.313	0.82527	d
					0.21790	151.67850	95.77640	0.00000	871.00E-6	-10.285	-10.252	0.82042	d
		123	23AB-03	23AB-03	0.0	151.67850	95.77640	0.00000	871.00E-6	-10.285	-0.72345	-10.259	d
					0.47908	152.15639	95.81014	0.00000	869.40E-6	-10.266	-0.72212	-10.240	d
					0.95816	152.63428	95.84388	0.00000	867.80E-6	-10.247	-0.72080	-10.222	d
					1.4372	153.11217	95.87762	0.00000	866.20E-6	-10.228	-0.71947	-10.203	d
					1.9163	153.59006	95.91136	0.00000	864.61E-6	-10.209	-0.71814	-10.184	d
					2.3954	154.06795	95.94510	0.00000	863.01E-6	-10.190	-0.71682	-10.165	d
					2.8745	154.54584	95.97884	0.00000	861.41E-6	-10.172	-0.71549	-10.146	d
					3.3536	155.02373	96.01258	0.00000	859.82E-6	-10.153	-0.71417	-10.128	d
					3.8326	155.50162	96.04632	0.00000	858.22E-6	-10.134	-0.71284	-10.109	d
					4.3117	155.97951	96.08006	0.00000	856.63E-6	-10.115	-0.71152	-10.090	d
					4.7908	156.45740	96.11380	0.00000	855.03E-6	-10.096	-0.71019	-10.071	d
		124	23AB-04	23AB-04	0.0	156.45740	96.11380	0.00000	855.03E-6	-10.096	10.071	-0.71014	d
					0.46049	156.48983	95.65445	0.00000	876.80E-6	-10.353	10.328	-0.72822	d
					0.92099	156.52226	95.19510	0.00000	898.66E-6	-10.611	10.585	-0.74637	d
					1.3815	156.55469	94.73575	0.00000	920.60E-6	-10.870	10.844	-0.76459	d
					1.8420	156.58711	94.27640	0.00000	942.65E-6	-11.131	11.103	-0.78290	d
					2.3025	156.61954	93.81705	0.00000	964.80E-6	-11.392	11.364	-0.80131	d
					2.7630	156.65197	93.35770	0.00000	987.08E-6	-11.655	11.627	-0.81981	d
					3.2235	156.68440	92.89835	0.00000	0.0010095	-11.920	11.891	-0.83842	d
					3.6839	156.71683	92.43900	0.00000	0.0010320	-12.186	12.156	-0.85715	d
					4.1444	156.74926	91.97965	0.00000	0.0010547	-12.454	12.423	-0.87599	d
					4.6049	156.78169	91.52030	0.00000	0.0010776	-12.724	12.693	-0.89497	d
					5.0654	156.81411	91.06095	0.00000	0.0011006	-12.996	12.964	-0.91409	d
					5.5259	156.84654	90.60160	0.00000	0.0011238	-13.270	13.237	-0.93335	d
					5.9864	156.87897	90.14225	0.00000	0.0011472	-13.546	13.512	-0.95277	d
					6.4469	156.91140	89.68290	0.00000	0.0011707	-13.824	13.790	-0.97235	d
		125	23AB-05	23AB-05	0.0	156.91140	89.68290	0.00000	0.0011707	-13.824	-0.94491	-13.792	d
					0.25352	157.16432	89.70025	0.00000	0.0011699	-13.814	-0.94419	-13.781	d
					0.50704	157.41725	89.71760	0.00000	0.0011690	-13.803	-0.94347	-13.771	d
					0.76056	157.67018	89.73495	0.00000	0.0011681	-13.793	-0.94275	-13.760	d
					1.0141	157.92310	89.75230	0.00000	0.0011672	-13.782	-0.94203	-13.750	d
		126	23AB-06	23AB-06	0.0	157.92310	89.75230	0.00000	0.0011672	-13.782	13.737	-1.1073	d
					0.45735	157.95989	89.29643	0.00000	0.0011907	-14.060	14.015	-1.1297	d
					0.91471	157.99667	88.84056	0.00000	0.0012145	-14.341	14.295	-1.1523	d
					1.3721	158.03346	88.38469	0.00000	0.0012385	-14.624	14.577	-1.1750	d
					1.8294	158.07024	87.92881	0.00000	0.0012627	-14.910	14.862	-1.1980	d
					2.2868	158.10703	87.47294	0.00000	0.0012872	-15.199	15.150	-1.2212	d
					2.7441	158.14381	87.01707	0.00000	0.0013119	-15.491	15.441	-1.2446	d
					3.2015	158.18060	86.56120	0.00000	0.0013368	-15.785	15.734	-1.2683	d
					3.6588	158.21739	86.10533	0.00000	0.0013621	-16.083	16.031	-1.2922	d
					4.1162	158.25417	85.64946	0.00000	0.0013875	-16.384	16.331	-1.3164	d
					4.5735	158.29096	85.19359	0.00000	0.0014133	-16.688	16.634	-1.3409	d
					5.0309	158.32774	84.73771	0.00000	0.0014394	-16.996	16.941	-1.3656	d
					5.4882	158.36453	84.28184	0.00000	0.0014657	-17.307	17.251	-1.3906	d
					5.9456	158.40131	83.82597	0.00000	0.0014924	-17.622	17.565	-1.4159	d
					6.4029	158.43810	83.37010	0.00000	0.0015194	-17.941	17.883	-1.4415	d
		127	23AB-07	23AB-07	0.0	158.43810	83.37010	0.00000	0.0015194	-17.941	1.4412	17.883	d
					0.41980	158.01966	83.33634	0.00000	0.0015214	-17.965	1.4431	17.907	d
					0.83960	157.60122	83.30258	0.00000	0.0015234	-17.988	1.4450	17.930	d
					1.2594	157.18277	83.26882	0.00000	0.0015254	-18.012	1.4469	17.954	d
					1.6792	156.76433	83.23507	0.00000	0.0015274	-18.036	1.4488	17.978	d
					2.0990	156.34589	83.20131	0.00000	0.0015295	-18.060	1.4508	18.001	d
					2.5188	155.92745	83.16755	0.00000	0.0015315	-18.084	1.4527	18.025	d
					2.9386	155.50901	83.13379	0.00000	0.0015335	-18.107	1.4546	18.049	d
					3.3584	155.09057	83.10003	0.00000	0.0015355	-18.131	1.4565	18.073	d
					3.7782	154.67212	83.06628	0.00000	0.0015375	-18.155	1.4584	18.097	d
					4.1980	154.25368	83.03252	0.00000	0.0015396	-18.179	1.4603	18.120	d
					4.6178	153.83524	82.99876	0.00000	0.0015416	-18.203	1.4623	18.144	d
					5.0376	153.41680	82.96500	0.00000	0.0015436	-18.227	1.4642	18.168	d
		128	23AB-08	23AB-08	0.0	153.41680	82.96500	0.00000	0.0015436	-18.227	-18.168	1.4618	d
					0.14075	153.40550	83.10530	0.00000	0.0015352	-18.128	-18.069	1.4538	d
					0.28151	153.39420	83.24560	0.00000	0.0015268	-18.028	-17.970	1.4458	d
		129	23AB-09	23AB-09	0.0	153.39420	83.24560	0.00000	0.0015268	-18.028	1.1178	17.994	d
					0.46923	152.92588	83.21647	0.00000	0.0015285	-18.049	1.1191	18.014	d
					0.93846	152.45755	83.18733	0.00000	0.0015303	-18.069	1.1204	18.035	d
					1.4077	151.98923	83.15820	0.00000	0.0015320	-18.090	1.1216	18.055	d
					1.8769	151.52090	83.12907	0.00000	0.0015338	-18.111	1.1229	18.076	d
					2.3462	151.05258	83.09993	0.00000	0.0015355	-18.131	1.1242	18.096	d
					2.8154	150.58425	83.07080	0.00000	0.0015372	-18.152	1.1255	18.117	d
					3.2846	150.11593	83.04167	0.00000	0.0015390	-18.172	1.1267	18.137	d
					3.7538	149.64760	83.01253	0.00000	0.0015407	-18.193	1.1280	18.158	d
					4.2231	149.17928	82.98340	0.00000	0.0015425	-18.214	1.1293	18.179	d
					4.6923	148.71095	82.95427	0.00000	0.0015442	-18.234	1.1306	18.199	d
					5.1615	148.24263	82.92513	0.00000	0.0015460	-18.255	1.1319	18.220	d
					5.6308	147.77430	82.89600	0.00000	0.0015478	-18.276	1.1332	18.241	d
		130	23AB-10	23AB-10	0.0	147.77430	82.89600	0.00000	0.0015478	-18.276	-18.219	1.4351	d
					0.38164	147.74430	83.27646	0.00000	0.0015249	-18.006	-17.951	1.4139	d
					0.76329	147.71430	83.65693	0.00000	0.0015023	-17.739	-17.685	1.3930	d
					1.1449	147.68430	84.03739	0.00000	0.0014799	-17.475	-17.421	1.3722	d
					1.5266	147.65430	84.41785	0.00000	0.0014578	-17.214	-17.160	1.3517	d
					1.9082	147.62430	84.79831	0.00000	0.0014358	-16.954	-16.902	1.3313	d
					2.2899	147.59430	85.17878	0.00000	0.0014141	-16.698	-16.646	1.3112	d
					2.6715	147.56430	85.55924	0.00000	0.0013926	-16.444	-16.393	1.2912	d
					3.0531	147.53430	85.93970	0.00000	0.0013712	-16.192	-16.142	1.2714	d
		131	23AB-11	23AB-11	0.0	147.53430	85.93970	0.00000	0.0013712	-16.192	-1.1061	-16.154	d
					0.46163	147.99485	85.97128	0.00000	0.0013695	-16.171	-1.1047	-16.133	d
					0.92326	148.45540	86.00285	0.00000	0.0013677	-16.150	-1.1033	-16.112	d
					1.3849	148.91595	86.03442	0.00000	0.0013660	-16.129	-1.1019	-16.092	d
					1.8465	149.37650	86.06600	0.00000	0.0013642	-16.109	-1.1004	-16.071	d
		132	23AB-12	23AB-12	0.0	149.37650	86.06600	0.00000	0.0013642	-16.109	-16.071	1.1004	d
					0.47810	149.34380	86.54298	0.00000	0.0013378	-15.797	-15.760	1.0791	d
					0.95621	149.31110	87.01997	0.00000	0.0013117	-15.488	-15.452	1.0580	d
					1.4343	149.27840	87.49695	0.00000	0.0012859	-15.183	-15.148	1.0372	d
					1.9124	149.24570	87.97393	0.00000	0.0012603	-14.881	-14.847	1.0166	d
					2.3905	149.21300	88.45092	0.00000	0.0012350	-14.583	-14.549	0.99615	d
					2.8686	149.18030	88.92790	0.00000	0.0012099	-14.287	-14.253	0.97593	d
		133	23AB-13	23AB-13	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	1.2452	14.232	d
					0.25818	148.92310	88.90537	0.00000	0.0012111	-14.301	1.2464	14.246	d
					0.51637	148.66590	88.88285	0.00000	0.0012123	-14.314	1.2476	14.260	d
					0.77455	148.40870	88.86033	0.00000	0.0012134	-14.328	1.2489	14.274	d
					1.0327	148.15150	88.83780	0.00000	0.0012146	-14.342	1.2501	14.288	d
		134	23AB-14	23AB-14	0.0	148.15150	88.83780	0.00000	0.0012146	-14.342	-14.307	0.99956	d
					0.46157	148.11929	89.29824	0.00000	0.0011906	-14.059	-14.025	0.97980	d
					0.92314	148.08709	89.75869	0.00000	0.0011668	-13.778	-13.744	0.96021	d
					1.3847	148.05488	90.21913	0.00000	0.0011432	-13.499	-13.466	0.94079	d
					1.8463	148.02267	90.67957	0.00000	0.0011198	-13.223	-13.191	0.92153	d
					2.3078	147.99046	91.14001	0.00000	0.0010966	-12.949	-12.917	0.90243	d
					2.7694	147.95826	91.60046	0.00000	0.0010735	-12.676	-12.646	0.88346	d
					3.2310	147.92605	92.06090	0.00000	0.0010507	-12.406	-12.376	0.86464	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					3.6925	147.89384	92.52134	0.00000	0.0010280	-12.138	-12.109	0.84594	d
					4.1541	147.86164	92.98179	0.00000	0.0010054	-11.871	-11.843	0.82736	d
					4.6157	147.82943	93.44223	0.00000	982.94E-6	-11.607	-11.578	0.80890	d
					5.0772	147.79722	93.90267	0.00000	960.63E-6	-11.343	-11.316	0.79054	d
					5.5388	147.76501	94.36311	0.00000	938.44E-6	-11.081	-11.054	0.77228	d
					6.0004	147.73281	94.82356	0.00000	916.37E-6	-10.820	-10.794	0.75411	d
					6.4620	147.70060	95.28400	0.00000	894.39E-6	-10.561	-10.535	0.73602	d
		135	23AB-15	23AB-15	0.0	149.18030	88.92790	0.00000	0.0012099	-14.287	-1.3892	-14.219	d
					0.48350	149.66150	88.97496	0.00000	0.0012075	-14.258	-1.3864	-14.190	d
					0.96699	150.14270	89.02201	0.00000	0.0012050	-14.229	-1.3836	-14.161	d
					1.4505	150.62390	89.06907	0.00000	0.0012025	-14.200	-1.3808	-14.132	d
					1.9340	151.10510	89.11612	0.00000	0.0012001	-14.171	-1.3780	-14.104	d
					2.4175	151.58630	89.16318	0.00000	0.0011976	-14.142	-1.3752	-14.075	d
					2.9010	152.06750	89.21024	0.00000	0.0011952	-14.113	-1.3724	-14.046	d
					3.3845	152.54870	89.25729	0.00000	0.0011928	-14.084	-1.3695	-14.017	d
					3.8680	153.02990	89.30435	0.00000	0.0011903	-14.055	-1.3667	-13.989	d
					4.3515	153.51110	89.35141	0.00000	0.0011879	-14.026	-1.3639	-13.960	d
					4.8350	153.99230	89.39846	0.00000	0.0011854	-13.998	-1.3611	-13.931	d
					5.3184	154.47350	89.44552	0.00000	0.0011830	-13.969	-1.3583	-13.903	d
					5.8019	154.95470	89.49258	0.00000	0.0011806	-13.940	-1.3556	-13.874	d
					6.2854	155.43590	89.53963	0.00000	0.0011781	-13.911	-1.3528	-13.846	d
					6.7689	155.91710	89.58669	0.00000	0.0011757	-13.883	-1.3500	-13.817	d
					7.2524	156.39830	89.63374	0.00000	0.0011733	-13.854	-1.3472	-13.788	d
					7.7359	156.87950	89.68080	0.00000	0.0011709	-13.825	-1.3444	-13.760	d
		136	28K-01	28K-01	0.0	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0	d
					0.46362	157.45751	132.74754	0.00000	0.0	0.0	0.0	0.0	d
					0.92724	157.87132	132.53848	0.00000	0.0	0.0	0.0	0.0	d
					1.3909	158.28512	132.32941	0.00000	0.0	0.0	0.0	0.0	d
					1.8545	158.69893	132.12035	0.00000	0.0	0.0	0.0	0.0	d
					2.3181	159.11274	131.91129	0.00000	0.0	0.0	0.0	0.0	d
					2.7817	159.52655	131.70222	0.00000	0.0	0.0	0.0	0.0	d
					3.2453	159.94036	131.49316	0.00000	0.0	0.0	0.0	0.0	d
					3.7090	160.35417	131.28410	0.00000	0.0	0.0	0.0	0.0	d
					4.1726	160.76798	131.07504	0.00000	0.0	0.0	0.0	0.0	d
					4.6362	161.18178	130.86597	0.00000	0.0	0.0	0.0	0.0	d
					5.0998	161.59559	130.65691	0.00000	0.0	0.0	0.0	0.0	d
					5.5635	162.00940	130.44785	0.00000	0.0	0.0	0.0	0.0	d
					6.0271	162.42321	130.23879	0.00000	0.0	0.0	0.0	0.0	d
					6.4907	162.83702	130.02973	0.00000	0.0	0.0	0.0	0.0	d
					6.9543	163.25082	129.82066	0.00000	0.0	0.0	0.0	0.0	d
					7.4179	163.66463	129.61160	0.00000	0.0	0.0	0.0	0.0	d
					7.8816	164.07844	129.40254	0.00000	0.0	0.0	0.0	0.0	d
					8.3452	164.49225	129.19348	0.00000	0.0	0.0	0.0	0.0	d
					8.8088	164.90606	128.98441	0.00000	0.0	0.0	0.0	0.0	d
					9.2724	165.31987	128.77535	0.00000	0.0	0.0	0.0	0.0	d
					9.7360	165.73368	128.56629	0.00000	0.0	0.0	0.0	0.0	d
					10.200	166.14748	128.35722	0.00000	0.0	0.0	0.0	0.0	d
					10.663	166.56129	128.14816	0.00000	0.0	0.0	0.0	0.0	d
					11.127	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0	d
		137	28K-02	28K-02	0.0	166.97510	127.93910	0.00000	0.0	0.0	0.0	0.0	d
					0.46979	166.97510	127.46931	0.00000	0.0	0.0	0.0	0.0	d
					0.93957	166.97510	126.99953	0.00000	0.0	0.0	0.0	0.0	d
					1.4094	166.97510	126.52974	0.00000	0.0	0.0	0.0	0.0	d
					1.8791	166.97510	126.05995	0.00000	0.0	0.0	0.0	0.0	d
					2.3489	166.97510	125.59016	0.00000	0.0	0.0	0.0	0.0	d
					2.8187	166.97510	125.12037	0.00000	0.0	0.0	0.0	0.0	d
					3.2885	166.97510	124.65059	0.00000	0.0	0.0	0.0	0.0	d
					3.7583	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0	d
		138	28K-03	28K-03	0.0	166.97510	124.18080	0.00000	0.0	0.0	0.0	0.0	d
					0.49736	166.75082	123.73688	0.00000	0.0	0.0	0.0	0.0	d
					0.99472	166.52654	123.29296	0.00000	0.0	0.0	0.0	0.0	d
					1.4921	166.30227	122.84903	0.00000	0.0	0.0	0.0	0.0	d
					1.9894	166.07799	122.40511	0.00000	0.0	0.0	0.0	0.0	d
					2.4868	165.85371	121.96119	0.00000	0.0	0.0	0.0	0.0	d
					2.9842	165.62943	121.51727	0.00000	0.0	0.0	0.0	0.0	d
					3.4815	165.40516	121.07334	0.00000	6.6222E-6	-0.078195	0.069791	0.035267	d
					3.9789	165.18088	120.62942	0.00000	20.720E-6	-0.24466	0.21836	0.11034	d
					4.4762	164.95660	120.18550	0.00000	34.817E-6	-0.41112	0.36693	0.18542	d
					4.9736	164.73232	119.74158	0.00000	48.914E-6	-0.57758	0.51550	0.26050	d
					5.4710	164.50804	119.29766	0.00000	63.012E-6	-0.74404	0.66407	0.33557	d
					5.9683	164.28377	118.85373	0.00000	77.109E-6	-0.91050	0.81264	0.41065	d
					6.4657	164.05949	118.40981	0.00000	91.206E-6	-1.0770	0.96121	0.48572	d
					6.9630	163.83521	117.96589	0.00000	105.30E-6	-1.2434	1.1098	0.56080	d
					7.4604	163.61093	117.52197	0.00000	119.40E-6	-1.4099	1.2584	0.63588	d
					7.9578	163.38666	117.07804	0.00000	133.50E-6	-1.5764	1.4069	0.71095	d
					8.4551	163.16238	116.63412	0.00000	147.60E-6	-1.7428	1.5555	0.78603	d
					8.9525	162.93810	116.19020	0.00000	161.69E-6	-1.9093	1.7041	0.86111	d
		139	28K-04	28K-04	0.0	162.93810	116.19020	0.00000	161.69E-6	-1.9093	-0.83319	1.7179	d
					0.48162	162.50474	116.40034	0.00000	155.02E-6	-1.8305	-0.79880	1.6470	d
					0.96323	162.07139	116.61048	0.00000	148.34E-6	-1.7516	-0.76441	1.5761	d
					1.4449	161.63803	116.82061	0.00000	141.67E-6	-1.6728	-0.73001	1.5051	d
					1.9265	161.20468	117.03075	0.00000	134.99E-6	-1.5940	-0.69562	1.4342	d
					2.4081	160.77132	117.24089	0.00000	128.32E-6	-1.5152	-0.66122	1.3633	d
					2.8897	160.33796	117.45103	0.00000	121.65E-6	-1.4364	-0.62683	1.2924	d
					3.3713	159.90461	117.66116	0.00000	114.97E-6	-1.3576	-0.59244	1.2215	d
					3.8529	159.47125	117.87130	0.00000	108.30E-6	-1.2788	-0.55804	1.1506	d
					4.3346	159.03789	118.08144	0.00000	101.62E-6	-1.1999	-0.52365	1.0797	d
					4.8162	158.60454	118.29158	0.00000	94.947E-6	-1.1211	-0.48925	1.0087	d
					5.2978	158.17118	118.50171	0.00000	88.272E-6	-1.0423	-0.45486	0.93783	d
					5.7794	157.73782	118.71185	0.00000	81.598E-6	-0.96351	-0.42047	0.86692	d
					6.2610	157.30447	118.92199	0.00000	74.923E-6	-0.88469	-0.38607	0.79601	d
					6.7426	156.87111	119.13213	0.00000	68.248E-6	-0.80588	-0.35168	0.72509	d
					7.2243	156.43776	119.34226	0.00000	61.574E-6	-0.72706	-0.31728	0.65418	d
					7.7059	156.00440	119.55240	0.00000	54.899E-6	-0.64825	-0.28289	0.58326	d
		140	28K-05	28K-05	0.0	156.00440	119.55240	0.00000	54.899E-6	-0.64825	-0.58189	-0.28572	d
					0.45854	156.20647	119.96402	0.00000	41.827E-6	-0.49390	-0.44334	-0.21769	d
					0.91709	156.40854	120.37564	0.00000	28.756E-6	-0.33955	-0.30479	-0.14966	d
					1.3756	156.61061	120.78726	0.00000	15.684E-6	-0.18520	-0.16624	-0.081627	d
					1.8342	156.81268	121.19888	0.00000	2.6125E-6	-0.030849	-0.027691	-0.013597	d
					2.2927	157.01474	121.61049	0.00000	0.0	0.0	0.0	0.0	d
					2.7513	157.21681	122.02211	0.00000	0.0	0.0	0.0	0.0	d
					3.2098	157.41888	122.43373	0.00000	0.0	0.0	0.0	0.0	d
					3.6683	157.62095	122.84535	0.00000	0.0	0.0	0.0	0.0	d
					4.1269	157.82302	123.25697	0.00000	0.0	0.0	0.0	0.0	d
					4.5854	158.02509	123.66859	0.00000	0.0	0.0	0.0	0.0	d
					5.0440	158.22716	124.08021	0.00000	0.0	0.0	0.0	0.0	d
					5.5025	158.42923	124.49183	0.00000	0.0	0.0	0.0	0.0	d
					5.9611	158.63129	124.90344	0.00000	0.0	0.0	0.0	0.0	d
					6.4196	158.83336	125.31506	0.00000	0.0	0.0	0.0	0.0	d
					6.8781	159.03543	125.72668	0.00000	0.0	0.0	0.0	0.0	d
					7.3367	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0	d
		141	28K-06	28K-06	0.0	159.23750	126.13830	0.00000	0.0	0.0	0.0	0.0	d
					0.49484	158.79330	126.35637	0.00000	0.0	0.0	0.0	0.0	d
					0.98968	158.34910	126.57444	0.00000	0.0	0.0	0.0	0.0	d
					1.4845	157.90490	126.79251	0.00000	0.0	0.0	0.0	0.0	d
					1.9794	157.46070	127.01058	0.00000	0.0	0.0	0.0	0.0	d
					2.4742	157.01650	127.22865	0.00000	0.0	0.0	0.0	0.0	d
					2.9690	156.57230	127.44672	0.00000	0.0	0.0	0.0	0.0	d
					3.4639	156.12810	127.66479	0.00000	0.0	0.0	0.0	0.0	d
					3.9587	155.68390	127.88286	0.00000	0.0	0.0	0.0	0.0	d
					4.4536	155.23970	128.10093	0.00000	0.0	0.0	0.0	0.0	d
					4.9484	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0	d
		142	28K-07	28K-07	0.0	154.79550	128.31900	0.00000	0.0	0.0	0.0	0.0	d
					0.42948	154.98285	128.70547	0.00000	0.0	0.0	0.0	0.0	d
					0.85897	155.17020	129.09193	0.00000	0.0	0.0	0.0	0.0	d
					1.2885	155.35755	129.47840	0.00000	0.0	0.0	0.0	0.0	d
					1.7179	155.54490	129.86487	0.00000	0.0	0.0	0.0	0.0	d
					2.1474	155.73225	130.25133	0.00000	0.0	0.0	0.0	0.0	d
					2.5769	155.91960	130.63780	0.00000	0.0	0.0	0.0	0.0	d
					3.0064	156.10695	131.02427	0.00000	0.0	0.0	0.0	0.0	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist. [m]	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δH// [mm]	δHperp. [mm]	
					3.4359	156.29430	131.41073	0.00000	0.0	0.0	0.0	0.0	d
					3.8654	156.48165	131.79720	0.00000	0.0	0.0	0.0	0.0	d
					4.2948	156.66900	132.18367	0.00000	0.0	0.0	0.0	0.0	d
					4.7243	156.85635	132.57013	0.00000	0.0	0.0	0.0	0.0	d
					5.1538	157.04370	132.95660	0.00000	0.0	0.0	0.0	0.0	d

d - Displacements include imported displacements.

Specific Building Damage Results - Vertical Displacements

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
0	Base Model	1	16S-01	16S-01	0.0	0.0	86.49970	85.17730	0.00000	8.9620	d
						0.42983	86.26439	84.81760	0.00000	9.0843	d
						0.85967	86.02907	84.45790	0.00000	9.2119	d
						1.2895	85.79376	84.09820	0.00000	9.3450	d
						1.7193	85.55844	83.73850	0.00000	9.4838	d
						2.1492	85.32313	83.37880	0.00000	9.6284	d
						2.5790	85.08781	83.01910	0.00000	9.7787	d
						3.0088	84.85250	82.65940	0.00000	9.9350	d
						3.4387	84.61719	82.29970	0.00000	10.097	d
						3.8685	84.38187	81.94000	0.00000	10.265	d
						4.2983	84.14656	81.58030	0.00000	10.439	d
						4.7282	83.91124	81.22060	0.00000	10.618	d
						5.1580	83.67593	80.86090	0.00000	10.803	d
						5.5878	83.44061	80.50120	0.00000	10.992	d
						6.0177	83.20530	80.14150	0.00000	11.147	d
		2	16S-02	16S-02	0.0	0.0	83.20530	80.14150	0.00000	11.147	d
						0.47059	82.73566	80.17139	0.00000	11.073	d
						0.94119	82.26601	80.20129	0.00000	10.999	d
						1.4118	81.79637	80.23118	0.00000	10.922	d
						1.8824	81.32673	80.26107	0.00000	10.839	d
						2.3530	80.85709	80.29096	0.00000	10.746	d
						2.8236	80.38744	80.32086	0.00000	10.640	d
						3.2942	79.91780	80.35075	0.00000	10.509	d
						3.7647	79.44816	80.38064	0.00000	10.358	d
						4.2353	78.97851	80.41054	0.00000	10.182	d
						4.7059	78.50887	80.44043	0.00000	9.9633	d
						5.1765	78.03923	80.47032	0.00000	9.6916	d
						5.6471	77.56959	80.50021	0.00000	9.3448	d
						6.1177	77.09994	80.53011	0.00000	8.8579	d
						6.5883	76.63030	80.56000	0.00000	7.8985	d
		3	16S-03	16S-03	0.0	0.0	76.63030	80.56000	0.00000	7.8985	d
						0.46710	76.20712	80.75773	0.00000	7.2060	d
						0.93420	75.78393	80.95547	0.00000	7.0108	d
						1.4013	75.36075	81.15320	0.00000	6.8217	d
						1.8684	74.93757	81.35093	0.00000	6.6382	d
						2.3355	74.51438	81.54867	0.00000	6.4601	d
						2.8026	74.09120	81.74640	0.00000	6.2870	d
		4	16S-04	16S-04	0.0	0.0	74.09120	81.74640	0.00000	6.2870	d
						0.47964	74.36064	82.14321	0.00000	6.2076	d
						0.95928	74.63009	82.54001	0.00000	6.1306	d
						1.4389	74.89953	82.93682	0.00000	6.0555	d
						1.9186	75.16898	83.33362	0.00000	5.9819	d
						2.3982	75.43842	83.73043	0.00000	5.9092	d
						2.8778	75.70786	84.12724	0.00000	5.8371	d
						3.3575	75.97731	84.52404	0.00000	6.0400	d
						3.8371	76.24675	84.92085	0.00000	5.9560	d
						4.3168	76.51619	85.31766	0.00000	5.8715	d
						4.7964	76.78564	85.71446	0.00000	5.7861	d
						5.2760	77.05508	86.11127	0.00000	5.6981	d
						5.7557	77.32452	86.50807	0.00000	5.6081	d
						6.2353	77.59397	86.90488	0.00000	5.5169	d
						6.7150	77.86341	87.30169	0.00000	5.4523	d
						7.1946	78.13286	87.69849	0.00000	5.3816	d
						7.6743	78.40230	88.09530	0.00000	5.2985	d
		5	16S-05	16S-05	0.0	0.0	78.40230	88.09530	0.00000	5.2985	d
						0.49531	78.88938	88.18518	0.00000	5.2860	d
						0.99061	79.37647	88.27507	0.00000	5.3119	d
						1.4859	79.86355	88.36495	0.00000	5.3851	d
						1.9812	80.35063	88.45483	0.00000	5.4508	d
						2.4765	80.83772	88.54472	0.00000	5.5093	d
						2.9718	81.32480	88.63460	0.00000	5.5606	d
		6	16S-06	16S-06	0.0	0.0	81.32480	88.63460	0.00000	5.5606	d
						0.44454	81.69444	88.38765	0.00000	5.7455	d
						0.88908	82.06407	88.14070	0.00000	5.9336	d
						1.3336	82.43371	87.89375	0.00000	6.1695	d
						1.7782	82.80334	87.64680	0.00000	6.4079	d
						2.2227	83.17298	87.39985	0.00000	6.6484	d
						2.6672	83.54261	87.15290	0.00000	6.8908	d
						3.1118	83.91225	86.90595	0.00000	7.1352	d
						3.5563	84.28189	86.65900	0.00000	7.3881	d
						4.0009	84.65152	86.41205	0.00000	7.6505	d
						4.4454	85.02116	86.16510	0.00000	7.9135	d
						4.8899	85.39079	85.91815	0.00000	8.1756	d
						5.3345	85.76043	85.67120	0.00000	8.4363	d
						5.7790	86.13006	85.42425	0.00000	8.6982	d
						6.2235	86.49970	85.17730	0.00000	8.9620	d
		7	BS-01	BS-01	0.0	0.0	41.07740	85.19800	0.00000	7.3841	d
						0.49919	41.54492	85.02303	0.00000	7.8874	d
						0.99838	42.01244	84.84806	0.00000	8.4419	d
						1.4976	42.47996	84.67309	0.00000	9.0600	d
						1.9968	42.94748	84.49812	0.00000	9.7616	d
						2.4959	43.41500	84.32315	0.00000	10.576	d
						2.9951	43.88252	84.14818	0.00000	11.545	d
						3.4943	44.35003	83.97322	0.00000	12.872	d
						3.9935	44.81755	83.79825	0.00000	13.868	d
						4.4927	45.28507	83.62328	0.00000	14.652	d
						4.9919	45.75259	83.44831	0.00000	15.271	d
						5.4911	46.22011	83.27334	0.00000	15.758	d
						5.9903	46.68763	83.09837	0.00000	16.138	d
						6.4894	47.15515	82.92340	0.00000	16.426	d
						6.9886	47.62267	82.74843	0.00000	16.634	d
						7.4878	48.09019	82.57346	0.00000	16.790	d
						7.9870	48.55771	82.39849	0.00000	16.908	d
						8.4862	49.02523	82.22352	0.00000	16.769	d
						8.9854	49.49275	82.04855	0.00000	16.568	d
						9.4846	49.96027	81.87358	0.00000	16.294	d
						9.9838	50.42778	81.69862	0.00000	15.922	d
						10.483	50.89530	81.52365	0.00000	15.420	d
						10.982	51.36282	81.34868	0.00000	14.751	d
						11.481	51.83034	81.17371	0.00000	13.880	d
						11.981	52.29786	80.99874	0.00000	12.659	d
						12.480	52.76538	80.82377	0.00000	15.056	d
						12.979	53.23290	80.64880	0.00000	14.399	d
		8	BS-02	BS-02	0.0	0.0	53.23290	80.64880	0.00000	14.399	d
						0.49133	53.06007	80.18887	0.00000	13.855	d
						0.98267	52.88724	79.72893	0.00000	13.269	d
						1.4740	52.71441	79.26900	0.00000	12.657	d
						1.9653	52.54158	78.80906	0.00000	12.037	d
						2.4567	52.36875	78.34913	0.00000	11.426	d
						2.9480	52.19592	77.88920	0.00000	10.832	d
						3.4393	52.02309	77.42926	0.00000	10.261	d
						3.9307	51.85025	76.96933	0.00000	9.7143	d
						4.4220	51.67742	76.50940	0.00000	9.1905	d
						4.9133	51.50459	76.04946	0.00000	8.6862	d
						5.4047	51.33176	75.58953	0.00000	8.2003	d
						5.8960	51.15893	75.12959	0.00000	7.7335	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						6.3873	50.98610	74.66966	0.00000	7.2840	d
						6.8787	50.81327	74.20973	0.00000	6.8502	d
						7.3700	50.64044	73.74979	0.00000	6.4296	d
						7.8614	50.46761	73.28986	0.00000	6.0205	d
						8.3527	50.29478	72.82992	0.00000	5.6211	d
						8.8440	50.12195	72.36999	0.00000	5.2289	d
						9.3354	49.94912	71.91006	0.00000	4.8412	d
						9.8267	49.77629	71.45012	0.00000	4.5638	d
						10.318	49.60346	70.99019	0.00000	4.3269	d
						10.809	49.43063	70.53025	0.00000	4.1018	d
						11.301	49.25780	70.07032	0.00000	3.8884	d
						11.792	49.08496	69.61039	0.00000	3.6867	d
						12.283	48.91213	69.15045	0.00000	3.4963	d
						12.775	48.73930	68.69052	0.00000	3.3164	d
						13.266	48.56647	68.23059	0.00000	3.1418	d
						13.757	48.39364	67.77065	0.00000	2.9707	d
						14.249	48.22081	67.31072	0.00000	2.8023	d
						14.740	48.04798	66.85078	0.00000	2.6359	d
						15.231	47.87515	66.39085	0.00000	2.4702	d
						15.723	47.70232	65.93092	0.00000	2.3084	d
						16.214	47.52949	65.47098	0.00000	2.1457	d
						16.705	47.35666	65.01105	0.00000	1.9794	d
						17.197	47.18383	64.55111	0.00000	1.8077	d
						17.688	47.01100	64.09118	0.00000	1.6290	d
						18.179	46.83817	63.63125	0.00000	1.4885	d
						18.671	46.66534	63.17131	0.00000	1.4232	d
						19.162	46.49250	62.71138	0.00000	1.3597	d
						19.653	46.31967	62.25145	0.00000	1.2978	d
						20.145	46.14684	61.79151	0.00000	1.2375	d
						20.636	45.97401	61.33158	0.00000	1.1787	d
						21.127	45.80118	60.87164	0.00000	1.1213	d
						21.619	45.62835	60.41171	0.00000	1.0652	d
						22.110	45.45552	59.95178	0.00000	1.0105	d
						22.601	45.28269	59.49184	0.00000	0.95458	d
						23.093	45.10986	59.03191	0.00000	0.89659	d
						23.584	44.93703	58.57197	0.00000	0.84029	d
						24.075	44.76420	58.11204	0.00000	0.78549	d
						24.567	44.59137	57.65211	0.00000	0.73204	d
						25.058	44.41854	57.19217	0.00000	0.67976	d
						25.549	44.24571	56.73224	0.00000	0.62853	d
						26.041	44.07288	56.27230	0.00000	0.57820	d
						26.532	43.90005	55.81237	0.00000	0.52864	d
						27.023	43.72721	55.35244	0.00000	0.48065	d
						27.515	43.55438	54.89250	0.00000	0.43106	d
						28.006	43.38155	54.43257	0.00000	0.37904	d
						28.497	43.20872	53.97264	0.00000	0.32446	d
						28.989	43.03589	53.51270	0.00000	0.26715	d
						29.480	42.86306	53.05277	0.00000	0.20685	d
						29.971	42.69023	52.59283	0.00000	0.14328	d
						30.463	42.51740	52.13290	0.00000	0.075813	d
	9	BS-03	BS-03		0.0	0.0	42.51740	52.13290	0.00000	0.075813	d
						0.17272	42.34490	52.12415	0.00000	0.074360	d
						0.34544	42.17240	52.11540	0.00000	0.072928	d
	10	BS-04	BS-04		0.0	0.0	42.17240	52.11540	0.00000	0.072928	d
						0.48678	41.96133	51.67676	0.00000	0.067938	d
						0.97357	41.75025	51.23812	0.00000	0.063157	d
						1.4604	41.53918	50.79948	0.00000	0.058577	d
						1.9471	41.32810	50.36083	0.00000	0.054191	d
						2.4339	41.11702	49.92219	0.00000	0.049990	d
						2.9207	40.90595	49.48355	0.00000	0.045966	d
						3.4075	40.69488	49.04491	0.00000	0.042114	d
						3.8943	40.48380	48.60627	0.00000	0.038425	d
						4.3811	40.27273	48.16763	0.00000	0.034894	d
						4.8678	40.06165	47.72898	0.00000	0.031515	d
						5.3546	39.85057	47.29034	0.00000	0.028280	d
						5.8414	39.63950	46.85170	0.00000	0.025185	d
	11	BS-05	BS-05		0.0	0.0	39.63950	46.85170	0.00000	0.025185	d
						0.41953	39.22713	46.92883	0.00000	0.023730	d
						0.83905	38.81475	47.00595	0.00000	0.022316	d
						1.2586	38.40237	47.08308	0.00000	0.020939	d
						1.6781	37.99000	47.16020	0.00000	0.019600	d
	12	BS-06	BS-06		0.0	0.0	37.99000	47.16020	0.00000	0.019600	d
						0.40368	37.62248	47.32718	0.00000	0.018855	d
						0.80735	37.25495	47.49415	0.00000	0.018123	d
						1.2110	36.88743	47.66112	0.00000	0.017404	d
						1.6147	36.51990	47.82810	0.00000	0.016698	d
	13	BS-07	BS-07		0.0	0.0	36.51990	47.82810	0.00000	0.016698	d
						0.38860	36.26713	48.12325	0.00000	0.016955	d
						0.77720	36.01435	48.41840	0.00000	0.017212	d
						1.1658	35.76158	48.71355	0.00000	0.017470	d
						1.5544	35.50880	49.00870	0.00000	0.017728	d
						1.9430	35.25603	49.30385	0.00000	0.017988	d
						2.3316	35.00325	49.59900	0.00000	0.018248	d
						2.7202	34.75048	49.89415	0.00000	0.018508	d
						3.1088	34.49770	50.18930	0.00000	0.018769	d
	14	BS-08	BS-08		0.0	0.0	34.49770	50.18930	0.00000	0.018769	d
						0.43736	34.10253	50.37673	0.00000	0.018036	d
						0.87473	33.70737	50.56417	0.00000	0.017314	d
						1.3121	33.31220	50.75160	0.00000	0.016602	d
						1.7495	32.91703	50.93903	0.00000	0.015900	d
						2.1868	32.52187	51.12647	0.00000	0.015207	d
						2.6242	32.12670	51.31390	0.00000	0.014522	d
	15	BS-09	BS-09		0.0	0.0	32.12670	51.31390	0.00000	0.014522	d
						0.48956	32.31482	51.76587	0.00000	0.016983	d
						0.97913	32.50295	52.21785	0.00000	0.019559	d
						1.4687	32.69107	52.66983	0.00000	0.022255	d
						1.9583	32.87920	53.12180	0.00000	0.025078	d
	16	BS-10	BS-10		0.0	0.0	32.87920	53.12180	0.00000	0.025078	d
						0.40664	32.49437	53.25320	0.00000	0.024043	d
						0.81328	32.10955	53.38460	0.00000	0.023024	d
						1.2199	31.72472	53.51600	0.00000	0.022019	d
						1.6266	31.33990	53.64740	0.00000	0.021029	d
	17	BS-11	BS-11		0.0	0.0	31.33990	53.64740	0.00000	0.021029	d
						0.25067	31.26590	53.40790	0.00000	0.019720	d
						0.50134	31.19190	53.16840	0.00000	0.018440	d
	18	BS-12	BS-12		0.0	0.0	31.19190	53.16840	0.00000	0.018440	d
						0.39957	30.82340	53.32289	0.00000	0.017664	d
						0.79915	30.45490	53.47737	0.00000	0.016897	d
						1.1987	30.08640	53.63186	0.00000	0.016137	d
						1.5983	29.71790	53.78635	0.00000	0.015385	d
						1.9979	29.34940	53.94084	0.00000	0.014640	d
						2.3974	28.98090	54.09533	0.00000	0.013902	d
						2.7970	28.61240	54.24981	0.00000	0.013171	d
						3.1966	28.24390	54.40430	0.00000	0.012447	d
	19	BS-13	BS-13		0.0	0.0	28.24390	54.40430	0.00000	0.012447	d
						0.44360	28.40681	54.81690	0.00000	0.014531	d
						0.88720	28.56972	55.22950	0.00000	0.016704	d
						1.3308	28.73264	55.64210	0.00000	0.018971	d
						1.7744	28.89555	56.05470	0.00000	0.021336	d
						2.2180	29.05846	56.46730	0.00000	0.023803	d
						2.6616	29.22138	56.87990	0.00000	0.026378	d
						3.1052	29.38429	57.29250	0.00000	0.029065	d
						3.5488	29.54720	57.70510	0.00000	0.031870	d
	20	BS-14	BS-14		0.0	0.0	29.54720	57.70510	0.00000	0.031870	d
						0.41644	29.93258	57.54730	0.00000	0.032986	d
						0.83288	30.31797	57.38950	0.00000	0.034111	d
						1.2493	30.70335	57.23170	0.00000	0.035243	d
						1.6658	31.08873	57.07390	0.00000	0.036383	d
						2.0822	31.47412	56.91610	0.00000	0.037532	d
						2.4986	31.85950	56.75830	0.00000	0.038690	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
		21	BS-15	BS-15	0.0	0.0	31.85950	56.75830	0.00000	0.038690	d
						0.49971	32.03411	57.22651	0.00000	0.042318	d
						0.99942	32.20873	57.69472	0.00000	0.046127	d
						1.4991	32.38334	58.16294	0.00000	0.050126	d
						1.9988	32.55796	58.63115	0.00000	0.054325	d
						2.4986	32.73257	59.09936	0.00000	0.058738	d
						2.9983	32.90719	59.56757	0.00000	0.063377	d
						3.4980	33.08180	60.03578	0.00000	0.068255	d
						3.9977	33.25642	60.50399	0.00000	0.073388	d
						4.4974	33.43103	60.97221	0.00000	0.078790	d
						4.9971	33.60565	61.44042	0.00000	0.084480	d
						5.4968	33.78026	61.90863	0.00000	0.090477	d
						5.9965	33.95488	62.37684	0.00000	0.096800	d
						6.4963	34.12949	62.84505	0.00000	0.10347	d
						6.9960	34.30411	63.31326	0.00000	0.11052	d
						7.4957	34.47872	63.78148	0.00000	0.11796	d
						7.9954	34.65334	64.24969	0.00000	0.12583	d
						8.4951	34.82795	64.71790	0.00000	0.13415	d
						8.9948	35.00256	65.18611	0.00000	0.14297	d
						9.4945	35.17718	65.65432	0.00000	0.15232	d
						9.9942	35.35179	66.12254	0.00000	0.16224	d
						10.494	35.52641	66.59075	0.00000	0.17277	d
						10.994	35.70102	67.05896	0.00000	0.18396	d
						11.493	35.87564	67.52717	0.00000	0.19587	d
						11.993	36.05025	67.99538	0.00000	0.20856	d
						12.493	36.22487	68.46359	0.00000	0.22209	d
						12.993	36.39948	68.93181	0.00000	0.23653	d
						13.492	36.57410	69.40002	0.00000	0.31857	d
						13.992	36.74871	69.86823	0.00000	0.45310	d
						14.492	36.92333	70.33644	0.00000	0.58439	d
						14.991	37.09794	70.80465	0.00000	0.71483	d
						15.491	37.27256	71.27286	0.00000	0.84657	d
						15.991	37.44717	71.74108	0.00000	0.98160	d
						16.491	37.62179	72.20929	0.00000	1.1217	d
						16.990	37.79640	72.67750	0.00000	1.2685	d
		22	BS-16	BS-16	0.0	0.0	37.79640	72.67750	0.00000	1.2685	d
						0.49570	37.93699	73.15284	0.00000	1.4192	d
						0.99139	38.07758	73.62818	0.00000	1.5784	d
						1.4871	38.21817	74.10352	0.00000	1.7470	d
						1.9828	38.35876	74.57886	0.00000	1.9256	d
						2.4785	38.49935	75.05420	0.00000	2.1149	d
						2.9742	38.63994	75.52954	0.00000	2.3150	d
						3.4699	38.78053	76.00488	0.00000	2.5262	d
						3.9656	38.92112	76.48022	0.00000	2.7484	d
						4.4613	39.06171	76.95556	0.00000	2.9815	d
						4.9570	39.20230	77.43090	0.00000	3.2252	d
		23	BS-17	BS-17	0.0	0.0	39.20230	77.43090	0.00000	3.2252	d
						0.40858	38.81835	77.57060	0.00000	3.1423	d
						0.81715	38.43440	77.71030	0.00000	3.0554	d
		24	BS-18	BS-18	0.0	0.0	38.43440	77.71030	0.00000	3.0554	d
						0.49628	38.59959	78.17828	0.00000	3.2975	d
						0.99256	38.76478	78.64626	0.00000	3.5487	d
						1.4888	38.92996	79.11424	0.00000	3.8081	d
						1.9851	39.09515	79.58222	0.00000	4.0750	d
						2.4814	39.26034	80.05021	0.00000	4.3484	d
						2.9777	39.42552	80.51819	0.00000	4.6272	d
						3.4740	39.59071	80.98617	0.00000	4.9103	d
						3.9702	39.75590	81.45415	0.00000	5.1963	d
						4.4665	39.92109	81.92213	0.00000	5.4837	d
						4.9628	40.08628	82.39011	0.00000	5.7707	d
						5.4591	40.25146	82.85809	0.00000	6.0554	d
						5.9554	40.41665	83.32608	0.00000	6.3359	d
						6.4516	40.58184	83.79406	0.00000	6.6100	d
						6.9479	40.74702	84.26204	0.00000	6.8764	d
						7.4442	40.91221	84.73002	0.00000	7.1343	d
						7.9405	41.07740	85.19800	0.00000	7.3841	d
		25	SB-01	SB-01	0.0	0.0	80.55960	128.61410	0.00000	-0.019602	d
						0.28479	80.70318	128.86005	0.00000	-0.020509	d
						0.56958	80.84675	129.10600	0.00000	-0.021391	d
						0.85437	80.99032	129.35195	0.00000	-0.022248	d
						1.1392	81.13390	129.59790	0.00000	-0.023079	d
		26	SB-02	SB-02	0.0	0.0	81.13390	129.59790	0.00000	-0.023079	d
						0.46930	81.53432	129.35316	0.00000	-0.023097	d
						0.93860	81.93475	129.10841	0.00000	-0.023108	d
						1.4079	82.33517	128.86366	0.00000	-0.023111	d
						1.8772	82.73560	128.61892	0.00000	-0.023105	d
						2.3465	83.13602	128.37418	0.00000	-0.023089	d
						2.8158	83.53645	128.12943	0.00000	-0.023062	d
						3.2851	83.93688	127.88469	0.00000	-0.023023	d
						3.7544	84.33730	127.63994	0.00000	-0.022970	d
						4.2237	84.73772	127.39520	0.00000	-0.022903	d
						4.6930	85.13815	127.15045	0.00000	-0.022820	d
						5.1623	85.53857	126.90571	0.00000	-0.022719	d
						5.6316	85.93900	126.66096	0.00000	-0.022600	d
						6.1009	86.33942	126.41622	0.00000	-0.022461	d
						6.5702	86.73985	126.17147	0.00000	-0.022300	d
						7.0395	87.14028	125.92673	0.00000	-0.022117	d
						7.5088	87.54070	125.68198	0.00000	-0.021909	d
						7.9781	87.94112	125.43724	0.00000	-0.021675	d
						8.4474	88.34155	125.19249	0.00000	-0.021414	d
						8.9167	88.74197	124.94774	0.00000	-0.021124	d
						9.3860	89.14240	124.70300	0.00000	-0.020803	d
		27	SB-03	SB-03	0.0	0.0	89.14240	124.70300	0.00000	-0.020803	d
						0.49874	88.87339	124.28303	0.00000	-0.019280	d
						0.99747	88.60438	123.86307	0.00000	-0.017692	d
						1.4962	88.33537	123.44310	0.00000	-0.016038	d
						1.9949	88.06636	123.02313	0.00000	-0.014313	d
						2.4937	87.79735	122.60316	0.00000	-0.012516	d
						2.9924	87.52834	122.18320	0.00000	-0.010644	d
						3.4912	87.25933	121.76323	0.00000	-0.0086926	d
						3.9899	86.99032	121.34326	0.00000	-0.0066594	d
						4.4886	86.72131	120.92329	0.00000	-0.0045408	d
						4.9874	86.45230	120.50333	0.00000	-0.0023331	d
						5.4861	86.18329	120.08336	0.00000	-32.620E-6	d
						5.9848	85.91428	119.66339	0.00000	0.0023647	d
						6.4836	85.64527	119.24343	0.00000	0.0048630	d
						6.9823	85.37626	118.82346	0.00000	0.0074667	d
						7.4811	85.10724	118.40349	0.00000	0.010180	d
						7.9798	84.83823	117.98352	0.00000	0.013009	d
						8.4785	84.56922	117.56356	0.00000	0.015958	d
						8.9773	84.30021	117.14359	0.00000	0.019032	d
						9.4760	84.03120	116.72362	0.00000	0.022236	d
						9.9747	83.76219	116.30366	0.00000	0.025578	d
						10.473	83.49318	115.88369	0.00000	0.029063	d
						10.972	83.22417	115.46372	0.00000	0.032697	d
						11.471	82.95516	115.04375	0.00000	0.036488	d
						11.970	82.68615	114.62379	0.00000	0.040443	d
						12.468	82.41714	114.20382	0.00000	0.044568	d
						12.967	82.14813	113.78385	0.00000	0.048873	d
						13.466	81.87912	113.36388	0.00000	0.053366	d
						13.965	81.61011	112.94392	0.00000	0.058055	d
						14.463	81.34110	112.52395	0.00000	0.062949	d
						14.962	81.07209	112.10398	0.00000	0.068058	d
						15.461	80.80308	111.68402	0.00000	0.073392	d
						15.960	80.53407	111.26405	0.00000	0.078962	d
						16.458	80.26506	110.84408	0.00000	0.084779	d
						16.957	79.99605	110.42411	0.00000	0.090854	d
						17.456	79.72704	110.00415	0.00000	0.097199	d
						17.955	79.45803	109.58418	0.00000	0.10383	d
						18.453	79.18902	109.16421	0.00000	0.11075	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						18.952	78.92001	108.74424	0.00000	0.11799	d
						19.451	78.65100	108.32428	0.00000	0.12554	d
						19.949	78.38199	107.90431	0.00000	0.14548	d
						20.448	78.11298	107.48434	0.00000	0.25915	d
						20.947	77.84397	107.06438	0.00000	0.36753	d
						21.446	77.57496	106.64441	0.00000	0.47230	d
						21.944	77.30594	106.22444	0.00000	0.57498	d
						22.443	77.03693	105.80447	0.00000	0.67686	d
						22.942	76.76792	105.38451	0.00000	0.77909	d
						23.441	76.49891	104.96454	0.00000	0.88265	d
						23.939	76.22990	104.54457	0.00000	0.98831	d
						24.438	75.96089	104.12461	0.00000	1.1674	d
						24.937	75.69188	103.70464	0.00000	1.3993	d
						25.436	75.42287	103.28467	0.00000	1.6292	d
						25.934	75.15386	102.86470	0.00000	1.8692	d
						26.433	74.88485	102.44474	0.00000	2.1177	d
						26.932	74.61584	102.02477	0.00000	2.3779	d
						27.431	74.34683	101.60480	0.00000	2.6525	d
						27.929	74.07782	101.18483	0.00000	2.9250	d
						28.428	73.80881	100.76487	0.00000	3.2571	d
						28.927	73.53980	100.34490	0.00000	3.6153	d
		28	SB-04	SB-04	0.0	0.0	73.53980	100.34490	0.00000	3.6153	d
						0.45074	73.15931	100.58655	0.00000	3.7987	d
						0.90147	72.77883	100.82820	0.00000	3.9961	d
						1.3522	72.39835	101.06985	0.00000	4.1880	d
						1.8029	72.01786	101.31150	0.00000	4.3479	d
						2.2537	71.63737	101.55315	0.00000	4.5245	d
						2.7044	71.25689	101.79480	0.00000	4.6971	d
						3.1552	70.87641	102.03645	0.00000	4.8675	d
						3.6059	70.49592	102.27810	0.00000	5.0508	d
						4.0566	70.11543	102.51975	0.00000	5.2567	d
						4.5074	69.73495	102.76140	0.00000	3.8195	d
						4.9581	69.35447	103.00305	0.00000	3.9656	d
						5.4088	68.97398	103.24470	0.00000	4.1043	d
						5.8596	68.59349	103.48635	0.00000	4.2345	d
						6.3103	68.21301	103.72800	0.00000	4.3552	d
						6.7611	67.83253	103.96965	0.00000	4.4653	d
						7.2118	67.45204	104.21130	0.00000	4.5639	d
						7.6625	67.07155	104.45295	0.00000	4.6504	d
						8.1133	66.69107	104.69460	0.00000	4.7272	d
						8.5640	66.31059	104.93625	0.00000	4.8442	d
						9.0147	65.93010	105.17790	0.00000	4.9517	d
		29	SB-05	SB-05	0.0	0.0	65.93010	105.17790	0.00000	4.9517	d
						0.47729	66.18562	105.58103	0.00000	4.6792	d
						0.95459	66.44114	105.98417	0.00000	4.4064	d
						1.4319	66.69667	106.38730	0.00000	4.1355	d
						1.9092	66.95219	106.79044	0.00000	3.8681	d
						2.3865	67.20771	107.19357	0.00000	3.6058	d
						2.8638	67.46323	107.59671	0.00000	3.3501	d
						3.3411	67.71875	107.99984	0.00000	3.1021	d
						3.8183	67.97428	108.40297	0.00000	2.8628	d
						4.2956	68.22980	108.80611	0.00000	2.6332	d
						4.7729	68.48532	109.20924	0.00000	2.4138	d
						5.2502	68.74084	109.61238	0.00000	2.2052	d
						5.7275	68.99636	110.01551	0.00000	2.0075	d
						6.2048	69.25188	110.41865	0.00000	1.8208	d
						6.6821	69.50741	110.82178	0.00000	1.6450	d
						7.1594	69.76293	111.22492	0.00000	1.4796	d
						7.6367	70.01845	111.62805	0.00000	1.3242	d
						8.1140	70.27397	112.03118	0.00000	1.1779	d
						8.5913	70.52949	112.43432	0.00000	1.0399	d
						9.0686	70.78502	112.83745	0.00000	0.90883	d
						9.5459	71.04054	113.24059	0.00000	0.78343	d
						10.023	71.29606	113.64372	0.00000	0.66207	d
						10.500	71.55158	114.04686	0.00000	0.54295	d
						10.978	71.80710	114.44999	0.00000	0.42406	d
						11.455	72.06262	114.85312	0.00000	0.30317	d
						11.932	72.31815	115.25626	0.00000	0.17787	d
						12.410	72.57367	115.65939	0.00000	0.10153	d
						12.887	72.82919	116.06253	0.00000	0.093887	d
						13.364	73.08471	116.46566	0.00000	0.086660	d
						13.842	73.34023	116.86880	0.00000	0.079822	d
						14.319	73.59576	117.27193	0.00000	0.073351	d
						14.796	73.85128	117.67507	0.00000	0.067223	d
						15.273	74.10680	118.07820	0.00000	0.061418	d
		30	SB-06	SB-06	0.0	0.0	74.10680	118.07820	0.00000	0.061418	d
						0.43543	73.71623	118.27067	0.00000	0.062310	d
						0.87085	73.32565	118.46315	0.00000	0.063187	d
						1.3063	72.93508	118.65563	0.00000	0.064045	d
						1.7417	72.54450	118.84810	0.00000	0.064880	d
						2.1771	72.15393	119.04057	0.00000	0.065688	d
						2.6126	71.76335	119.23305	0.00000	0.066465	d
						3.0480	71.37278	119.42552	0.00000	0.067208	d
						3.4834	70.98220	119.61800	0.00000	0.067911	d
		31	SB-07	SB-07	0.0	0.0	70.98220	119.61800	0.00000	0.067911	d
						0.37898	70.83282	119.26970	0.00000	0.072864	d
						0.75796	70.68345	118.92140	0.00000	0.078039	d
						1.1369	70.53408	118.57310	0.00000	0.083449	d
						1.5159	70.38470	118.22480	0.00000	0.089106	d
		32	SB-08	SB-08	0.0	0.0	70.38470	118.22480	0.00000	0.089106	d
						0.49123	69.95028	118.45410	0.00000	0.089897	d
						0.98245	69.51585	118.68340	0.00000	0.090607	d
						1.4737	69.08143	118.91271	0.00000	0.091230	d
						1.9649	68.64701	119.14201	0.00000	0.091761	d
						2.4561	68.21258	119.37131	0.00000	0.092194	d
						2.9474	67.77816	119.60061	0.00000	0.092526	d
						3.4386	67.34374	119.82991	0.00000	0.092751	d
						3.9298	66.90931	120.05921	0.00000	0.092866	d
						4.4210	66.47489	120.28852	0.00000	0.092869	d
						4.9123	66.04047	120.51782	0.00000	0.092757	d
						5.4035	65.60604	120.74712	0.00000	0.092528	d
						5.8947	65.17162	120.97642	0.00000	0.092181	d
						6.3859	64.73720	121.20572	0.00000	0.091716	d
						6.8772	64.30277	121.43502	0.00000	0.091133	d
						7.3684	63.86835	121.66433	0.00000	0.090434	d
						7.8596	63.43393	121.89363	0.00000	0.089619	d
						8.3508	62.99950	122.12293	0.00000	0.088692	d
						8.8421	62.56508	122.35223	0.00000	0.087654	d
						9.3333	62.13066	122.58153	0.00000	0.086509	d
						9.8245	61.69623	122.81083	0.00000	0.085262	d
						10.316	61.26181	123.04014	0.00000	0.083915	d
						10.807	60.82739	123.26944	0.00000	0.082475	d
						11.298	60.39296	123.49874	0.00000	0.080946	d
						11.789	59.95854	123.72804	0.00000	0.079334	d
						12.281	59.52412	123.95734	0.00000	0.077644	d
						12.772	59.08969	124.18664	0.00000	0.075882	d
						13.263	58.65527	124.41595	0.00000	0.074054	d
						13.754	58.22085	124.64525	0.00000	0.072166	d
						14.246	57.78642	124.87455	0.00000	0.070225	d
						14.737	57.35200	125.10385	0.00000	0.068237	d
						15.228	56.91758	125.33315	0.00000	0.066207	d
						15.719	56.48315	125.56245	0.00000	0.064141	d
						16.210	56.04873	125.79175	0.00000	0.062046	d
						16.702	55.61431	126.02106	0.00000	0.059928	d
						17.193	55.17988	126.25036	0.00000	0.057791	d
						17.684	54.74546	126.47966	0.00000	0.055642	d
						18.175	54.31104	126.70896	0.00000	0.053485	d
						18.667	53.87661	126.93826	0.00000	0.051325	d
						19.158	53.44219	127.16756	0.00000	0.049167	d
						19.649	53.00777	127.39687	0.00000	0.047016	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						20.140	52.57334	127.62617	0.00000	0.044874	d
						20.631	52.13892	127.85547	0.00000	0.042747	d
						21.123	51.70450	128.08477	0.00000	0.040638	d
						21.614	51.27007	128.31407	0.00000	0.038550	d
						22.105	50.83565	128.54337	0.00000	0.036486	d
						22.596	50.40123	128.77268	0.00000	0.034448	d
						23.088	49.96680	129.00198	0.00000	0.032440	d
						23.579	49.53238	129.23128	0.00000	0.030464	d
						24.070	49.09796	129.46058	0.00000	0.028521	d
						24.561	48.66353	129.68988	0.00000	0.026614	d
						25.053	48.22911	129.91918	0.00000	0.024743	d
						25.544	47.79469	130.14849	0.00000	0.022911	d
						26.035	47.36026	130.37779	0.00000	0.021118	d
						26.526	46.92584	130.60709	0.00000	0.019366	d
						27.017	46.49142	130.83639	0.00000	0.017655	d
						27.509	46.05699	131.06569	0.00000	0.015986	d
						28.000	45.62257	131.29500	0.00000	0.014360	d
						28.491	45.18815	131.52430	0.00000	0.012776	d
						28.982	44.75372	131.75360	0.00000	0.011235	d
						29.474	44.31930	131.98290	0.00000	0.0097376	d
		33	SB-09	SB-09	0.0	0.0	44.31930	131.98290	0.00000	0.0097376	d
						0.49663	44.54866	132.42340	0.00000	0.0078123	d
						0.99327	44.77801	132.86390	0.00000	0.0059557	d
						1.4899	45.00737	133.30440	0.00000	0.0041663	d
						1.9865	45.23672	133.74490	0.00000	0.0024423	d
						2.4832	45.46608	134.18540	0.00000	782.12E-6	d
						2.9798	45.69544	134.62590	0.00000	-815.79E-6	d
						3.4764	45.92479	135.06640	0.00000	-0.0023531	d
						3.9731	46.15415	135.50690	0.00000	-0.0038315	d
						4.4697	46.38351	135.94740	0.00000	-0.0052527	d
						4.9663	46.61286	136.38790	0.00000	-0.0066182	d
						5.4630	46.84222	136.82840	0.00000	-0.0079297	d
						5.9596	47.07158	137.26890	0.00000	-0.0091888	d
						6.4562	47.30093	137.70940	0.00000	-0.010397	d
						6.9529	47.53029	138.14990	0.00000	-0.011556	d
						7.4495	47.75964	138.59040	0.00000	-0.012667	d
						7.9461	47.98900	139.03090	0.00000	-0.013733	d
						8.4428	48.21836	139.47140	0.00000	-0.014753	d
						8.9394	48.44771	139.91190	0.00000	-0.015730	d
						9.4360	48.67707	140.35240	0.00000	-0.016665	d
						9.9327	48.90642	140.79290	0.00000	-0.017560	d
						10.429	49.13578	141.23340	0.00000	-0.018416	d
						10.926	49.36514	141.67390	0.00000	-0.019234	d
						11.423	49.59449	142.11440	0.00000	-0.020016	d
						11.919	49.82385	142.55490	0.00000	-0.020762	d
						12.416	50.05321	142.99540	0.00000	-0.021475	d
						12.912	50.28256	143.43590	0.00000	-0.022155	d
						13.409	50.51192	143.87640	0.00000	-0.022803	d
						13.906	50.74128	144.31690	0.00000	-0.023420	d
						14.402	50.97063	144.75740	0.00000	-0.024008	d
						14.899	51.19999	145.19790	0.00000	-0.024568	d
						15.396	51.42934	145.63840	0.00000	-0.025101	d
						15.892	51.65870	146.07890	0.00000	-0.025607	d
		34	SB-10	SB-10	0.0	0.0	51.65870	146.07890	0.00000	-0.025607	d
						0.46146	52.05637	145.84480	0.00000	-0.025500	d
						0.92292	52.45404	145.61070	0.00000	-0.025390	d
						1.3844	52.85171	145.37660	0.00000	-0.025276	d
						1.8458	53.24938	145.14250	0.00000	-0.025158	d
						2.3073	53.64705	144.90840	0.00000	-0.025037	d
						2.7688	54.04472	144.67430	0.00000	-0.024913	d
						3.2302	54.44239	144.44020	0.00000	-0.024786	d
						3.6917	54.84006	144.20610	0.00000	-0.024656	d
						4.1531	55.23773	143.97200	0.00000	-0.024523	d
						4.6146	55.63540	143.73790	0.00000	-0.024387	d
						5.0760	56.03307	143.50380	0.00000	-0.024250	d
						5.5375	56.43074	143.26970	0.00000	-0.024110	d
						5.9990	56.82841	143.03560	0.00000	-0.023968	d
						6.4604	57.22608	142.80150	0.00000	-0.023825	d
						6.9219	57.62375	142.56740	0.00000	-0.023680	d
						7.3833	58.02142	142.33330	0.00000	-0.023534	d
						7.848	58.41909	142.09920	0.00000	-0.023387	d
						8.3063	58.81676	141.86510	0.00000	-0.023239	d
						8.7677	59.21443	141.63100	0.00000	-0.023092	d
						9.2292	59.61210	141.39690	0.00000	-0.022944	d
		35	SB-11	SB-11	0.0	0.0	59.61210	141.39690	0.00000	-0.022944	d
						0.48552	60.04295	141.17306	0.00000	-0.022835	d
						0.97105	60.47379	140.94923	0.00000	-0.022729	d
						1.4566	60.90464	140.72539	0.00000	-0.022626	d
						1.9421	61.33549	140.50155	0.00000	-0.022527	d
						2.4276	61.76634	140.27772	0.00000	-0.022431	d
						2.9131	62.19718	140.05388	0.00000	-0.022340	d
						3.3987	62.62803	139.83004	0.00000	-0.022253	d
						3.8842	63.05888	139.60621	0.00000	-0.022172	d
						4.3697	63.48973	139.38237	0.00000	-0.022095	d
						4.8552	63.92057	139.15853	0.00000	-0.022024	d
						5.3408	64.35142	138.93469	0.00000	-0.021959	d
						5.8263	64.78227	138.71086	0.00000	-0.021900	d
						6.3118	65.21312	138.48702	0.00000	-0.021847	d
						6.7973	65.64396	138.26318	0.00000	-0.021801	d
						7.2828	66.07481	138.03935	0.00000	-0.021763	d
						7.7684	66.50566	137.81551	0.00000	-0.021731	d
						8.2539	66.93651	137.59167	0.00000	-0.021706	d
						8.7394	67.36735	137.36784	0.00000	-0.021690	d
						9.2249	67.79820	137.14400	0.00000	-0.021681	d
						9.7105	68.22905	136.92016	0.00000	-0.021679	d
						10.196	68.65989	136.69633	0.00000	-0.021686	d
						10.682	69.09074	136.47249	0.00000	-0.021701	d
						11.167	69.52159	136.24865	0.00000	-0.021724	d
						11.653	69.95244	136.02482	0.00000	-0.021755	d
						12.138	70.38328	135.80098	0.00000	-0.021794	d
						12.624	70.81413	135.57714	0.00000	-0.021841	d
						13.109	71.24498	135.35331	0.00000	-0.021896	d
						13.595	71.67583	135.12947	0.00000	-0.021958	d
						14.080	72.10667	134.90563	0.00000	-0.022028	d
						14.566	72.53752	134.68179	0.00000	-0.022106	d
						15.051	72.96837	134.45796	0.00000	-0.022191	d
						15.537	73.39922	134.23412	0.00000	-0.022283	d
						16.022	73.83006	134.01028	0.00000	-0.022381	d
						16.508	74.26091	133.78645	0.00000	-0.022485	d
						16.993	74.69176	133.56261	0.00000	-0.022595	d
						17.479	75.12261	133.33877	0.00000	-0.022711	d
						17.964	75.55345	133.11494	0.00000	-0.022831	d
						18.450	75.98430	132.89110	0.00000	-0.022956	d
		36	SB-12	SB-12	0.0	0.0	75.98430	132.89110	0.00000	-0.022956	d
						0.28634	76.21543	132.72207	0.00000	-0.022911	d
						0.57267	76.44655	132.55305	0.00000	-0.022867	d
						0.85901	76.67767	132.38403	0.00000	-0.022823	d
						1.1453	76.90880	132.21500	0.00000	-0.022780	d
		37	SB-13	SB-13	0.0	0.0	76.90880	132.21500	0.00000	-0.022780	d
						0.31767	76.76538	131.93155	0.00000	-0.021879	d
						0.63534	76.62195	131.64810	0.00000	-0.020946	d
						0.95301	76.47852	131.36465	0.00000	-0.019981	d
						1.2707	76.33510	131.08120	0.00000	-0.018981	d
		38	SB-14	SB-14	0.0	0.0	76.33510	131.08120	0.00000	-0.018981	d
						0.48921	76.75755	130.83449	0.00000	-0.019040	d
						0.97843	77.18000	130.58778	0.00000	-0.019103	d
						1.4676	77.60245	130.34107	0.00000	-0.019167	d
						1.9569	78.02490	130.09436	0.00000	-0.019233	d
						2.4461	78.44735	129.84765	0.00000	-0.019299	d
						2.9353	78.86980	129.60094	0.00000	-0.019364	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						3.4245	79.29225	129.35423	0.00000	-0.019429	d
						3.9137	79.71470	129.10752	0.00000	-0.019490	d
						4.4029	80.13715	128.86081	0.00000	-0.019548	d
						4.8921	80.55960	128.61410	0.00000	-0.019602	d
		39	HL-01	HL-01	0.0	0.0	50.98220	128.46600	0.00000	0.037179	d
						0.48226	50.76237	128.03676	0.00000	0.040901	d
						0.96452	50.54254	127.60752	0.00000	0.044794	d
						1.4468	50.32271	127.17828	0.00000	0.048866	d
						1.9290	50.10287	126.74904	0.00000	0.053123	d
						2.4113	49.88304	126.31980	0.00000	0.057575	d
						2.8936	49.66321	125.89056	0.00000	0.062227	d
						3.3758	49.44338	125.46132	0.00000	0.067089	d
						3.8581	49.22355	125.03208	0.00000	0.072168	d
						4.3403	49.00372	124.60283	0.00000	0.077473	d
						4.8226	48.78389	124.17359	0.00000	0.083012	d
						5.3048	48.56406	123.74435	0.00000	0.088793	d
						5.7871	48.34423	123.31511	0.00000	0.094824	d
						6.2694	48.12439	122.88587	0.00000	0.10112	d
						6.7516	47.90456	122.45663	0.00000	0.10767	d
						7.2339	47.68473	122.02739	0.00000	0.11451	d
						7.7161	47.46490	121.59815	0.00000	0.12162	d
						8.1984	47.24507	121.16891	0.00000	0.17313	d
						8.6807	47.02524	120.73967	0.00000	0.25439	d
						9.1629	46.80541	120.31043	0.00000	0.33275	d
						9.6452	46.58557	119.88119	0.00000	0.40867	d
						10.127	46.36574	119.45195	0.00000	0.48253	d
						10.610	46.14591	119.02271	0.00000	0.55466	d
						11.092	45.92608	118.59347	0.00000	0.62530	d
						11.574	45.70625	118.16423	0.00000	0.69464	d
						12.056	45.48642	117.73498	0.00000	0.76280	d
						12.539	45.26659	117.30574	0.00000	0.82985	d
						13.021	45.04676	116.87650	0.00000	0.89581	d
						13.503	44.82693	116.44726	0.00000	0.96063	d
						13.985	44.60709	116.01802	0.00000	1.0242	d
						14.468	44.38726	115.58878	0.00000	1.0865	d
						14.950	44.16743	115.15954	0.00000	1.1472	d
						15.432	43.94760	114.73030	0.00000	1.2062	d
		40	HL-02	HL-02	0.0	0.0	43.94760	114.73030	0.00000	1.2062	d
						0.46776	43.53589	114.95231	0.00000	1.0824	d
						0.93551	43.12418	115.17432	0.00000	0.96294	d
						1.4033	42.71246	115.39634	0.00000	0.84718	d
						1.8710	42.30075	115.61835	0.00000	0.73416	d
						2.3388	41.88904	115.84036	0.00000	0.62280	d
						2.8065	41.47733	116.06238	0.00000	0.51189	d
						3.2743	41.06561	116.28439	0.00000	0.40003	d
						3.7421	40.65390	116.50640	0.00000	0.28571	d
						4.2098	40.24219	116.72841	0.00000	0.16573	d
						4.6776	39.83047	116.95042	0.00000	0.15627	d
						5.1453	39.41876	117.17244	0.00000	0.14730	d
						5.6131	39.00705	117.39445	0.00000	0.13877	d
						6.0808	38.59534	117.61646	0.00000	0.13067	d
						6.5486	38.18362	117.83848	0.00000	0.12298	d
						7.0164	37.77191	118.06049	0.00000	0.11566	d
						7.4841	37.36020	118.28250	0.00000	0.10871	d
		41	HL-03	HL-03	0.0	0.0	37.36020	118.28250	0.00000	0.10871	d
						0.48020	37.57767	118.71064	0.00000	0.10462	d
						0.96041	37.79514	119.13877	0.00000	0.10057	d
						1.4406	38.01262	119.56691	0.00000	0.096548	d
						1.9208	38.23009	119.99505	0.00000	0.092575	d
						2.4010	38.44756	120.42319	0.00000	0.088650	d
						2.8812	38.66503	120.85133	0.00000	0.084780	d
						3.3614	38.88250	121.27946	0.00000	0.080967	d
						3.8416	39.09998	121.70760	0.00000	0.077216	d
						4.3218	39.31745	122.13574	0.00000	0.073529	d
						4.8020	39.53492	122.56387	0.00000	0.069911	d
						5.2822	39.75239	122.99201	0.00000	0.066363	d
						5.7624	39.96986	123.42015	0.00000	0.062889	d
						6.2427	40.18733	123.84829	0.00000	0.059489	d
						6.7229	40.40481	124.27643	0.00000	0.056166	d
						7.2031	40.62228	124.70456	0.00000	0.052920	d
						7.6833	40.83975	125.13270	0.00000	0.049753	d
						8.1635	41.05722	125.56084	0.00000	0.046666	d
						8.6437	41.27469	125.98897	0.00000	0.043658	d
						9.1239	41.49217	126.41711	0.00000	0.040731	d
						9.6041	41.70964	126.84525	0.00000	0.037884	d
						10.084	41.92711	127.27339	0.00000	0.035116	d
						10.564	42.14458	127.70153	0.00000	0.032428	d
						11.045	42.36205	128.12966	0.00000	0.029819	d
						11.525	42.57952	128.55780	0.00000	0.027289	d
						12.005	42.79700	128.98594	0.00000	0.024836	d
						12.485	43.01447	129.41407	0.00000	0.022459	d
						12.966	43.23194	129.84221	0.00000	0.020157	d
						13.446	43.4941	130.27035	0.00000	0.017930	d
						13.926	43.66688	130.69849	0.00000	0.015776	d
						14.406	43.88436	131.12662	0.00000	0.013694	d
						14.886	44.10183	131.55476	0.00000	0.011681	d
						15.367	44.31930	131.98290	0.00000	0.0097376	d
		42	CH-01	CH-01	0.0	0.0	43.98880	114.70780	0.00000	1.2189	d
						0.48967	44.42074	114.47714	0.00000	1.3543	d
						0.97934	44.85268	114.24649	0.00000	1.4958	d
						1.4690	45.28462	114.01583	0.00000	1.6436	d
						1.9587	45.71656	113.78517	0.00000	1.7980	d
						2.4483	46.14850	113.55451	0.00000	1.9590	d
						2.9380	46.58044	113.32386	0.00000	2.1264	d
						3.4277	47.01237	113.09320	0.00000	2.2999	d
						3.9173	47.44431	112.86254	0.00000	2.4789	d
						4.4070	47.87625	112.63189	0.00000	2.6629	d
						4.8967	48.30819	112.40123	0.00000	2.8510	d
						5.3863	48.74013	112.17057	0.00000	3.0424	d
						5.8760	49.17207	111.93991	0.00000	3.2359	d
						6.3657	49.60401	111.70926	0.00000	3.4305	d
						6.8553	50.03595	111.47860	0.00000	3.6247	d
						7.3450	50.46789	111.24794	0.00000	3.8172	d
						7.8347	50.89983	111.01729	0.00000	4.0065	d
						8.3243	51.33177	110.78663	0.00000	4.1910	d
						8.8140	51.76371	110.55597	0.00000	4.3690	d
						9.3037	52.19565	110.32531	0.00000	4.5388	d
						9.7934	52.62759	110.09466	0.00000	4.7388	d
						10.283	53.05953	109.86400	0.00000	4.9484	d
						10.773	53.49146	109.63334	0.00000	5.1547	d
						11.262	53.92340	109.40269	0.00000	5.3559	d
						11.752	54.35534	109.17203	0.00000	5.5500	d
						12.242	54.78728	108.94137	0.00000	5.7351	d
						12.731	55.21922	108.71071	0.00000	5.9089	d
						13.221	55.65116	108.48006	0.00000	6.0690	d
						13.711	56.08310	108.24940	0.00000	6.2133	d
		43	CH-02	CH-02	0.0	0.0	56.08310	108.24940	0.00000	6.2133	d
						0.48553	55.84919	107.82393	0.00000	6.5297	d
						0.97106	55.61528	107.39846	0.00000	6.8575	d
						1.4566	55.38138	106.97298	0.00000	7.2026	d
						1.9421	55.14747	106.54751	0.00000	7.5747	d
						2.4276	54.91356	106.12204	0.00000	7.9884	d
						2.9132	54.67965	105.69657	0.00000	8.4642	d
						3.3987	54.44574	105.27110	0.00000	9.0290	d
						3.8842	54.21184	104.84562	0.00000	9.7123	d
						4.3698	53.97793	104.42015	0.00000	10.635	d
						4.8553	53.74402	103.99468	0.00000	11.959	d
						5.3408	53.51011	103.56921	0.00000	12.964	d
						5.8264	53.27620	103.14374	0.00000	13.745	d
						6.3119	53.04230	102.71826	0.00000	14.298	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						6.7974	52.80839	102.29279	0.00000	14.747	d
						7.2829	52.57448	101.86732	0.00000	15.117	d
						7.7685	52.34057	101.44185	0.00000	15.429	d
						8.2540	52.10666	101.01638	0.00000	15.698	d
						8.7395	51.87276	100.59090	0.00000	15.934	d
						9.2251	51.63885	100.16543	0.00000	16.144	d
						9.7106	51.40494	99.73996	0.00000	16.333	d
						10.196	51.17103	99.31449	0.00000	16.506	d
						10.682	50.93712	98.88902	0.00000	16.664	d
						11.167	50.70322	98.46354	0.00000	16.811	d
						11.653	50.46931	98.03807	0.00000	16.948	d
						12.138	50.23540	97.61260	0.00000	17.075	d
						12.624	50.00149	97.18713	0.00000	17.193	d
						13.109	49.76758	96.76166	0.00000	17.304	d
						13.595	49.53368	96.33618	0.00000	17.407	d
						14.080	49.29977	95.91071	0.00000	17.504	d
						14.566	49.06586	95.48524	0.00000	17.593	d
						15.051	48.83195	95.05977	0.00000	17.585	d
						15.537	48.59804	94.63430	0.00000	17.553	d
						16.022	48.36414	94.20882	0.00000	17.514	d
						16.508	48.13023	93.78335	0.00000	17.467	d
						16.994	47.89632	93.35788	0.00000	17.414	d
						17.479	47.66241	92.93241	0.00000	17.353	d
						17.965	47.42850	92.50694	0.00000	17.284	d
						18.450	47.19460	92.08146	0.00000	17.206	d
						18.936	46.96069	91.65599	0.00000	17.119	d
						19.421	46.72678	91.23052	0.00000	17.022	d
						19.907	46.49287	90.80505	0.00000	16.913	d
						20.392	46.25896	90.37958	0.00000	16.789	d
						20.878	46.02506	89.95410	0.00000	16.650	d
						21.363	45.79115	89.52863	0.00000	16.490	d
						21.849	45.55724	89.10316	0.00000	16.305	d
						22.334	45.32333	88.67769	0.00000	16.087	d
						22.820	45.08942	88.25222	0.00000	15.826	d
						23.305	44.85552	87.82674	0.00000	15.506	d
						23.791	44.62161	87.40127	0.00000	15.076	d
						24.276	44.38770	86.97580	0.00000	14.414	d
		44	CH-03	CH-03	0.0	0.0	44.38770	86.97580	0.00000	14.414	d
						0.48596	43.96821	87.22111	0.00000	13.782	d
						0.97191	43.54871	87.46643	0.00000	12.946	d
						1.4579	43.12922	87.71174	0.00000	11.708	d
						1.9438	42.70973	87.95705	0.00000	10.651	d
						2.4298	42.29023	88.20237	0.00000	9.7957	d
						2.9157	41.87074	88.44768	0.00000	9.0723	d
						3.4017	41.45125	88.69300	0.00000	8.4506	d
						3.8876	41.03175	88.93831	0.00000	7.9039	d
						4.3736	40.61226	89.18362	0.00000	7.4113	d
						4.8596	40.19277	89.42894	0.00000	6.9583	d
						5.3455	39.77327	89.67425	0.00000	6.5351	d
						5.8315	39.35378	89.91956	0.00000	6.1352	d
						6.3174	38.93429	90.16488	0.00000	5.7544	d
						6.8034	38.51480	90.41019	0.00000	5.3900	d
						7.2893	38.09530	90.65550	0.00000	5.0404	d
						7.7753	37.67581	90.90082	0.00000	4.7048	d
						8.2613	37.25632	91.14613	0.00000	4.3826	d
						8.7472	36.83682	91.39145	0.00000	4.0736	d
						9.2332	36.41733	91.63676	0.00000	3.7779	d
						9.7191	35.99784	91.88207	0.00000	3.4953	d
						10.205	35.57834	92.12739	0.00000	3.2260	d
						10.691	35.15885	92.37270	0.00000	2.9701	d
						11.177	34.73936	92.61801	0.00000	2.7275	d
						11.663	34.31986	92.86333	0.00000	2.4980	d
						12.149	33.90037	93.10864	0.00000	2.2815	d
						12.635	33.48088	93.35395	0.00000	2.0776	d
						13.121	33.06138	93.59927	0.00000	1.8859	d
						13.607	32.64189	93.84458	0.00000	1.7058	d
						14.093	32.22240	94.08990	0.00000	1.5363	d
						14.579	31.80290	94.33521	0.00000	1.3768	d
						15.065	31.38341	94.58052	0.00000	1.2260	d
						15.551	30.96392	94.82584	0.00000	1.0827	d
						16.037	30.54442	95.07115	0.00000	0.94543	d
						16.523	30.12493	95.31646	0.00000	0.81268	d
						17.008	29.70544	95.56178	0.00000	0.68263	d
						17.494	29.28595	95.80709	0.00000	0.55333	d
						17.980	28.86645	96.05240	0.00000	0.42266	d
						18.466	28.44696	96.29772	0.00000	0.28828	d
						18.952	28.02747	96.54303	0.00000	0.23630	d
						19.438	27.60797	96.78835	0.00000	0.22141	d
						19.924	27.18848	97.03366	0.00000	0.20743	d
						20.410	26.76899	97.27897	0.00000	0.19432	d
						20.896	26.34949	97.52429	0.00000	0.18200	d
						21.382	25.93000	97.76960	0.00000	0.34086	d
		45	CH-04	CH-04	0.0	0.0	25.93000	97.76960	0.00000	0.34086	d
						0.48923	26.16813	98.19696	0.00000	0.17307	d
						0.97845	26.40627	98.62432	0.00000	0.17557	d
						1.4677	26.64440	99.05168	0.00000	0.17792	d
						1.9569	26.88253	99.47903	0.00000	0.18012	d
						2.4461	27.12067	99.90639	0.00000	0.18216	d
						2.9354	27.35880	100.33375	0.00000	0.18404	d
						3.4246	27.59693	100.76111	0.00000	0.18574	d
						3.9138	27.83507	101.18847	0.00000	0.18726	d
						4.4030	28.07320	101.61583	0.00000	0.18861	d
						4.8923	28.31133	102.04318	0.00000	0.18976	d
						5.3815	28.54947	102.47054	0.00000	0.19072	d
						5.8707	28.78760	102.89790	0.00000	0.19149	d
						6.3599	29.02573	103.32526	0.00000	0.19207	d
						6.8492	29.26387	103.75262	0.00000	0.19244	d
						7.3384	29.50200	104.17997	0.00000	0.19262	d
						7.8276	29.74013	104.60733	0.00000	0.19259	d
						8.3169	29.97827	105.03469	0.00000	0.19237	d
						8.8061	30.21640	105.46205	0.00000	0.19194	d
						9.2953	30.45453	105.88941	0.00000	0.19132	d
						9.7845	30.69267	106.31677	0.00000	0.19049	d
						10.274	30.93080	106.74412	0.00000	0.18947	d
						10.763	31.16893	107.17148	0.00000	0.18826	d
						11.252	31.40707	107.59884	0.00000	0.18686	d
						11.741	31.64520	108.02620	0.00000	0.18527	d
						12.231	31.88333	108.45356	0.00000	0.18350	d
						12.720	32.12147	108.88092	0.00000	0.18155	d
						13.209	32.35960	109.30827	0.00000	0.17943	d
						13.698	32.59773	109.73563	0.00000	0.17715	d
						14.188	32.83587	110.16299	0.00000	0.17471	d
						14.677	33.07400	110.59035	0.00000	0.17211	d
						15.166	33.31213	111.01771	0.00000	0.16938	d
						15.655	33.55027	111.44507	0.00000	0.16650	d
						16.144	33.78840	111.87242	0.00000	0.16349	d
						16.634	34.02653	112.29978	0.00000	0.16036	d
						17.123	34.26467	112.72714	0.00000	0.15712	d
						17.612	34.50280	113.15450	0.00000	0.15378	d
						18.101	34.74093	113.58186	0.00000	0.15033	d
						18.591	34.97907	114.00922	0.00000	0.14681	d
						19.080	35.21720	114.43657	0.00000	0.14320	d
						19.569	35.45533	114.86393	0.00000	0.13952	d
						20.058	35.69347	115.29129	0.00000	0.13579	d
						20.548	35.93160	115.71865	0.00000	0.13200	d
						21.037	36.16973	116.14601	0.00000	0.12818	d
						21.526	36.40787	116.57337	0.00000	0.12432	d
						22.015	36.64600	117.00072	0.00000	0.12043	d
						22.504	36.88413	117.42808	0.00000	0.11653	d
						22.994	37.12227	117.85544	0.00000	0.11262	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						23.483	37.36040	118.28280	0.00000	0.10871	d
		46	CH-05	CH-05	0.0	0.0	44.38770	86.97580	0.00000	14.414	d
						0.43282	43.96845	86.86828	0.00000	13.571	d
						0.86564	43.54920	86.76075	0.00000	12.633	d
						1.2985	43.12995	86.65323	0.00000	11.613	d
						1.7313	42.71070	86.54570	0.00000	10.400	d
						2.1641	42.29145	86.43818	0.00000	9.5008	d
						2.5969	41.87220	86.33065	0.00000	8.7792	d
						3.0297	41.45295	86.22312	0.00000	8.1686	d
						3.4626	41.03370	86.11560	0.00000	7.6401	d
		47	CH-06	CH-06	0.0	0.0	41.03370	86.11560	0.00000	7.6401	d
						0.48042	40.61901	86.35816	0.00000	7.2745	d
						0.96085	40.20431	86.60072	0.00000	6.9248	d
						1.4413	39.78962	86.84328	0.00000	6.5886	d
						1.9217	39.37493	87.08584	0.00000	6.2636	d
						2.4021	38.96024	87.32840	0.00000	5.9475	d
						2.8825	38.54554	87.57096	0.00000	5.6390	d
						3.3630	38.13085	87.81352	0.00000	5.3372	d
						3.8434	37.71616	88.05609	0.00000	5.0418	d
						4.3238	37.30146	88.29865	0.00000	4.7526	d
						4.8042	36.88677	88.54121	0.00000	4.4700	d
						5.2846	36.47208	88.78377	0.00000	4.1943	d
						5.7651	36.05739	89.02633	0.00000	3.9261	d
						6.2455	35.64269	89.26889	0.00000	3.6658	d
						6.7259	35.22800	89.51145	0.00000	3.4141	d
						7.2063	34.81331	89.75401	0.00000	3.1714	d
						7.6868	34.39861	89.99657	0.00000	2.9381	d
						8.1672	33.98392	90.23913	0.00000	2.7147	d
						8.6476	33.56923	90.48169	0.00000	2.5012	d
						9.1280	33.15454	90.72425	0.00000	2.2980	d
						9.6085	32.73984	90.96681	0.00000	2.1049	d
						10.089	32.32515	91.20938	0.00000	1.9219	d
						10.569	31.91046	91.45194	0.00000	1.7486	d
						11.050	31.49576	91.69450	0.00000	1.5847	d
						11.530	31.08107	91.93706	0.00000	1.4294	d
						12.011	30.66638	92.17962	0.00000	1.2822	d
						12.491	30.25169	92.42218	0.00000	1.1421	d
						12.971	29.83699	92.66474	0.00000	1.0080	d
						13.452	29.42230	92.90730	0.00000	0.87874	d
		48	CH-07	CH-07	0.0	0.0	29.42230	92.90730	0.00000	0.87874	d
						0.48449	29.15173	92.50539	0.00000	0.84138	d
						0.96899	28.88117	92.10349	0.00000	0.80140	d
						1.4535	28.61060	91.70158	0.00000	0.75890	d
						1.9380	28.34003	91.29968	0.00000	0.71397	d
						2.4225	28.06947	90.89777	0.00000	0.66665	d
						2.9070	27.79890	90.49587	0.00000	0.61697	d
						3.3915	27.52833	90.09396	0.00000	0.56494	d
						3.8760	27.25777	89.69206	0.00000	0.51050	d
						4.3604	26.98720	89.29015	0.00000	0.45359	d
						4.8449	26.71663	88.88824	0.00000	0.39409	d
						5.3294	26.44607	88.48634	0.00000	0.33182	d
						5.8139	26.17550	88.08443	0.00000	0.26657	d
						6.2984	25.90493	87.68253	0.00000	0.19891	d
						6.7829	25.63437	87.28062	0.00000	0.19074	d
						7.2674	25.36380	86.87872	0.00000	0.18276	d
						7.7519	25.09323	86.47681	0.00000	0.17498	d
						8.2364	24.82267	86.07491	0.00000	0.16738	d
						8.7209	24.55210	85.67300	0.00000	0.15999	d
		49	CH-08	CH-08	0.0	0.0	24.55210	85.67300	0.00000	0.15999	d
						0.22375	24.36080	85.78905	0.00000	0.15602	d
						0.44750	24.16950	85.90510	0.00000	0.15213	d
		50	CH-09	CH-09	0.0	0.0	24.16950	85.90510	0.00000	0.15213	d
						0.41343	23.93042	85.56780	0.00000	0.14616	d
						0.82687	23.69135	85.23050	0.00000	0.14035	d
						1.2403	23.45228	84.89320	0.00000	0.13468	d
						1.6537	23.21320	84.55590	0.00000	0.12917	d
						2.0672	22.97413	84.21860	0.00000	0.12380	d
						2.4806	22.73505	83.88130	0.00000	0.11858	d
						2.8940	22.49598	83.54400	0.00000	0.11350	d
						3.3075	22.25690	83.20670	0.00000	0.10857	d
		51	CH-10	CH-10	0.0	0.0	22.25690	83.20670	0.00000	0.10857	d
						0.49151	21.84234	83.47075	0.00000	0.10291	d
						0.98302	21.42778	83.73480	0.00000	0.097461	d
						1.4745	21.01322	83.99885	0.00000	0.092209	d
						1.9660	20.59866	84.26290	0.00000	0.087151	d
						2.4576	20.18410	84.52695	0.00000	0.082282	d
						2.9491	19.76954	84.79100	0.00000	0.077599	d
						3.4406	19.35498	85.05505	0.00000	0.073095	d
						3.9321	18.94042	85.31910	0.00000	0.068765	d
						4.4236	18.52586	85.58315	0.00000	0.064605	d
						4.9151	18.11130	85.84720	0.00000	0.060609	d
		52	CH-11	CH-11	0.0	0.0	18.11130	85.84720	0.00000	0.060609	d
						0.47528	18.37194	86.24464	0.00000	0.063718	d
						0.95057	18.63258	86.64209	0.00000	0.066896	d
						1.4259	18.89322	87.03953	0.00000	0.070143	d
						1.9011	19.15386	87.43697	0.00000	0.073456	d
						2.3764	19.41450	87.83442	0.00000	0.076834	d
						2.8517	19.67514	88.23186	0.00000	0.080275	d
						3.3270	19.93578	88.62930	0.00000	0.083777	d
						3.8023	20.19642	89.02675	0.00000	0.087336	d
						4.2776	20.45706	89.42419	0.00000	0.090949	d
						4.7528	20.71770	89.82163	0.00000	0.094614	d
						5.2281	20.97834	90.21908	0.00000	0.098326	d
						5.7034	21.23898	90.61652	0.00000	0.10208	d
						6.1787	21.49962	91.01396	0.00000	0.10588	d
						6.6540	21.76026	91.41141	0.00000	0.10971	d
						7.1293	22.02090	91.80885	0.00000	0.11357	d
						7.6045	22.28154	92.20629	0.00000	0.11745	d
						8.0798	22.54218	92.60374	0.00000	0.12135	d
						8.5551	22.80282	93.00118	0.00000	0.12526	d
						9.0304	23.06346	93.39862	0.00000	0.12917	d
						9.5057	23.32410	93.79607	0.00000	0.13309	d
						9.9810	23.58474	94.19351	0.00000	0.13699	d
						10.456	23.84538	94.59095	0.00000	0.14088	d
						10.932	24.10602	94.98840	0.00000	0.14475	d
						11.407	24.36666	95.38584	0.00000	0.14858	d
						11.882	24.62730	95.78328	0.00000	0.15237	d
						12.357	24.88794	96.18073	0.00000	0.15612	d
						12.833	25.14858	96.57817	0.00000	0.15980	d
						13.308	25.40922	96.97561	0.00000	0.16342	d
						13.783	25.66986	97.37306	0.00000	0.16697	d
						14.259	25.93050	97.77050	0.00000	0.34086	d
		53	10S-01	10S-01	0.0	0.0	60.26430	42.08760	0.00000	1.8986	d
						0.46042	60.08619	41.66303	0.00000	1.7217	d
						0.92083	59.90809	41.23846	0.00000	1.5553	d
						1.3812	59.72998	40.81389	0.00000	1.3989	d
						1.8417	59.55187	40.38931	0.00000	1.2520	d
						2.3021	59.37376	39.96474	0.00000	1.1139	d
						2.7625	59.19566	39.54017	0.00000	0.98347	d
						3.2229	59.01755	39.11560	0.00000	0.85976	d
						3.6833	58.83944	38.69103	0.00000	0.74147	d
						4.1437	58.66134	38.26646	0.00000	0.62718	d
						4.6042	58.48323	37.84189	0.00000	0.51533	d
						5.0646	58.30512	37.41731	0.00000	0.40418	d
						5.5250	58.12701	36.99274	0.00000	0.29186	d
						5.9854	57.94891	36.56817	0.00000	0.17633	d
						6.4458	57.77080	36.14360	0.00000	0.054575	d
		54	10S-02	10S-02	0.0	0.0	57.77080	36.14360	0.00000	0.054575	d
						0.38404	57.41346	36.28429	0.00000	0.064082	d
						0.76807	57.05613	36.42498	0.00000	0.072601	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						1.1521	56.69879	36.56566	0.00000	0.080978	d
						1.5361	56.34145	36.70635	0.00000	0.088304	d
						1.9202	55.98411	36.84704	0.00000	0.093705	d
						2.3042	55.62678	36.98772	0.00000	0.097201	d
						2.6882	55.26944	37.12841	0.00000	0.098809	d
						3.0723	54.91210	37.26910	0.00000	0.098539	d
	55	10S-03	10S-03		0.0	0.0	54.91210	37.26910	0.00000	0.098539	d
						0.34208	54.77050	36.95770	0.00000	0.044340	d
						0.68417	54.62890	36.64630	0.00000	0.041070	d
						1.0262	54.48730	36.33490	0.00000	0.037922	d
						1.3683	54.34570	36.02350	0.00000	0.034893	d
						1.7104	54.20410	35.71210	0.00000	0.031977	d
						2.0525	54.06250	35.40070	0.00000	0.029169	d
	56	10S-04	10S-04		0.0	0.0	54.06250	35.40070	0.00000	0.029169	d
						0.33357	54.36875	35.26848	0.00000	0.029657	d
						0.66714	54.67500	35.13627	0.00000	0.030135	d
						1.0007	54.98125	35.00405	0.00000	0.030604	d
						1.3343	55.28750	34.87183	0.00000	0.031061	d
						1.6679	55.59375	34.73962	0.00000	0.031508	d
						2.0014	55.90000	34.60740	0.00000	0.031943	d
	57	10S-05	10S-05		0.0	0.0	55.90000	34.60740	0.00000	0.031943	d
						0.46683	55.71496	34.17881	0.00000	0.028082	d
						0.93366	55.52993	33.75021	0.00000	0.024418	d
						1.4005	55.34489	33.32162	0.00000	0.020940	d
						1.8673	55.15986	32.89303	0.00000	0.017638	d
						2.3341	54.97482	32.46444	0.00000	0.014504	d
						2.8010	54.78979	32.03584	0.00000	0.011528	d
						3.2678	54.60475	31.60725	0.00000	0.0087029	d
						3.7346	54.41971	31.17866	0.00000	0.0060199	d
						4.2015	54.23468	30.75006	0.00000	0.0034722	d
						4.6683	54.04964	30.32147	0.00000	0.0010529	d
						5.1351	53.86461	29.89288	0.00000	-0.0012443	d
						5.6020	53.67957	29.46429	0.00000	-0.0034255	d
						6.0688	53.49454	29.03569	0.00000	-0.0054965	d
						6.5356	53.30950	28.60710	0.00000	-0.0074627	d
	58	10S-06	10S-06		0.0	0.0	53.30950	28.60710	0.00000	-0.0074627	d
						0.44988	52.88902	28.76706	0.00000	-0.0077124	d
						0.89976	52.46854	28.92701	0.00000	-0.0079687	d
						1.3496	52.04806	29.08697	0.00000	-0.0082312	d
						1.7995	51.62758	29.24692	0.00000	-0.0084995	d
						2.2494	51.20709	29.40688	0.00000	-0.0087731	d
						2.6993	50.78661	29.56684	0.00000	-0.0090518	d
						3.1491	50.36613	29.72679	0.00000	-0.0093350	d
						3.5990	49.94565	29.88675	0.00000	-0.0096223	d
						4.0489	49.52517	30.04671	0.00000	-0.0099133	d
						4.4988	49.10469	30.20666	0.00000	-0.010208	d
						4.9487	48.68421	30.36662	0.00000	-0.010505	d
						5.3985	48.26373	30.52658	0.00000	-0.010805	d
						5.8484	47.84324	30.68653	0.00000	-0.011106	d
						6.2983	47.42276	30.84649	0.00000	-0.011410	d
						6.7482	47.00228	31.00644	0.00000	-0.011715	d
						7.1981	46.58180	31.16640	0.00000	-0.012020	d
	59	10S-07	10S-07		0.0	0.0	46.58180	31.16640	0.00000	-0.012020	d
						0.47216	46.77181	31.59864	0.00000	-0.010438	d
						0.94432	46.96181	32.03089	0.00000	-0.0087743	d
						1.4165	47.15182	32.46313	0.00000	-0.0070245	d
						1.8886	47.34183	32.89538	0.00000	-0.0051846	d
						2.3608	47.53183	33.32762	0.00000	-0.0032505	d
						2.8330	47.72184	33.75986	0.00000	-0.0012177	d
						3.3051	47.91184	34.19211	0.00000	918.47E-6	d
						3.7773	48.10185	34.62435	0.00000	0.0031630	d
						4.2495	48.29186	35.05659	0.00000	0.0055210	d
						4.7216	48.48186	35.48884	0.00000	0.0079980	d
						5.1938	48.67187	35.92108	0.00000	0.010600	d
						5.6659	48.86187	36.35332	0.00000	0.013332	d
						6.1381	49.05188	36.78557	0.00000	0.016202	d
						6.6103	49.24189	37.21781	0.00000	0.019215	d
						7.0824	49.43189	37.65006	0.00000	0.022379	d
						7.5546	49.62190	38.08230	0.00000	0.025702	d
						8.0268	49.81191	38.51454	0.00000	0.029190	d
						8.4989	50.00191	38.94679	0.00000	0.032853	d
						8.9711	50.19192	39.37903	0.00000	0.036699	d
						9.4432	50.38193	39.81127	0.00000	0.093802	d
						9.9154	50.57193	40.24352	0.00000	0.20794	d
						10.388	50.76194	40.67576	0.00000	0.31805	d
						10.860	50.95194	41.10801	0.00000	0.42598	d
						11.332	51.14195	41.54025	0.00000	0.53337	d
						11.804	51.33196	41.97249	0.00000	0.64171	d
						12.276	51.52196	42.40474	0.00000	0.75230	d
						12.748	51.71197	42.83698	0.00000	0.86630	d
						13.221	51.90198	43.26922	0.00000	0.98466	d
						13.693	52.09198	43.70147	0.00000	1.1082	d
						14.165	52.28199	44.13371	0.00000	1.2375	d
						14.637	52.47199	44.56596	0.00000	1.3730	d
						15.109	52.66200	44.99820	0.00000	1.5152	d
	60	10S-08	10S-08		0.0	0.0	52.66200	44.99820	0.00000	1.5152	d
						0.45225	53.08435	44.83650	0.00000	1.5693	d
						0.90449	53.50670	44.67480	0.00000	1.6207	d
						1.3567	53.92905	44.51310	0.00000	1.6689	d
						1.8090	54.35140	44.35140	0.00000	1.7136	d
						2.2612	54.77375	44.18970	0.00000	1.7544	d
						2.7135	55.19610	44.02800	0.00000	1.7911	d
						3.1657	55.61845	43.86630	0.00000	1.8233	d
						3.6180	56.04080	43.70460	0.00000	1.8507	d
						4.0702	56.46315	43.54290	0.00000	1.8732	d
						4.5225	56.88550	43.38120	0.00000	1.8904	d
						4.9747	57.30785	43.21950	0.00000	1.9022	d
						5.4270	57.73020	43.05780	0.00000	1.9086	d
						5.8792	58.15255	42.89610	0.00000	1.9093	d
						6.3314	58.57490	42.73440	0.00000	1.9054	d
						6.7837	58.99725	42.57270	0.00000	1.9042	d
						7.2359	59.41960	42.41100	0.00000	1.9026	d
						7.6882	59.84195	42.24930	0.00000	1.9008	d
						8.1404	60.26430	42.08760	0.00000	1.8986	d
	61	10S-09	10S-09		0.0	0.0	55.90000	34.60740	0.00000	0.031943	d
						0.43838	56.30750	34.44578	0.00000	0.032608	d
						0.87676	56.71500	34.28416	0.00000	0.033255	d
						1.3151	57.12250	34.12254	0.00000	0.033880	d
						1.7535	57.53000	33.96092	0.00000	0.034484	d
						2.1919	57.93750	33.79930	0.00000	0.035065	d
						2.6303	58.34500	33.63768	0.00000	0.035623	d
						3.0687	58.75250	33.47606	0.00000	0.036156	d
						3.5070	59.16000	33.31444	0.00000	0.036663	d
						3.9454	59.56750	33.15282	0.00000	0.037145	d
						4.3838	59.97500	32.99120	0.00000	0.037599	d
	62	10S-10	10S-10		0.0	0.0	59.97500	32.99120	0.00000	0.037599	d
						0.46737	59.79820	32.55856	0.00000	0.033330	d
						0.93475	59.62140	32.12591	0.00000	0.029284	d
						1.4021	59.44460	31.69327	0.00000	0.025448	d
						1.8695	59.26780	31.26063	0.00000	0.021811	d
						2.3369	59.09100	30.82799	0.00000	0.018361	d
						2.8042	58.91420	30.39534	0.00000	0.015089	d
						3.2716	58.73740	29.96270	0.00000	0.011984	d
						3.7390	58.56060	29.53006	0.00000	0.0090391	d
						4.2064	58.38380	29.09741	0.00000	0.0062444	d
						4.6737	58.20700	28.66477	0.00000	0.0035924	d
						5.1411	58.03020	28.23213	0.00000	0.0010758	d
						5.6085	57.85340	27.79949	0.00000	-0.0013124	d
						6.0759	57.67660	27.36684	0.00000	-0.0035787	d
						6.5432	57.49980	26.93420	0.00000	-0.0057293	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
		63	10S-11	10S-11	0.0	0.0	57.49980	26.93420	0.00000	-0.0057293	d
						0.45119	57.08077	27.10149	0.00000	-0.0058600	d
						0.90238	56.66174	27.26878	0.00000	-0.0060007	d
						1.3536	56.24271	27.43607	0.00000	-0.0061513	d
						1.8048	55.82368	27.60336	0.00000	-0.0063115	d
						2.2559	55.40465	27.77065	0.00000	-0.0064813	d
						2.7071	54.98562	27.93794	0.00000	-0.0066602	d
						3.1583	54.56659	28.10523	0.00000	-0.0068481	d
						3.6095	54.14756	28.27252	0.00000	-0.0070447	d
						4.0607	53.72853	28.43981	0.00000	-0.0072497	d
						4.5119	53.30950	28.60710	0.00000	-0.0074627	d
		64	12S-01	12S-01	0.0	0.0	56.42810	52.89730	0.00000	5.0168	d
						0.49308	56.90271	52.76362	0.00000	5.1399	d
						0.98615	57.37732	52.62994	0.00000	5.2424	d
						1.4792	57.85193	52.49626	0.00000	5.3228	d
						1.9723	58.32654	52.36258	0.00000	5.4738	d
						2.4654	58.80115	52.22890	0.00000	5.6381	d
						2.9585	59.27576	52.09522	0.00000	5.7948	d
						3.4515	59.75037	51.96154	0.00000	5.9431	d
						3.9446	60.22498	51.82786	0.00000	6.0822	d
						4.4377	60.69959	51.69418	0.00000	6.2104	d
						4.9308	61.17420	51.56050	0.00000	6.3190	d
						5.4238	61.64881	51.42682	0.00000	6.4064	d
						5.9169	62.12342	51.29314	0.00000	6.4944	d
						6.4100	62.59803	51.15946	0.00000	6.5981	d
						6.9031	63.07264	51.02578	0.00000	6.7258	d
						7.3962	63.54725	50.89210	0.00000	6.8491	d
						7.8892	64.02186	50.75842	0.00000	6.9686	d
						8.3823	64.49647	50.62474	0.00000	7.0849	d
						8.8754	64.97108	50.49106	0.00000	7.1983	d
						9.3685	65.44569	50.35738	0.00000	7.3093	d
						9.8615	65.92030	50.22370	0.00000	7.4182	d
						10.355	66.39491	50.09002	0.00000	7.5255	d
						10.848	66.86952	49.95634	0.00000	7.6489	d
						11.341	67.34413	49.82266	0.00000	7.8189	d
						11.834	67.81874	49.68898	0.00000	7.9872	d
						12.327	68.29335	49.55530	0.00000	8.1038	d
						12.820	68.76796	49.42162	0.00000	8.0951	d
						13.313	69.24257	49.28794	0.00000	8.0848	d
						13.806	69.71718	49.15426	0.00000	8.0732	d
						14.299	70.19179	49.02058	0.00000	8.0601	d
						14.792	70.66640	48.88690	0.00000	8.0456	d
		65	12S-02	12S-02	0.0	0.0	70.66640	48.88690	0.00000	8.0456	d
						0.47168	70.47116	48.45752	0.00000	7.7820	d
						0.94336	70.27592	48.02815	0.00000	7.5001	d
						1.4150	70.08067	47.59877	0.00000	7.2026	d
						1.8867	69.88543	47.16940	0.00000	6.8921	d
						2.3584	69.69019	46.74002	0.00000	6.5711	d
						2.8301	69.49495	46.31065	0.00000	6.2421	d
						3.3018	69.29971	45.88128	0.00000	5.9073	d
						3.7734	69.10447	45.45190	0.00000	5.5692	d
						4.2451	68.90922	45.02253	0.00000	5.2296	d
						4.7168	68.71398	44.59315	0.00000	4.8907	d
						5.1885	68.51874	44.16378	0.00000	4.5542	d
						5.6602	68.32350	43.73440	0.00000	4.2219	d
		66	12S-03	12S-03	0.0	0.0	68.32350	43.73440	0.00000	4.2219	d
						0.27923	68.05865	43.82285	0.00000	4.2263	d
						0.55846	67.79380	43.91130	0.00000	4.2549	d
						0.83769	67.52895	43.99975	0.00000	4.2832	d
						1.1169	67.26410	44.08820	0.00000	4.3113	d
		67	12S-04	12S-04	0.0	0.0	67.26410	44.08820	0.00000	4.3113	d
						0.43774	67.10714	43.67957	0.00000	4.0293	d
						0.87548	66.95018	43.27094	0.00000	3.7535	d
						1.3132	66.79322	42.86231	0.00000	3.4851	d
						1.7510	66.63626	42.45368	0.00000	3.2250	d
						2.1887	66.47930	42.04505	0.00000	2.9739	d
						2.6264	66.32234	41.63642	0.00000	2.7325	d
						3.0642	66.16538	41.22779	0.00000	2.5011	d
						3.5019	66.00842	40.81916	0.00000	2.2800	d
						3.9396	65.85146	40.41053	0.00000	2.0694	d
						4.3774	65.69450	40.00190	0.00000	1.8691	d
		68	12S-05	12S-05	0.0	0.0	65.69450	40.00190	0.00000	1.8691	d
						0.49007	65.23740	40.17862	0.00000	1.8671	d
						0.98014	64.78030	40.35534	0.00000	1.8557	d
						1.4702	64.32320	40.53206	0.00000	1.8622	d
						1.9603	63.86610	40.70879	0.00000	1.8683	d
						2.4504	63.40900	40.88551	0.00000	1.8741	d
						2.9404	62.95190	41.06223	0.00000	1.8795	d
						3.4305	62.49480	41.23895	0.00000	1.8845	d
						3.9206	62.03770	41.41567	0.00000	1.8891	d
						4.4107	61.58060	41.59239	0.00000	1.8934	d
						4.9007	61.12350	41.76911	0.00000	1.8973	d
						5.3908	60.66640	41.94584	0.00000	1.9009	d
						5.8809	60.20930	42.12256	0.00000	1.9041	d
						6.3709	59.75220	42.29928	0.00000	1.9069	d
						6.8610	59.29510	42.47600	0.00000	1.9094	d
						7.3511	58.83800	42.65272	0.00000	1.9116	d
						7.8412	58.38090	42.82944	0.00000	1.9149	d
						8.3312	57.92380	43.00616	0.00000	1.9177	d
						8.8213	57.46670	43.18289	0.00000	1.9138	d
						9.3114	57.00960	43.35961	0.00000	1.9034	d
						9.8014	56.55250	43.53633	0.00000	1.8865	d
						10.292	56.09540	43.71305	0.00000	1.8635	d
						10.782	55.63830	43.88977	0.00000	1.8345	d
						11.272	55.18120	44.06649	0.00000	1.7999	d
						11.762	54.72410	44.24321	0.00000	1.7600	d
						12.252	54.26700	44.41994	0.00000	1.7152	d
						12.742	53.80990	44.59666	0.00000	1.6659	d
						13.232	53.35280	44.77338	0.00000	1.6125	d
						13.722	52.89570	44.95010	0.00000	1.5556	d
		69	12S-06	12S-06	0.0	0.0	52.89570	44.95010	0.00000	1.5556	d
						0.48316	53.09194	45.39161	0.00000	1.7113	d
						0.96632	53.28819	45.83312	0.00000	1.8741	d
						1.4495	53.48443	46.27463	0.00000	2.0438	d
						1.9326	53.68068	46.71614	0.00000	2.2201	d
						2.4158	53.87692	47.15766	0.00000	2.4022	d
						2.8990	54.07317	47.59917	0.00000	2.5895	d
						3.3821	54.26941	48.04068	0.00000	2.7811	d
						3.8653	54.46566	48.48219	0.00000	2.9757	d
						4.3484	54.66190	48.92370	0.00000	3.1722	d
						4.8316	54.85814	49.36521	0.00000	3.3691	d
						5.3148	55.05439	49.80672	0.00000	3.5650	d
						5.7979	55.25063	50.24823	0.00000	3.7581	d
						6.2811	55.44688	50.68974	0.00000	3.9562	d
						6.7642	55.64312	51.13126	0.00000	4.1714	d
						7.2474	55.83937	51.57277	0.00000	4.3862	d
						7.7306	56.03561	52.01428	0.00000	4.5994	d
						8.2137	56.23186	52.45579	0.00000	4.8100	d
						8.6969	56.42810	52.89730	0.00000	5.0168	d
		70	14S-01	14S-01	0.0	0.0	92.77120	50.75620	0.00000	12.193	d
						0.48973	93.25995	50.72525	0.00000	12.326	d
						0.97946	93.74870	50.69430	0.00000	12.460	d
						1.4692	94.23745	50.66335	0.00000	12.593	d
						1.9589	94.72620	50.63240	0.00000	12.723	d
						2.4486	95.21495	50.60145	0.00000	12.849	d
						2.9384	95.70370	50.57050	0.00000	12.968	d
						3.4281	96.19245	50.53955	0.00000	13.078	d
						3.9178	96.68120	50.50860	0.00000	13.245	d
						4.4076	97.16995	50.47765	0.00000	13.459	d
						4.8973	97.65870	50.44670	0.00000	13.669	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						5.3870	98.14745	50.41575	0.00000	13.877	d
						5.8767	98.63620	50.38480	0.00000	14.085	d
		71	14S-02	14S-02	0.0	0.0	98.63620	50.38480	0.00000	14.085	d
						0.49211	98.62403	49.89284	0.00000	13.518	d
						0.98421	98.61185	49.40089	0.00000	13.115	d
						1.4763	98.59968	48.90893	0.00000	12.717	d
						1.9684	98.58751	48.41697	0.00000	12.310	d
						2.4605	98.57533	47.92502	0.00000	11.896	d
						2.9526	98.56316	47.43306	0.00000	11.477	d
						3.4448	98.55099	46.94110	0.00000	11.057	d
						3.9369	98.53881	46.44915	0.00000	10.637	d
						4.4290	98.52664	45.95719	0.00000	10.218	d
						4.9211	98.51447	45.46523	0.00000	9.8022	d
						5.4132	98.50229	44.97328	0.00000	9.3901	d
						5.9053	98.49012	44.48132	0.00000	8.9824	d
						6.3974	98.47795	43.98936	0.00000	8.5803	d
						6.8895	98.46577	43.49741	0.00000	8.1845	d
						7.3816	98.45360	43.00545	0.00000	7.7959	d
						7.8737	98.44143	42.51349	0.00000	7.4154	d
						8.3658	98.42925	42.02154	0.00000	7.0437	d
						8.8579	98.41708	41.52958	0.00000	6.6817	d
						9.3500	98.40491	41.03762	0.00000	6.3299	d
						9.8421	98.39273	40.54567	0.00000	5.9890	d
						10.334	98.38056	40.05371	0.00000	5.6593	d
						10.826	98.36839	39.56175	0.00000	5.3414	d
						11.318	98.35621	39.06980	0.00000	5.0353	d
						11.811	98.34404	38.57784	0.00000	4.7414	d
						12.303	98.33187	38.08588	0.00000	4.4594	d
						12.795	98.31969	37.59393	0.00000	4.1895	d
						13.287	98.30752	37.10197	0.00000	3.9311	d
						13.779	98.29535	36.61001	0.00000	3.6840	d
						14.271	98.28317	36.11806	0.00000	3.4474	d
						14.763	98.27100	35.62610	0.00000	3.2208	d
		72	14S-03	14S-03	0.0	0.0	98.27100	35.62610	0.00000	3.2208	d
						0.43680	97.83503	35.65297	0.00000	3.2167	d
						0.87360	97.39906	35.67984	0.00000	3.2089	d
						1.3104	96.96309	35.70671	0.00000	3.1972	d
						1.7472	96.52711	35.73359	0.00000	3.1817	d
						2.1840	96.09114	35.76046	0.00000	3.1624	d
						2.6208	95.65517	35.78733	0.00000	3.1391	d
						3.0576	95.21920	35.81420	0.00000	3.1118	d
						3.4944	94.78323	35.84107	0.00000	3.0805	d
						3.9312	94.34726	35.86794	0.00000	3.0450	d
						4.3680	93.91129	35.89481	0.00000	3.0052	d
						4.8048	93.47531	35.92169	0.00000	2.9611	d
						5.2416	93.03934	35.94856	0.00000	2.9124	d
						5.6784	92.60337	35.97543	0.00000	2.8591	d
						6.1152	92.16740	36.00230	0.00000	2.8009	d
		73	14S-04	14S-04	0.0	0.0	92.16740	36.00230	0.00000	2.8009	d
						0.37863	92.20622	35.62567	0.00000	2.6503	d
						0.75726	92.24503	35.24903	0.00000	2.4990	d
						1.1359	92.28385	34.87240	0.00000	2.3403	d
						1.5145	92.32267	34.49577	0.00000	2.2113	d
						1.8931	92.36148	34.11913	0.00000	2.0844	d
						2.2718	92.40030	33.74250	0.00000	1.9593	d
		74	14S-05	14S-05	0.0	0.0	92.40030	33.74250	0.00000	1.9593	d
						0.41939	91.98313	33.69950	0.00000	1.9017	d
						0.83877	91.56595	33.65650	0.00000	1.8420	d
						1.2582	91.14878	33.61350	0.00000	1.7801	d
						1.6775	90.73160	33.57050	0.00000	1.7165	d
						2.0969	90.31442	33.52750	0.00000	1.6950	d
						2.5163	89.89725	33.48450	0.00000	1.6716	d
						2.9357	89.48007	33.44150	0.00000	1.6463	d
						3.3551	89.06290	33.39850	0.00000	1.6192	d
						3.7745	88.64572	33.35550	0.00000	1.5906	d
						4.1939	88.22855	33.31250	0.00000	1.5605	d
						4.6132	87.81137	33.26950	0.00000	1.5290	d
						5.0326	87.39420	33.22650	0.00000	1.4963	d
		75	14S-06	14S-06	0.0	0.0	87.39420	33.22650	0.00000	1.4963	d
						0.41438	86.98952	33.13740	0.00000	1.4548	d
						0.82875	86.58483	33.04830	0.00000	1.4129	d
						1.2431	86.18015	32.95920	0.00000	1.3704	d
						1.6575	85.77547	32.87010	0.00000	1.3276	d
						2.0719	85.37078	32.78100	0.00000	1.2846	d
						2.4863	84.96610	32.69190	0.00000	1.2413	d
		76	14S-07	14S-07	0.0	0.0	84.96610	32.69190	0.00000	1.2413	d
						0.45451	84.91494	33.14352	0.00000	1.3100	d
						0.90902	84.86377	33.59514	0.00000	1.4086	d
						1.3635	84.81261	34.04676	0.00000	1.5801	d
						1.8180	84.76144	34.49839	0.00000	1.7511	d
						2.2726	84.71028	34.95001	0.00000	1.9224	d
						2.7271	84.65911	35.40163	0.00000	2.0952	d
						3.1816	84.60795	35.85325	0.00000	2.2701	d
						3.6361	84.55679	36.30487	0.00000	2.4479	d
						4.0906	84.50562	36.75649	0.00000	2.6294	d
						4.5451	84.45446	37.20811	0.00000	2.8148	d
						4.9996	84.40329	37.65974	0.00000	3.0048	d
						5.4541	84.35213	38.11136	0.00000	3.1996	d
						5.9086	84.30096	38.56298	0.00000	3.3994	d
						6.3631	84.24980	39.01460	0.00000	3.6043	d
		77	14S-08	14S-08	0.0	0.0	84.24980	39.01460	0.00000	3.6043	d
						0.47266	84.72059	39.05661	0.00000	3.6261	d
						0.94533	85.19139	39.09861	0.00000	3.6458	d
						1.4180	85.66218	39.14062	0.00000	3.6635	d
						1.8907	86.13297	39.18263	0.00000	3.7243	d
						2.3633	86.60377	39.22463	0.00000	3.7867	d
						2.8360	87.07456	39.26664	0.00000	3.8472	d
						3.3086	87.54536	39.30864	0.00000	3.9057	d
						3.7813	88.01615	39.35065	0.00000	3.9671	d
						4.2540	88.48694	39.39266	0.00000	4.0451	d
						4.7266	88.95774	39.43466	0.00000	4.1171	d
						5.1993	89.42853	39.47667	0.00000	4.1837	d
						5.6720	89.89933	39.51868	0.00000	4.2451	d
						6.1446	90.37012	39.56068	0.00000	4.3015	d
						6.6173	90.84091	39.60269	0.00000	4.3530	d
						7.0900	91.31171	39.64469	0.00000	4.3996	d
						7.5626	91.78250	39.68670	0.00000	4.4412	d
		78	14S-09	14S-09	0.0	0.0	91.78250	39.68670	0.00000	4.4412	d
						0.45206	91.74112	40.13687	0.00000	4.7051	d
						0.90413	91.69975	40.58703	0.00000	4.9695	d
						1.3562	91.65838	41.03720	0.00000	5.2348	d
						1.8083	91.61700	41.48737	0.00000	5.5013	d
						2.2603	91.57563	41.93753	0.00000	5.7690	d
						2.7124	91.53425	42.38770	0.00000	6.0379	d
						3.1644	91.49287	42.83787	0.00000	6.3079	d
						3.6165	91.45150	43.28803	0.00000	6.5790	d
						4.0686	91.41012	43.73820	0.00000	6.8508	d
						4.5206	91.36875	44.18837	0.00000	7.1231	d
						4.9727	91.32738	44.63853	0.00000	7.3955	d
						5.4248	91.28600	45.08870	0.00000	7.6676	d
		79	14S-10	14S-10	0.0	0.0	91.28600	45.08870	0.00000	7.6676	d
						0.36863	91.65398	45.11068	0.00000	7.7351	d
						0.73726	92.02195	45.13265	0.00000	7.8049	d
						1.1059	92.38993	45.15463	0.00000	7.8768	d
						1.4745	92.75790	45.17660	0.00000	7.9506	d
		80	14S-11	14S-11	0.0	0.0	92.75790	45.17660	0.00000	7.9506	d
						0.46497	92.75901	45.64157	0.00000	8.2544	d
						0.92994	92.76012	46.10653	0.00000	8.5574	d
						1.3949	92.76122	46.57150	0.00000	8.8592	d
						1.8599	92.76233	47.03647	0.00000	9.2266	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						2.3248	92.76344	47.50143	0.00000	9.5990	d
						2.7898	92.76455	47.96640	0.00000	9.9726	d
						3.2548	92.76566	48.43137	0.00000	10.346	d
						3.7197	92.76677	48.89633	0.00000	10.720	d
						4.1847	92.76788	49.36130	0.00000	11.092	d
						4.6497	92.76898	49.82627	0.00000	11.462	d
						5.1146	92.77009	50.29123	0.00000	11.829	d
						5.5796	92.77120	50.75620	0.00000	12.193	d
		81	14S-12	14S-12	0.0	0.0	91.78250	39.68670	0.00000	4.4412	d
						0.46306	91.83061	39.22615	0.00000	4.1716	d
						0.92611	91.87873	38.76560	0.00000	3.9208	d
						1.3892	91.92684	38.30505	0.00000	3.7299	d
						1.8522	91.97495	37.84450	0.00000	3.5412	d
						2.3153	92.02306	37.38395	0.00000	3.3544	d
						2.7783	92.07117	36.92340	0.00000	3.1691	d
						3.2414	92.11929	36.46285	0.00000	2.9848	d
						3.7045	92.16740	36.00230	0.00000	2.8009	d
		82	18S-01	18S-01	0.0	0.0	81.33400	88.63190	0.00000	5.5635	d
						0.49752	81.61613	89.04169	0.00000	5.4212	d
						0.99503	81.89826	89.45148	0.00000	5.2734	d
						1.4926	82.18038	89.86127	0.00000	5.1253	d
						1.9901	82.46251	90.27106	0.00000	5.0057	d
						2.4876	82.74464	90.68084	0.00000	4.8849	d
						2.9851	83.02677	91.09063	0.00000	4.7629	d
						3.4826	83.30889	91.50042	0.00000	4.6398	d
						3.9801	83.59102	91.91021	0.00000	4.5158	d
						4.4777	83.87315	92.32000	0.00000	4.3908	d
						4.9752	84.15528	92.72979	0.00000	4.2648	d
						5.4727	84.43741	93.13958	0.00000	4.1378	d
						5.9702	84.71953	93.54937	0.00000	4.0097	d
						6.4677	85.00166	93.95916	0.00000	3.8803	d
						6.9652	85.28379	94.36894	0.00000	3.7494	d
						7.4628	85.56592	94.77873	0.00000	3.6169	d
						7.9603	85.84804	95.18852	0.00000	3.4825	d
						8.4578	86.13017	95.59831	0.00000	3.3459	d
						8.9553	86.41230	96.00810	0.00000	3.2067	d
		83	18S-02	18S-02	0.0	0.0	86.41230	96.00810	0.00000	3.2067	d
						0.48923	86.82094	95.73911	0.00000	3.4022	d
						0.97846	87.22959	95.47012	0.00000	3.6039	d
						1.4677	87.63823	95.20114	0.00000	3.8118	d
						1.9569	88.04688	94.93215	0.00000	4.0261	d
						2.4461	88.45552	94.66316	0.00000	4.2469	d
						2.9354	88.86416	94.39418	0.00000	4.4745	d
						3.4246	89.27281	94.12519	0.00000	4.7087	d
						3.9138	89.68145	93.85620	0.00000	4.9498	d
						4.4031	90.09009	93.58721	0.00000	5.1976	d
						4.8923	90.49874	93.31822	0.00000	5.4522	d
						5.3815	90.90738	93.04924	0.00000	5.7219	d
						5.8707	91.31602	92.78025	0.00000	6.0112	d
						6.3600	91.72467	92.51126	0.00000	6.3071	d
						6.8492	92.13331	92.24228	0.00000	6.6093	d
						7.3384	92.54196	91.97329	0.00000	6.9173	d
						7.8276	92.95060	91.70430	0.00000	7.2418	d
		84	18S-03	18S-03	0.0	0.0	92.95060	91.70430	0.00000	7.2418	d
						0.35410	92.75582	91.40858	0.00000	7.3818	d
						0.70821	92.56103	91.11287	0.00000	7.5278	d
						1.0623	92.36625	90.81715	0.00000	7.6691	d
						1.4164	92.17147	90.52143	0.00000	7.8061	d
						1.7705	91.97668	90.22572	0.00000	7.9389	d
						2.1246	91.78190	89.93000	0.00000	8.0678	d
		85	18S-04	18S-04	0.0	0.0	91.78190	89.93000	0.00000	8.0678	d
						0.43664	91.41813	90.17150	0.00000	7.7690	d
						0.87328	91.05435	90.41300	0.00000	7.4761	d
						1.3099	90.69057	90.65450	0.00000	7.1892	d
						1.7466	90.32680	90.89600	0.00000	6.9083	d
		86	18S-05	18S-05	0.0	0.0	90.32680	90.89600	0.00000	6.9083	d
						0.49179	90.05324	90.48731	0.00000	7.0705	d
						0.98359	89.77967	90.07863	0.00000	7.2283	d
						1.4754	89.50611	89.66994	0.00000	7.3824	d
						1.9672	89.23254	89.26126	0.00000	7.5333	d
						2.4590	88.95898	88.85257	0.00000	7.6816	d
						2.9508	88.68541	88.44389	0.00000	7.8277	d
						3.4426	88.41185	88.03520	0.00000	7.9722	d
						3.9344	88.13829	87.62651	0.00000	8.1156	d
						4.4261	87.86472	87.21783	0.00000	8.2586	d
						4.9179	87.59116	86.80914	0.00000	8.4021	d
						5.4097	87.31759	86.40046	0.00000	8.5452	d
						5.9015	87.04403	85.99177	0.00000	8.6885	d
						6.3933	86.77046	85.58309	0.00000	8.8322	d
						6.8851	86.49690	85.17440	0.00000	8.9627	d
		87	20S-01	20S-01	0.0	0.0	86.41230	96.00810	0.00000	3.2067	d
						0.37387	86.09843	96.21123	0.00000	3.0621	d
						0.74773	85.78457	96.41437	0.00000	2.9207	d
						1.1216	85.47070	96.61750	0.00000	2.7826	d
						1.4955	85.15683	96.82063	0.00000	2.6476	d
						1.8693	84.84297	97.02377	0.00000	2.5155	d
						2.2432	84.52910	97.22690	0.00000	2.3863	d
		88	20S-02	20S-02	0.0	0.0	84.52910	97.22690	0.00000	2.3863	d
						0.44166	84.77199	97.59577	0.00000	2.2688	d
						0.88331	85.01487	97.96464	0.00000	2.1493	d
						1.3250	85.25776	98.33351	0.00000	2.0365	d
						1.7666	85.50064	98.70239	0.00000	2.0045	d
						2.2083	85.74353	99.07126	0.00000	1.9712	d
						2.6499	85.98641	99.44013	0.00000	1.9368	d
						3.0916	86.22930	99.80900	0.00000	1.9013	d
						3.5332	86.47219	100.17787	0.00000	1.8648	d
						3.9749	86.71507	100.54674	0.00000	1.8273	d
						4.4166	86.95796	100.91561	0.00000	1.7889	d
						4.8582	87.20084	101.28449	0.00000	1.7497	d
						5.2999	87.44373	101.65336	0.00000	1.7097	d
						5.7415	87.68661	102.02223	0.00000	1.6691	d
						6.1832	87.92950	102.39110	0.00000	1.6278	d
		89	20S-03	20S-03	0.0	0.0	87.92950	102.39110	0.00000	1.6278	d
						0.45803	88.31205	102.13921	0.00000	1.7424	d
						0.91605	88.69459	101.88733	0.00000	1.8615	d
						1.3741	89.07714	101.63544	0.00000	1.9853	d
						1.8321	89.45968	101.38355	0.00000	2.1138	d
						2.2901	89.84223	101.13167	0.00000	2.2474	d
						2.7482	90.22477	100.87978	0.00000	2.3861	d
						3.2062	90.60732	100.62790	0.00000	2.5300	d
						3.6642	90.98986	100.37601	0.00000	2.6792	d
						4.1222	91.37241	100.12412	0.00000	2.8337	d
						4.5803	91.75495	99.87224	0.00000	2.9936	d
						5.0383	92.13750	99.62035	0.00000	3.1589	d
						5.4963	92.52005	99.36846	0.00000	3.3295	d
						5.9543	92.90259	99.11658	0.00000	3.5055	d
						6.4124	93.28514	98.86469	0.00000	3.6867	d
						6.8704	93.66768	98.61280	0.00000	3.8731	d
						7.3284	94.05023	98.36092	0.00000	4.0645	d
						7.7864	94.43277	98.10903	0.00000	4.2608	d
						8.2445	94.81532	97.85715	0.00000	4.4862	d
						8.7025	95.19786	97.60526	0.00000	4.7263	d
						9.1605	95.58041	97.35337	0.00000	4.9711	d
						9.6185	95.96295	97.10149	0.00000	5.2205	d
						10.077	96.34550	96.84960	0.00000	5.4741	d
		90	20S-04	20S-04	0.0	0.0	96.34550	96.84960	0.00000	5.4741	d
						0.44039	96.10331	96.48179	0.00000	5.6209	d
						0.88078	95.86113	96.11397	0.00000	5.7655	d
						1.3212	95.61894	95.74616	0.00000	5.9077	d
						1.7616	95.37676	95.37834	0.00000	6.0472	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						2.2019	95.13457	95.01053	0.00000	6.1839	d
						2.6423	94.89239	94.64271	0.00000	6.3174	d
						3.0827	94.65020	94.27490	0.00000	6.4476	d
						3.5231	94.40801	93.90709	0.00000	6.5742	d
						3.9635	94.16583	93.53927	0.00000	6.6970	d
						4.4039	93.92364	93.17146	0.00000	6.8158	d
						4.8443	93.68146	92.80364	0.00000	6.9303	d
						5.2847	93.43927	92.43583	0.00000	7.0404	d
						5.7250	93.19709	92.06801	0.00000	7.1458	d
						6.1654	92.95490	91.70020	0.00000	7.2463	d
	91	20S-05	20S-05		0.0	0.0	87.93150	102.38980	0.00000	1.6284	d
						0.43506	88.17202	102.75233	0.00000	1.5877	d
						0.87012	88.41253	103.11487	0.00000	1.5464	d
						1.3052	88.65305	103.47740	0.00000	1.5048	d
						1.7402	88.89357	103.83993	0.00000	1.4629	d
						2.1753	89.13408	104.20247	0.00000	1.4207	d
						2.6104	89.37460	104.56500	0.00000	1.3783	d
	92	20S-06	20S-06		0.0	0.0	89.37460	104.56500	0.00000	1.3783	d
						0.45769	89.76970	104.33398	0.00000	1.4741	d
						0.91538	90.16481	104.10295	0.00000	1.5730	d
						1.3731	90.55991	103.87193	0.00000	1.6752	d
						1.8308	90.95502	103.64091	0.00000	1.7808	d
						2.2884	91.35012	103.40989	0.00000	1.8898	d
						2.7461	91.74523	103.17886	0.00000	2.0024	d
						3.2038	92.14033	102.94784	0.00000	2.1187	d
						3.6615	92.53544	102.71682	0.00000	2.2385	d
						4.1192	92.93054	102.48580	0.00000	2.3619	d
						4.5769	93.32565	102.25477	0.00000	2.4890	d
						5.0346	93.72075	102.02375	0.00000	2.6196	d
						5.4923	94.11585	101.79273	0.00000	2.7536	d
						5.9500	94.51096	101.56170	0.00000	2.8911	d
						6.4076	94.90606	101.33068	0.00000	3.0318	d
						6.8653	95.30117	101.09966	0.00000	3.1757	d
						7.3230	95.69627	100.86864	0.00000	3.3224	d
						7.7807	96.09138	100.63761	0.00000	3.4720	d
						8.2384	96.48648	100.40659	0.00000	3.6241	d
						8.6961	96.88159	100.17557	0.00000	3.7822	d
						9.1538	97.27669	99.94455	0.00000	3.9786	d
						9.6115	97.67180	99.71352	0.00000	4.1774	d
						10.069	98.06690	99.48250	0.00000	4.3783	d
	93	20S-07	20S-07		0.0	0.0	98.06690	99.48250	0.00000	4.3783	d
						0.39321	97.85066	99.15409	0.00000	4.5171	d
						0.78642	97.63443	98.82568	0.00000	4.6556	d
						1.1796	97.41819	98.49726	0.00000	4.7934	d
						1.5728	97.20195	98.16885	0.00000	4.9305	d
						1.9660	96.98571	97.84044	0.00000	5.0668	d
						2.3593	96.76947	97.51202	0.00000	5.2019	d
						2.7525	96.55324	97.18361	0.00000	5.3359	d
						3.1457	96.33700	96.85520	0.00000	5.4684	d
	94	HT-01	HT-01		0.0	0.0	89.37270	104.57010	0.00000	1.3771	d
						0.28136	89.13047	104.71325	0.00000	1.3195	d
						0.56273	88.88825	104.85640	0.00000	1.2631	d
						0.84409	88.64603	104.99955	0.00000	1.2077	d
						1.1255	88.40380	105.14270	0.00000	1.1532	d
	95	HT-02	HT-02		0.0	0.0	88.40380	105.14270	0.00000	1.1532	d
						0.47611	88.64137	105.55530	0.00000	1.1075	d
						0.95221	88.87894	105.96789	0.00000	1.0620	d
						1.4283	89.11652	106.38049	0.00000	1.0167	d
						1.9044	89.35409	106.79309	0.00000	0.97177	d
						2.3805	89.59166	107.20569	0.00000	0.92720	d
						2.8566	89.82923	107.61828	0.00000	0.88304	d
						3.3327	90.06681	108.03088	0.00000	0.83932	d
						3.8088	90.30438	108.44348	0.00000	0.79608	d
						4.2850	90.54195	108.85608	0.00000	0.75333	d
						4.7611	90.77952	109.26867	0.00000	0.71111	d
						5.2372	91.01709	109.68127	0.00000	0.66943	d
						5.7133	91.25467	110.09387	0.00000	0.62828	d
						6.1894	91.49224	110.50646	0.00000	0.58943	d
						6.6655	91.72981	110.91906	0.00000	0.55142	d
						7.1416	91.96738	111.33166	0.00000	0.51376	d
						7.6177	92.20496	111.74426	0.00000	0.47646	d
						8.0938	92.44253	112.15685	0.00000	0.43947	d
						8.5699	92.68010	112.56945	0.00000	0.40277	d
						9.0460	92.91767	112.98205	0.00000	0.36631	d
						9.5221	93.15524	113.39464	0.00000	0.33005	d
						9.9982	93.39282	113.80724	0.00000	0.29392	d
						10.474	93.63039	114.21984	0.00000	0.25787	d
						10.950	93.86796	114.63244	0.00000	0.22181	d
						11.427	94.10553	115.04503	0.00000	0.18565	d
						11.903	94.34311	115.45763	0.00000	0.14931	d
						12.379	94.58068	115.87023	0.00000	0.13502	d
						12.855	94.81825	116.28283	0.00000	0.12513	d
						13.331	95.05582	116.69542	0.00000	0.11535	d
						13.807	95.29339	117.10802	0.00000	0.10563	d
						14.283	95.53097	117.52062	0.00000	0.095950	d
						14.759	95.76854	117.93321	0.00000	0.086257	d
						15.235	96.00611	118.34581	0.00000	0.076514	d
						15.712	96.24368	118.75841	0.00000	0.066680	d
						16.188	96.48126	119.17101	0.00000	0.056714	d
						16.664	96.71883	119.58360	0.00000	0.046572	d
						17.140	96.95640	119.99620	0.00000	0.036214	d
	96	HT-03	HT-03		0.0	0.0	96.95640	119.99620	0.00000	0.036214	d
						0.48235	97.37429	119.75529	0.00000	0.047229	d
						0.96471	97.79217	119.51438	0.00000	0.057085	d
						1.4471	98.21006	119.27347	0.00000	0.065968	d
						1.9294	98.62795	119.03256	0.00000	0.074046	d
						2.4118	99.04583	118.79165	0.00000	0.081475	d
						2.8941	99.46372	118.55075	0.00000	0.088396	d
						3.3765	99.88160	118.30984	0.00000	0.094935	d
						3.8588	100.29949	118.06893	0.00000	0.12627	d
						4.3412	100.71738	117.82802	0.00000	0.16604	d
						4.8235	101.13526	117.58711	0.00000	0.20368	d
						5.3059	101.55315	117.34620	0.00000	0.23940	d
						5.7883	101.97104	117.10529	0.00000	0.27338	d
						6.2706	102.38892	116.86438	0.00000	0.30580	d
						6.7530	102.80681	116.62347	0.00000	0.33683	d
						7.2353	103.22470	116.38256	0.00000	0.36660	d
						7.7177	103.64258	116.14165	0.00000	0.39524	d
						8.2000	104.06047	115.90075	0.00000	0.42286	d
						8.6824	104.47835	115.65984	0.00000	0.44957	d
						9.1647	104.89624	115.41893	0.00000	0.47546	d
						9.6471	105.31413	115.17802	0.00000	0.50059	d
						10.129	105.73201	114.93711	0.00000	0.52502	d
						10.612	106.14990	114.69620	0.00000	0.54880	d
	97	HT-04	HT-04		0.0	0.0	106.14990	114.69620	0.00000	0.54880	d
						0.47693	105.91119	114.28331	0.00000	0.59385	d
						0.95385	105.67248	113.87042	0.00000	0.64135	d
						1.4308	105.43377	113.45753	0.00000	0.69141	d
						1.9077	105.19507	113.04464	0.00000	0.74417	d
						2.3846	104.95636	112.63176	0.00000	0.79974	d
						2.8616	104.71765	112.21887	0.00000	0.85819	d
						3.3385	104.47894	111.80598	0.00000	0.91963	d
						3.8154	104.24023	111.39309	0.00000	0.98412	d
						4.2923	104.00153	110.98020	0.00000	1.0517	d
						4.7693	103.76282	110.56731	0.00000	1.1225	d
						5.2462	103.52411	110.15442	0.00000	1.1964	d
						5.7231	103.28540	109.74153	0.00000	1.2735	d
						6.2000	103.04669	109.32864	0.00000	1.3539	d
						6.6770	102.80798	108.91576	0.00000	1.4375	d
						7.1539	102.56928	108.50287	0.00000	1.5243	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						7.6308	102.33057	108.08998	0.00000	1.6143	d
						8.1078	102.09186	107.67709	0.00000	1.7075	d
						8.5847	101.85315	107.26420	0.00000	1.8038	d
						9.0616	101.61444	106.85131	0.00000	1.9031	d
						9.5385	101.37573	106.43842	0.00000	2.0055	d
						10.015	101.13702	106.02553	0.00000	2.1107	d
						10.492	100.89832	105.61264	0.00000	2.2188	d
						10.969	100.65961	105.19976	0.00000	2.3296	d
						11.446	100.42090	104.78687	0.00000	2.4431	d
						11.923	100.18219	104.37398	0.00000	2.5590	d
						12.400	99.94348	103.96109	0.00000	2.6774	d
						12.877	99.70477	103.54820	0.00000	2.7980	d
						13.354	99.46607	103.13531	0.00000	2.9207	d
						13.831	99.22736	102.72242	0.00000	3.0453	d
						14.308	98.98865	102.30953	0.00000	3.1718	d
						14.785	98.74994	101.89664	0.00000	3.2998	d
						15.262	98.51123	101.48376	0.00000	3.4313	d
						15.739	98.27253	101.07087	0.00000	3.5810	d
						16.216	98.03382	100.65798	0.00000	3.7487	d
						16.692	97.79511	100.24509	0.00000	3.9201	d
						17.169	97.55640	99.83220	0.00000	4.0920	d
		98	22S-01	22S-01	0.0	0.0	111.36030	124.06920	0.00000	0.021837	d
						0.47735	111.81115	123.91236	0.00000	0.023429	d
						0.95470	112.26200	123.75551	0.00000	0.024716	d
						1.4321	112.71285	123.59867	0.00000	0.025726	d
						1.9094	113.16370	123.44183	0.00000	0.026486	d
						2.3868	113.61455	123.28499	0.00000	0.027019	d
						2.8641	114.06540	123.12814	0.00000	0.027344	d
						3.3415	114.51625	122.97130	0.00000	0.027480	d
						3.8188	114.96710	122.81446	0.00000	0.027444	d
						4.2962	115.41795	122.65761	0.00000	0.027250	d
						4.7735	115.86880	122.50077	0.00000	0.026910	d
						5.2509	116.31965	122.34393	0.00000	0.026973	d
						5.7282	116.77050	122.18709	0.00000	0.028445	d
						6.2056	117.22135	122.03024	0.00000	0.029948	d
						6.6829	117.67220	121.87340	0.00000	0.031483	d
		99	22S-02	22S-02	0.0	0.0	117.67220	121.87340	0.00000	0.031483	d
						0.49713	117.50862	121.40396	0.00000	0.034327	d
						0.99425	117.34504	120.93452	0.00000	0.063264	d
						1.4914	117.18146	120.46507	0.00000	0.089334	d
						1.9885	117.01788	119.99563	0.00000	0.11259	d
						2.4856	116.85430	119.52619	0.00000	0.13355	d
						2.9828	116.69073	119.05675	0.00000	0.15269	d
						3.4799	116.52715	118.58731	0.00000	0.17048	d
						3.9770	116.36357	118.11787	0.00000	0.18736	d
						4.4741	116.19999	117.64843	0.00000	0.20376	d
						4.9713	116.03641	117.17898	0.00000	0.22428	d
						5.4684	115.87283	116.70954	0.00000	0.24610	d
						5.9655	115.70925	116.24010	0.00000	0.26960	d
						6.4626	115.54567	115.77066	0.00000	0.29519	d
						6.9598	115.38209	115.30122	0.00000	0.32327	d
						7.4569	115.21851	114.83178	0.00000	0.35422	d
						7.9540	115.05493	114.36233	0.00000	0.38841	d
						8.4511	114.89135	113.89289	0.00000	0.42618	d
						8.9483	114.72778	113.42345	0.00000	0.46787	d
						9.4454	114.56420	112.95401	0.00000	0.51378	d
						9.9425	114.40062	112.48457	0.00000	0.56422	d
						10.440	114.23704	112.01513	0.00000	0.61947	d
						10.937	114.07346	111.54568	0.00000	0.67980	d
						11.434	113.90988	111.07624	0.00000	0.74546	d
						11.931	113.74630	110.60680	0.00000	0.81668	d
		100	22S-03	22S-03	0.0	0.0	113.74630	110.60680	0.00000	0.81668	d
						0.47885	113.29409	110.76428	0.00000	0.82322	d
						0.95770	112.84187	110.92176	0.00000	0.82804	d
						1.4365	112.38966	111.07924	0.00000	0.83117	d
						1.9154	111.93744	111.23671	0.00000	0.83266	d
						2.3942	111.48523	111.39419	0.00000	0.83253	d
						2.8731	111.03301	111.55167	0.00000	0.83086	d
						3.3519	110.58080	111.70915	0.00000	0.82767	d
						3.8308	110.12859	111.86663	0.00000	0.82302	d
						4.3096	109.67637	112.02411	0.00000	0.81696	d
						4.7885	109.22416	112.18159	0.00000	0.80954	d
						5.2673	108.77194	112.33906	0.00000	0.80082	d
						5.7462	108.31973	112.49654	0.00000	0.79083	d
						6.2250	107.86751	112.65402	0.00000	0.77964	d
						6.7039	107.41530	112.81150	0.00000	0.76728	d
		101	22S-04	22S-04	0.0	0.0	107.41530	112.81150	0.00000	0.76728	d
						0.49704	107.57968	113.28057	0.00000	0.70713	d
						0.99408	107.74405	113.74964	0.00000	0.65095	d
						1.4911	107.90842	114.21871	0.00000	0.59850	d
						1.9882	108.07280	114.68778	0.00000	0.54950	d
						2.4852	108.23718	115.15685	0.00000	0.50368	d
						2.9822	108.40155	115.62592	0.00000	0.46072	d
						3.4793	108.56592	116.09500	0.00000	0.42030	d
						3.9763	108.73030	116.56407	0.00000	0.38209	d
						4.4733	108.89468	117.03314	0.00000	0.34574	d
						4.9704	109.05905	117.50221	0.00000	0.31087	d
						5.4674	109.22342	117.97128	0.00000	0.27710	d
						5.9645	109.38780	118.44035	0.00000	0.24403	d
						6.4615	109.55218	118.90942	0.00000	0.21123	d
						6.9585	109.71655	119.37849	0.00000	0.17827	d
						7.4556	109.88092	119.84756	0.00000	0.14468	d
						7.9526	110.04530	120.31663	0.00000	0.11000	d
						8.4496	110.20968	120.78570	0.00000	0.073742	d
						8.9467	110.37405	121.25477	0.00000	0.055821	d
						9.4437	110.53842	121.72385	0.00000	0.049876	d
						9.9408	110.70280	122.19292	0.00000	0.044103	d
						10.438	110.86718	122.66199	0.00000	0.038453	d
						10.935	111.03155	123.13106	0.00000	0.032882	d
						11.432	111.19592	123.60013	0.00000	0.027354	d
						11.929	111.36030	124.06920	0.00000	0.021837	d
		102	23K-01	23K-01	0.0	0.0	126.87040	106.75440	0.00000	1.5536	d
						0.48606	126.41078	106.91251	0.00000	1.4781	d
						0.97212	125.95115	107.07062	0.00000	1.4036	d
						1.4582	125.49152	107.22872	0.00000	1.3300	d
						1.9442	125.03190	107.38683	0.00000	1.2791	d
						2.4303	124.57228	107.54494	0.00000	1.2392	d
						2.9164	124.11265	107.70305	0.00000	1.2002	d
						3.4024	123.65302	107.86116	0.00000	1.1621	d
						3.8885	123.19340	108.01927	0.00000	1.1250	d
						4.3745	122.73378	108.17738	0.00000	1.0889	d
						4.8606	122.27415	108.33548	0.00000	1.0536	d
						5.3466	121.81453	108.49359	0.00000	1.0192	d
						5.8327	121.35490	108.65170	0.00000	0.98578	d
		103	23K-02	23K-02	0.0	0.0	121.35490	108.65170	0.00000	0.98578	d
						0.48330	121.51257	109.10856	0.00000	0.91581	d
						0.96659	121.67024	109.56541	0.00000	0.85013	d
						1.4499	121.82791	110.02227	0.00000	0.78865	d
						1.9332	121.98558	110.47912	0.00000	0.73129	d
						2.4165	122.14325	110.93597	0.00000	0.67794	d
						2.8998	122.30092	111.39283	0.00000	0.62847	d
						3.3831	122.45859	111.84969	0.00000	0.58274	d
						3.8664	122.61626	112.30654	0.00000	0.54059	d
						4.3497	122.77393	112.76340	0.00000	0.50184	d
						4.8330	122.93160	113.22025	0.00000	0.46630	d
						5.3163	123.08927	113.67710	0.00000	0.43376	d
						5.7996	123.24694	114.13396	0.00000	0.40398	d
						6.2829	123.40461	114.59081	0.00000	0.37671	d
						6.7662	123.56228	115.04767	0.00000	0.35168	d
						7.2495	123.71995	115.50453	0.00000	0.32861	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						7.7328	123.87762	115.96138	0.00000	0.30719	d
						8.2161	124.03529	116.41823	0.00000	0.28709	d
						8.6994	124.19296	116.87509	0.00000	0.26797	d
						9.1826	124.35063	117.33194	0.00000	0.24947	d
						9.6659	124.50830	117.78880	0.00000	0.23119	d
		104	23K-03	23K-03	0.0	0.0	124.50830	117.78880	0.00000	0.23119	d
						0.48785	124.97028	117.63206	0.00000	0.23939	d
						0.97570	125.43227	117.47532	0.00000	0.24766	d
						1.4635	125.89425	117.31857	0.00000	0.25602	d
						1.9514	126.35623	117.16183	0.00000	0.26449	d
						2.4392	126.81822	117.00509	0.00000	0.27307	d
						2.9271	127.28020	116.84835	0.00000	0.28179	d
						3.4149	127.74218	116.69161	0.00000	0.29067	d
						3.9028	128.20417	116.53487	0.00000	0.29971	d
						4.3906	128.66615	116.37812	0.00000	0.30893	d
						4.8785	129.12813	116.22138	0.00000	0.31836	d
						5.3663	129.59012	116.06464	0.00000	0.32800	d
						5.8542	130.05210	115.90790	0.00000	0.33788	d
		105	23K-04	23K-04	0.0	0.0	130.24640	116.47000	0.00000	0.31083	d
						0.43187	130.65443	116.32850	0.00000	0.31925	d
						0.86374	131.06247	116.18700	0.00000	0.32783	d
						1.2956	131.47050	116.04550	0.00000	0.33660	d
						1.7275	131.87853	115.90400	0.00000	0.34555	d
						2.1594	132.28657	115.76250	0.00000	0.35470	d
						2.5912	132.69460	115.62100	0.00000	0.36407	d
						3.0231	133.10263	115.47950	0.00000	0.37367	d
						3.4550	133.51067	115.33800	0.00000	0.38351	d
						3.8868	133.91870	115.19650	0.00000	0.39359	d
						4.3187	134.32673	115.05500	0.00000	0.40395	d
						4.7506	134.73477	114.91350	0.00000	0.41457	d
						5.1825	135.14280	114.77200	0.00000	0.42549	d
		106	23K-05	23K-05	0.0	0.0	135.32920	115.30920	0.00000	0.39242	d
						0.46218	135.76587	115.15775	0.00000	0.40333	d
						0.92437	136.20253	115.00630	0.00000	0.41455	d
						1.3866	136.63920	114.85485	0.00000	0.42609	d
						1.8487	137.07587	114.70340	0.00000	0.43797	d
						2.3109	137.51253	114.55195	0.00000	0.45020	d
						2.7731	137.94920	114.40050	0.00000	0.46280	d
						3.2353	138.38587	114.24905	0.00000	0.47578	d
						3.6975	138.82253	114.09760	0.00000	0.48917	d
						4.1597	139.25920	113.94615	0.00000	0.50296	d
						4.6218	139.69587	113.79470	0.00000	0.51719	d
						5.0840	140.13253	113.64325	0.00000	0.53186	d
						5.5462	140.56920	113.49180	0.00000	0.54699	d
		107	23K-06	23K-06	0.0	0.0	140.75790	114.06100	0.00000	0.49959	d
						0.44539	141.17871	113.91508	0.00000	0.51302	d
						0.89078	141.59952	113.76917	0.00000	0.52521	d
						1.3362	142.02033	113.62325	0.00000	0.53764	d
						1.7816	142.44113	113.47733	0.00000	0.55041	d
						2.2269	142.86194	113.33142	0.00000	0.56353	d
						2.6723	143.28275	113.18550	0.00000	0.57699	d
						3.1177	143.70356	113.03958	0.00000	0.59082	d
						3.5631	144.12437	112.89367	0.00000	0.60502	d
						4.0085	144.54518	112.74775	0.00000	0.61959	d
						4.4539	144.96598	112.60183	0.00000	0.63455	d
						4.8993	145.38679	112.45592	0.00000	0.64990	d
						5.3447	145.80760	112.31000	0.00000	0.66564	d
		108	23K-07	23K-07	0.0	0.0	145.92710	112.67510	0.00000	0.62567	d
						0.46129	146.36303	112.52428	0.00000	0.64121	d
						0.92259	146.79897	112.37345	0.00000	0.65717	d
						1.3839	147.23490	112.22262	0.00000	0.67356	d
						1.8451	147.67083	112.07180	0.00000	0.69038	d
						2.3064	148.10677	111.92097	0.00000	0.70764	d
						2.7677	148.54270	111.77015	0.00000	0.72535	d
						3.2290	148.97863	111.61933	0.00000	0.74351	d
						3.6903	149.41457	111.46850	0.00000	0.76214	d
						4.1516	149.85050	111.31768	0.00000	0.78123	d
						4.6129	150.28643	111.16685	0.00000	0.80079	d
						5.0742	150.72237	111.01602	0.00000	0.82083	d
						5.5354	151.15830	110.86520	0.00000	0.84136	d
		109	23K-08	23K-08	0.0	0.0	151.15830	110.86520	0.00000	0.84136	d
						0.49250	150.99728	110.39977	0.00000	0.91231	d
						0.98500	150.83625	109.93434	0.00000	0.98891	d
						1.4775	150.67523	109.46891	0.00000	1.0713	d
						1.9700	150.51420	109.00348	0.00000	1.1597	d
						2.4625	150.35317	108.53805	0.00000	1.2543	d
						2.9550	150.19215	108.07262	0.00000	1.3550	d
						3.4475	150.03113	107.60719	0.00000	1.4621	d
						3.9400	149.87010	107.14176	0.00000	1.6034	d
						4.4325	149.70908	106.67633	0.00000	1.8165	d
						4.9250	149.54805	106.21090	0.00000	2.0361	d
						5.4175	149.38702	105.74547	0.00000	2.2623	d
						5.9100	149.22600	105.28004	0.00000	2.4949	d
						6.4025	149.06498	104.81461	0.00000	2.7341	d
						6.8950	148.90395	104.34918	0.00000	2.9797	d
						7.3875	148.74293	103.88375	0.00000	3.2317	d
						7.8800	148.58190	103.41832	0.00000	3.4900	d
						8.3725	148.42087	102.95289	0.00000	3.7545	d
						8.8650	148.25985	102.48746	0.00000	4.0251	d
						9.3575	148.09883	102.02203	0.00000	4.3016	d
						9.8500	147.93780	101.55660	0.00000	4.5839	d
		110	23K-09	23K-09	0.0	0.0	147.93780	101.55660	0.00000	4.5839	d
						0.46129	147.50289	101.71037	0.00000	4.4922	d
						0.92259	147.06798	101.86415	0.00000	4.4011	d
						1.3839	146.63308	102.01793	0.00000	4.3103	d
						1.8452	146.19817	102.17170	0.00000	4.2201	d
						2.3065	145.76326	102.32547	0.00000	4.1303	d
						2.7678	145.32835	102.47925	0.00000	4.0410	d
						3.2291	144.89344	102.63303	0.00000	3.9522	d
						3.6904	144.45853	102.78680	0.00000	3.8639	d
						4.1516	144.02362	102.94057	0.00000	3.7761	d
						4.6129	143.58872	103.09435	0.00000	3.6888	d
						5.0742	143.15381	103.24813	0.00000	3.6021	d
						5.5355	142.71890	103.40190	0.00000	3.5160	d
		111	23K-10	23K-10	0.0	0.0	137.49760	104.66790	0.00000	2.7511	d
						0.44540	137.91837	104.52185	0.00000	2.8358	d
						0.89080	138.33915	104.37580	0.00000	2.9214	d
						1.3362	138.75993	104.22975	0.00000	3.0080	d
						1.7816	139.18070	104.08370	0.00000	3.0954	d
						2.2270	139.60147	103.93765	0.00000	3.1839	d
						2.6724	140.02225	103.79160	0.00000	3.2732	d
						3.1178	140.44303	103.64555	0.00000	3.3635	d
						3.5632	140.86380	103.49950	0.00000	3.4547	d
						4.0086	141.28457	103.35345	0.00000	3.5447	d
						4.4540	141.70535	103.20740	0.00000	3.6270	d
						4.8994	142.12613	103.06135	0.00000	3.7098	d
						5.3448	142.54690	102.91530	0.00000	3.7932	d
		112	23K-11	23K-11	0.0	0.0	142.54690	102.91530	0.00000	3.7932	d
						0.46948	142.70055	103.35893	0.00000	3.5402	d
						0.93896	142.85419	103.80255	0.00000	3.2929	d
						1.4084	143.00784	104.24618	0.00000	3.0512	d
						1.8779	143.16148	104.68981	0.00000	2.8154	d
						2.3474	143.31513	105.13344	0.00000	2.5853	d
						2.8169	143.46877	105.57706	0.00000	2.3612	d
						3.2864	143.62242	106.02069	0.00000	2.1430	d
						3.7558	143.77606	106.46432	0.00000	1.9307	d
						4.2253	143.92971	106.90795	0.00000	1.7243	d
						4.6948	144.08335	107.35157	0.00000	1.5381	d
						5.1643	144.23700	107.79520	0.00000	1.4322	d
						5.6338	144.39065	108.23883	0.00000	1.3321	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						6.1032	144.54429	108.68245	0.00000	1.2378	d
						6.5727	144.69794	109.12608	0.00000	1.1490	d
						7.0422	144.85158	109.56971	0.00000	1.0658	d
						7.5117	145.00523	110.01334	0.00000	0.98806	d
						7.9812	145.15887	110.45696	0.00000	0.91554	d
						8.4507	145.31252	110.90059	0.00000	0.84812	d
						8.9201	145.46616	111.34422	0.00000	0.78563	d
						9.3896	145.61981	111.78785	0.00000	0.72787	d
						9.8591	145.77345	112.23147	0.00000	0.67462	d
						10.329	145.92710	112.67510	0.00000	0.62567	d
	113	23K-12	23K-12		0.0	0.0	140.75790	114.06100	0.00000	0.49959	d
						0.47283	140.60286	113.61431	0.00000	0.53631	d
						0.94566	140.44782	113.16762	0.00000	0.57639	d
						1.4185	140.29278	112.72093	0.00000	0.62012	d
						1.8913	140.13774	112.27424	0.00000	0.66774	d
						2.3642	139.98270	111.82755	0.00000	0.71949	d
						2.8370	139.82765	111.38085	0.00000	0.77557	d
						3.3098	139.67261	110.93416	0.00000	0.83619	d
						3.7827	139.51757	110.48747	0.00000	0.90152	d
						4.2555	139.36253	110.04078	0.00000	0.97171	d
						4.7283	139.20749	109.59409	0.00000	1.0469	d
						5.2012	139.05245	109.14740	0.00000	1.1272	d
						5.6740	138.89741	108.70071	0.00000	1.2127	d
						6.1468	138.74237	108.25402	0.00000	1.3035	d
						6.6197	138.58733	107.80733	0.00000	1.3997	d
						7.0925	138.43229	107.36064	0.00000	1.5013	d
						7.5653	138.27725	106.91395	0.00000	1.6815	d
						8.0382	138.12220	106.46725	0.00000	1.8833	d
						8.5110	137.96716	106.02056	0.00000	2.0906	d
						8.9838	137.81212	105.57387	0.00000	2.3032	d
						9.4566	137.65708	105.12718	0.00000	2.5213	d
						9.9295	137.50204	104.68049	0.00000	2.7447	d
						10.402	137.34700	104.23380	0.00000	2.9734	d
	114	23K-13	23K-13		0.0	0.0	137.34700	104.23380	0.00000	2.9734	d
						0.46085	136.91272	104.38802	0.00000	2.8827	d
						0.92170	136.47843	104.54223	0.00000	2.7930	d
						1.3826	136.04415	104.69645	0.00000	2.7044	d
						1.8434	135.60987	104.85067	0.00000	2.6167	d
						2.3043	135.17558	105.00488	0.00000	2.5301	d
						2.7651	134.74130	105.15910	0.00000	2.4445	d
						3.2260	134.30702	105.31332	0.00000	2.3600	d
						3.6868	133.87273	105.46753	0.00000	2.2764	d
						4.1477	133.43845	105.62175	0.00000	2.1938	d
						4.6085	133.00417	105.77597	0.00000	2.1123	d
						5.0694	132.56988	105.93018	0.00000	2.0317	d
						5.5302	132.13560	106.08440	0.00000	1.9521	d
	115	23K-14	23K-14		0.0	0.0	127.09450	107.39930	0.00000	1.3134	d
						0.43282	127.50351	107.25771	0.00000	1.3547	d
						0.86565	127.91252	107.11612	0.00000	1.4209	d
						1.2985	128.32153	106.97452	0.00000	1.4879	d
						1.7313	128.73053	106.83293	0.00000	1.5556	d
						2.1641	129.13954	106.69134	0.00000	1.6242	d
						2.5969	129.54855	106.54975	0.00000	1.6936	d
						3.0298	129.95756	106.40816	0.00000	1.7638	d
						3.4626	130.36657	106.26657	0.00000	1.8348	d
						3.8954	130.77558	106.12497	0.00000	1.9066	d
						4.3282	131.18458	105.98338	0.00000	1.9793	d
						4.7611	131.59359	105.84179	0.00000	2.0528	d
						5.1939	132.00260	105.70020	0.00000	2.1271	d
	116	23K-15	23K-15		0.0	0.0	132.00260	105.70020	0.00000	2.1271	d
						0.46221	132.15381	106.13697	0.00000	1.9284	d
						0.92441	132.30502	106.57375	0.00000	1.7345	d
						1.3866	132.45623	107.01052	0.00000	1.5455	d
						1.8488	132.60744	107.44729	0.00000	1.3949	d
						2.3110	132.75865	107.88406	0.00000	1.3029	d
						2.7732	132.90985	108.32084	0.00000	1.2157	d
						3.2354	133.06106	108.75761	0.00000	1.1332	d
						3.6976	133.21227	109.19438	0.00000	1.0555	d
						4.1599	133.36348	109.63115	0.00000	0.98239	d
						4.6221	133.51469	110.06793	0.00000	0.91383	d
						5.0843	133.66590	110.50470	0.00000	0.84972	d
						5.5465	133.81711	110.94147	0.00000	0.78994	d
						6.0087	133.96832	111.37825	0.00000	0.73436	d
						6.4709	134.11953	111.81502	0.00000	0.68281	d
						6.9331	134.27074	112.25179	0.00000	0.63515	d
						7.3953	134.42195	112.68856	0.00000	0.59118	d
						7.8575	134.57315	113.12534	0.00000	0.55069	d
						8.3197	134.72436	113.56211	0.00000	0.51349	d
						8.7819	134.87557	113.99888	0.00000	0.47932	d
						9.2441	135.02678	114.43565	0.00000	0.44793	d
						9.7063	135.17799	114.87243	0.00000	0.41906	d
						10.169	135.32920	115.30920	0.00000	0.39242	d
	117	23K-16	23K-16		0.0	0.0	130.24640	116.47000	0.00000	0.31083	d
						0.46752	130.09295	116.02838	0.00000	0.33191	d
						0.93504	129.93949	115.58676	0.00000	0.35430	d
						1.4026	129.78604	115.14515	0.00000	0.37832	d
						1.8701	129.63258	114.70353	0.00000	0.40428	d
						2.3376	129.47913	114.26191	0.00000	0.43247	d
						2.8051	129.32567	113.82029	0.00000	0.46316	d
						3.2726	129.17222	113.37867	0.00000	0.49660	d
						3.7402	129.01876	112.93705	0.00000	0.53302	d
						4.2077	128.86531	112.49544	0.00000	0.57265	d
						4.6752	128.71185	112.05382	0.00000	0.61568	d
						5.1427	128.55840	111.61220	0.00000	0.66230	d
						5.6102	128.40495	111.17058	0.00000	0.71268	d
						6.0778	128.25149	110.72896	0.00000	0.76697	d
						6.5453	128.09804	110.28735	0.00000	0.82531	d
						7.0128	127.94458	109.84573	0.00000	0.88781	d
						7.4803	127.79113	109.40411	0.00000	0.95458	d
						7.9478	127.63767	108.96249	0.00000	1.0257	d
						8.4154	127.48422	108.52087	0.00000	1.1013	d
						8.8829	127.33076	108.07925	0.00000	1.1813	d
						9.3504	127.17731	107.63764	0.00000	1.2659	d
						9.8179	127.02385	107.19602	0.00000	1.3716	d
						10.285	126.87040	106.75440	0.00000	1.5536	d
	118	23K-17	23K-17		0.0	0.0	150.73130	109.63110	0.00000	1.0419	d
						0.45094	151.15679	109.48174	0.00000	1.0675	d
						0.90189	151.58228	109.33238	0.00000	1.0936	d
						1.3528	152.00777	109.18302	0.00000	1.1202	d
						1.8038	152.43326	109.03366	0.00000	1.1474	d
						2.2547	152.85875	108.88430	0.00000	1.1750	d
						2.7057	153.28424	108.73494	0.00000	1.2033	d
						3.1566	153.70973	108.58558	0.00000	1.2320	d
						3.6075	154.13522	108.43622	0.00000	1.2613	d
						4.0585	154.56071	108.28686	0.00000	1.2910	d
						4.5094	154.98620	108.13750	0.00000	1.3214	d
	119	23K-18	23K-18		0.0	0.0	154.98620	108.13750	0.00000	1.3214	d
						0.44565	154.84277	107.71556	0.00000	1.4168	d
						0.89130	154.69935	107.29362	0.00000	1.5174	d
						1.3370	154.55593	106.87168	0.00000	1.7052	d
						1.7826	154.41250	106.44973	0.00000	1.9009	d
						2.2283	154.26907	106.02779	0.00000	2.1019	d
						2.6739	154.12565	105.60585	0.00000	2.3082	d
						3.1196	153.98222	105.18391	0.00000	2.5199	d
						3.5652	153.83880	104.76197	0.00000	2.7369	d
						4.0109	153.69537	104.34002	0.00000	2.9592	d
						4.4565	153.55195	103.91808	0.00000	3.1868	d
						4.9022	153.40852	103.49614	0.00000	3.4195	d
						5.3478	153.26510	103.07420	0.00000	3.6573	d
	120	23K-19	23K-19		0.0	0.0	153.26510	103.07420	0.00000	3.6573	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						0.45383	152.83663	103.22379	0.00000	3.5757	d
						0.90766	152.40816	103.37338	0.00000	3.4945	d
						1.3615	151.97969	103.52297	0.00000	3.4138	d
						1.8153	151.55122	103.67256	0.00000	3.3335	d
						2.2692	151.12275	103.82215	0.00000	3.2538	d
						2.7230	150.69428	103.97174	0.00000	3.1745	d
						3.1768	150.26581	104.12133	0.00000	3.0957	d
						3.6307	149.83734	104.27092	0.00000	3.0174	d
						4.0845	149.40887	104.42051	0.00000	2.9396	d
						4.5383	148.98040	104.57010	0.00000	2.8623	d
	121	23AB-01	23AB-01		0.0	0.0	147.70060	95.28400	0.00000	8.8173	d
						0.40048	148.10013	95.31152	0.00000	8.7941	d
						0.80095	148.49966	95.33904	0.00000	8.7708	d
						1.2014	148.89919	95.36656	0.00000	8.7472	d
						1.6019	149.29872	95.39408	0.00000	8.7235	d
						2.0024	149.69825	95.42160	0.00000	8.6997	d
						2.4029	150.09778	95.44912	0.00000	8.6757	d
						2.8033	150.49731	95.47664	0.00000	8.6515	d
						3.2038	150.89684	95.50416	0.00000	8.6271	d
						3.6043	151.29637	95.53168	0.00000	8.6026	d
						4.0048	151.69590	95.55920	0.00000	8.5779	d
	122	23AB-02	23AB-02		0.0	0.0	151.69590	95.55920	0.00000	8.5779	d
						0.10895	151.68720	95.66780	0.00000	8.5007	d
						0.21790	151.67850	95.77640	0.00000	8.4235	d
	123	23AB-03	23AB-03		0.0	0.0	151.67850	95.77640	0.00000	8.4235	d
						0.47908	152.15639	95.81014	0.00000	8.3934	d
						0.95816	152.63428	95.84388	0.00000	8.3631	d
						1.4372	153.11217	95.87762	0.00000	8.3325	d
						1.9163	153.59006	95.91136	0.00000	8.3017	d
						2.3954	154.06795	95.94510	0.00000	8.2707	d
						2.8745	154.54584	95.97884	0.00000	8.2395	d
						3.3536	155.02373	96.01258	0.00000	8.2080	d
						3.8326	155.50162	96.04632	0.00000	8.1764	d
						4.3117	155.97951	96.08006	0.00000	8.1445	d
						4.7908	156.45740	96.11380	0.00000	8.1125	d
	124	23AB-04	23AB-04		0.0	0.0	156.45740	96.11380	0.00000	8.1125	d
						0.46049	156.48983	95.65445	0.00000	8.4347	d
						0.92099	156.52226	95.19510	0.00000	8.7582	d
						1.3815	156.55469	94.73575	0.00000	9.0828	d
						1.8420	156.58711	94.27640	0.00000	9.4079	d
						2.3025	156.61954	93.81705	0.00000	9.7332	d
						2.7630	156.65197	93.35770	0.00000	10.058	d
						3.2235	156.68440	92.89835	0.00000	10.382	d
						3.6839	156.71683	92.43900	0.00000	10.706	d
						4.1444	156.74926	91.97965	0.00000	11.027	d
						4.6049	156.78169	91.52030	0.00000	11.347	d
						5.0654	156.81411	91.06095	0.00000	11.664	d
						5.5259	156.84654	90.60160	0.00000	11.978	d
						5.9864	156.87897	90.14225	0.00000	12.288	d
						6.4469	156.91140	89.68290	0.00000	12.595	d
	125	23AB-05	23AB-05		0.0	0.0	156.91140	89.68290	0.00000	12.595	d
						0.25352	157.16432	89.70025	0.00000	12.574	d
						0.50704	157.41725	89.71760	0.00000	12.553	d
						0.76056	157.67018	89.73495	0.00000	12.532	d
						1.0141	157.92310	89.75230	0.00000	12.511	d
	126	23AB-06	23AB-06		0.0	0.0	157.92310	89.75230	0.00000	12.511	d
						0.45735	157.95989	89.29643	0.00000	12.810	d
						0.91471	157.99667	88.84056	0.00000	13.104	d
						1.3721	158.03346	88.38469	0.00000	13.393	d
						1.8294	158.07024	87.92881	0.00000	13.677	d
						2.2868	158.10703	87.47294	0.00000	13.955	d
						2.7441	158.14381	87.01707	0.00000	14.227	d
						3.2015	158.18060	86.56120	0.00000	14.493	d
						3.6588	158.21739	86.10533	0.00000	14.753	d
						4.1162	158.25417	85.64946	0.00000	15.006	d
						4.5735	158.29096	85.19359	0.00000	15.254	d
						5.0309	158.32774	84.73771	0.00000	15.495	d
						5.4882	158.36453	84.28184	0.00000	15.731	d
						5.9456	158.40131	83.82597	0.00000	15.961	d
						6.4029	158.43810	83.37010	0.00000	16.188	d
	127	23AB-07	23AB-07		0.0	0.0	158.43810	83.37010	0.00000	16.188	d
						0.41980	158.01966	83.33634	0.00000	16.237	d
						0.83960	157.60122	83.30258	0.00000	16.285	d
						1.2594	157.18277	83.26882	0.00000	16.331	d
						1.6792	156.76433	83.23507	0.00000	16.377	d
						2.0990	156.34589	83.20131	0.00000	16.421	d
						2.5188	155.92745	83.16755	0.00000	16.464	d
						2.9386	155.50901	83.13379	0.00000	16.506	d
						3.3584	155.09057	83.10003	0.00000	16.547	d
						3.7782	154.67212	83.06628	0.00000	16.587	d
						4.1980	154.25368	83.03252	0.00000	16.627	d
						4.6178	153.83524	82.99876	0.00000	16.665	d
						5.0376	153.41680	82.96500	0.00000	16.702	d
	128	23AB-08	23AB-08		0.0	0.0	153.41680	82.96500	0.00000	16.702	d
						0.14075	153.40550	83.10530	0.00000	16.629	d
						0.28151	153.39420	83.24560	0.00000	16.556	d
	129	23AB-09	23AB-09		0.0	0.0	153.39420	83.24560	0.00000	16.556	d
						0.46923	152.92588	83.21647	0.00000	16.592	d
						0.93846	152.45755	83.18733	0.00000	16.627	d
						1.4077	151.98923	83.15820	0.00000	16.661	d
						1.8769	151.52090	83.12907	0.00000	16.694	d
						2.3462	151.05258	83.09993	0.00000	16.726	d
						2.8154	150.58425	83.07080	0.00000	16.757	d
						3.2846	150.11593	83.04167	0.00000	16.787	d
						3.7538	149.64760	83.01253	0.00000	16.816	d
						4.2231	149.17928	82.98340	0.00000	16.845	d
						4.6923	148.71095	82.95427	0.00000	16.873	d
						5.1615	148.24263	82.92513	0.00000	16.900	d
						5.6308	147.77430	82.89600	0.00000	16.927	d
	130	23AB-10	23AB-10		0.0	0.0	147.77430	82.89600	0.00000	16.927	d
						0.38164	147.74430	83.27646	0.00000	16.723	d
						0.76329	147.71430	83.65693	0.00000	16.518	d
						1.1449	147.68430	84.03739	0.00000	16.311	d
						1.5266	147.65430	84.41785	0.00000	16.101	d
						1.9082	147.62430	84.79831	0.00000	15.888	d
						2.2899	147.59430	85.17878	0.00000	15.672	d
						2.6715	147.56430	85.55924	0.00000	15.451	d
						3.0531	147.53430	85.93970	0.00000	15.227	d
	131	23AB-11	23AB-11		0.0	0.0	147.53430	85.93970	0.00000	15.227	d
						0.46163	147.99485	85.97128	0.00000	15.200	d
						0.92326	148.45540	86.00285	0.00000	15.172	d
						1.3849	148.91595	86.03442	0.00000	15.144	d
						1.8465	149.37650	86.06600	0.00000	15.115	d
	132	23AB-12	23AB-12		0.0	0.0	149.37650	86.06600	0.00000	15.115	d
						0.47810	149.34380	86.54298	0.00000	14.828	d
						0.95621	149.31110	87.01997	0.00000	14.535	d
						1.4343	149.27840	87.49695	0.00000	14.236	d
						1.9124	149.24570	87.97393	0.00000	13.931	d
						2.3905	149.21300	88.45092	0.00000	13.620	d
						2.8686	149.18030	88.92790	0.00000	13.304	d
	133	23AB-13	23AB-13		0.0	0.0	149.18030	88.92790	0.00000	13.304	d
						0.25818	148.92310	88.90537	0.00000	13.323	d
						0.51637	148.66590	88.88285	0.00000	13.343	d
						0.77455	148.40870	88.86033	0.00000	13.362	d
						1.0327	148.15150	88.83780	0.00000	13.381	d
	134	23AB-14	23AB-14		0.0	0.0	148.15150	88.83780	0.00000	13.381	d
						0.46157	148.11929	89.29824	0.00000	13.071	d
						0.92314	148.08709	89.75869	0.00000	12.758	d
						1.3847	148.05488	90.21913	0.00000	12.440	d
						1.8463	148.02267	90.67957	0.00000	12.119	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						2.3078	147.99046	91.14001	0.00000	11.795	d
						2.7694	147.95826	91.60046	0.00000	11.468	d
						3.2310	147.92605	92.06090	0.00000	11.140	d
						3.6925	147.89384	92.52134	0.00000	10.809	d
						4.1541	147.86164	92.98179	0.00000	10.478	d
						4.6157	147.82943	93.44223	0.00000	10.146	d
						5.0772	147.79722	93.90267	0.00000	9.8129	d
						5.5388	147.76501	94.36311	0.00000	9.4804	d
						6.0004	147.73281	94.82356	0.00000	9.1484	d
						6.4620	147.70060	95.28400	0.00000	8.8173	d
	135	23AB-15	23AB-15		0.0	0.0	149.18030	88.92790	0.00000	13.304	d
						0.48350	149.66150	88.97496	0.00000	13.264	d
						0.96699	150.14270	89.02201	0.00000	13.223	d
						1.4505	150.62390	89.06907	0.00000	13.182	d
						1.9340	151.10510	89.11612	0.00000	13.140	d
						2.4175	151.58630	89.16318	0.00000	13.098	d
						2.9010	152.06750	89.21024	0.00000	13.055	d
						3.3845	152.54870	89.25729	0.00000	13.012	d
						3.8680	153.02990	89.30435	0.00000	12.968	d
						4.3515	153.51110	89.35141	0.00000	12.923	d
						4.8350	153.99230	89.39846	0.00000	12.878	d
						5.3184	154.47350	89.44552	0.00000	12.833	d
						5.8019	154.95470	89.49258	0.00000	12.787	d
						6.2854	155.43590	89.53963	0.00000	12.740	d
						6.7689	155.91710	89.58669	0.00000	12.693	d
						7.2524	156.39830	89.63374	0.00000	12.646	d
						7.7359	156.87950	89.68080	0.00000	12.597	d
	136	28K-01	28K-01		0.0	0.0	157.04370	132.95660	0.00000	-0.011129	d
						0.46362	157.45751	132.74754	0.00000	-0.010798	d
						0.92724	157.87132	132.53848	0.00000	-0.010468	d
						1.3909	158.28512	132.32941	0.00000	-0.010136	d
						1.8545	158.69893	132.12035	0.00000	-0.0098054	d
						2.3181	159.11274	131.91129	0.00000	-0.0094744	d
						2.7817	159.52655	131.70222	0.00000	-0.0091439	d
						3.2453	159.94036	131.49316	0.00000	-0.0088138	d
						3.7090	160.35417	131.28410	0.00000	-0.0084845	d
						4.1726	160.76798	131.07504	0.00000	-0.0081562	d
						4.6362	161.18178	130.86597	0.00000	-0.0078291	d
						5.0998	161.59559	130.65691	0.00000	-0.0075033	d
						5.5635	162.00940	130.44785	0.00000	-0.0071791	d
						6.0271	162.42321	130.23879	0.00000	-0.0068567	d
						6.4907	162.83702	130.02973	0.00000	-0.0065364	d
						6.9543	163.25082	129.82066	0.00000	-0.0062183	d
						7.4179	163.66463	129.61160	0.00000	-0.0059027	d
						7.8816	164.07844	129.40254	0.00000	-0.0055899	d
						8.3452	164.49225	129.19348	0.00000	-0.0052800	d
						8.8088	164.90606	128.98441	0.00000	-0.0049732	d
						9.2724	165.31987	128.77535	0.00000	-0.0046699	d
						9.7360	165.73368	128.56629	0.00000	-0.0043703	d
						10.200	166.14748	128.35722	0.00000	-0.0040745	d
						10.663	166.56129	128.14816	0.00000	-0.0037829	d
						11.127	166.97510	127.93910	0.00000	-0.0034956	d
	137	28K-02	28K-02		0.0	0.0	166.97510	127.93910	0.00000	-0.0034956	d
						0.46979	166.97510	127.46931	0.00000	-0.0020654	d
						0.93957	166.97510	126.99953	0.00000	-565.96E-6	d
						1.4094	166.97510	126.52974	0.00000	0.0010057	d
						1.8791	166.97510	126.05995	0.00000	0.0026526	d
						2.3489	166.97510	125.59016	0.00000	0.0043780	d
						2.8187	166.97510	125.12037	0.00000	0.0061853	d
						3.2885	166.97510	124.65059	0.00000	0.0080779	d
						3.7583	166.97510	124.18080	0.00000	0.010060	d
	138	28K-03	28K-03		0.0	0.0	166.97510	124.18080	0.00000	0.010060	d
						0.49736	166.75082	123.73688	0.00000	0.012312	d
						0.99472	166.52654	123.29296	0.00000	0.014679	d
						1.4921	166.30227	122.84903	0.00000	0.017168	d
						1.9894	166.07799	122.40511	0.00000	0.019782	d
						2.4868	165.85371	121.96119	0.00000	0.022530	d
						2.9842	165.62943	121.51727	0.00000	0.025415	d
						3.4815	165.40516	121.07334	0.00000	0.053772	d
						3.9789	165.18088	120.62942	0.00000	0.087743	d
						4.4762	164.95660	120.18550	0.00000	0.11824	d
						4.9736	164.73232	119.74158	0.00000	0.14584	d
						5.4710	164.50804	119.29766	0.00000	0.17109	d
						5.9683	164.28377	118.85373	0.00000	0.19453	d
						6.4657	164.05949	118.40981	0.00000	0.21668	d
						6.9630	163.83521	117.96589	0.00000	0.23802	d
						7.4604	163.61093	117.52197	0.00000	0.25905	d
						7.9578	163.38666	117.07804	0.00000	0.28023	d
						8.4551	163.16238	116.63412	0.00000	0.30199	d
						8.9525	162.93810	116.19020	0.00000	0.32477	d
	139	28K-04	28K-04		0.0	0.0	162.93810	116.19020	0.00000	0.32477	d
						0.48162	162.50474	116.40034	0.00000	0.31530	d
						0.96323	162.07139	116.61048	0.00000	0.30603	d
						1.4449	161.63803	116.82061	0.00000	0.29692	d
						1.9265	161.20468	117.03075	0.00000	0.28793	d
						2.4081	160.77132	117.24089	0.00000	0.27901	d
						2.8897	160.33796	117.45103	0.00000	0.27012	d
						3.3713	159.90461	117.66116	0.00000	0.26121	d
						3.8529	159.47125	117.87130	0.00000	0.25224	d
						4.3346	159.03789	118.08144	0.00000	0.24316	d
						4.8162	158.60454	118.29158	0.00000	0.23392	d
						5.2978	158.17118	118.50171	0.00000	0.22448	d
						5.7794	157.73782	118.71185	0.00000	0.21478	d
						6.2610	157.30447	118.92199	0.00000	0.20477	d
						6.7426	156.87111	119.13213	0.00000	0.19441	d
						7.2243	156.43776	119.34226	0.00000	0.18363	d
						7.7059	156.00440	119.55240	0.00000	0.17239	d
	140	28K-05	28K-05		0.0	0.0	156.00440	119.55240	0.00000	0.17239	d
						0.45854	156.20647	119.96402	0.00000	0.14730	d
						0.91709	156.40854	120.37564	0.00000	0.11997	d
						1.3756	156.61061	120.78726	0.00000	0.089949	d
						1.8342	156.81268	121.19888	0.00000	0.056786	d
						2.2927	157.01474	121.61049	0.00000	0.037679	d
						2.7513	157.21681	122.02211	0.00000	0.034537	d
						3.2098	157.41888	122.43373	0.00000	0.031528	d
						3.6683	157.62095	122.84535	0.00000	0.028648	d
						4.1269	157.82302	123.25697	0.00000	0.025890	d
						4.5854	158.02509	123.66859	0.00000	0.023251	d
						5.0440	158.22716	124.08021	0.00000	0.020725	d
						5.5025	158.42923	124.49183	0.00000	0.018307	d
						5.9611	158.63129	124.90344	0.00000	0.015995	d
						6.4196	158.83336	125.31506	0.00000	0.013783	d
						6.8781	159.03543	125.72668	0.00000	0.011667	d
						7.3367	159.23750	126.13830	0.00000	0.0096436	d
	141	28K-06	28K-06		0.0	0.0	159.23750	126.13830	0.00000	0.0096436	d
						0.49484	158.79330	126.35637	0.00000	0.0090637	d
						0.98968	158.34910	126.57444	0.00000	0.0084806	d
						1.4845	157.90490	126.79251	0.00000	0.0078949	d
						1.9794	157.46070	127.01058	0.00000	0.0073070	d
						2.4742	157.01650	127.22865	0.00000	0.0067173	d
						2.9690	156.57230	127.44672	0.00000	0.0061261	d
						3.4639	156.12810	127.66479	0.00000	0.0055339	d
						3.9587	155.68390	127.88286	0.00000	0.0049412	d
						4.4536	155.23970	128.10093	0.00000	0.0043481	d
						4.9484	154.79550	128.31900	0.00000	0.0037553	d
	142	28K-07	28K-07		0.0	0.0	154.79550	128.31900	0.00000	0.0037553	d
						0.42948	154.98285	128.70547	0.00000	0.0022025	d
						0.85897	155.17020	129.09193	0.00000	713.75E-6	d
						1.2885	155.35755	129.47840	0.00000	-713.41E-6	d
						1.7179	155.54490	129.86487	0.00000	-0.0020812	d

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz [mm]	
						2.1474	155.73225	130.25133	0.00000	-0.0033917	d
						2.5769	155.91960	130.63780	0.00000	-0.0046471	d
						3.0064	156.10695	131.02427	0.00000	-0.0058494	d
						3.4359	156.29430	131.41073	0.00000	-0.0070004	d
						3.8654	156.48165	131.79720	0.00000	-0.0081021	d
						4.2948	156.66900	132.18367	0.00000	-0.0091563	d
						4.7243	156.85635	132.57013	0.00000	-0.010165	d
						5.1538	157.04370	132.95660	0.00000	-0.011129	d

d - Displacements include imported displacements.

Specific Building Damage Results - Detail

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Tensile Strain [%]	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature [m]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	1	0.0	4.9514	None	0.0019305	0.023630	0.025146	-279.60E-6	-429.42E-6	31554. 0	(Negligible)
						2	4.9514	1.0656	None	0.0018746	0.026401	0.026742	-285.35E-6	-441.18E-6	4078.2 0	(Negligible)
		2	16S-02	16S-02	0.0	1	0.0	0.19263	None	0.0	0.14124	0.14124	-0.0014104	156.82E-6	374230. 2	(Slight)
						2	0.19263	6.3954	None	0.017485	0.048262	0.065185	0.0066237	0.0020523	391.79 1	(Very Slight)
		3	16S-03	16S-03	0.0	1	0.0	2.8020	None	0.015094	-0.028121	0.011148	0.0062350	0.0014918	348.00 0	(Negligible)
		4	16S-04	16S-04	0.0	1	0.0	3.1026	None	0.0038613	0.030813	0.032801	-342.17E-6	-422.97E-6	3327.4 0	(Negligible)
						2	3.1026	2.2975	None	0.0059339	0.025973	0.028265	-286.04E-6	-422.97E-6	3077.0 0	(Negligible)
						3	5.4001	1.3369	None	0.0012540	0.023037	0.023322	-249.22E-6	190.14E-6	20171. 0	(Negligible)
						4	6.7370	0.93703	None	640.68E-6	0.019773	0.019876	-199.73E-6	173.18E-6	16463. 0	(Negligible)
		5	16S-05	16S-05	0.0	1	0.0	1.7146	None	0.0031539	0.045685	0.046601	-540.52E-6	-147.71E-6	6051.6 0	(Negligible)
						2	1.7146	1.2564	None	467.83E-6	0.043472	0.043572	-450.42E-6	-132.67E-6	33652. 0	(Negligible)
		6	16S-06	16S-06	0.0	1	0.0	0.16127	None	0.0	0.044662	0.044662	-446.42E-6	-415.88E-6	24321. 0	(Negligible)
						2	0.16127	4.1852	None	0.0019586	0.049136	0.050463	-669.31E-6	-591.26E-6	7880.5 1	(Very Slight)
						3	4.3465	0.74852	None	72.565E-6	0.071935	0.071945	-759.07E-6	-591.26E-6	285510. 1	(Very Slight)
						4	5.0950	1.1280	None	122.17E-6	0.079745	0.079769	-823.06E-6	-592.91E-6	101530. 2	(Slight)
		7	BS-01	BS-01	0.0	1	0.0	3.2501	None	0.018313	-0.046958	0.014637	873.26E-6	-0.0026600	1277.9 0	(Negligible)
						2	3.2501	7.8585	Sagging	0.042266	0.015766	0.054131	873.26E-6	-0.0026600	1101.5 1	(Very Slight)
						3	11.109	1.0750	None	0.10597	0.024812	0.11672	-294.78E-6	-0.0048021	261.14 2	(Slight)
						4	12.184	0.79441	None	0.14303	-0.11398	0.11280	0.0018495	-0.0048021	52.716 2	(Slight)
		8	BS-02	BS-02	0.0	1	0.0	1.7440	None	0.0024771	0.071517	0.072068	-861.79E-6	0.0012600	5177.2 1	(Very Slight)
						2	1.7440	13.891	Hogging	0.014527	0.056072	0.067984	-933.53E-6	0.0012600	3708.5 1	(Very Slight)
						3	15.635	1.3312	None	280.61E-6	0.012523	0.012570	-140.89E-6	349.30E-6	45669. 0	(Negligible)
						4	16.966	4.8848	None	0.0038497	0.0054626	0.0077752	-143.57E-6	363.70E-6	5144.3 0	(Negligible)
						5	21.851	1.0284	None	99.705E-6	0.0053235	0.0053366	-70.232E-6	118.02E-6	265750. 0	(Negligible)
						6	22.880	8.8301	None	232.20E-6	0.0058099	0.0059211	-70.232E-6	118.02E-6	160900. 0	(Negligible)
						7	26.710	3.2618	None	455.53E-6	0.0040649	0.0042518	-52.467E-6	137.31E-6	64507. 0	(Negligible)
		9	BS-03	BS-03	0.0	All vertical displacements are less than the limit sensitivity.										
		10	BS-04	BS-04	0.0	All vertical displacements are less than the limit sensitivity.										
		11	BS-05	BS-05	0.0	All vertical displacements are less than the limit sensitivity.										
		12	BS-06	BS-06	0.0	All vertical displacements are less than the limit sensitivity.										
		13	BS-07	BS-07	0.0	All vertical displacements are less than the limit sensitivity.										
		14	BS-08	BS-08	0.0	All vertical displacements are less than the limit sensitivity.										
		15	BS-09	BS-09	0.0	All vertical displacements are less than the limit sensitivity.										
		16	BS-10	BS-10	0.0	All vertical displacements are less than the limit sensitivity.										
		17	BS-11	BS-11	0.0	All vertical displacements are less than the limit sensitivity.										
		18	BS-12	BS-12	0.0	All vertical displacements are less than the limit sensitivity.										
		19	BS-13	BS-13	0.0	All vertical displacements are less than the limit sensitivity.										
		20	BS-14	BS-14	0.0	All vertical displacements are less than the limit sensitivity.										
		21	BS-15	BS-15	0.0	1	6.4963	7.9583	None	0.0031403	0.0037694	0.0066487	-245.73E-6	-269.15E-6	5314.7 0	(Negligible)
						2	14.455	0.24612	None	21.471E-6	0.024287	0.024287	-243.99E-6	-262.66E-6	275900. 0	(Negligible)
						3	14.701	2.2894	None	525.92E-6	0.023790	0.023943	-242.60E-6	-293.63E-6	35385. 0	(Negligible)
		22	BS-16	BS-16	0.0	1	0.0	4.9560	None	0.0026560	0.030636	0.032253	-364.14E-6	-491.41E-6	22335. 0	(Negligible)
		23	BS-17	BS-17	0.0	1	0.0	0.81700	None	238.64E-6	-0.0058951	0.0011870	63.272E-6	212.59E-6	42368. 0	(Negligible)
		24	BS-18	BS-18	0.0	1	0.0	4.3551	None	0.0013297	0.018886	0.019604	-274.13E-6	-578.99E-6	26818. 0	(Negligible)
						2	4.3551	3.5849	None	0.0011632	-0.022473	0.0045425	544.93E-6	-578.99E-6	29995. 0	(Negligible)
		25	SB-01	SB-01	0.0	All vertical displacements are less than the limit sensitivity.										
		26	SB-02	SB-02	0.0	All vertical displacements are less than the limit sensitivity.										
		27	SB-03	SB-03	0.0	1	17.955	2.9151	None	0.0043329	0.0062457	0.0081782	-190.73E-6	-227.86E-6	5161.5 0	(Negligible)
						2	20.870	1.4387	None	139.96E-6	0.018308	0.018334	-188.15E-6	-217.27E-6	68759. 0	(Negligible)
						3	22.308	6.6176	None	0.0065852	0.040889	0.046072	-631.13E-6	-718.10E-6	4985.9 0	(Negligible)
		28	SB-04	SB-04	0.0	1	0.0	0.70225	None	707.63E-6	0.048379	0.048442	-493.90E-6	-437.70E-6	10781. 0	(Negligible)
						2	0.70225	1.2254	None	0.0016477	0.032784	0.033042	-493.90E-6	-437.70E-6	15513. 0	(Negligible)
						3	1.9277	1.2402	None	213.31E-6	0.012654	0.012688	-146.78E-6	-406.67E-6	17886. 0	(Negligible)
						4	3.1679	1.1256	None	0.060038	-0.028566	0.050880	0.0015454	0.0031933	483.15 1	(Very Slight)
						5	4.2935	1.1057	None	0.054341	-0.041386	0.043084	0.0015454	0.0031933	519.93 0	(Negligible)
						6	5.3993	2.1912	None	0.0014275	-0.031811	0.0064145	426.59E-6	-307.79E-6	17816. 0	(Negligible)
						7	7.5905	1.0271	None	0.0020805	-0.046070	0.0092919	489.44E-6	-259.61E-6	13370. 0	(Negligible)
						8	8.6176	0.39641	None	0.0	-0.048920	0.0097840	489.44E-6	-238.69E-6	9301.4 0	(Negligible)
		29	SB-05	SB-05	0.0	1	0.0	0.31664	None	0.0	0.038363	0.038363	-383.48E-6	570.84E-6	35040. 0	(Negligible)
						2	0.31664	10.222	None	0.0050894	0.036553	0.042176	-429.90E-6	571.17E-6	20826. 0	(Negligible)
						3	10.538	0.52353	None	56.267E-6	0.027612	0.027615	-276.89E-6	253.20E-6	111640. 0	(Negligible)
						4	11.062	1.3476	None	0.0022459	0.023158	0.023545	-277.82E-6	262.46E-6	4880.8 0	(Negligible)
		30	SB-06	SB-06	0.0	All vertical displacements are less than the limit sensitivity.										
		31	SB-07	SB-07	0.0	All vertical displacements are less than the limit sensitivity.										
		32	SB-08	SB-08	0.0	All vertical displacements are less than the limit sensitivity.										
		33	SB-09	SB-09	0.0	All vertical displacements are less than the limit sensitivity.										
		34	SB-10	SB-10	0.0	All vertical displacements are less than the limit sensitivity.										
		35	SB-11	SB-11	0.0	All vertical displacements are less than the limit sensitivity.										
		36	SB-12	SB-12	0.0	All vertical displacements are less than the limit sensitivity.										
		37	SB-13	SB-13	0.0	All vertical displacements are less than the limit sensitivity.										
		38	SB-14	SB-14	0.0	All vertical displacements are less than the limit sensitivity.										
		39	HL-01	HL-01	0.0	1	6.2694	2.7423	None	0.0032214	0.0020988	0.0042587	-53.897E-6	-168.49E-6	7882.6 0	(Negligible)
						2	9.0116	6.4204	None	447.70E-6	0.0019764	0.0023197	-49.826E-6	-162.48E-6	95953. 0	(Negligible)
		40	HL-02	HL-02	0.0	1	0.0	2.4753	None	425.11E-6	0.016494	0.016628	-176.60E-6	264.73E-6	47362. 0	(Negligible)
						2	2.4753	0.84884	None	59.677E-6	0.017894	0.017900	-183.32E-6	244.37E-6	76053. 0	(Negligible)
						3	3.3241	4.1599	None	0.0038952	0.0039166	0.0060165	-184.45E-6	256.45E-6	4071.6 0	(Negligible)
		41	HL-03	HL-03	0.0	1	0.0	0.96041	None	1.6847E-6	0.0	1.6809E-6	0.0	8.5144E-6	5.9982E+6 0	(Negligible)
		42	CH-01	CH-01	0.0	1	0.0	6.2414	None	0.0017646	0.018410	0.019731	-249.49E-6	-397.23E-6	36747. 0	(Negligible)
						2	6.2414	2.4651	None	491.79E-6	0.0014712	0.0016250	-100.63E-6	-397.23E-6	37280. 0	(Negligible)
						3	8.7065	1.5545	None	0.0016140	-0.010760	0.0023490	119.34E-6	-428.21E-6	15521. 0	(Negligible)
						4	10.261	3.4489	None	0.0018650	-0.032321	0.0065501	476.09E-6	-428.21E-6	14511. 0	(Negligible)
		43	CH-02	CH-02	0.0	1	0.0	4.6668	None	0.021778	-0.043526	0.016080	0.0020377	-0.0027324	954.77 0	(Negligible)
						2	4.6668	19.609	Sagging	0.023707	-0.021996	0.013380	0.0029621	-0.0027324	895.15 0	(Negligible)
		44	CH-03	CH-03	0.0	1	0.0	1.3782	None	0.021445	-0.033125	0.015936	748.24E-6	0.0025468	933.69 0	(Negligible)
						2	1.3782	15.792	Hogging	0.016784	0.036989	0.052282	-439.62E-6	0.0025468	1362.7 1	(Very Slight)
						3	17.170	0.35904	None	24.544E-6	0.025030	0.025031	-250.53E-6	268.82E-6	166850. 0	(Negligible)
						4	17.529	3.8527	None	0.0060277	0.0069650	0.0099937	-250.93E-6	-326.89E-6	1104.7 0	(Negligible)
		45	CH-04	CH-04	0.0	1	0.0	1.4659	None	0.0077272	0.0	0.0076978	0.0	342.97E-6	1124.2 0	(Negligible)
						2	1.4659	21.600	None	179.54E-6	0.0	271.55E-6	0.0	7.9928E-6	1.1927E+6 0	(Negligible)
						3	23.065	0.41657	None	0.0	0.0	35.763E-9	0.0	7.9891E-6	55.068E+6 0	(Negligible)
		46	CH-05	CH-05	0.0	1	0.0	1.3851	None	0.0087638	0.057387	0.063290	-663.69E-6	0.0028019	1660.3 1	(Very Slight)
						2	1.3851	2.0769	None	0.022602	0.042342	0.063780	-471.10E-6	0.0028019	963.09 1	(Very Slight)
		47	CH-06	CH-06	0.0	1	0.0	13.451	None	0.0062938	0.019098	0.026152	-344.38E-6	761.23E-6	13983. 0	(Negligible)
		48	CH-07	CH-07	0.0	1	0.0	5.4153	None	702.13E-6	0.0011917	0.0022540	-31.030E-6	134.67E-6	84347. 0	(Negligible)
						2	5.4153	3.3047	None	0.0023586	850.54E-6	0.0038992	-32.482E-6	139.64E-6	8185.5 0	(Negligible)
		49	CH-08	CH-08	0.0	1	0.0	0.44700	None	8.8738E-6	0.0	8.8334E-6	0.0	17.756E-6	624000. 0	(Negligible)
		50	CH-09	CH-09	0.0	1	0.0	3.3070	None	35.564E-6	0.0	45.955E-6	0.0	14.422E-6	1.1458E+6 0	(Negligible)
		51	CH-10	CH-10	0.0	1	0.0	0.49151	None	0.0	0.0	35.763E-9	0.0	11.509E-6	1.1758E+6 0	(Negligible)
		52	CH-11	CH-11	0.0	1	5.7034	3.1924	None	3.8304E-6	0.0	4.8280E-6	0.0	-8.2400E-6	5.7957E+6 0	(Negligible)
						2	8.8958	3.9376	None	6.9312E-6	0.0	9.6917E-6	0.0	-8.2400E-6	3.4673E+6 0	(Negligible)
						3	12.833	1.4246	None	0.0079612	0.0	0.0075260	0.0	-365.86E-6	1060.4 0	(Negligible)
		53	10S-01	10S-01	0.0	1	0.0	4.7674	None	0.0020477	0.034939	0.036496	-479.62E-6	384.11E-6	19986. 0	(Negligible)
						2	4.7674	1.2180	None	186.11E-6	0.028814	0.028853	-289.73E-6	264.37E-6	38729. 0	(Negligible)
		54	10S-02	10S-02	0.0	All vertical displacements are less than the limit sensitivity.										
		55	10S-03	10S-03	0.0	All vertical displacements are less than the limit sensitivity.										
		56	10S-04	10S-04	0.0	All vertical displacements are less than the limit sensitivity.										
		57	10S-05	10S-05	0.0	All vertical displacements are less than the limit sensitivity.										
		58	10S-06	10S-06	0.0	All vertical displacements are less than the limit sensitivity.										
		59	10S-07	10S-07	0.0	1	9.9154	0.39651	None	0.0	0.019635	0.019635	-198.62E-6	-241.68E-6	19061. 0	(Negligible)
						2	10.312	0.73171	None	45.763E-6	0.019346	0.019352	-196.31E-6	-233.17E-6	100790. 0	(Negligible)
						3	11.044	4.0654	None	0.0010805	0.019990	0.020703	-292.05E-6	-300.87E-6	33753. 0	(Negligible)

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
		60	10S-08	10S-08	0.0	1	0.0	6.3215	None	0.0017815	-0.0085291	0.0019446	106.20E-6	-119.83E-6	37176. 0	(Negligible)
						2	6.3215	0.73698	None	11.394E-6	-538.29E-6	107.82E-6	85.713E-6	8.5312E-6	471250. 0	(Negligible)
						3	7.0585	1.0815	None	19.476E-6	-411.55E-6	83.077E-6	4.2297E-6	4.7081E-6	714340. 0	(Negligible)
		61	10S-09	10S-09	0.0	All vertical displacements are less than the limit sensitivity.										
		62	10S-10	10S-10	0.0	All vertical displacements are less than the limit sensitivity.										
		63	10S-11	10S-11	0.0	All vertical displacements are less than the limit sensitivity.										
		64	12S-01	12S-01	0.0	1	0.0	0.95438	None	0.0010391	-0.033544	0.0067355	392.07E-6	-249.75E-6	11598. 0	(Negligible)
						2	0.95438	1.4611	None	0.0035078	-0.053083	0.010807	589.24E-6	-333.44E-6	7373.7 0	(Negligible)
						3	2.4155	3.0443	None	0.0020830	-0.068552	0.013760	992.66E-6	-333.44E-6	13636. 0	(Negligible)
						4	5.4598	1.6539	None	0.0014932	0.018097	0.018516	-403.52E-6	-258.92E-6	16436. 0	(Negligible)
						5	7.1137	2.4683	None	377.46E-6	0.038820	0.038976	-399.20E-6	-250.03E-6	63875. 0	(Negligible)
						6	9.5820	1.7227	None	0.0022069	0.036727	0.037371	-375.72E-6	-344.62E-6	9114.3 0	(Negligible)
						7	11.305	3.4873	None	0.0065110	0.033477	0.037215	-360.00E-6	-344.62E-6	3203.5 0	(Negligible)
		65	12S-02	12S-02	0.0	1	0.0	4.1061	None	0.0022970	0.058334	0.059865	-614.80E-6	719.45E-6	11746. 1	(Very Slight)
						2	4.1061	1.5539	None	250.23E-6	0.054596	0.054662	-554.35E-6	719.45E-6	48894. 1	(Very Slight)
		66	12S-03	12S-03	0.0	1	0.0	0.82631	None	0.0019151	0.027003	0.027273	-273.98E-6	-102.33E-6	2572.7 0	(Negligible)
						2	0.82631	0.28969	None	3.5304E-6	0.027781	0.027782	-277.89E-6	-101.56E-6	284530. 0	(Negligible)
		67	12S-04	12S-04	0.0	1	0.0	4.3770	None	0.0026520	0.055472	0.057343	-565.85E-6	643.97E-6	18488. 1	(Very Slight)
		68	12S-05	12S-05	0.0	1	0.0	0.62787	None	326.60E-6	0.020969	0.021004	-242.74E-6	23.262E-6	14824. 0	(Negligible)
						2	0.62787	1.2919	None	717.98E-6	0.0022822	0.0024573	-91.903E-6	23.262E-6	36824. 0	(Negligible)
						3	1.9198	4.9019	None	92.698E-6	-371.29E-6	90.301E-6	4.2000E-6	-12.537E-6	634900. 0	(Negligible)
						4	6.8217	0.61425	None	26.907E-6	-807.46E-6	162.26E-6	31.633E-6	-6.7501E-6	697480. 0	(Negligible)
						5	7.4359	6.2861	None	0.0018023	-0.0085547	0.0019551	107.42E-6	116.21E-6	36761. 0	(Negligible)
		69	12S-06	12S-06	0.0	1	0.0	4.4805	None	0.0012502	0.025509	0.026410	-291.77E-6	-407.55E-6	32304. 0	(Negligible)
						2	4.4805	0.86451	None	62.136E-6	0.018407	0.018417	-196.04E-6	-407.55E-6	209390. 0	(Negligible)
						3	5.3450	1.7588	None	991.34E-6	0.016515	0.016810	-184.64E-6	-445.38E-6	24226. 0	(Negligible)
						4	7.1038	1.5922	None	241.11E-6	0.011586	0.011651	-164.79E-6	-444.45E-6	58280. 0	(Negligible)
		70	14S-01	14S-01	0.0	1	0.0	0.66555	None	35.804E-6	0.035768	0.035774	-364.67E-6	-273.23E-6	179240. 0	(Negligible)
						2	0.66555	2.0051	None	400.16E-6	0.027812	0.028012	-337.72E-6	-273.23E-6	35894. 0	(Negligible)
						3	2.6706	2.1434	None	0.0038713	391.98E-6	0.0039128	-205.85E-6	-437.08E-6	6333.5 0	(Negligible)
						4	4.8141	0.51748	None	63.700E-6	-0.022302	0.0044605	232.19E-6	-428.84E-6	126800. 0	(Negligible)
						5	5.3315	0.54447	None	20.223E-6	-0.028777	0.0057554	294.17E-6	-426.34E-6	123380. 0	(Negligible)
		71	14S-02	14S-02	0.0	1	0.0	1.4233	None	0.0075893	-0.056766	0.012165	588.29E-6	0.0011528	1192.9 0	(Negligible)
						2	1.4233	1.9976	None	471.93E-6	-0.040171	0.0080385	537.20E-6	854.36E-6	34831. 0	(Negligible)
						3	3.4209	11.342	None	0.0056504	0.012943	0.021518	-364.62E-6	854.36E-6	20128. 0	(Negligible)
		72	14S-03	14S-03	0.0	1	0.0	6.150	None	0.0016499	-0.0010678	0.0022667	185.38E-6	133.14E-6	39229. 0	(Negligible)
		73	14S-04	14S-04	0.0	1	0.0	0.12351	None	0.0	0.013350	0.013350	-133.48E-6	397.83E-6	127140. 0	(Negligible)
						2	0.12351	0.40530	None	36.828E-6	0.013805	0.013809	-145.76E-6	399.41E-6	61863. 0	(Negligible)
						3	0.52880	1.7422	None	0.0017239	-0.0014254	0.0013216	-154.58E-6	419.26E-6	10692. 0	(Negligible)
		74	14S-05	14S-05	0.0	1	0.0	0.91512	None	146.13E-6	-0.0029116	588.33E-6	34.986E-6	147.41E-6	79662. 0	(Negligible)
						2	0.91512	1.5299	None	0.0023970	-287.85E-6	0.0022489	16.339E-6	151.84E-6	8785.5 0	(Negligible)
						3	2.4450	2.5870	None	276.59E-6	0.0038375	0.0040126	-58.968E-6	78.050E-6	94543. 0	(Negligible)
		75	14S-06	14S-06	0.0	1	0.0	2.4860	None	66.750E-6	0.0067276	0.0067684	-86.671E-6	104.41E-6	294030. 0	(Negligible)
		76	14S-07	14S-07	0.0	1	0.0	6.3630	None	0.0026712	-0.0013237	0.0020590	72.523E-6	-450.89E-6	4722.2 0	(Negligible)
		77	14S-08	14S-08	0.0	1	0.0	0.55675	None	54.474E-6	0.015269	0.015277	-155.70E-6	-45.963E-6	110940. 0	(Negligible)
						2	0.55675	1.7659	None	0.0022552	0.012827	0.013826	-135.64E-6	-132.03E-6	10489. 0	(Negligible)
						3	2.3226	0.57490	None	43.276E-6	0.011782	0.011788	-120.10E-6	-132.03E-6	213900. 0	(Negligible)
						4	2.8975	1.3457	None	855.66E-6	0.014493	0.014785	-204.40E-6	-164.96E-6	29622. 0	(Negligible)
						5	4.2432	3.3188	None	919.26E-6	0.019358	0.020083	-204.40E-6	-164.96E-6	40536. 0	(Negligible)
		78	14S-09	14S-09	0.0	1	0.0	4.6705	None	298.53E-6	-0.0053339	0.0010772	132.01E-6	-602.68E-6	168350. 0	(Negligible)
						2	4.6705	0.75349	None	15.837E-6	-0.013512	0.0027024	144.17E-6	-602.68E-6	508640. 0	(Negligible)
		79	14S-10	14S-10	0.0	1	0.0	1.4740	None	282.21E-6	0.031456	0.031561	-321.44E-6	-200.02E-6	58193. 0	(Negligible)
		80	14S-11	14S-11	0.0	1	0.0	0.48947	None	7.2659E-6	-0.012905	0.0025810	154.75E-6	-653.44E-6	249510. 0	(Negligible)
						2	0.48947	2.4965	None	0.0034321	-0.021101	0.0046398	275.66E-6	-804.27E-6	6412.5 0	(Negligible)
						3	2.9859	2.5931	None	332.88E-6	-0.033238	0.0066501	378.44E-6	-804.27E-6	56113. 0	(Negligible)
		81	14S-12	14S-12	0.0	1	0.0	3.7040	None	0.0029715	0.0072020	0.0097730	-118.65E-6	582.29E-6	6154.8 0	(Negligible)
		82	18S-01	18S-01	0.0	1	0.0	0.71113	None	233.22E-6	0.020953	0.020981	-210.59E-6	297.10E-6	36091. 0	(Negligible)
						2	0.71113	1.6980	None	0.0013788	0.016400	0.016797	-206.90E-6	297.64E-6	17986. 0	(Negligible)
						3	2.4091	6.5459	None	444.49E-6	0.0015901	0.0020280	-130.28E-6	279.82E-6	93352. 0	(Negligible)
		83	18S-02	18S-02	0.0	1	0.0	8.8270	None	0.0035570	0.0019152	0.0046938	886.42E-6	-662.82E-6	12535. 1	(Very Slight)
		84	18S-03	18S-03	0.0	1	0.0	0.57824	None	395.17E-6	-0.017275	0.0034625	178.50E-6	-412.27E-6	14583. 0	(Negligible)
						2	0.57824	1.5458	None	653.62E-6	-0.015265	0.0030759	163.74E-6	-412.27E-6	28597. 0	(Negligible)
		85	18S-04	18S-04	0.0	1	0.0	1.7460	None	680.44E-6	0.074419	0.074620	-758.62E-6	683.81E-6	31733. 1	(Very Slight)
		86	18S-05	18S-05	0.0	1	0.0	4.3769	None	561.08E-6	-0.0026928	622.95E-6	110.24E-6	-329.71E-6	54586. 0	(Negligible)
						2	4.3769	0.49707	None	7.2008E-6	0.0093692	0.0093698	-94.871E-6	-291.60E-6	6.0104E+6 0	(Negligible)
						3	4.8740	0.063594	None	11.782E-6	0.0098813	0.0098814	-107.61E-6	-291.60E-6	61.486E+6 0	(Negligible)
						4	4.9376	0.48695	None	794.36E-9	0.010803	0.010803	-121.07E-6	-291.32E-6	2.5468E+6 0	(Negligible)
						5	5.4245	1.4605	None	584.42E-6	0.015048	0.015192	-193.80E-6	-292.11E-6	14585. 0	(Negligible)
		87	20S-01	20S-01	0.0	1	0.0	2.2430	None	615.57E-6	0.049685	0.049917	-498.47E-6	386.65E-6	41945. 0	(Negligible)
		88	20S-02	20S-02	0.0	1	0.0	0.42341	None	0.0	-0.0055524	0.0011105	55.527E-6	266.06E-6	46719. 0	(Negligible)
						2	0.42341	1.7597	None	0.0046996	-0.0069116	0.0022469	81.443E-6	270.58E-6	46989.1 0	(Negligible)
						3	2.1831	3.9999	None	220.08E-6	-0.0082817	0.0016607	83.354E-6	93.367E-6	167771. 0	(Negligible)
		89	20S-03	20S-03	0.0	1	0.0	10.076	None	0.0039302	0.041542	0.046665	-467.91E-6	-553.53E-6	11031. 0	(Negligible)
		90	20S-04	20S-04	0.0	1	0.0	6.1650	None	0.0014184	-0.024198	0.0048947	245.36E-6	-333.37E-6	39551. 0	(Negligible)
		91	20S-05	20S-05	0.0	1	0.0	2.6100	None	54.494E-6	-0.0079504	0.0015903	81.958E-6	97.388E-6	400240. 0	(Negligible)
		92	20S-06	20S-06	0.0	1	0.0	10.069	None	0.0025911	0.031528	0.035413	-362.11E-6	-438.80E-6	10306. 0	(Negligible)
		93	20S-07	20S-07	0.0	1	0.0	3.1450	None	227.97E-6	-0.022475	0.0044968	235.43E-6	-353.24E-6	108780. 0	(Negligible)
		94	HT-01	HT-01	0.0	1	0.0	1.1250	None	182.19E-6	0.034508	0.034560	-348.70E-6	204.40E-6	72562. 0	(Negligible)
		95	HT-02	HT-02	0.0	1	0.0	10.422	None	347.98E-6	-0.0021951	453.58E-6	51.732E-6	96.058E-6	155250. 0	(Negligible)
						2	10.422	0.53636	None	282.14E-9	0.0017243	0.0017243	-21.187E-6	75.934E-6	2.4552E+6 0	(Negligible)
						3	10.958	2.8486	None	0.0011767	-0.0014936	831.09E-6	34.496E-6	76.321E-6	18845. 0	(Negligible)
		96	HT-03	HT-03	0.0	1	3.8588	0.59135	None	65.779E-6	0.016184	0.016194	-162.67E-6	-82.438E-6	23546. 0	(Negligible)
						2	4.4502	6.1608	None	370.90E-6	0.012702	0.013163	-158.03E-6	-78.022E-6	120720. 0	(Negligible)
		97	HT-04	HT-04	0.0	1	0.0	17.083	None	0.002951	-0.0049443	0.0011433	166.97E-6	-360.51E-6	15700. 0	(Negligible)
						2	17.083	0.086183	None	0.0	-0.016694	0.0033388	166.97E-6	-360.51E-6	787050. 0	(Negligible)
		98	22S-01	22S-01	0.0	All vertical displacements are less than the limit sensitivity.										
		99	22S-02	22S-02	0.0	1	1.9885	1.7991	None	129.14E-6	0.024254	0.024312	-245.27E-6	-46.775E-6	107130. 0	(Negligible)
						2	3.7877	8.1433	None	0.0014574	0.021421	0.023488	-240.50E-6	-143.24E-6	43971. 0	(Negligible)
		100	22S-03	22S-03	0.0	1	0.0	6.7030	None	531.95E-6	-0.0051890	0.0010638	96.968E-6	25.804E-6	132250. 0	(Negligible)
		101	22S-04	22S-04	0.0	1	0.0	6.2700	None	768.75E-6	0.015822	0.016787	-181.57E-6	121.01E-6	61101. 0	(Negligible)
						2	6.2700	1.3037	None	43.681E-6	0.018623	0.018637	-191.23E-6	69.756E-6	225320. 0	(Negligible)
						3	7.5737	0.37892	None	0.0	0.019127	0.019127	-194.28E-6	72.940E-6	70212. 0	(Negligible)
		102	23K-01	23K-01	0.0	1	0.0	5.8320	None	0.0014603	0.0049366	0.0066945	-51.548E-6	155.36E-6	16620. 0	(Negligible)
		103	23K-02	23K-02	0.0	1	0.0	9.6650	None	0.0014921	0.025829	0.028049	-269.15E-6	144.74E-6	54319. 0	(Negligible)
		104	23K-03	23K-03	0.0	1	0.0	5.8540	None	47.088E-6	0.0038366	0.0038934	-40.507E-6	-20.242E-6	1.0035E+6 0	(Negligible)
		105	23K-04	23K-04	0.0	1	0.0	5.1820	None	78.800E-6	0.0043700	0.0044579	-45.666E-6	-25.278E-6	638390. 0	(Negligible)
		106	23K-05	23K-05	0.0	1	0.0	5.5460	None	124.38E-6	0.0047557	0.0049008	-49.662E-6	-32.735E-6	460720. 0	(Negligible)
		107	23K-06	23K-06	0.0	1	0.0	1.0000	None	66.282E-6	0.0044515	0.0044685	-49.383E-6	-30.157E-6	122360. 0	(Negligible)
						2	1.0000	4.3440	None	101.16E-6	0.0040269	0.0041262	-40.268E-6	-35.356E-6	494940. 0	(Negligible)
		108	23K-07	23K-07	0.0	1	0.0	5.5350	None	147.23E-6	0.0040109	0.0041824	-40.107E-6	-44.489E-6	439580. 0	(Negligible)
		109	23K-08	23K-08	0.0	1	0.0	9.8490	None	0.0074375	0.033489	0.044597	-334.78E-6	-572.97E-6	5403.2 0	(Negligible)
		110	23K-09	23K-09	0.0	1	0.0	5.5350	None	161.76E-6	0.0041691	0.0043576	-41.689E-6	198.61E-6	384280. 0	(Negligible)
		111	23K-10	23K-10	0.0	1	0.0	3.1834	None	184.61E-6	0.0061052	0.0062458	-62.496E-6	-204.76E-6	213150. 0	(Negligible)
						2	3.1834	1.6076	None	446.96E-6	0.0050533	0.0052341	-62.496E-6	-204.76E-6	49714. 0	(Negligible)
						3	4.7910	0.55297	None	17.313E-6	0.0040340	0.0040364	-40.339E-6	-187.07E-6	400470. 0	(Negligible)
		112	23K-11	23K-11	0.0	1	0.0	10.328	None	0.0078904	0.033482	0.045356	-334.71E-6	538.60E-6	4729.7 0	(Negligible)
		113	23K-12	23K-12	0.0	1	0.0	10.402	None	0.0065704	0.031150	0.041047	-323.26E-6	-483.43E-6	5029.8 0	(Negligible)
		114	23K-13	23K-13	0.0	1	0.0	5.5300	None	328.07E-6	0.0059817	0.0063637	-61.998E-6	196.78E-6	206760. 0	(Negligible)
		115	23K-14	23K-14	0.0	1	0.0	5.1930	None	559.08E-6	0.0053652	0.0059897	-55.615E-6	-171.74E-6	6053.2 0	(Negligible)
		116	23K-15	23K-15	0.0	1	0.0	10.168	None	0.0043438	0.029379	0.035901	-305.27E-6	429.78E-6	5331.6 0	(Negligible)
		117	23K-16	23K-16	0.0	1	0.0	10.285	None	0.0027017	0.027630	0.031694	-287.96E-6	-389.25E-6	2423.6 0	(Negligible)
		118	23K-17	23K-17	0.0	1	0.0	4.5090	None	146.27E-6	0.0041158	0.0043300	-41.156E-6	-67.250E-6	382720. 0	(Negligible)
		119	23K-18	23K-18	0.0	1	0.0	0.16572	None	0.0	0.033614	0.033614	-336.03E-6	-213.99E-6	13051. 0	(Negligible)
						2	0.16572	5.1813	None	0.0033511	0.033614	0.038659	-336.03E-6	-533.44E-6	4270.8 0	(Negligible)
		120	23K-19	23K-19	0.0	1	0.0	4.5380	None	132.47E-6	0.0040761	0.0042704	-40.759E-6	179.82E-6	398120. 0	(Negligible)
		121	23AB-01	23AB-01	0.0	1	0.0	4.0040	None	51.454E-6	264.65E-6	298.15E-6	-2.6494E-6	61.630E-6	964650. 0	(Negligible)
		122	23AB-02	23AB-02	0.0	1	0.0	0.21700	None	19.938E-6	0.055701	0.055702	-556.95E-6	708.46E-6	135310. 1	(Very Slight)
		123	23AB-03	23AB-03	0.0	1	0.0	4.7900	None	55.846E-6	276.80E-6	319.40E-6	-2.7712E-6	66.906E-6	1.0248E+6 0	(Negligible)
		124	23AB-04	23AB-04	0.0	1	0.0	2.0035	None	109.17E-6	0.056079	0.056115	-566.44E-6	-705.98E-6	14273. 1	(Very Slight)
						2	2.0035	4.4425	None	574.64E-6	0.058405	0.058816	-602.63E-6	-705.98E-6	53737. 1	(Very Slight)
		125	23AB-05	23AB-05	0.0	1	0.0	1.0140	None	30.627E-6	284.18E-6	289.50E-6	-2.8432E-6	83.338E-6	410570. 0	(Negligible)
		126	23AB-06	23AB-06	0.0	1	0.0	6.4020	None	0.0022366	0.064742	0.066909	-693.99E-6	-652.89E-6	33392. 1	(Very Slight)
		127	23AB-07	23AB-07	0.0	1	0.0	5.0370	None	371.13E-6	456.26E-6	752.06E-6	-4.5852E-6	-116.42E-6	144030. 0	(Negligible)
		128	23AB-08	23AB-08	0.0	1	0.0	0.28100	None	16.043E-6	0.070358	0.070359	-704.39E-6	519.93E-6	217280. 1	(Very Slight)
		129	23AB-09	23AB-09	0.0	1	0.0	5.6300	None	271.09E-6	272.53E-6	509.66E-6	-2.7369E-6	-76.455E-6	213790. 0	(Negligible)
		130	23AB-10	23AB-10	0.0	1	0.0	3.0530	None	781.63E-6	0.068055	0.068452	-703.62E-6	586.80E-6	36924. 1	(Very Slight)
		131	23AB-11	23AB-11	0.0	1	0.0	1.8460	None	61.750E-6	307.23E-6	326.48E-6	-3.0757E-6	62.601E-6	361840. 0	(Negligible)
		132	23AB-12	23AB-12	0.0	1	0.0	2.8680	None	917.21E-6	0.063363	0.063801	-650.12E-6	660.74E-6	36263. 1	(Very Slight)
		133	23AB-13	23AB-13	0.0	1	0.0	1.0320	None	27.219E-6	469.58E-6	474.39E-6	-4.6989E-6	-75.598E-6	468560. 0	(Negligible)
		134	23AB-14	23AB-14	0.0	1	0.0	4.9773	None	700.96E-6	0.058966	0.059519	-612.44E-6	720.22E-6	49343. 1	(Very Slight)

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
						2	4.9773	1.4837	None	56.574E-6	0.056393	0.056407	-568.97E-6	720.22E-6	206460.	1 (Very Slight)
		135	23AB-15	23AB-15	0.0	1	0.0	7.7350	None	221.57E-6	579.70E-6	826.01E-6	-5.8368E-6	99.695E-6	426980.	0 (Negligible)
		136	28K-01	28K-01	0.0	All vertical displacements are less than the limit sensitivity.										
		137	28K-02	28K-02	0.0	All vertical displacements are less than the limit sensitivity.										
		138	28K-03	28K-03	0.0	1	4.4762	2.8328	None	199.47E-6	0.029872	0.030009	-298.63E-6	-61.304E-6	85213.	0 (Negligible)
						2	7.3091	1.6429	None	58.026E-6	0.029872	0.029896	-298.63E-6	-45.786E-6	220430.	0 (Negligible)
		139	28K-04	28K-04	0.0	1	0.0	2.7140	None	18.102E-6	0.0071413	0.0071533	-71.408E-6	19.659E-6	1.1017E+6	0 (Negligible)
						2	2.7140	4.9910	None	68.521E-6	0.0071414	0.0072158	-71.409E-6	23.342E-6	483880.	0 (Negligible)
		140	28K-05	28K-05	0.0	1	0.0	0.91709	None	120.76E-6	0.030215	0.030243	-302.06E-6	65.440E-6	78231.	0 (Negligible)
		141	28K-06	28K-06	0.0	All vertical displacements are less than the limit sensitivity.										
		142	28K-07	28K-07	0.0	All vertical displacements are less than the limit sensitivity.										

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Specific Building Damage Results - Critical Values for All Segments within Each Sub-Building

Stage Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Slope	Max Settlement [mm]	Max Tensile Strain [%]	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging) [m]	Min Radius of Curvature (Sagging) [m]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	0.0019305	0.026401	-441.18E-6	11.146	0.026742	-285.35E-6	-441.18E-6	-	-	0 (Negligible)
		2	16S-02	16S-02	0.0	0.017485	0.14124	0.0020523	11.147	0.14124	0.0066237	0.0020523	-	-	2 (Slight)
		3	16S-03	16S-03	0.0	0.015094	-0.028121	0.0014918	7.8985	0.011148	0.0062350	0.0014918	-	-	0 (Negligible)
		4	16S-04	16S-04	0.0	0.0059339	0.030813	-422.97E-6	6.2870	0.032801	-342.17E-6	-422.97E-6	-	-	0 (Negligible)
		5	16S-05	16S-05	0.0	0.0031539	0.045685	-147.71E-6	5.5605	0.046601	-540.52E-6	-147.71E-6	-	-	0 (Negligible)
		6	16S-06	16S-06	0.0	0.0019586	0.079745	-592.91E-6	8.9617	0.079769	-823.06E-6	-592.91E-6	-	-	2 (Slight)
		7	BS-01	BS-01	0.0	0.14303	-0.11398	-0.0048021	16.900	0.11672	0.0018495	-0.0048021	-	1101.5	2 (Slight)
		8	BS-02	BS-02	0.0	0.014527	0.071517	0.0012600	14.399	0.072068	-933.53E-6	0.0012600	3708.5	-	1 (Very Slight)
		21	BS-15	BS-15	0.0	0.0031403	0.024287	-293.63E-6	1.2684	0.024287	-245.73E-6	-293.63E-6	-	-	0 (Negligible)
		22	BS-16	BS-16	0.0	0.0026560	0.030636	-491.41E-6	3.2247	0.032253	-364.14E-6	-491.41E-6	-	-	0 (Negligible)
		23	BS-17	BS-17	0.0	238.64E-6	-0.0058951	212.59E-6	3.2252	0.0011870	63.272E-6	212.59E-6	-	-	0 (Negligible)
		24	BS-18	BS-18	0.0	0.0013297	-0.022473	-578.99E-6	7.3838	0.019604	544.93E-6	-578.99E-6	-	-	0 (Negligible)
		27	SB-03	SB-03	0.0	0.0065852	0.040889	-718.10E-6	3.6148	0.046072	-631.13E-6	-718.10E-6	-	-	0 (Negligible)
		28	SB-04	SB-04	0.0	0.060038	-0.048920	0.0031933	5.2557	0.050880	0.0015454	0.0031933	-	-	1 (Very Slight)
		29	SB-05	SB-05	0.0	0.0050894	0.038363	571.17E-6	4.9517	0.042176	-429.90E-6	571.17E-6	-	-	0 (Negligible)
		39	HL-01	HL-01	0.0	0.0032214	0.0020988	-168.49E-6	1.2062	0.0042587	-53.897E-6	-168.49E-6	-	-	0 (Negligible)
		40	HL-02	HL-02	0.0	0.0038952	0.017894	264.73E-6	1.2062	0.017900	-184.45E-6	264.73E-6	-	-	0 (Negligible)
		41	HL-03	HL-03	0.0	1.6847E-6	0.0	8.5144E-6	0.10871	1.6809E-6	0.0	8.5144E-6	-	-	0 (Negligible)
		42	CH-01	CH-01	0.0	0.0018650	-0.032321	-428.21E-6	6.2131	0.019731	476.09E-6	-428.21E-6	-	-	0 (Negligible)
		43	CH-02	CH-02	0.0	0.023707	-0.043526	-0.0027324	17.593	0.016080	0.0029621	-0.0027324	-	895.15	0 (Negligible)
		44	CH-03	CH-03	0.0	0.021445	0.036989	0.0025468	14.414	0.052282	748.24E-6	0.0025468	1362.7	-	1 (Very Slight)
		45	CH-04	CH-04	0.0	0.0077272	0.0	342.97E-6	0.34086	0.0076978	0.0	342.97E-6	-	-	0 (Negligible)
		46	CH-05	CH-05	0.0	0.022602	0.057387	0.0028019	14.414	0.063780	-663.69E-6	0.0028019	-	-	1 (Very Slight)
		47	CH-06	CH-06	0.0	0.0062938	0.019098	761.23E-6	7.6401	0.026152	-344.38E-6	761.23E-6	-	-	0 (Negligible)
		48	CH-07	CH-07	0.0	0.0023586	0.0011917	139.64E-6	0.87874	0.0038992	-32.482E-6	139.64E-6	-	-	0 (Negligible)
		49	CH-08	CH-08	0.0	8.8738E-6	0.0	17.756E-6	0.15999	8.8334E-6	0.0	17.756E-6	-	-	0 (Negligible)
		50	CH-09	CH-09	0.0	35.564E-6	0.0	14.422E-6	0.15213	45.955E-6	0.0	14.422E-6	-	-	0 (Negligible)
		51	CH-10	CH-10	0.0	0.0	0.0	11.509E-6	0.10857	35.763E-9	0.0	11.509E-6	-	-	0 (Negligible)
		52	CH-11	CH-11	0.0	0.0079612	0.0	365.86E-6	0.34067	0.0075260	0.0	365.86E-6	-	-	0 (Negligible)
		53	10S-01	10S-01	0.0	0.0020477	0.034939	384.11E-6	1.8986	0.036496	-479.62E-6	384.11E-6	-	-	0 (Negligible)
		59	10S-07	10S-07	0.0	0.0010805	0.019990	-300.87E-6	1.5151	0.020703	-292.05E-6	-300.87E-6	-	-	0 (Negligible)
		60	10S-08	10S-08	0.0	0.0017815	-0.0085291	-119.83E-6	1.9093	0.0019446	106.20E-6	-119.83E-6	-	-	0 (Negligible)
		64	12S-01	12S-01	0.0	0.0065110	-0.068552	-344.62E-6	8.1037	0.038976	992.66E-6	-344.62E-6	-	-	0 (Negligible)
		65	12S-02	12S-02	0.0	0.0022970	0.058334	719.45E-6	8.0456	0.059865	-614.80E-6	719.45E-6	-	-	1 (Very Slight)
		66	12S-03	12S-03	0.0	0.0019151	0.027781	-102.33E-6	4.3112	0.027782	-277.89E-6	-102.33E-6	-	-	0 (Negligible)
		67	12S-04	12S-04	0.0	0.0026520	0.055472	643.97E-6	4.3113	0.057343	-565.85E-6	643.97E-6	-	-	1 (Very Slight)
		68	12S-05	12S-05	0.0	0.0018023	0.020969	116.21E-6	1.9176	0.021004	-242.74E-6	116.21E-6	-	-	0 (Negligible)
		69	12S-06	12S-06	0.0	0.0012502	0.025509	-445.38E-6	5.0164	0.026410	-291.77E-6	-445.38E-6	-	-	0 (Negligible)
		70	14S-01	14S-01	0.0	0.0038713	0.035768	-437.08E-6	14.085	0.035774	-364.67E-6	-437.08E-6	-	-	0 (Negligible)
		71	14S-02	14S-02	0.0	0.0075893	-0.056766	0.0011528	14.085	0.021518	588.29E-6	0.0011528	-	-	0 (Negligible)
		72	14S-03	14S-03	0.0	0.0016499	-0.010678	133.14E-6	3.2208	0.0022667	185.38E-6	133.14E-6	-	-	0 (Negligible)
		73	14S-04	14S-04	0.0	0.0017239	0.013805	419.26E-6	2.8009	0.013809	-154.58E-6	419.26E-6	-	-	0 (Negligible)
		74	14S-05	14S-05	0.0	0.023970	0.0038375	151.84E-6	1.9593	0.004126	-58.968E-6	151.84E-6	-	-	0 (Negligible)
		75	14S-06	14S-06	0.0	66.750E-6	0.0067276	104.41E-6	1.4963	0.0067684	-86.671E-6	104.41E-6	-	-	0 (Negligible)
		76	14S-07	14S-07	0.0	0.0026712	-0.0013237	-450.89E-6	3.6043	0.0020590	72.523E-6	-450.89E-6	-	-	0 (Negligible)
		77	14S-08	14S-08	0.0	0.0022552	0.019358	-164.96E-6	4.4412	0.020083	-204.40E-6	-164.96E-6	-	-	0 (Negligible)
		78	14S-09	14S-09	0.0	298.53E-6	-0.013512	-602.68E-6	7.6672	0.0027024	144.17E-6	-602.68E-6	-	-	0 (Negligible)
		79	14S-10	14S-10	0.0	282.21E-6	0.031456	-200.02E-6	7.9505	0.031561	-321.44E-6	-200.02E-6	-	-	0 (Negligible)
		80	14S-11	14S-11	0.0	0.0034321	-0.033238	-804.27E-6	12.193	0.0066501	378.44E-6	-804.27E-6	-	-	0 (Negligible)
		81	14S-12	14S-12	0.0	0.0029715	0.0072020	582.29E-6	4.4412	0.0097730	-118.65E-6	582.29E-6	-	-	0 (Negligible)
		82	18S-01	18S-01	0.0	0.0013788	0.020953	297.64E-6	5.5635	0.020981	-210.59E-6	297.64E-6	-	-	0 (Negligible)
		83	18S-02	18S-02	0.0	0.0035570	0.061952	-662.82E-6	7.2414	0.065938	-686.32E-6	-662.82E-6	-	-	1 (Very Slight)
		84	18S-03	18S-03	0.0	653.62E-6	-0.017275	-412.27E-6	8.0675	0.0034625	178.50E-6	-412.27E-6	-	-	0 (Negligible)
		85	18S-04	18S-04	0.0	680.44E-6	0.074419	683.81E-6	8.0678	0.074620	-758.62E-6	683.81E-6	-	-	1 (Very Slight)
		86	18S-05	18S-05	0.0	584.42E-6	0.015048	-329.71E-6	8.9626	0.015192	-193.80E-6	-329.71E-6	-	-	0 (Negligible)
		87	20S-01	20S-01	0.0	615.57E-6	0.049885	386.65E-6	3.2067	0.049917	-498.47E-6	386.65E-6	-	-	0 (Negligible)
		88	20S-02	20S-02	0.0	0.0046996	-0.0082817	270.58E-6	2.3863	0.0034689	83.354E-6	270.58E-6	-	-	0 (Negligible)
		89	20S-03	20S-03	0.0	0.0039302	0.041542	-553.53E-6	5.4738	0.046665	-467.91E-6	-553.53E-6	-	-	0 (Negligible)
		90	20S-04	20S-04	0.0	0.0014184	-0.024198	-333.37E-6	7.2462	0.0048947	245.36E-6	-333.37E-6	-	-	0 (Negligible)
		91	20S-05	20S-05	0.0	54.494E-6	-0.0079504	97.388E-6	1.6284	0.0015903	81.958E-6	97.388E-6	-	-	0 (Negligible)
		92	20S-06	20S-06	0.0	0.0025911	0.031528	-438.80E-6	4.3782	0.035413	-362.11E-6	-438.80E-6	-	-	0 (Negligible)
		93	20S-07	20S-07	0.0	227.97E-6	-0.022475	-353.24E-6	5.4682	0.0044968	235.43E-6	-353.24E-6	-	-	0 (Negligible)
		94	HT-01	HT-01	0.0	182.19E-6	0.034508	204.40E-6	1.3771	0.034560	-348.70E-6	204.40E-6	-	-	0 (Negligible)
		95	HT-02	HT-02	0.0	0.0011767	-0.0021951	96.058E-6	1.1532	0.0017243	51.732E-6	96.058E-6	-	-	0 (Negligible)
		96	HT-03	HT-03	0.0	370.90E-6	0.016184	-82.438E-6	0.54876	0.016194	-162.67E-6	-82.438E-6	-	-	0 (Negligible)
		97	HT-04	HT-04	0.0	0.0029851	-0.016694	-360.51E-6	4.0919	0.0033388	166.97E-6	-360.51E-6	-	-	0 (Negligible)
		99	22S-02	22S-02	0.0	0.0014574	0.024254	-143.24E-6	0.81668	0.024312	-245.27E-6	-143.24E-6	-	-	0 (Negligible)
		100	22S-03	22S-03	0.0	531.95E-6	-0.0051890	25.804E-6	0.83264	0.0010638	96.968E-6	25.804E-6	-	-	0 (Negligible)
		101	22S-04	22S-04	0.0	768.75E-6	0.019127	121.01E-6	0.76728	0.019127	-194.28E-6	121.01E-6	-	-	0 (Negligible)
		102	23K-01	23K-01	0.0	0.0014603	0.0049366	155.36E-6	1.5536	0.0066945	-51.548E-6	155.36E-6	-	-	0 (Negligible)
		103	23K-02	23K-02	0.0	0.0014921	0.025829	144.74E-6	0.98578	0.028049	-269.15E-6	144.74E-6	-	-	0 (Negligible)
		104	23K-03	23K-03	0.0	47.088E-6	0.0038366	-20.242E-6	0.33787	0.0038934	-40.507E-6	-20.242E-6	-	-	0 (Negligible)
		105	23K-04	23K-04	0.0	78.800E-6	0.0043700	-25.278E-6	0.42548	0.0044579	-45.666E-6	-25.278E-6	-	-	0 (Negligible)
		106	23K-05	23K-05	0.0	124.38E-6	0.0047557	-32.735E-6	0.54698	0.0049008	-49.662E-6	-32.735E-6	-	-	0 (Negligible)
		107	23K-06	23K-06	0.0	101.16E-6	0.0044515	-35.356E-6	0.66562	0.0044685	-49.383E-6	-35.356E-6	-	-	0 (Negligible)
		108	23K-07	23K-07	0.0	147.23E-6	0.0040109	-44.489E-6	0.84134	0.0041824	-40.107E-6	-44.489E-6	-	-	0 (Negligible)
		109	23K-08	23K-08	0.0	0.0074375	0.033489	-572.97E-6	4.5833	0.044597	-334.78E-6	-572.97E-6	-	-	0 (Negligible)
		110	23K-09	23K-09	0.0	161.76E-6	0.0041691	198.61E-6	4.5839	0.0043576	-41.689E-6	198.61E-6	-	-	0 (Negligible)
		111	23K-10	23K-10	0.0	446.96E-6	0.0061052	-204.76E-6	3.7930	0.0062458	-62.496E-6	-204.76E-6	-	-	0 (Negligible)
		112	23K-11	23K-11	0.0	0.0078904	0.033482	538.60E-6	3.7932	0.045356	-334.71E-6	538.60E-6	-	-	0 (Negligible)
		113	23K-12	23K-12	0.0	0.0065704	0.031150	-483.43E-6	2.9732	0.041047	-323.26E-6	-483.43E-6	-	-	0 (Negligible)
		114	23K-13	23K-13	0.0	328.07E-6	0.0059817	196.78E-6	2.9734	0.0063637	-61.998E-6	196.78E-6	-	-	0 (Negligible)
		115	23K-14	23K-14	0.0	559.08E-6	0.0053652	-171.74E-6	2.1270	0.0059897	-55.615E-6	-171.74E-6	-	-	0 (Negligible)
		116	23K-15	23K-15	0.0	0.0043438	0.029379	429.78E-6	2.1271	0.035901	-305.27E-6	429.78E-6	-	-	0 (Negligible)
		117	23K-16	23K-16	0.0	0.0027017	0.027630	-389.25E-6	1.5534	0.031694	-287.96E-6	-389.25E-6	-	-	0 (Negligible)
		118	23K-17	23K-17	0.0	146.27E-6	0.0041158	-67.250E-6	1.3213	0.0043300	-41.156E-6	-67.250E-6	-	-	0 (Negligible)
		119	23K-18	23K-18	0.0	0.0033511	0.033614	-533.44E-6	3.6568	0.038659	-336.03E-6	-533.44E-6	-	-	0 (Negligible)
		120	23K-19	23K-19	0.0	132.47E-6	0.0040761	179.82E-6	3.6573	0.0042704	-40.759E-6	179.82E-6	-	-	0 (Negligible)
		121	23AB-01	23AB-01	0.0	51.454E-6	264.65E-6	61.630E-6	8.8173	298.15E-6	-2.6494E-6	61.630E-6	-	-	0 (Negligible)
		122	23AB-02	23AB-02	0.0	19.938E-6	0.055701	708.46E-6	8.5779	0.055702	-556.95E-6	708.46E-6	-	-	1 (Very Slight)
		123	23AB-03	23AB-03	0.0	55.846E-6	276.80E-6	66.906E-6	8.4235	319.40E-6	-2.7712E-6	66.906E-6	-	-	0 (Negligible)
		124	23AB-04	23AB-04	0.0	574.64E-6	0.058405	-705.98E-6	12.594	0.058816	-602.63E-6	-705.98E-6	-	-	1 (Very Slight)
		125	23AB-05	23AB-05	0.0	30.627E-6	284.18E-6	83.338E-6	12.595	289.50E-6	-2.8432E-6	83.338E-6	-	-	0 (Negligible)
		126	23AB-06	23AB-06	0.0	0.0022366	0.064742	-652.89E-6	16.188	0.066909	-693.99E-6	-652.89E-6	-	-	1 (Very Slight)
		127	23AB-07	23AB-07	0.0	371.13E-6	456.26E-6	-116.42E-6	16.702	752.06E-6	-4.5852E-6	-116.42E-6	-	-	0 (Negligible)
		128	23AB-08	23AB-08	0.0	16.043E-6	0.070358	519.93E-6	16.702	0.070359	-704.39E-6	519.93E-6	-	-	1 (Very Slight)
		129	23AB-09	23AB-09	0.0	271.09E-6	272.53E-6	-76.455E-6	16.927	509.66E-6	-2.7369E-6	-76.455E-6	-	-	0 (Negligible)
		130	23AB-10	23AB-10	0.0	781.63E-6	0.068055	586.80E-6	16.927	0.068452	-703.62E-6	586.80E-6	-	-	1 (Very Slight)
		131	23AB-11	23AB-11	0.0	61.750E-6	307.23E-6	62.601E-6	15.227	326.48E-6	-3.0757E-6	62.601E-6	-	-	0 (Negligible)
		132	23AB-12	23AB-12	0.0	917.21E-6	0.063363	660.74E-6	15.115	0.063801	-650.12E-6	660.74E-6	-	-	1 (Very Slight)
		133	23AB-13	23AB-13	0.0	27.219E-6	469.58E-6	-75.598E-6	13.381	474.39E-6	-4.6989E-6	-75.598E-6	-	-	0 (Negligible)
		134	23AB-14	23AB-14	0.0	700.96E-6	0.058966	720.22E-6	13.381	0.059519	-612.44E-6	720.22E-6	-	-	1 (Very Slight)
		135	23AB-15	23AB-15	0.0	221.57E-6	579.70E-6	99.695E-6	13.304	826.01E-6	-5.8368E-6	99.695E-6	-	-	0 (Negligible)
		138	28K-03	28K-03	0.0	199.47E-6	0.029872	-61.304E-6	0.32475	0.030009	-298.63E-6	-61.304E-6	-	-	0 (Negligible)
		139	28K-04	28K-04	0.0	68.521E-6	0.0071414	23.342E-6	0.32477	0.0072158	-71.409E-6	23.342E-6	-	-	0 (Negligible)
		140	28K-05	28K-05	0.0	120.76E-6	0.030215	65.440E-6	0.17239	0.030243	-302.06E-6	65.440E-6	-	-	0 (Negligible)

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category

Specific Building Damage Results - Critical Segments within Each Building

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start [m]	End [m]	Curvature	Max Slope	Max Settlement [mm]	Max Tensile Strain [%]	Min Radius of Curvature (Hogging) [m]	Min Radius of Curvature (Sagging) [m]	Damage Category
0	Base Model	0	16S-01	Max Slope	16S-01	2	4.9514	6.0170	None	**441.18E-6**	11.146	0.026742	-	-	0 (Negligible)
				Max Settlement	16S-01	2	4.9514	6.0170	None	441.18E-6	**11.146**	0.026742	-	-	0 (Negligible)
				Max Tensile Strain	16S-01	2	4.9514	6.0170	None	441.18E-6	11.146	**0.026742**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	16S-02	Max Slope	16S-02	2	0.19263	6.5880	None	**0.0020523**	11.116	0.065185	-	-	1 (Very Slight)
				Max Settlement	16S-02	1	0.0	0.19263	None	156.82E-6	**11.147**	0.14124	-	-	2 (Slight)
				Max Tensile Strain	16S-02	1	0.0	0.19263	None	156.82E-6	11.147	**0.14124**	-	-	2 (Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	16S-03	Max Slope	16S-03	1	0.0	2.8020	None	**0.0014918**	7.8985	0.011148	-	-	0 (Negligible)
				Max Settlement	16S-03	1	0.0	2.8020	None	0.0014918	**7.8985**	0.011148	-	-	0 (Negligible)
				Max Tensile Strain	16S-03	1	0.0	2.8020	None	0.0014918	7.8985	**0.011148**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	16S-04	Max Slope	16S-04	1	0.0	3.1026	None	**422.97E-6**	6.2870	0.032801	-	-	0 (Negligible)
				Max Settlement	16S-04	1	0.0	3.1026	None	422.97E-6	**6.2870**	0.032801	-	-	0 (Negligible)
				Max Tensile Strain	16S-04	1	0.0	3.1026	None	422.97E-6	6.2870	**0.032801**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	16S-05	Max Slope	16S-05	1	0.0	1.7146	None	**147.71E-6**	5.4155	0.046601	-	-	0 (Negligible)
				Max Settlement	16S-05	2	1.7146	2.9710	None	132.67E-6	**5.5605**	0.043572	-	-	0 (Negligible)
				Max Tensile Strain	16S-05	1	0.0	1.7146	None	147.71E-6	5.4155	**0.046601**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	16S-06	Max Slope	16S-06	4	5.0950	6.2230	None	**592.91E-6**	8.9617	0.079769	-	-	2 (Slight)
				Max Settlement	16S-06	4	5.0950	6.2230	None	592.91E-6	**8.9617**	0.079769	-	-	2 (Slight)
				Max Tensile Strain	16S-06	4	5.0950	6.2230	None	592.91E-6	8.9617	**0.079769**	-	-	2 (Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	BS-01	Max Slope	BS-01	3	11.109	12.184	None	**0.0048021**	14.530	0.11672	-	-	2 (Slight)
				Max Settlement	BS-01	2	3.2501	11.109	Sagging	0.0026600	**16.900**	0.054131	-	1101.5	1 (Very Slight)
				Max Tensile Strain	BS-01	3	11.109	12.184	None	0.0048021	14.530	**0.11672**	-	-	2 (Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)	BS-01	2	3.2501	11.109	Sagging	0.0026600	16.900	0.054131	-	**1101.5**	1 (Very Slight)
		0	BS-02	Max Slope	BS-02	1	0.0	1.7440	None	**0.0012600**	14.399	0.072068	-	-	1 (Very Slight)
				Max Settlement	BS-02	1	0.0	1.7440	None	0.0012600	**14.399**	0.072068	-	-	1 (Very Slight)
				Max Tensile Strain	BS-02	1	0.0	1.7440	None	0.0012600	14.399	**0.072068**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	BS-02	2	1.7440	15.635	Hogging	0.0012600	12.316	0.067984	**3708.5**	-	1 (Very Slight)
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	BS-03	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-04	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-05	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-07	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-08	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-09	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-10	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-11	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-12	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-13	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-14	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	BS-15	Max Slope	BS-15	3	14.701	16.990	None	**293.63E-6**	1.2684	0.023943	-	-	0 (Negligible)
				Max Settlement	BS-15	3	14.701	16.990	None	293.63E-6	**1.2684**	0.023943	-	-	0 (Negligible)
				Max Tensile Strain	BS-15	2	14.455	14.701	None	262.66E-6	0.63894	**0.024287**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	BS-16	Max Slope	BS-16	1	0.0	4.9560	None	**491.41E-6**	3.2247	0.032253	-	-	0 (Negligible)
				Max Settlement	BS-16	1	0.0	4.9560	None	491.41E-6	**3.2247**	0.032253	-	-	0 (Negligible)
				Max Tensile Strain	BS-16	1	0.0	4.9560	None	491.41E-6	3.2247	**0.032253**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	BS-17	Max Slope	BS-17	1	0.0	0.81700	None	**212.59E-6**	3.2252	0.0011870	-	-	0 (Negligible)
				Max Settlement	BS-17	1	0.0	0.81700	None	212.59E-6	**3.2252**	0.0011870	-	-	0 (Negligible)
				Max Tensile Strain	BS-17	1	0.0	0.81700	None	212.59E-6	3.2252	**0.0011870**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	
		0	BS-18	Max Slope	BS-18	1	0.0	4.3551	None	**578.99E-6**	5.4192	0.019604	-	-	0 (Negligible)
				Max Settlement	BS-18	2	4.3551	7.9400	None	578.99E-6	**7.3838**	0.0045425	-	-	0 (Negligible)

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				Max Tensile Strain	BS-18	1	0.0	4.3551	None	578.99E-6	5.4192	**0.019604**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	SB-01	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-02	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-03	Max Slope	SB-03	3	22.308	28.926	None	**718.10E-6**	3.6148	0.046072	-	-	0 (Negligible)
				Max Settlement	SB-03	3	22.308	28.926	None	718.10E-6	**3.6148**	0.046072	-	-	0 (Negligible)
				Max Tensile Strain	SB-03	3	22.308	28.926	None	718.10E-6	3.6148	**0.046072**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	SB-04	Max Slope	SB-04	4	3.1679	4.2935	None	**0.0031933**	5.2557	0.050880	-	-	1 (Very Slight)
				Max Settlement	SB-04	4	3.1679	4.2935	None	0.0031933	**5.2557**	0.050880	-	-	1 (Very Slight)
				Max Tensile Strain	SB-04	4	3.1679	4.2935	None	0.0031933	5.2557	**0.050880**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	SB-05	Max Slope	SB-05	2	0.31664	10.538	None	**571.17E-6**	4.7709	0.042176	-	-	0 (Negligible)
				Max Settlement	SB-05	1	0.0	0.31664	None	570.84E-6	**4.9517**	0.038363	-	-	0 (Negligible)
				Max Tensile Strain	SB-05	2	0.31664	10.538	None	571.17E-6	4.7709	**0.042176**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	SB-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-07	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-08	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-09	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-10	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-11	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-12	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-13	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	SB-14	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	HL-01	Max Slope	HL-01	1	6.2694	9.0116	None	**168.49E-6**	0.30817	0.0042587	-	-	0 (Negligible)
				Max Settlement	HL-01	2	9.0116	15.432	None	162.48E-6	**1.2062**	0.0023197	-	-	0 (Negligible)
				Max Tensile Strain	HL-01	1	6.2694	9.0116	None	168.49E-6	0.30817	**0.0042587**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	HL-02	Max Slope	HL-02	1	0.0	2.4753	None	**264.73E-6**	1.2062	0.016628	-	-	0 (Negligible)
				Max Settlement	HL-02	1	0.0	2.4753	None	264.73E-6	**1.2062**	0.016628	-	-	0 (Negligible)
				Max Tensile Strain	HL-02	2	2.4753	3.3241	None	244.37E-6	0.59043	**0.017900**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	HL-03	Max Slope	HL-03	1	0.0	0.96041	None	**8.5144E-6**	0.10871	1.6809E-6	-	-	0 (Negligible)
				Max Settlement	HL-03	1	0.0	0.96041	None	8.5144E-6	**0.10871**	1.6809E-6	-	-	0 (Negligible)
				Max Tensile Strain	HL-03	1	0.0	0.96041	None	8.5144E-6	0.10871	**1.6809E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-01	Max Slope	CH-01	3	8.7065	10.261	None	**428.21E-6**	4.9390	0.0023490	-	-	0 (Negligible)
				Max Settlement	CH-01	4	10.261	13.710	None	428.21E-6	**6.2131**	0.0065501	-	-	0 (Negligible)
				Max Tensile Strain	CH-01	1	0.0	6.2414	None	397.23E-6	3.3811	**0.019731**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-02	Max Slope	CH-02	1	0.0	4.6668	None	**0.0027324**	11.445	0.016080	-	-	0 (Negligible)
				Max Settlement	CH-02	2	4.6668	24.276	Sagging	0.0027324	**17.593**	0.013380	-	895.15	0 (Negligible)
				Max Tensile Strain	CH-02	1	0.0	4.6668	None	0.0027324	11.445	**0.016080**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)	CH-02	2	4.6668	24.276	Sagging	0.0027324	17.593	0.013380	-	**895.15**	0 (Negligible)
		0	CH-03	Max Slope	CH-03	1	0.0	1.3782	None	**0.0025468**	14.414	0.015936	-	-	0 (Negligible)
				Max Settlement	CH-03	1	0.0	1.3782	None	0.0025468	**14.414**	0.015936	-	-	0 (Negligible)
				Max Tensile Strain	CH-03	2	1.3782	17.170	Hogging	0.0025468	11.911	**0.052282**	1362.7	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	CH-03	2	1.3782	17.170	Hogging	0.0025468	11.911	0.052282	**1362.7**	-	1 (Very Slight)
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-04	Max Slope	CH-04	1	0.0	1.4659	None	**342.97E-6**	0.34086	0.0076978	-	-	0 (Negligible)
				Max Settlement	CH-04	1	0.0	1.4659	None	342.97E-6	**0.34086**	0.0076978	-	-	0 (Negligible)
				Max Tensile Strain	CH-04	1	0.0	1.4659	None	342.97E-6	0.34086	**0.0076978**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-05	Max Slope	CH-05	1	0.0	1.3851	None	**0.0028019**	14.414	0.063290	-	-	1 (Very Slight)
				Max Settlement	CH-05	1	0.0	1.3851	None	0.0028019	**14.414**	0.063290	-	-	1 (Very Slight)
				Max Tensile Strain	CH-05	2	1.3851	3.4620	None	0.0028019	11.370	**0.063780**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-06	Max Slope	CH-06	1	0.0	13.451	None	**761.23E-6**	7.6401	0.026152	-	-	0 (Negligible)
				Max Settlement	CH-06	1	0.0	13.451	None	761.23E-6	**7.6401**	0.026152	-	-	0 (Negligible)
				Max Tensile Strain	CH-06	1	0.0	13.451	None	761.23E-6	7.6401	**0.026152**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-07	Max Slope	CH-07	2	5.4153	8.7200	None	**139.64E-6**	0.32025	0.0038992	-	-	0 (Negligible)
				Max Settlement	CH-07	1	0.0	5.4153	None	134.67E-6	**0.87874**	0.0022540	-	-	0 (Negligible)
				Max Tensile Strain	CH-07	2	5.4153	8.7200	None	139.64E-6	0.32025	**0.0038992**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	CH-08	Max Slope	CH-08	1	0.0	0.44700	None	**17.756E-6**	0.15999	8.8334E-6	-	-	0 (Negligible)
				Max Settlement	CH-08	1	0.0	0.44700	None	17.756E-6	**0.15999**	8.8334E-6	-	-	0 (Negligible)
				Max Tensile Strain	CH-08	1	0.0	0.44700	None	17.756E-6	0.15999	**8.8334E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage	Category
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	CH-09	Max Slope	CH-09	1	0.0	3.3070	None	**14.422E-6**	0.15213	45.955E-6	-	-	0	(Negligible)
				Max Settlement	CH-09	1	0.0	3.3070	None	14.422E-6	**0.15213**	45.955E-6	-	-	0	(Negligible)
				Max Tensile Strain	CH-09	1	0.0	3.3070	None	14.422E-6	0.15213	**45.955E-6**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	CH-10	Max Slope	CH-10	1	0.0	0.49151	None	**11.509E-6**	0.10857	35.763E-9	-	-	0	(Negligible)
				Max Settlement	CH-10	1	0.0	0.49151	None	11.509E-6	**0.10857**	35.763E-9	-	-	0	(Negligible)
				Max Tensile Strain	CH-10	1	0.0	0.49151	None	11.509E-6	0.10857	**35.763E-9**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	CH-11	Max Slope	CH-11	3	12.833	14.258	None	**365.86E-6**	0.34067	0.0075260	-	-	0	(Negligible)
				Max Settlement	CH-11	3	12.833	14.258	None	365.86E-6	**0.34067**	0.0075260	-	-	0	(Negligible)
				Max Tensile Strain	CH-11	3	12.833	14.258	None	365.86E-6	0.34067	**0.0075260**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	10S-01	Max Slope	10S-01	1	0.0	4.7674	None	**384.11E-6**	1.8986	0.036496	-	-	0	(Negligible)
				Max Settlement	10S-01	1	0.0	4.7674	None	384.11E-6	**1.8986**	0.036496	-	-	0	(Negligible)
				Max Tensile Strain	10S-01	1	0.0	4.7674	None	384.11E-6	1.8986	**0.036496**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	10S-02	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-03	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-04	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-05	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-06	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-07	Max Slope	10S-07	3	11.044	15.109	None	**300.87E-6**	1.5151	0.020703	-	-	0	(Negligible)
				Max Settlement	10S-07	3	11.044	15.109	None	300.87E-6	**1.5151**	0.020703	-	-	0	(Negligible)
				Max Tensile Strain	10S-07	3	11.044	15.109	None	300.87E-6	1.5151	**0.020703**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	10S-08	Max Slope	10S-08	1	0.0	6.3215	None	**119.83E-6**	1.9093	0.0019446	-	-	0	(Negligible)
				Max Settlement	10S-08	1	0.0	6.3215	None	119.83E-6	**1.9093**	0.0019446	-	-	0	(Negligible)
				Max Tensile Strain	10S-08	1	0.0	6.3215	None	119.83E-6	1.9093	**0.0019446**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	10S-09	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-10	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	10S-11	All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
				All vertical displacements are less than the limit sensitivity.												
		0	12S-01	Max Slope	12S-01	6	9.5820	11.305	None	**344.62E-6**	7.8065	0.037371	-	-	0	(Negligible)
				Max Settlement	12S-01	7	11.305	14.792	None	344.62E-6	**8.1037**	0.037215	-	-	0	(Negligible)
				Max Tensile Strain	12S-01	5	7.1137	9.5820	None	250.03E-6	7.3565	**0.038976**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	12S-02	Max Slope	12S-02	1	0.0	4.1061	None	**719.45E-6**	8.0456	0.059865	-	-	1	(Very Slight)
				Max Settlement	12S-02	1	0.0	4.1061	None	719.45E-6	**8.0456**	0.059865	-	-	1	(Very Slight)
				Max Tensile Strain	12S-02	1	0.0	4.1061	None	719.45E-6	8.0456	**0.059865**	-	-	1	(Very Slight)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	12S-03	Max Slope	12S-03	1	0.0	0.82631	None	**102.33E-6**	4.2821	0.027273	-	-	0	(Negligible)
				Max Settlement	12S-03	2	0.82631	1.1160	None	101.56E-6	**4.3112**	0.027782	-	-	0	(Negligible)
				Max Tensile Strain	12S-03	2	0.82631	1.1160	None	101.56E-6	4.3112	**0.027782**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	12S-04	Max Slope	12S-04	1	0.0	4.3770	None	**643.97E-6**	4.3113	0.057343	-	-	1	(Very Slight)
				Max Settlement	12S-04	1	0.0	4.3770	None	643.97E-6	**4.3113**	0.057343	-	-	1	(Very Slight)
				Max Tensile Strain	12S-04	1	0.0	4.3770	None	643.97E-6	4.3113	**0.057343**	-	-	1	(Very Slight)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	12S-05	Max Slope	12S-05	5	7.4359	13.722	None	**116.21E-6**	1.9176	0.0019551	-	-	0	(Negligible)
				Max Settlement	12S-05	5	7.4359	13.722	None	116.21E-6	**1.9176**	0.0019551	-	-	0	(Negligible)
				Max Tensile Strain	12S-05	1	0.0	0.62787	None	23.262E-6	1.8691	**0.021004**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	12S-06	Max Slope	12S-06	3	5.3450	7.1038	None	**445.38E-6**	4.3224	0.016810	-	-	0	(Negligible)
				Max Settlement	12S-06	4	7.1038	8.6960	None	444.45E-6	**5.0164**	0.011651	-	-	0	(Negligible)
				Max Tensile Strain	12S-06	1	0.0	4.4805	None	407.55E-6	3.2260	**0.026410**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	14S-01	Max Slope	14S-01	3	2.6706	4.8141	None	**437.08E-6**	13.633	0.0039128	-	-	0	(Negligible)
				Max Settlement	14S-01	5	5.3315	5.8760	None	426.34E-6	**14.085**	0.0057554	-	-	0	(Negligible)
				Max Tensile Strain	14S-01	1	0.0	0.66555	None	273.23E-6	12.374	**0.035774**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	14S-02	Max Slope	14S-02	1	0.0	1.4233	None	**0.0011528**	14.085	0.012165	-	-	0	(Negligible)
				Max Settlement	14S-02	1	0.0	1.4233	None	0.0011528	**14.085**	0.012165	-	-	0	(Negligible)
				Max Tensile Strain	14S-02	3	3.4209	14.763	None	854.36E-6	11.077	**0.021518**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	14S-03	Max Slope	14S-03	1	0.0	6.1150	None	**133.14E-6**	3.2208	0.0022667	-	-	0	(Negligible)
				Max Settlement	14S-03	1	0.0	6.1150	None	133.14E-6	**3.2208**	0.0022667	-	-	0	(Negligible)
				Max Tensile Strain	14S-03	1	0.0	6.1150	None	133.14E-6	3.2208	**0.0022667**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	14S-04	Max Slope	14S-04	3	0.52880	2.2710	None	**419.26E-6**	2.5903	0.0013216	-	-	0	(Negligible)
				Max Settlement	14S-04	1	0.0	0.12351	None	397.83E-6	**2.8009**	0.013350	-	-	0	(Negligible)
				Max Tensile Strain	14S-04	2	0.12351	0.52880	None	399.41E-6	2.7518	**0.013809**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		
		0	14S-05	Max Slope	14S-05	2	0.91512	2.4450	None	**151.84E-6**	1.8307	0.0022489	-	-	0	(Negligible)
				Max Settlement	14S-05	1	0.0	0.91512	None	147.41E-6	**1.9593**	588.33E-6	-	-	0	(Negligible)
				Max Tensile Strain	14S-05	3	2.4450	5.0320	None	78.050E-6	1.6756	**0.0040126**	-	-	0	(Negligible)
				Min Radius of Curvature (Hogging)		-	-	- -		-	-	-	-	- -		
				Min Radius of Curvature (Sagging)		-	-	- -		-	-	-	-	- -		

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
		0	14S-06	Max Slope	14S-06	1	0.0	2.4860	None	**104.41E-6**	1.4963	0.0067684	-	-	0 (Negligible)
				Max Settlement	14S-06	1	0.0	2.4860	None	104.41E-6	**1.4963**	0.0067684	-	-	0 (Negligible)
				Max Tensile Strain	14S-06	1	0.0	2.4860	None	104.41E-6	1.4963	**0.0067684**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-07	Max Slope	14S-07	1	0.0	6.3630	None	**450.89E-6**	3.6043	0.0020590	-	-	0 (Negligible)
				Max Settlement	14S-07	1	0.0	6.3630	None	450.89E-6	**3.6043**	0.0020590	-	-	0 (Negligible)
				Max Tensile Strain	14S-07	1	0.0	6.3630	None	450.89E-6	3.6043	**0.0020590**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-08	Max Slope	14S-08	4	2.8975	4.2432	None	**164.96E-6**	4.0433	0.014785	-	-	0 (Negligible)
				Max Settlement	14S-08	5	4.2432	7.5620	None	164.96E-6	**4.4412**	0.020083	-	-	0 (Negligible)
				Max Tensile Strain	14S-08	5	4.2432	7.5620	None	164.96E-6	4.4412	**0.020083**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-09	Max Slope	14S-09	1	0.0	4.6705	None	**602.68E-6**	7.2134	0.0010772	-	-	0 (Negligible)
				Max Settlement	14S-09	2	4.6705	5.4240	None	602.68E-6	**7.6672**	0.0027024	-	-	0 (Negligible)
				Max Tensile Strain	14S-09	2	4.6705	5.4240	None	602.68E-6	7.6672	**0.0027024**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-10	Max Slope	14S-10	1	0.0	1.4740	None	**200.02E-6**	7.9505	0.031561	-	-	0 (Negligible)
				Max Settlement	14S-10	1	0.0	1.4740	None	200.02E-6	**7.9505**	0.031561	-	-	0 (Negligible)
				Max Tensile Strain	14S-10	1	0.0	1.4740	None	200.02E-6	7.9505	**0.031561**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-11	Max Slope	14S-11	2	0.48947	2.9859	None	**804.27E-6**	10.130	0.0046398	-	-	0 (Negligible)
				Max Settlement	14S-11	3	2.9859	5.5790	None	804.27E-6	**12.193**	0.0066501	-	-	0 (Negligible)
				Max Tensile Strain	14S-11	3	2.9859	5.5790	None	804.27E-6	12.193	**0.0066501**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	14S-12	Max Slope	14S-12	1	0.0	3.7040	None	**582.29E-6**	4.4412	0.0097730	-	-	0 (Negligible)
				Max Settlement	14S-12	1	0.0	3.7040	None	582.29E-6	**4.4412**	0.0097730	-	-	0 (Negligible)
				Max Tensile Strain	14S-12	1	0.0	3.7040	None	582.29E-6	4.4412	**0.0097730**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	18S-01	Max Slope	18S-01	2	0.71113	2.4091	None	**297.64E-6**	5.3578	0.016797	-	-	0 (Negligible)
				Max Settlement	18S-01	1	0.0	0.71113	None	297.10E-6	**5.5635**	0.020981	-	-	0 (Negligible)
				Max Tensile Strain	18S-01	1	0.0	0.71113	None	297.10E-6	5.5635	**0.020981**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	18S-02	Max Slope	18S-02	1	0.0	7.8270	None	**662.82E-6**	7.2414	0.065938	-	-	1 (Very Slight)
				Max Settlement	18S-02	1	0.0	7.8270	None	662.82E-6	**7.2414**	0.065938	-	-	1 (Very Slight)
				Max Tensile Strain	18S-02	1	0.0	7.8270	None	662.82E-6	7.2414	**0.065938**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	18S-03	Max Slope	18S-03	1	0.0	0.57824	None	**412.27E-6**	7.4742	0.0034625	-	-	0 (Negligible)
				Max Settlement	18S-03	2	0.57824	2.1240	None	412.27E-6	**8.0675**	0.0030759	-	-	0 (Negligible)
				Max Tensile Strain	18S-03	1	0.0	0.57824	None	412.27E-6	7.4742	**0.0034625**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	18S-04	Max Slope	18S-04	1	0.0	1.7460	None	**683.81E-6**	8.0678	0.074620	-	-	1 (Very Slight)
				Max Settlement	18S-04	1	0.0	1.7460	None	683.81E-6	**8.0678**	0.074620	-	-	1 (Very Slight)
				Max Tensile Strain	18S-04	1	0.0	1.7460	None	683.81E-6	8.0678	**0.074620**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	18S-05	Max Slope	18S-05	1	0.0	4.3769	None	**329.71E-6**	8.2443	622.95E-6	-	-	0 (Negligible)
				Max Settlement	18S-05	5	5.4245	6.8850	None	292.11E-6	**8.9626**	0.015192	-	-	0 (Negligible)
				Max Tensile Strain	18S-05	5	5.4245	6.8850	None	292.11E-6	8.9626	**0.015192**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-01	Max Slope	20S-01	1	0.0	2.2430	None	**386.65E-6**	3.2067	0.049917	-	-	0 (Negligible)
				Max Settlement	20S-01	1	0.0	2.2430	None	386.65E-6	**3.2067**	0.049917	-	-	0 (Negligible)
				Max Tensile Strain	20S-01	1	0.0	2.2430	None	386.65E-6	3.2067	**0.049917**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-02	Max Slope	20S-02	2	0.42341	2.1831	None	**270.58E-6**	2.2736	0.0034689	-	-	0 (Negligible)
				Max Settlement	20S-02	1	0.0	0.42341	None	266.06E-6	**2.3863**	0.0011105	-	-	0 (Negligible)
				Max Tensile Strain	20S-02	2	0.42341	2.1831	None	270.58E-6	2.2736	**0.0034689**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-03	Max Slope	20S-03	1	0.0	10.076	None	**553.53E-6**	5.4738	0.046665	-	-	0 (Negligible)
				Max Settlement	20S-03	1	0.0	10.076	None	553.53E-6	**5.4738**	0.046665	-	-	0 (Negligible)
				Max Tensile Strain	20S-03	1	0.0	10.076	None	553.53E-6	5.4738	**0.046665**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-04	Max Slope	20S-04	1	0.0	6.1650	None	**333.37E-6**	7.2462	0.0048947	-	-	0 (Negligible)
				Max Settlement	20S-04	1	0.0	6.1650	None	333.37E-6	**7.2462**	0.0048947	-	-	0 (Negligible)
				Max Tensile Strain	20S-04	1	0.0	6.1650	None	333.37E-6	7.2462	**0.0048947**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-05	Max Slope	20S-05	1	0.0	2.6100	None	**97.388E-6**	1.6284	0.0015903	-	-	0 (Negligible)
				Max Settlement	20S-05	1	0.0	2.6100	None	97.388E-6	**1.6284**	0.0015903	-	-	0 (Negligible)
				Max Tensile Strain	20S-05	1	0.0	2.6100	None	97.388E-6	1.6284	**0.0015903**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-06	Max Slope	20S-06	1	0.0	10.069	None	**438.80E-6**	4.3782	0.035413	-	-	0 (Negligible)
				Max Settlement	20S-06	1	0.0	10.069	None	438.80E-6	**4.3782**	0.035413	-	-	0 (Negligible)
				Max Tensile Strain	20S-06	1	0.0	10.069	None	438.80E-6	4.3782	**0.035413**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	20S-07	Max Slope	20S-07	1	0.0	3.1450	None	**353.24E-6**	5.4682	0.0044968	-	-	0 (Negligible)
				Max Settlement	20S-07	1	0.0	3.1450	None	353.24E-6	**5.4682**	0.0044968	-	-	0 (Negligible)
				Max Tensile Strain	20S-07	1	0.0	3.1450	None	353.24E-6	5.4682	**0.0044968**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	HT-01	Max Slope	HT-01	1	0.0	1.1250	None	**204.40E-6**	1.3771	0.034560	-	-	0 (Negligible)
				Max Settlement	HT-01	1	0.0	1.1250	None	204.40E-6	**1.3771**	0.034560	-	-	0 (Negligible)
				Max Tensile Strain	HT-01	1	0.0	1.1250	None	204.40E-6	1.3771	**0.034560**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	HT-02	Max Slope	HT-02	1	0.0	10.422	None	**96.058E-6**	1.1532	453.58E-6	-	-	0 (Negligible)
				Max Settlement	HT-02	1	0.0	10.422	None	96.058E-6	**1.1532**	453.58E-6	-	-	0 (Negligible)
				Max Tensile Strain	HT-02	2	10.422	10.958	None	75.934E-6	0.26182	**0.0017243**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	HT-03	Max Slope	HT-03	1	3.8588	4.4502	None	**82.438E-6**	0.17455	0.016194	-	-	0 (Negligible)
				Max Settlement	HT-03	2	4.4502	10.611	None	78.022E-6	**0.54876**	0.013163	-	-	0 (Negligible)
				Max Tensile Strain	HT-03	1	3.8588	4.4502	None	82.438E-6	0.17455	**0.016194**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	HT-04	Max Slope	HT-04	1	0.0	17.083	None	**360.51E-6**	4.0608	0.0011433	-	-	0 (Negligible)
				Max Settlement	HT-04	2	17.083	17.169	None	360.51E-6	**4.0919**	0.0033388	-	-	0 (Negligible)
				Max Tensile Strain	HT-04	2	17.083	17.169	None	360.51E-6	4.0919	**0.0033388**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	
		0	22S-01	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	22S-02	Max Slope	22S-02	2	3.7877	11.931	None	**143.24E-6**	0.81668	0.023488	-	-	0 (Negligible)
				Max Settlement	22S-02	2	3.7877	11.931	None	143.24E-6	**0.81668**	0.023488	-	-	0 (Negligible)
				Max Tensile Strain	22S-02	1	1.9885	3.7877	None	46.775E-6	0.18093	**0.024312**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)	-	-	-	-		-	-	-	-	-	
				Min Radius of Curvature (Sagging)	-	-	-	-		-	-	-	-	-	

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
		0	22S-03	Max Slope	22S-03	1	0.0	6.7030	None	**25.804E-6**	0.83264	0.0010638	-	-	0 (Negligible)
				Max Settlement	22S-03	1	0.0	6.7030	None	25.804E-6	**0.83264**	0.0010638	-	-	0 (Negligible)
				Max Tensile Strain	22S-03	1	0.0	6.7030	None	25.804E-6	0.83264	**0.0010638**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	22S-04	Max Slope	22S-04	1	0.0	6.2700	None	**121.01E-6**	0.76728	0.016787	-	-	0 (Negligible)
				Max Settlement	22S-04	1	0.0	6.2700	None	121.01E-6	**0.76728**	0.016787	-	-	0 (Negligible)
				Max Tensile Strain	22S-04	3	7.5737	7.9526	None	72.940E-6	0.13644	**0.019127**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-01	Max Slope	23K-01	1	0.0	5.8320	None	**155.36E-6**	1.5536	0.0066945	-	-	0 (Negligible)
				Max Settlement	23K-01	1	0.0	5.8320	None	155.36E-6	**1.5536**	0.0066945	-	-	0 (Negligible)
				Max Tensile Strain	23K-01	1	0.0	5.8320	None	155.36E-6	1.5536	**0.0066945**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-02	Max Slope	23K-02	1	0.0	9.6650	None	**144.74E-6**	0.98578	0.028049	-	-	0 (Negligible)
				Max Settlement	23K-02	1	0.0	9.6650	None	144.74E-6	**0.98578**	0.028049	-	-	0 (Negligible)
				Max Tensile Strain	23K-02	1	0.0	9.6650	None	144.74E-6	0.98578	**0.028049**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-03	Max Slope	23K-03	1	0.0	5.8540	None	**20.242E-6**	0.33787	0.0038934	-	-	0 (Negligible)
				Max Settlement	23K-03	1	0.0	5.8540	None	20.242E-6	**0.33787**	0.0038934	-	-	0 (Negligible)
				Max Tensile Strain	23K-03	1	0.0	5.8540	None	20.242E-6	0.33787	**0.0038934**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-04	Max Slope	23K-04	1	0.0	5.1820	None	**25.278E-6**	0.42548	0.0044579	-	-	0 (Negligible)
				Max Settlement	23K-04	1	0.0	5.1820	None	25.278E-6	**0.42548**	0.0044579	-	-	0 (Negligible)
				Max Tensile Strain	23K-04	1	0.0	5.1820	None	25.278E-6	0.42548	**0.0044579**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-05	Max Slope	23K-05	1	0.0	5.5460	None	**32.735E-6**	0.54698	0.0049008	-	-	0 (Negligible)
				Max Settlement	23K-05	1	0.0	5.5460	None	32.735E-6	**0.54698**	0.0049008	-	-	0 (Negligible)
				Max Tensile Strain	23K-05	1	0.0	5.5460	None	32.735E-6	0.54698	**0.0049008**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-06	Max Slope	23K-06	2	1.0000	5.3440	None	**35.356E-6**	0.66562	0.0041262	-	-	0 (Negligible)
				Max Settlement	23K-06	2	1.0000	5.3440	None	35.356E-6	**0.66562**	0.0041262	-	-	0 (Negligible)
				Max Tensile Strain	23K-06	1	0.0	1.0000	None	30.157E-6	0.52826	**0.0044685**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-07	Max Slope	23K-07	1	0.0	5.5350	None	**44.489E-6**	0.84134	0.0041824	-	-	0 (Negligible)
				Max Settlement	23K-07	1	0.0	5.5350	None	44.489E-6	**0.84134**	0.0041824	-	-	0 (Negligible)
				Max Tensile Strain	23K-07	1	0.0	5.5350	None	44.489E-6	0.84134	**0.0041824**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-08	Max Slope	23K-08	1	0.0	9.8490	None	**572.97E-6**	4.5833	0.044597	-	-	0 (Negligible)
				Max Settlement	23K-08	1	0.0	9.8490	None	572.97E-6	**4.5833**	0.044597	-	-	0 (Negligible)
				Max Tensile Strain	23K-08	1	0.0	9.8490	None	572.97E-6	4.5833	**0.044597**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-09	Max Slope	23K-09	1	0.0	5.5350	None	**198.61E-6**	4.5839	0.0043576	-	-	0 (Negligible)
				Max Settlement	23K-09	1	0.0	5.5350	None	198.61E-6	**4.5839**	0.0043576	-	-	0 (Negligible)
				Max Tensile Strain	23K-09	1	0.0	5.5350	None	198.61E-6	4.5839	**0.0043576**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-10	Max Slope	23K-10	1	0.0	3.1834	None	**204.76E-6**	3.3769	0.0062458	-	-	0 (Negligible)
				Max Settlement	23K-10	3	4.7910	5.3440	None	187.07E-6	**3.7930**	0.0040364	-	-	0 (Negligible)
				Max Tensile Strain	23K-10	1	0.0	3.1834	None	204.76E-6	3.3769	**0.0062458**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-11	Max Slope	23K-11	1	0.0	10.328	None	**538.60E-6**	3.7932	0.045356	-	-	0 (Negligible)
				Max Settlement	23K-11	1	0.0	10.328	None	538.60E-6	**3.7932**	0.045356	-	-	0 (Negligible)
				Max Tensile Strain	23K-11	1	0.0	10.328	None	538.60E-6	3.7932	**0.045356**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-12	Max Slope	23K-12	1	0.0	10.402	None	**483.43E-6**	2.9732	0.041047	-	-	0 (Negligible)
				Max Settlement	23K-12	1	0.0	10.402	None	483.43E-6	**2.9732**	0.041047	-	-	0 (Negligible)
				Max Tensile Strain	23K-12	1	0.0	10.402	None	483.43E-6	2.9732	**0.041047**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-13	Max Slope	23K-13	1	0.0	5.5300	None	**196.78E-6**	2.9734	0.0063637	-	-	0 (Negligible)
				Max Settlement	23K-13	1	0.0	5.5300	None	196.78E-6	**2.9734**	0.0063637	-	-	0 (Negligible)
				Max Tensile Strain	23K-13	1	0.0	5.5300	None	196.78E-6	2.9734	**0.0063637**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-14	Max Slope	23K-14	1	0.0	5.1930	None	**171.74E-6**	2.1270	0.0059897	-	-	0 (Negligible)
				Max Settlement	23K-14	1	0.0	5.1930	None	171.74E-6	**2.1270**	0.0059897	-	-	0 (Negligible)
				Max Tensile Strain	23K-14	1	0.0	5.1930	None	171.74E-6	2.1270	**0.0059897**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-15	Max Slope	23K-15	1	0.0	10.168	None	**429.78E-6**	2.1271	0.035901	-	-	0 (Negligible)
				Max Settlement	23K-15	1	0.0	10.168	None	429.78E-6	**2.1271**	0.035901	-	-	0 (Negligible)
				Max Tensile Strain	23K-15	1	0.0	10.168	None	429.78E-6	2.1271	**0.035901**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-16	Max Slope	23K-16	1	0.0	10.285	None	**389.25E-6**	1.5534	0.031694	-	-	0 (Negligible)
				Max Settlement	23K-16	1	0.0	10.285	None	389.25E-6	**1.5534**	0.031694	-	-	0 (Negligible)
				Max Tensile Strain	23K-16	1	0.0	10.285	None	389.25E-6	1.5534	**0.031694**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-17	Max Slope	23K-17	1	0.0	4.5090	None	**67.250E-6**	1.3213	0.0043300	-	-	0 (Negligible)
				Max Settlement	23K-17	1	0.0	4.5090	None	67.250E-6	**1.3213**	0.0043300	-	-	0 (Negligible)
				Max Tensile Strain	23K-17	1	0.0	4.5090	None	67.250E-6	1.3213	**0.0043300**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-18	Max Slope	23K-18	2	0.16572	5.3470	None	**533.44E-6**	3.6568	0.038659	-	-	0 (Negligible)
				Max Settlement	23K-18	2	0.16572	5.3470	None	533.44E-6	**3.6568**	0.038659	-	-	0 (Negligible)
				Max Tensile Strain	23K-18	2	0.16572	5.3470	None	533.44E-6	3.6568	**0.038659**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23K-19	Max Slope	23K-19	1	0.0	4.5380	None	**179.82E-6**	3.6573	0.0042704	-	-	0 (Negligible)
				Max Settlement	23K-19	1	0.0	4.5380	None	179.82E-6	**3.6573**	0.0042704	-	-	0 (Negligible)
				Max Tensile Strain	23K-19	1	0.0	4.5380	None	179.82E-6	3.6573	**0.0042704**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-01	Max Slope	23AB-01	1	0.0	4.0040	None	**61.630E-6**	8.8173	298.15E-6	-	-	0 (Negligible)
				Max Settlement	23AB-01	1	0.0	4.0040	None	61.630E-6	**8.8173**	298.15E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-01	1	0.0	4.0040	None	61.630E-6	8.8173	**298.15E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-02	Max Slope	23AB-02	1	0.0	0.21700	None	**708.46E-6**	8.5779	0.055702	-	-	1 (Very Slight)
				Max Settlement	23AB-02	1	0.0	0.21700	None	708.46E-6	**8.5779**	0.055702	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-02	1	0.0	0.21700	None	708.46E-6	8.5779	**0.055702**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-03	Max Slope	23AB-03	1	0.0	4.7900	None	**66.906E-6**	8.4235	319.40E-6	-	-	0 (Negligible)
				Max Settlement	23AB-03	1	0.0	4.7900	None	66.906E-6	**8.4235**	319.40E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-03	1	0.0	4.7900	None	66.906E-6	8.4235	**319.40E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-04	Max Slope	23AB-04	1	0.0	2.0035	None	**705.98E-6**	9.5220	0.056115	-	-	1 (Very Slight)
				Max Settlement	23AB-04	2	2.0035	6.4460	None	705.98E-6	**12.594**	0.058816	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-04	2	2.0035	6.4460	None	705.98E-6	12.594	**0.058816**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Parameter	Critical Sub-Building	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
		0	23AB-05	Max Slope	23AB-05	1	0.0	1.0140	None	**83.338E-6**	12.595	289.50E-6	-	-	0 (Negligible)
				Max Settlement	23AB-05	1	0.0	1.0140	None	83.338E-6	**12.595**	289.50E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-05	1	0.0	1.0140	None	83.338E-6	12.595	**289.50E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-06	Max Slope	23AB-06	1	0.0	6.4020	None	**652.89E-6**	16.188	0.066909	-	-	1 (Very Slight)
				Max Settlement	23AB-06	1	0.0	6.4020	None	652.89E-6	**16.188**	0.066909	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-06	1	0.0	6.4020	None	652.89E-6	16.188	**0.066909**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-07	Max Slope	23AB-07	1	0.0	5.0370	None	**116.42E-6**	16.702	752.06E-6	-	-	0 (Negligible)
				Max Settlement	23AB-07	1	0.0	5.0370	None	116.42E-6	**16.702**	752.06E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-07	1	0.0	5.0370	None	116.42E-6	16.702	**752.06E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-08	Max Slope	23AB-08	1	0.0	0.28100	None	**519.93E-6**	16.702	0.070359	-	-	1 (Very Slight)
				Max Settlement	23AB-08	1	0.0	0.28100	None	519.93E-6	**16.702**	0.070359	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-08	1	0.0	0.28100	None	519.93E-6	16.702	**0.070359**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-09	Max Slope	23AB-09	1	0.0	5.6300	None	**76.455E-6**	16.927	509.66E-6	-	-	0 (Negligible)
				Max Settlement	23AB-09	1	0.0	5.6300	None	76.455E-6	**16.927**	509.66E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-09	1	0.0	5.6300	None	76.455E-6	16.927	**509.66E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-10	Max Slope	23AB-10	1	0.0	3.0530	None	**586.80E-6**	16.927	0.068452	-	-	1 (Very Slight)
				Max Settlement	23AB-10	1	0.0	3.0530	None	586.80E-6	**16.927**	0.068452	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-10	1	0.0	3.0530	None	586.80E-6	16.927	**0.068452**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-11	Max Slope	23AB-11	1	0.0	1.8460	None	**62.601E-6**	15.227	326.48E-6	-	-	0 (Negligible)
				Max Settlement	23AB-11	1	0.0	1.8460	None	62.601E-6	**15.227**	326.48E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-11	1	0.0	1.8460	None	62.601E-6	15.227	**326.48E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-12	Max Slope	23AB-12	1	0.0	2.8680	None	**660.74E-6**	15.115	0.063801	-	-	1 (Very Slight)
				Max Settlement	23AB-12	1	0.0	2.8680	None	660.74E-6	**15.115**	0.063801	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-12	1	0.0	2.8680	None	660.74E-6	15.115	**0.063801**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-13	Max Slope	23AB-13	1	0.0	1.0320	None	**75.598E-6**	13.381	474.39E-6	-	-	0 (Negligible)
				Max Settlement	23AB-13	1	0.0	1.0320	None	75.598E-6	**13.381**	474.39E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-13	1	0.0	1.0320	None	75.598E-6	13.381	**474.39E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-14	Max Slope	23AB-14	1	0.0	4.9773	None	**720.22E-6**	13.381	0.059519	-	-	1 (Very Slight)
				Max Settlement	23AB-14	1	0.0	4.9773	None	720.22E-6	**13.381**	0.059519	-	-	1 (Very Slight)
				Max Tensile Strain	23AB-14	1	0.0	4.9773	None	720.22E-6	13.381	**0.059519**	-	-	1 (Very Slight)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	23AB-15	Max Slope	23AB-15	1	0.0	7.7350	None	**99.695E-6**	13.304	826.01E-6	-	-	0 (Negligible)
				Max Settlement	23AB-15	1	0.0	7.7350	None	99.695E-6	**13.304**	826.01E-6	-	-	0 (Negligible)
				Max Tensile Strain	23AB-15	1	0.0	7.7350	None	99.695E-6	13.304	**826.01E-6**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	28K-01	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-02	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-03	Max Slope	28K-03	1	4.4762	7.3091	None	**61.304E-6**	0.25265	0.030009	-	-	0 (Negligible)
				Max Settlement	28K-03	2	7.3091	8.9520	None	45.786E-6	**0.32475**	0.029896	-	-	0 (Negligible)
				Max Tensile Strain	28K-03	1	4.4762	7.3091	None	61.304E-6	0.25265	**0.030009**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	28K-04	Max Slope	28K-04	2	2.7140	7.7050	None	**23.342E-6**	0.27336	0.0072158	-	-	0 (Negligible)
				Max Settlement	28K-04	1	0.0	2.7140	None	19.659E-6	**0.32477**	0.0071533	-	-	0 (Negligible)
				Max Tensile Strain	28K-04	2	2.7140	7.7050	None	23.342E-6	0.27336	**0.0072158**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	28K-05	Max Slope	28K-05	1	0.0	0.91709	None	**65.440E-6**	0.17239	0.030243	-	-	0 (Negligible)
				Max Settlement	28K-05	1	0.0	0.91709	None	65.440E-6	**0.17239**	0.030243	-	-	0 (Negligible)
				Max Tensile Strain	28K-05	1	0.0	0.91709	None	65.440E-6	0.17239	**0.030243**	-	-	0 (Negligible)
				Min Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
				Min Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
		0	28K-06	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
		0	28K-07	All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											
				All vertical displacements are less than the limit sensitivity.											

Specific Building Damage Results - All Combined Segments

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Combined Segment	Start [m]	Length [m]	Curvature	Deflection Ratio [%]	Average Horizontal Strain [%]	Max Tensile Strain [%]	Damage Category
0	Base Model	1	16S-01	16S-01	0.0	No combined segments for this stage, specific building and offset.							
		2	16S-02	16S-02	0.0	1	0.0	6.5880	None	0.017248	0.050980	0.068058	1 (Very Slight)
		3	16S-03	16S-03	0.0	No combined segments for this stage, specific building and offset.							
		4	16S-04	16S-04	0.0	No combined segments for this stage, specific building and offset.							
		5	16S-05	16S-05	0.0	No combined segments for this stage, specific building and offset.							
		6	16S-06	16S-06	0.0	1	0.0	0.15448	None	0.0	0.044662	0.044662	0 (Negligible)
						2	0.15448	6.0685	None	0.0019031	0.057633	0.059401	1 (Very Slight)
		7	BS-01	BS-01	0.0	1	0.0	12.978	Sagging	0.042628	-0.0071347	0.047427	0 (Negligible)
		8	BS-02	BS-02	0.0	No combined segments for this stage, specific building and offset.							
		9	BS-03	BS-03	0.0	No combined segments for this stage, specific building and offset.							
		10	BS-04	BS-04	0.0	No combined segments for this stage, specific building and offset.							
		11	BS-05	BS-05	0.0	No combined segments for this stage, specific building and offset.							
		12	BS-06	BS-06	0.0	No combined segments for this stage, specific building and offset.							
		13	BS-07	BS-07	0.0	No combined segments for this stage, specific building and offset.							
		14	BS-08	BS-08	0.0	No combined segments for this stage, specific building and offset.							
		15	BS-09	BS-09	0.0	No combined segments for this stage, specific building and offset.							
		16	BS-10	BS-10	0.0	No combined segments for this stage, specific building and offset.							
		17	BS-11	BS-11	0.0	No combined segments for this stage, specific building and offset.							
		18	BS-12	BS-12	0.0	No combined segments for this stage, specific building and offset.							
		19	BS-13	BS-13	0.0	No combined segments for this stage, specific building and offset.							
		20	BS-14	BS-14	0.0	No combined segments for this stage, specific building and offset.							
		21	BS-15	BS-15	0.0	No combined segments for this stage, specific building and offset.							
		22	BS-16	BS-16	0.0	No combined segments for this stage, specific building and offset.							
		23	BS-17	BS-17	0.0	No combined segments for this stage, specific building and offset.							

Highgate School

Dyne House and Island Building GMA

A2

Stage: Ref.	Stage: Name	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Damage Category
		24	BS-18	BS-18	0.0	No combined segments for this stage, specific building and offset.							
		25	SB-01	SB-01	0.0	No combined segments for this stage, specific building and offset.							
		26	SB-02	SB-02	0.0	No combined segments for this stage, specific building and offset.							
		27	SB-03	SB-03	0.0	No combined segments for this stage, specific building and offset.							
		28	SB-04	SB-04	0.0	No combined segments for this stage, specific building and offset.							
		29	SB-05	SB-05	0.0	No combined segments for this stage, specific building and offset.							
		30	SB-06	SB-06	0.0	No combined segments for this stage, specific building and offset.							
		31	SB-07	SB-07	0.0	No combined segments for this stage, specific building and offset.							
		32	SB-08	SB-08	0.0	No combined segments for this stage, specific building and offset.							
		33	SB-09	SB-09	0.0	No combined segments for this stage, specific building and offset.							
		34	SB-10	SB-10	0.0	No combined segments for this stage, specific building and offset.							
		35	SB-11	SB-11	0.0	No combined segments for this stage, specific building and offset.							
		36	SB-12	SB-12	0.0	No combined segments for this stage, specific building and offset.							
		37	SB-13	SB-13	0.0	No combined segments for this stage, specific building and offset.							
		38	SB-14	SB-14	0.0	No combined segments for this stage, specific building and offset.							
		39	HL-01	HL-01	0.0	No combined segments for this stage, specific building and offset.							
		40	HL-02	HL-02	0.0	No combined segments for this stage, specific building and offset.							
		41	HL-03	HL-03	0.0	No combined segments for this stage, specific building and offset.							
		42	CH-01	CH-01	0.0	No combined segments for this stage, specific building and offset.							
		43	CH-02	CH-02	0.0	No combined segments for this stage, specific building and offset.							
		44	CH-03	CH-03	0.0	No combined segments for this stage, specific building and offset.							
		45	CH-04	CH-04	0.0	No combined segments for this stage, specific building and offset.							
		46	CH-05	CH-05	0.0	No combined segments for this stage, specific building and offset.							
		47	CH-06	CH-06	0.0	No combined segments for this stage, specific building and offset.							
		48	CH-07	CH-07	0.0	No combined segments for this stage, specific building and offset.							
		49	CH-08	CH-08	0.0	No combined segments for this stage, specific building and offset.							
		50	CH-09	CH-09	0.0	No combined segments for this stage, specific building and offset.							
		51	CH-10	CH-10	0.0	No combined segments for this stage, specific building and offset.							
		52	CH-11	CH-11	0.0	No combined segments for this stage, specific building and offset.							
		53	10S-01	10S-01	0.0	No combined segments for this stage, specific building and offset.							
		54	10S-02	10S-02	0.0	No combined segments for this stage, specific building and offset.							
		55	10S-03	10S-03	0.0	No combined segments for this stage, specific building and offset.							
		56	10S-04	10S-04	0.0	No combined segments for this stage, specific building and offset.							
		57	10S-05	10S-05	0.0	No combined segments for this stage, specific building and offset.							
		58	10S-06	10S-06	0.0	No combined segments for this stage, specific building and offset.							
		59	10S-07	10S-07	0.0	No combined segments for this stage, specific building and offset.							
		60	10S-08	10S-08	0.0	No combined segments for this stage, specific building and offset.							
		61	10S-09	10S-09	0.0	No combined segments for this stage, specific building and offset.							
		62	10S-10	10S-10	0.0	No combined segments for this stage, specific building and offset.							
		63	10S-11	10S-11	0.0	No combined segments for this stage, specific building and offset.							
		64	12S-01	12S-01	0.0	No combined segments for this stage, specific building and offset.							
		65	12S-02	12S-02	0.0	No combined segments for this stage, specific building and offset.							
		66	12S-03	12S-03	0.0	No combined segments for this stage, specific building and offset.							
		67	12S-04	12S-04	0.0	No combined segments for this stage, specific building and offset.							
		68	12S-05	12S-05	0.0	No combined segments for this stage, specific building and offset.							
		69	12S-06	12S-06	0.0	No combined segments for this stage, specific building and offset.							
		70	14S-01	14S-01	0.0	No combined segments for this stage, specific building and offset.							
		71	14S-02	14S-02	0.0	No combined segments for this stage, specific building and offset.							
		72	14S-03	14S-03	0.0	No combined segments for this stage, specific building and offset.							
		73	14S-04	14S-04	0.0	No combined segments for this stage, specific building and offset.							
		74	14S-05	14S-05	0.0	No combined segments for this stage, specific building and offset.							
		75	14S-06	14S-06	0.0	No combined segments for this stage, specific building and offset.							
		76	14S-07	14S-07	0.0	No combined segments for this stage, specific building and offset.							
		77	14S-08	14S-08	0.0	No combined segments for this stage, specific building and offset.							
		78	14S-09	14S-09	0.0	No combined segments for this stage, specific building and offset.							
		79	14S-10	14S-10	0.0	No combined segments for this stage, specific building and offset.							
		80	14S-11	14S-11	0.0	No combined segments for this stage, specific building and offset.							
		81	14S-12	14S-12	0.0	No combined segments for this stage, specific building and offset.							
		82	18S-01	18S-01	0.0	No combined segments for this stage, specific building and offset.							
		83	18S-02	18S-02	0.0	No combined segments for this stage, specific building and offset.							
		84	18S-03	18S-03	0.0	No combined segments for this stage, specific building and offset.							
		85	18S-04	18S-04	0.0	No combined segments for this stage, specific building and offset.							
		86	18S-05	18S-05	0.0	No combined segments for this stage, specific building and offset.							
		87	20S-01	20S-01	0.0	No combined segments for this stage, specific building and offset.							
		88	20S-02	20S-02	0.0	No combined segments for this stage, specific building and offset.							
		89	20S-03	20S-03	0.0	No combined segments for this stage, specific building and offset.							
		90	20S-04	20S-04	0.0	No combined segments for this stage, specific building and offset.							
		91	20S-05	20S-05	0.0	No combined segments for this stage, specific building and offset.							
		92	20S-06	20S-06	0.0	No combined segments for this stage, specific building and offset.							
		93	20S-07	20S-07	0.0	No combined segments for this stage, specific building and offset.							
		94	HT-01	HT-01	0.0	No combined segments for this stage, specific building and offset.							
		95	HT-02	HT-02	0.0	No combined segments for this stage, specific building and offset.							
		96	HT-03	HT-03	0.0	No combined segments for this stage, specific building and offset.							
		97	HT-04	HT-04	0.0	No combined segments for this stage, specific building and offset.							
		98	22S-01	22S-01	0.0	No combined segments for this stage, specific building and offset.							
		99	22S-02	22S-02	0.0	No combined segments for this stage, specific building and offset.							
		100	22S-03	22S-03	0.0	No combined segments for this stage, specific building and offset.							
		101	22S-04	22S-04	0.0	No combined segments for this stage, specific building and offset.							
		102	23K-01	23K-01	0.0	No combined segments for this stage, specific building and offset.							
		103	23K-02	23K-02	0.0	No combined segments for this stage, specific building and offset.							
		104	23K-03	23K-03	0.0	No combined segments for this stage, specific building and offset.							
		105	23K-04	23K-04	0.0	No combined segments for this stage, specific building and offset.							
		106	23K-05	23K-05	0.0	No combined segments for this stage, specific building and offset.							
		107	23K-06	23K-06	0.0	No combined segments for this stage, specific building and offset.							
		108	23K-07	23K-07	0.0	No combined segments for this stage, specific building and offset.							
		109	23K-08	23K-08	0.0	No combined segments for this stage, specific building and offset.							
		110	23K-09	23K-09	0.0	No combined segments for this stage, specific building and offset.							
		111	23K-10	23K-10	0.0	No combined segments for this stage, specific building and offset.							
		112	23K-11	23K-11	0.0	No combined segments for this stage, specific building and offset.							
		113	23K-12	23K-12	0.0	No combined segments for this stage, specific building and offset.							
		114	23K-13	23K-13	0.0	No combined segments for this stage, specific building and offset.							
		115	23K-14	23K-14	0.0	No combined segments for this stage, specific building and offset.							
		116	23K-15	23K-15	0.0	No combined segments for this stage, specific building and offset.							
		117	23K-16	23K-16	0.0	No combined segments for this stage, specific building and offset.							
		118	23K-17	23K-17	0.0	No combined segments for this stage, specific building and offset.							
		119	23K-18	23K-18	0.0	No combined segments for this stage, specific building and offset.							
		120	23K-19	23K-19	0.0	No combined segments for this stage, specific building and offset.							
		121	23AB-01	23AB-01	0.0	No combined segments for this stage, specific building and offset.							
		122	23AB-02	23AB-02	0.0	No combined segments for this stage, specific building and offset.							
		123	23AB-03	23AB-03	0.0	No combined segments for this stage, specific building and offset.							
		124	23AB-04	23AB-04	0.0	No combined segments for this stage, specific building and offset.							
		125	23AB-05	23AB-05	0.0	No combined segments for this stage, specific building and offset.							
		126	23AB-06	23AB-06	0.0	No combined segments for this stage, specific building and offset.							
		127	23AB-07	23AB-07	0.0	No combined segments for this stage, specific building and offset.							
		128	23AB-08	23AB-08	0.0	No combined segments for this stage, specific building and offset.							
		129	23AB-09	23AB-09	0.0	No combined segments for this stage, specific building and offset.							
		130	23AB-10	23AB-10	0.0	No combined segments for this stage, specific building and offset.							
		131	23AB-11	23AB-11	0.0	No combined segments for this stage, specific building and offset.							
		132	23AB-12	23AB-12	0.0	No combined segments for this stage, specific building and offset.							
		133	23AB-13	23AB-13	0.0	No combined segments for this stage, specific building and offset.							
		134	23AB-14	23AB-14	0.0	No combined segments for this stage, specific building and offset.							
		135	23AB-15	23AB-15	0.0	No combined segments for this stage, specific building and offset.							
		136	28K-01	28K-01	0.0	No combined segments for this stage, specific building and offset.							
		137	28K-02	28K-02	0.0	No combined segments for this stage, specific building and offset.							
		138	28K-03	28K-03	0.0	No combined segments for this stage, specific building and offset.							
		139	28K-04	28K-04	0.0	No combined segments for this stage, specific building and offset.							
		140	28K-05	28K-05	0.0	No combined segments for this stage, specific building and offset.							
		141	28K-06	28K-06	0.0	No combined segments for this stage, specific building and offset.							
		142	28K-07	28K-07	0.0	No combined segments for this stage, specific building and offset.							

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Appendix D. Retaining Wall Calculation Sheets

Units: kN,m

INPUT DATA

SOIL PROFILE

Stratum no.	Elevation of top of stratum	Soil types Left side	Right side
1	126.00	1 Made Ground	1 Made Ground
2	124.50	2 Bagshot Formation	2 Bagshot Formation
3	113.00	3 Claygate-drained	3 Claygate-drained

SOIL PROPERTIES

-- Soil type -- No.	Description (Datum elev.)	Bulk density kN/m3	Young's Modulus Eh,kN/m2 (dEh/dy)	At rest coeff. Ko (dKo/dy)	Consol state. NC/OC (Nu)	Active limit Ka (Kac)	Passive limit Kp (Kpc)	Cohesion kN/m2 (dc/dy)
1	Made Ground	17.00	15000	0.500	OC (0.200)	0.285 (0.000)	4.639 (0.000)	
2	Bagshot Formation	18.00a 19.00b	34000	0.455	OC (0.200)	0.250 (0.000)	5.664 (0.000)	
3	Claygate-.. (113.00)	18.00a 19.00b	7400 (2600)	1.000	OC (0.200)	0.353 (1.388)	3.416 (5.182)	1.000d

Note: (a) and (b) are Bulk Densities above and below the water table

Additional soil parameters associated with Ka and Kp

------- Soil type ------- No.	Description	--- parameters for Ka --- Soil friction angle	Wall adhesion coeff.	Back-fill angle	--- parameters for Kp --- Soil friction angle	Wall adhesion coeff.	Back-fill angle
1	Made Ground	30.00	0.634	0.00	30.00	0.634	0.00
2	Bagshot Formation	33.00	0.626	0.00	33.00	0.626	0.00
3	Claygate-drained	25.00	0.645	0.00	25.00	0.645	0.00

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Left side	Right side
Initial water table elevation	118.00	118.00

Automatic water pressure balancing at toe of wall : Yes

Water press. profile no.	Left side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	Right side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	
1	1	111.00	111.00	0.0	1	111.00	111.00	0.0	
2	1	125.00	125.00	0.0	1	120.65	120.65	0.0	MC+WC
					2	120.65	125.00	43.5	

WALL PROPERTIES

Type of structure = Fully Embedded Wall
Elevation of toe of wall = 116.00
Maximum finite element length = 0.60 m
Youngs modulus of wall E = 2.1000E+08 kN/m2
Moment of inertia of wall I = 6.3620E-04 m4/m run
E.I = 133602 kN.m2/m run
Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	125.50	1.00	1.000000	30000	1.00	0.00	0	No
2	120.82	1.00	0.175000	2.100E+07	1.00	0.00	0	No
3	125.32	1.00	0.150000	2.100E+07	1.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge ----- kN/m2 ----- Near edge	Far edge	Equiv. soil type	Partial factor/ Category
1	126.00	1.00(L)	100.00	30.00	20.00	=	N/A	1.00 Var
2	120.65	-0.00(R)	100.00	30.00	43.50	=	N/A	1.00 -

Note: L = Left side, R = Right side
Limit State Categories P/U = Permanent Unfavourable
P/F = Permanent Favourable
Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 126.00
2	Excavate to elevation 124.00 on RIGHT side
3	Install strut or anchor no.1 at elevation 125.50
4	Excavate to elevation 120.65 on RIGHT side
5	Install strut or anchor no.2 at elevation 120.82
6	Install strut or anchor no.3 at elevation 125.32
7	Remove strut or anchor no.1 at elevation 125.50
8	Apply surcharge no.2 at elevation 120.65 No analysis at this stage
9	Apply water pressure profile no.2 (Mod. Conserv.)
10	Change EI of wall to 112623 kN.m2/m run From elevation 126.00 to 116.00 Yield moment not defined Allow wall to relax with new modulus value

FACTORS OF SAFETY and ANALYSIS OPTIONS

Limit State options: Serviceability Limit State
All loads and soil strengths are unfactored

Stability analysis:
Method of analysis - Strength Factor method
Factor on soil strength for calculating wall depth = 1.00

Parameters for undrained strata:
Minimum equivalent fluid density = 5.00 kN/m3
Maximum depth of water filled tension crack = 0.00 m

Bending moment and displacement calculation:
Method - Subgrade reaction model using Influence Coefficients
Open Tension Crack analysis? - No
Non-linear Modulus Parameter (L) = 11.00 m

Boundary conditions:
Length of wall (normal to plane of analysis) = 100.00 m

Width of excavation on Left side of wall = 30.00 m
Width of excavation on Right side of wall = 30.00 m

Distance to rigid boundary on Left side = 30.00 m
Distance to rigid boundary on Right side = 30.00 m

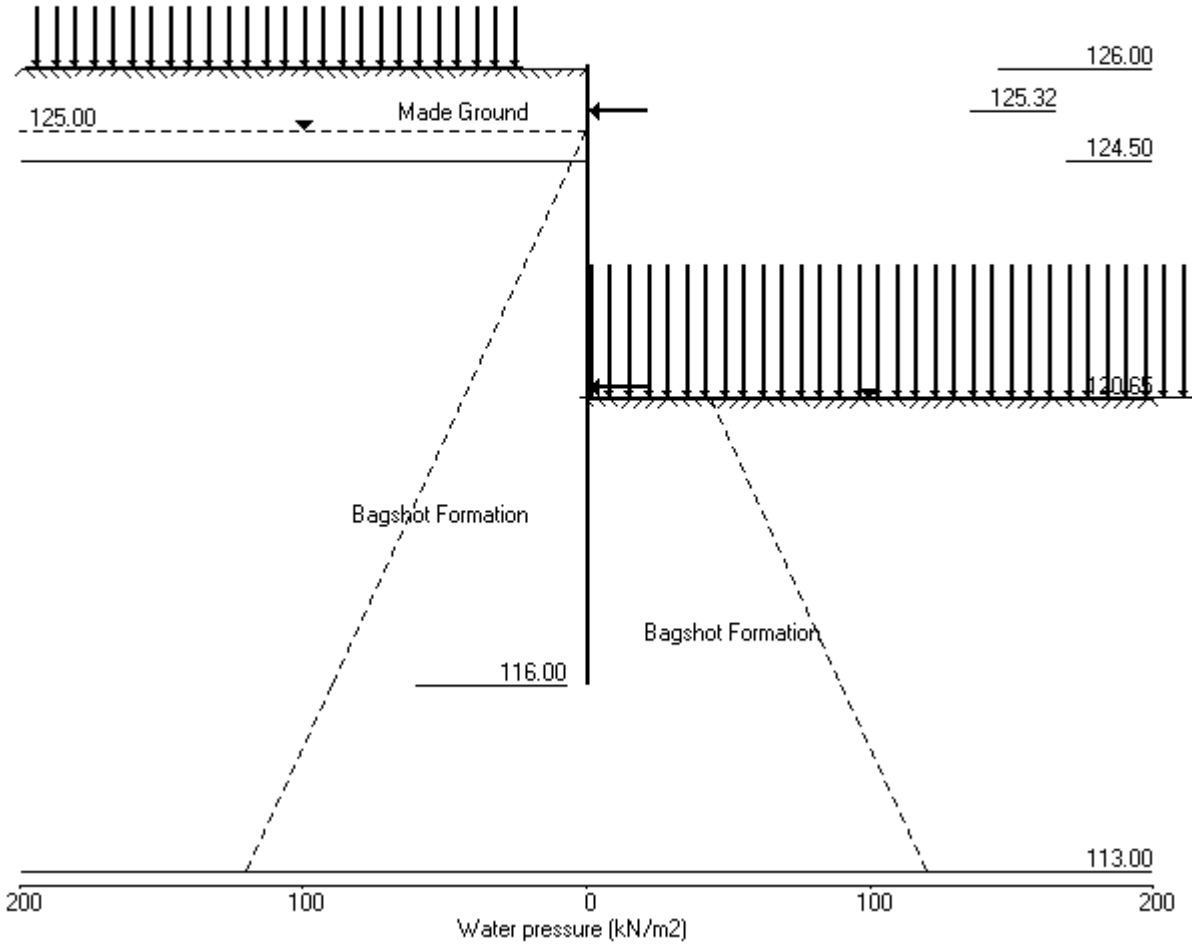
OUTPUT OPTIONS

Stage no.	Stage description	Output options: Displacement, Bending mom., Shear force	Active, Passive pressures	Graph. output
1	Apply surcharge no.1 at elev. 126.00	No	No	No
2	Excav. to elev. 124.00 on RIGHT side	No	No	No
3	Install strut no.1 at elev. 125.50	No	No	No
4	Excav. to elev. 120.65 on RIGHT side	Yes	Yes	Yes
5	Install strut no.2 at elev. 120.82	No	No	No
6	Install strut no.3 at elev. 125.32	No	No	No
7	Remove strut no.1 at elev. 125.50	No	No	No
8	Apply surcharge no.2 at elev. 120.65	No	No	No
9	Apply water pressure profile no.2	No	No	No
10	Change EI of wall to 112623kN.m2/m run	No	No	No
*	Summary output	Yes	-	Yes

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Units: kN,m

Stage No.10 Change EI of wall to 112623kN.m2/m run



Units: kN,m

Stage No. 2 Excavate to elevation 124.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 116.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
2	126.00	124.00	Cant.	3.592	116.85	122.75	1.25	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	126.00	0.00	0.003	4.90E-04	0.0	0.0		133602
2	125.50	2.65	0.002	4.89E-04	0.7	0.1		133602
3	125.32	3.74	0.002	4.89E-04	1.2	0.3		133602
4	125.00	5.88	0.002	4.88E-04	2.8	0.9		133602
5	124.50	9.16	0.002	4.80E-04	6.5	3.2		133602
		8.04	0.002	4.80E-04	6.5	3.2		
6	124.00	10.88	0.002	4.60E-04	11.3	7.6		133602
7	123.50	-12.79	0.001	4.19E-04	10.8	14.2		133602
8	123.00	-11.73	0.001	3.58E-04	4.7	18.3		133602
9	122.40	-6.99	0.001	2.74E-04	-0.9	19.1		133602
10	121.80	-3.45	0.001	1.92E-04	-4.1	17.2		133602
11	121.31	-1.38	0.001	1.34E-04	-5.3	14.8		133602
12	120.82	0.06	0.001	8.49E-05	-5.6	12.1		133602
13	120.65	0.45	0.001	6.97E-05	-5.5	11.2		133602
14	120.33	1.01	0.001	4.47E-05	-5.3	9.4		133602
15	120.00	1.39	0.001	2.39E-05	-4.9	7.7		133602
16	119.40	1.74	0.001	-4.60E-06	-4.0	5.0		133602
17	118.80	1.74	0.001	-2.25E-05	-2.9	3.0		133602
18	118.40	1.62	0.001	-2.98E-05	-2.3	1.9		133602
19	118.00	1.44	0.001	-3.44E-05	-1.6	1.2		133602
20	117.50	1.15	0.001	-3.75E-05	-1.0	0.5		133602
21	117.00	0.83	0.001	-3.88E-05	-0.5	0.2		133602
22	116.50	0.50	0.001	-3.91E-05	-0.2	0.0		133602
23	116.00	0.16	0.001	-3.92E-05	-0.0	0.0		---

(continued)

Stage No.2 Excavate to elevation 124.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic-al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	4372
2	125.50	0.00	9.31	2.65	43.19	2.65	2.65a	4372
3	125.32	0.00	13.13	3.74	60.91	3.74	3.74a	4372
4	125.00	0.00	20.63	5.88	95.72	5.88	5.88a	4372
5	124.50	0.00	32.14	9.16	149.07	9.16	9.16a	4372
		0.00	32.14	8.04	182.01	8.04	8.04a	9911
6	124.00	0.00	43.50	10.88	246.38	10.88	10.88a	9911
7	123.50	0.00	54.26	13.57	307.31	13.57	13.57a	9911
8	123.00	0.00	64.57	16.15	365.74	16.22	16.22	9911
9	122.40	0.00	76.55	19.15	433.57	23.43	23.43	9911
10	121.80	0.00	88.23	22.07	499.72	30.05	30.05	9911
11	121.31	0.00	97.57	24.41	552.60	35.04	35.04	9911
12	120.82	0.00	106.80	26.72	604.91	39.74	39.74	9911
13	120.65	0.00	110.10	27.54	623.58	41.37	41.37	9911
14	120.33	0.00	116.20	29.07	658.11	44.31	44.31	9911
15	120.00	0.00	122.27	30.59	692.48	47.18	47.18	9911
16	119.40	0.00	133.41	33.37	755.61	52.29	52.29	9911
17	118.80	0.00	144.49	36.15	818.38	57.24	57.24	9911
18	118.40	0.00	151.85	37.99	860.07	60.48	60.48	9911
19	118.00	0.00	159.20	39.82	901.65	63.69	63.69	9911
20	117.50	5.00	163.85	40.99	928.00	65.63	70.63	9911
21	117.00	10.00	168.48	42.15	954.22	67.56	77.56	9911
22	116.50	15.00	173.09	43.30	980.33	69.47	84.47	9911
23	116.00	20.00	177.68	44.45	1006.35	71.38	91.38	9911

RIGHT side

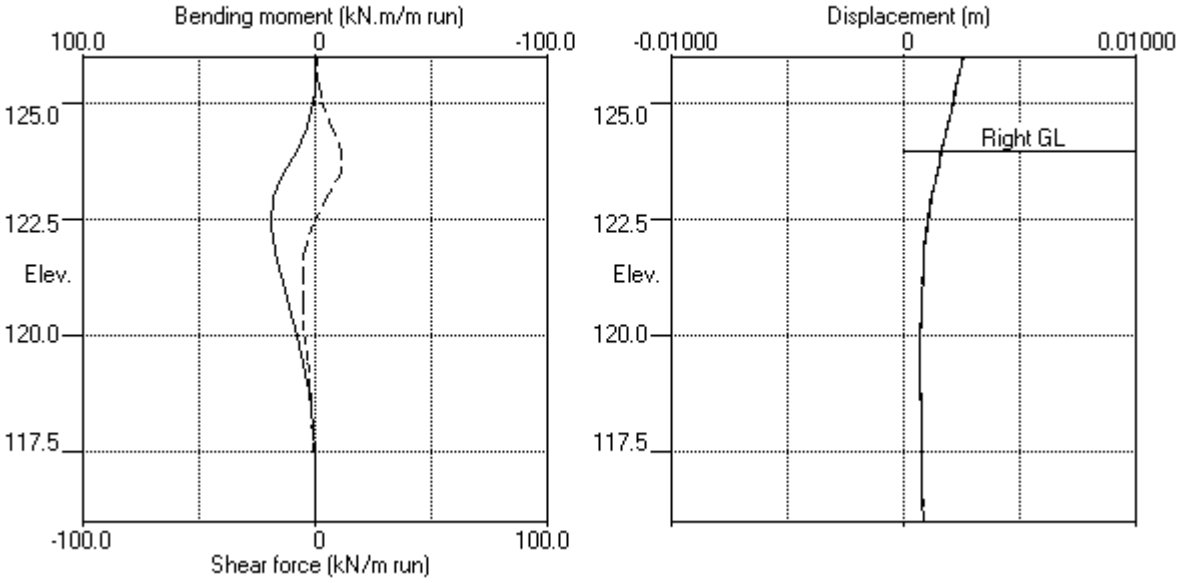
Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic-al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	125.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	125.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	125.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	124.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	124.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	0.00	0.00	0.00	12071
7	123.50	0.00	9.00	2.25	50.97	26.36	26.36	12071
8	123.00	0.00	18.00	4.50	101.95	27.96	27.96	12071
9	122.40	0.00	28.80	7.21	163.13	30.42	30.42	12071
10	121.80	0.00	39.61	9.91	224.32	33.50	33.50	12071
11	121.31	0.00	48.39	12.10	274.04	36.43	36.43	12071
12	120.82	0.00	57.17	14.30	323.78	39.68	39.68	12071
13	120.65	0.00	60.32	15.09	341.64	40.92	40.92	12071
14	120.33	0.00	66.18	16.55	374.81	43.30	43.30	12071
15	120.00	0.00	72.03	18.02	407.98	45.78	45.78	12071
16	119.40	0.00	82.85	20.73	469.25	50.55	50.55	12071
17	118.80	0.00	93.67	23.43	530.54	55.50	55.50	12071
18	118.40	0.00	100.89	25.24	571.42	58.86	58.86	12071
19	118.00	0.00	108.11	27.05	612.32	62.26	62.26	12071
20	117.50	5.00	112.64	28.18	637.97	64.48	69.48	12071
21	117.00	10.00	117.17	29.31	663.65	66.72	76.72	12071
22	116.50	15.00	121.71	30.45	689.35	68.97	83.97	12071
23	116.00	20.00	126.26	31.58	715.08	71.22	91.22	12071

(continued)

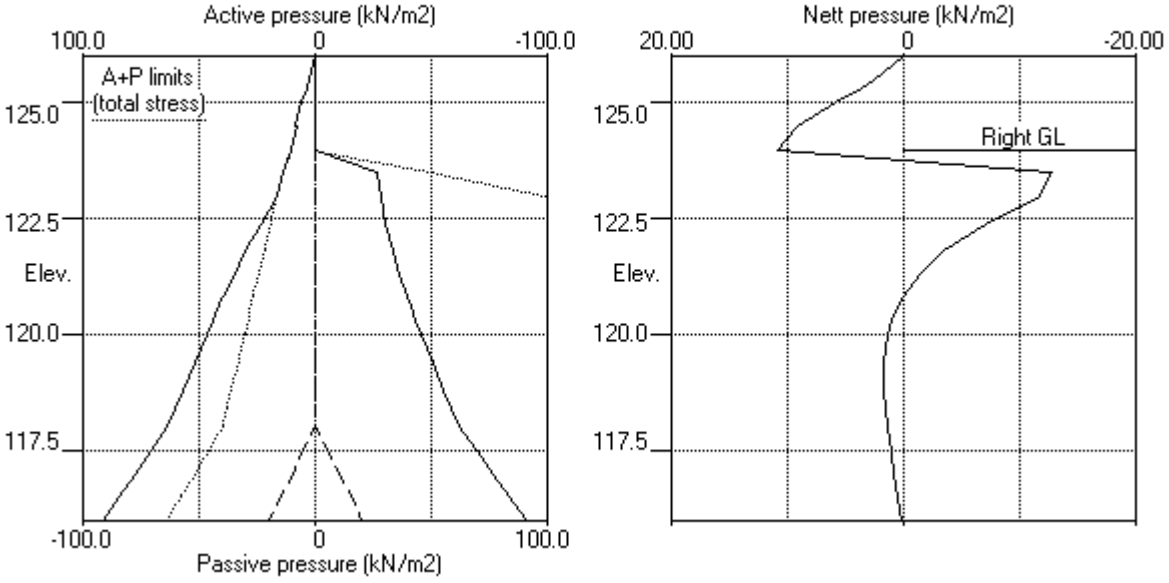
Stage No.2 Excavate to elevation 124.00 on RIGHT side
Note: 13.57a Soil pressure at active limit
123.45p Soil pressure at passive limit

Units: kN,m

Stage No.2 Excav. to elev. 124.00 on RIGHT side



Stage No.2 Excav. to elev. 124.00 on RIGHT side



Units: kN,m

Stage No. 4 Excavate to elevation 120.65 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 116.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
4	126.00	120.65	125.50	2.162	n/a	119.43	1.22	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	126.00	0.00	0.003	-9.41E-04	0.0	0.0		133602
2	125.50	2.65	0.004	-9.41E-04	0.7	0.1	36.1	133602
		2.65	0.004	-9.41E-04	-35.5	0.1		
3	125.32	3.74	0.004	-9.38E-04	-34.9	-6.0		133602
4	125.00	5.88	0.004	-9.09E-04	-33.3	-17.1		133602
5	124.50	9.16	0.004	-8.16E-04	-29.6	-32.9		133602
		8.04	0.004	-8.16E-04	-29.6	-32.9		
6	124.00	10.88	0.005	-6.67E-04	-24.8	-46.6		133602
7	123.50	13.57	0.005	-4.73E-04	-18.7	-56.9		133602
8	123.00	16.15	0.005	-2.47E-04	-11.3	-64.2		133602
9	122.40	19.15	0.005	4.98E-05	-0.7	-68.2		133602
10	121.80	22.07	0.005	3.49E-04	11.7	-65.2		133602
11	121.31	24.41	0.005	5.71E-04	23.0	-56.8		133602
12	120.82	26.72	0.005	7.53E-04	35.5	-42.7		133602
13	120.65	27.54	0.005	8.04E-04	40.2	-36.1		133602
14	120.33	-4.07	0.004	8.75E-04	44.0	-22.1		133602
15	120.00	-34.40	0.004	9.12E-04	37.8	-8.0		133602
16	119.40	-28.01	0.003	9.08E-04	19.0	9.5		133602
17	118.80	-19.16	0.003	8.51E-04	4.9	15.9		133602
18	118.40	-13.67	0.003	8.03E-04	-1.7	16.3		133602
19	118.00	-8.52	0.002	7.57E-04	-6.1	14.6		133602
20	117.50	-2.49	0.002	7.10E-04	-8.9	10.5		133602
21	117.00	3.20	0.002	6.80E-04	-8.7	5.7		133602
22	116.50	8.70	0.001	6.66E-04	-5.7	1.8		133602
23	116.00	14.13	0.001	6.62E-04	-0.0	0.0		---

At elev. 125.50 Strut force = 36.1 kN/strut = 36.1 kN/m run

(continued)

Stage No.4 Excavate to elevation 120.65 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	2626
2	125.50	0.00	9.31	2.65	43.19	2.65	2.65a	2626
3	125.32	0.00	13.13	3.74	60.91	3.74	3.74a	2626
4	125.00	0.00	20.63	5.88	95.72	5.88	5.88a	2626
5	124.50	0.00	32.14	9.16	149.07	9.16	9.16a	2626
		0.00	32.14	8.04	182.01	8.04	8.04a	5951
6	124.00	0.00	43.50	10.88	246.38	10.88	10.88a	5951
7	123.50	0.00	54.26	13.57	307.31	13.57	13.57a	5951
8	123.00	0.00	64.57	16.15	365.74	16.15	16.15a	5951
9	122.40	0.00	76.55	19.15	433.57	19.15	19.15a	5951
10	121.80	0.00	88.23	22.07	499.72	22.07	22.07a	5951
11	121.31	0.00	97.57	24.41	552.60	24.41	24.41a	5951
12	120.82	0.00	106.80	26.72	604.91	26.72	26.72a	5951
13	120.65	0.00	110.10	27.54	623.58	27.54	27.54a	5951
14	120.33	0.00	116.20	29.07	658.11	29.07	29.07a	5951
15	120.00	0.00	122.27	30.59	692.48	30.59	30.59a	5951
16	119.40	0.00	133.41	33.37	755.61	36.04	36.04	5951
17	118.80	0.00	144.49	36.15	818.38	44.19	44.19	5951
18	118.40	0.00	151.85	37.99	860.07	49.47	49.47	5951
19	118.00	0.00	159.20	39.82	901.65	54.61	54.61	5951
20	117.50	5.00	163.85	40.99	928.00	58.84	63.84	5951
21	117.00	10.00	168.48	42.15	954.22	62.94	72.94	5951
22	116.50	15.00	173.09	43.30	980.33	66.97	81.97	5951
23	116.00	20.00	177.68	44.45	1006.35	70.97	90.97	5951

RIGHT side

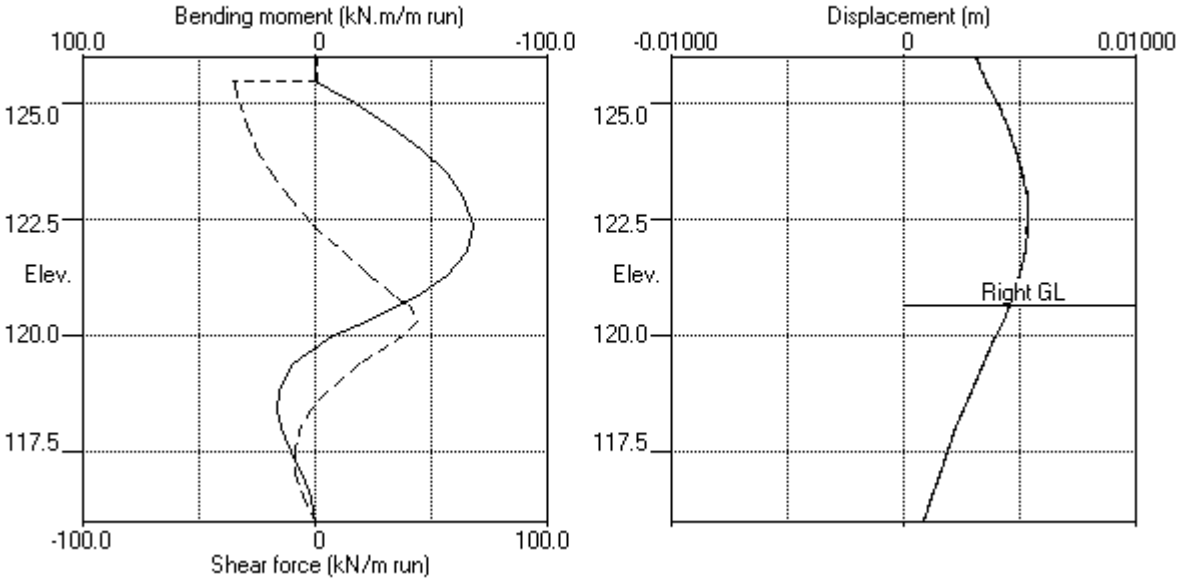
Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	125.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	125.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	125.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	124.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	124.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	123.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	123.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	122.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	121.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	121.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	120.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	120.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	0.00	0.00	0.00	10466
14	120.33	0.00	5.85	1.46	33.13	33.13	33.13p	10466
15	120.00	0.00	11.70	2.93	66.27	64.98	64.98	10466
16	119.40	0.00	22.50	5.63	127.45	64.04	64.04	10466
17	118.80	0.00	33.31	8.33	188.66	63.35	63.35	10466
18	118.40	0.00	40.52	10.14	229.48	63.14	63.14	10466
19	118.00	0.00	47.73	11.94	270.32	63.13	63.13	10466
20	117.50	5.00	52.25	13.07	295.91	61.33	66.33	10466
21	117.00	10.00	56.77	14.20	321.54	59.74	69.74	10466
22	116.50	15.00	61.30	15.34	347.21	58.26	73.26	10466
23	116.00	20.00	65.85	16.47	372.93	56.83	76.83	10466

(continued)

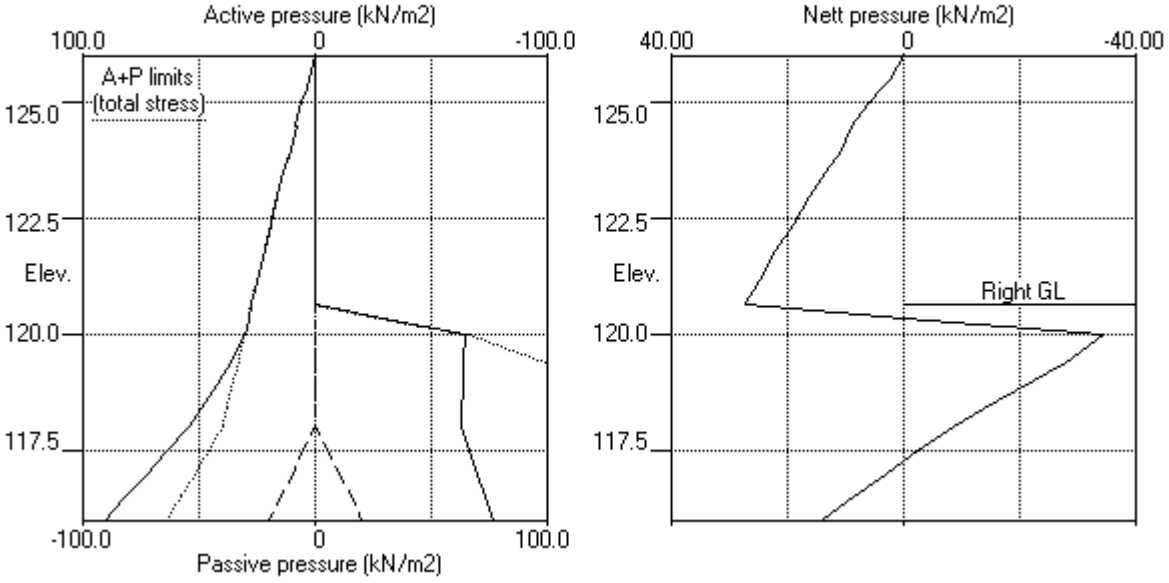
Stage No.4 Excavate to elevation 120.65 on RIGHT side
Note: 30.59a Soil pressure at active limit
33.13p Soil pressure at passive limit

Units: kN,m

Stage No.4 Excav. to elev. 120.65 on RIGHT side



Stage No.4 Excav. to elev. 120.65 on RIGHT side



Units: kN,m

Stage No. 10 Change EI of wall to 112623 kN.m2/m run
From elevation 126.00 to 116.00
Yield moment not defined
Allow wall to relax with new modulus value

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method
Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 116.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
10	126.00	120.65		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall
Analysis options
Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall
Limit State: Serviceability Limit State
Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	126.00	0.00	0.003	-1.29E-03	0.0	0.0		112623
2	125.50	3.86	0.004	-1.29E-03	1.0	0.1		112623
3	125.32	3.75	0.004	-1.29E-03	1.6	0.4	53.5	112623
		3.75	0.004	-1.29E-03	-51.9	0.4		
4	125.00	5.88	0.004	-1.26E-03	-50.3	-16.3		112623
5	124.50	12.74	0.005	-1.14E-03	-45.6	-40.6		112623
		11.79	0.005	-1.14E-03	-45.6	-40.6		
6	124.00	18.51	0.005	-9.16E-04	-38.1	-61.8		112623
7	123.50	25.07	0.006	-6.08E-04	-27.2	-77.8		112623
8	123.00	31.53	0.006	-2.43E-04	-13.0	-87.9		112623
9	122.40	39.17	0.006	2.26E-04	8.2	-90.0		112623
10	121.80	46.74	0.006	6.68E-04	34.0	-78.0		112623
11	121.31	52.86	0.005	9.53E-04	58.2	-55.9		112623
12	120.82	58.94	0.005	1.11E-03	85.5	-21.1	69.4	112623
		58.94	0.005	1.11E-03	16.1	-21.1		
13	120.65	61.45	0.005	1.14E-03	26.6	-17.3		112623
		17.95	0.005	1.14E-03	26.6	-17.3		
14	120.33	4.15	0.004	1.17E-03	30.2	-7.8		112623
15	120.00	-9.97	0.004	1.18E-03	29.3	2.8		112623
16	119.40	-31.12	0.003	1.12E-03	16.9	18.0		112623
17	118.80	-20.34	0.002	1.01E-03	1.5	22.9		112623
18	118.40	-13.86	0.002	9.29E-04	-5.3	21.9		112623
19	118.00	-7.92	0.002	8.57E-04	-9.7	18.8		112623
20	117.50	-1.12	0.001	7.86E-04	-12.0	13.0		112623
21	117.00	5.13	0.001	7.42E-04	-11.0	6.9		112623
22	116.50	11.12	0.001	7.22E-04	-6.9	2.1		112623
23	116.00	16.43	0.000	7.17E-04	0.0	-0.0		---

At elev. 125.32 Strut force = 53.5 kN/strut = 53.5 kN/m run
At elev. 120.82 Strut force = 69.4 kN/strut = 69.4 kN/m run

(continued)

Stage No.10 Change EI of wall to 112623 kN.m2/m run
From elevation 126.00 to 116.00
Yield moment not defined
Allow wall to relax with new modulus value

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	17095
2	125.50	0.00	9.31	2.65	43.19	3.86	3.86	17095
3	125.32	0.00	13.13	3.74	60.91	3.75	3.75	17095
4	125.00	0.00	20.63	5.88	95.72	5.88	5.88a	3846
5	124.50	5.00	27.14	7.74	125.88	7.74	12.74a	3846
		5.00	27.14	6.79	153.69	6.79	11.79a	8718
6	124.00	10.00	34.00	8.51	192.57	8.51	18.51a	8718
7	123.50	15.00	40.26	10.07	228.02	10.07	25.07a	8718
8	123.00	20.00	46.07	11.53	260.96	11.53	31.53a	8718
9	122.40	26.00	52.65	13.17	298.21	13.17	39.17a	8718
10	121.80	32.00	58.93	14.74	333.77	14.74	46.74a	8718
11	121.31	36.88	63.88	15.98	361.81	15.98	52.86a	8718
12	120.82	41.75	68.73	17.19	389.27	17.19	58.94a	8718
13	120.65	43.50	70.45	17.62	399.01	17.95	61.45	8633
14	120.33	46.75	73.62	18.42	416.97	19.66	66.41	8633
15	120.00	50.00	76.77	19.20	434.78	21.27	71.27	8633
16	119.40	56.00	82.51	20.64	467.32	26.65	82.65	8633
17	118.80	62.00	88.19	22.06	499.51	34.45	96.45	8633
18	118.40	66.00	91.95	23.00	520.81	39.33	105.33	8633
19	118.00	70.00	95.70	23.94	542.00	43.98	113.98	8633
20	117.50	75.00	100.35	25.10	568.35	48.60	123.60	8633
21	117.00	80.00	104.98	26.26	594.57	52.98	132.98	8633
22	116.50	85.00	109.59	27.41	620.68	57.25	142.25	8633
23	116.00	90.00	114.18	28.56	646.70	61.19	151.19	33354

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	126.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	125.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	125.32	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	125.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	124.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	124.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	123.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	123.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	122.40	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	121.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	121.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	120.82	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	120.65	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		43.50	0.00	0.00	0.00	0.00	43.50	8633
14	120.33	46.75	2.92	0.73	16.56	15.51	62.26	8633
15	120.00	50.00	5.85	1.46	33.13	31.23	81.23	8633
16	119.40	56.00	11.25	2.81	63.72	57.77	113.77	8633
17	118.80	62.00	16.65	4.17	94.32	54.79	116.79	8633
18	118.40	66.00	20.26	5.07	114.73	53.19	119.19	8633
19	118.00	70.00	23.86	5.97	135.15	51.90	121.90	8633
20	117.50	75.00	28.37	7.10	160.69	49.73	124.73	8633

(continued)

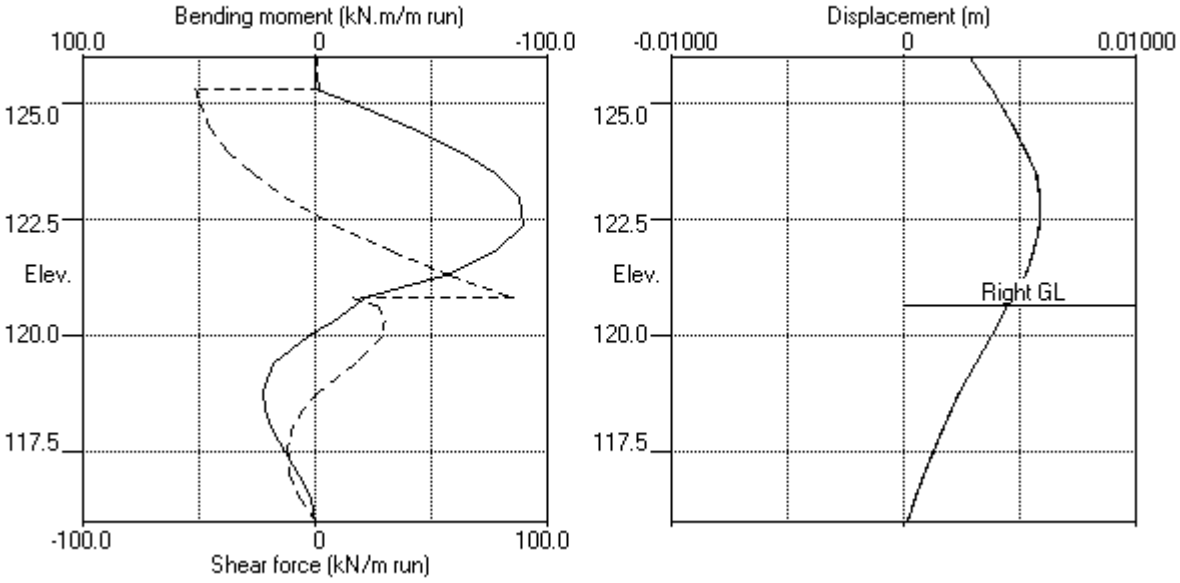
Stage No.10 Change EI of wall to 112623 kN.m2/m run
From elevation 126.00 to 116.00
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	RIGHT side Water press. kN/m2	Effective stresses Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
21	117.00	80.00	32.88	8.23	186.25	47.85	127.85	8633
22	116.50	85.00	37.40	9.36	211.82	46.13	131.13	8633
23	116.00	90.00	41.92	10.49	237.43	44.76	134.76	33354

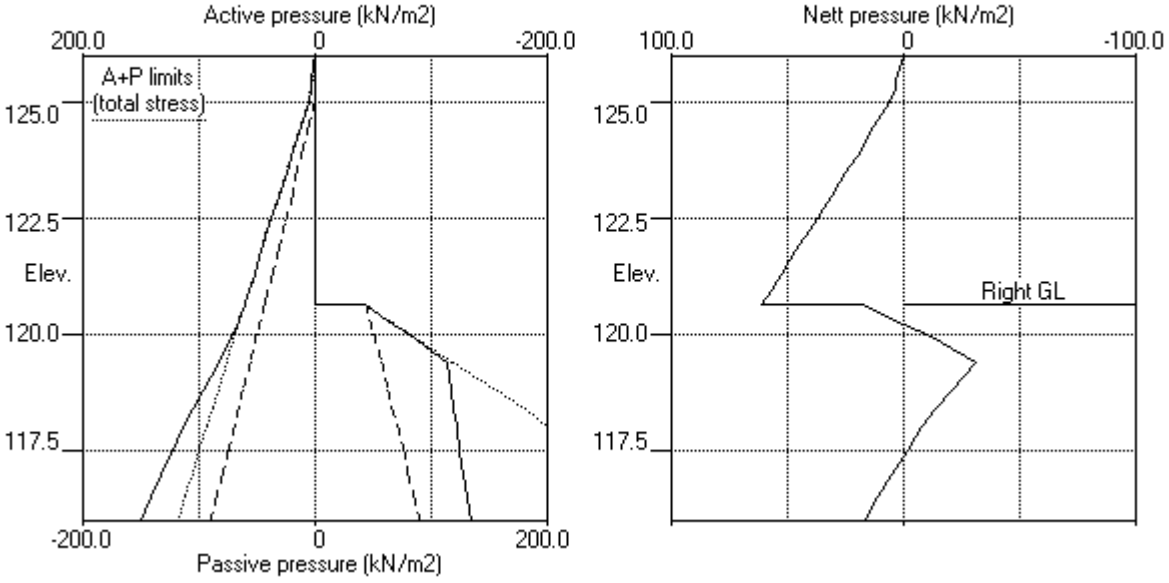
Note: 58.94a Soil pressure at active limit
123.45p Soil pressure at passive limit

Units: kN,m

Stage No.10 Change EI of wall to 112623kN.m2/m run



Stage No.10 Change EI of wall to 112623kN.m2/m run



Units: kN,m

Summary of results

LIMIT STATE PARAMETERS

Limit State: Serviceability Limit State
All loads and soil strengths are unfactored

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 116.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
1	126.00	126.00	Cant.	Conditions not suitable for FoS calc.				
2	126.00	124.00	Cant.	3.592	116.85	122.75	1.25	L to R
3	126.00	124.00		No analysis at this stage				
4	126.00	120.65	125.50	2.162	n/a	119.43	1.22	L to R
5	126.00	120.65		No analysis at this stage				

All remaining stages have more than one strut - FoS calculation n/a

Units: kN,m

Summary of results

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Bending moment, shear force and displacement envelopes

Node no.	Y coord	Displacement		Bending moment Calculated		Bending moment Factored		Shear force Calculated		Shear force Factored	
		max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
		m	m	kN.m/m		kN.m/m		kN/m	kN/m	kN/m	kN/m
1	126.00	0.003	0.000	0	0	0	0	0	0	0	0
2	125.50	0.004	0.000	0	0	0	0	1	-35	1	-48
3	125.32	0.004	0.000	0	-6	1	-8	2	-54	2	-73
4	125.00	0.004	0.000	1	-17	1	-23	3	-52	4	-71
5	124.50	0.005	0.000	3	-42	4	-57	7	-48	9	-65
6	124.00	0.005	0.000	8	-64	10	-87	11	-40	15	-54
7	123.50	0.006	0.000	14	-81	19	-110	11	-29	15	-40
8	123.00	0.006	0.000	18	-92	25	-125	5	-15	6	-21
9	122.40	0.006	0.000	19	-96	26	-129	8	-2	11	-3
10	121.80	0.006	0.000	17	-85	23	-114	34	-4	46	-6
11	121.31	0.005	0.000	15	-63	20	-86	58	-5	79	-7
12	120.82	0.005	0.000	12	-43	16	-58	85	-6	115	-8
13	120.65	0.005	0.000	11	-36	15	-49	40	-6	54	-7
14	120.33	0.004	0.000	9	-22	13	-30	44	-5	59	-7
15	120.00	0.004	0.000	8	-8	10	-11	38	-5	51	-7
16	119.40	0.003	0.000	18	-1	24	-1	20	-4	28	-5
17	118.80	0.003	0.000	23	-0	31	-1	5	-3	7	-4
18	118.40	0.003	0.000	22	-0	30	-1	0	-5	0	-7
19	118.00	0.002	0.000	19	-0	25	-0	0	-10	0	-13
20	117.50	0.002	0.000	13	-0	18	-0	0	-12	0	-16
21	117.00	0.002	0.000	7	-0	9	-0	0	-11	0	-15
22	116.50	0.001	0.000	2	-0	3	-0	0	-7	0	-9
23	116.00	0.001	0.000	0	-0	0	-0	0	-0	0	-0

Maximum and minimum bending moment and shear force at each stage

Stage no.	Bending moment Calculated max.	elev.	min.	elev.	Bending moment Factored max.	min.	Shear force Calculated max.	elev.	min.	elev.	Shear force Factored max.	min.
	kN.m/m		kN.m/m		kN.m/m		kN/m		kN/m		kN/m	kN/m
1	0	125.50	-1	121.31	0	-1	0	118.80	-0	123.50	0	-0
2	19	122.40	0	126.00	26	0	11	124.00	-6	120.82	15	-8
3	No calculation at this stage											
4	16	118.40	-68	122.40	22	-92	44	120.33	-35	125.50	59	-48
5	No calculation at this stage											
6	No calculation at this stage											
7	16	118.40	-67	122.40	21	-90	44	120.33	-37	125.32	59	-50
8	No calculation at this stage											
9	21	118.80	-96	122.40	29	-129	83	120.82	-54	125.32	112	-73
10	23	118.80	-90	122.40	31	-122	85	120.82	-52	125.32	115	-70

Summary of results (continued)

Maximum and minimum displacement at each stage

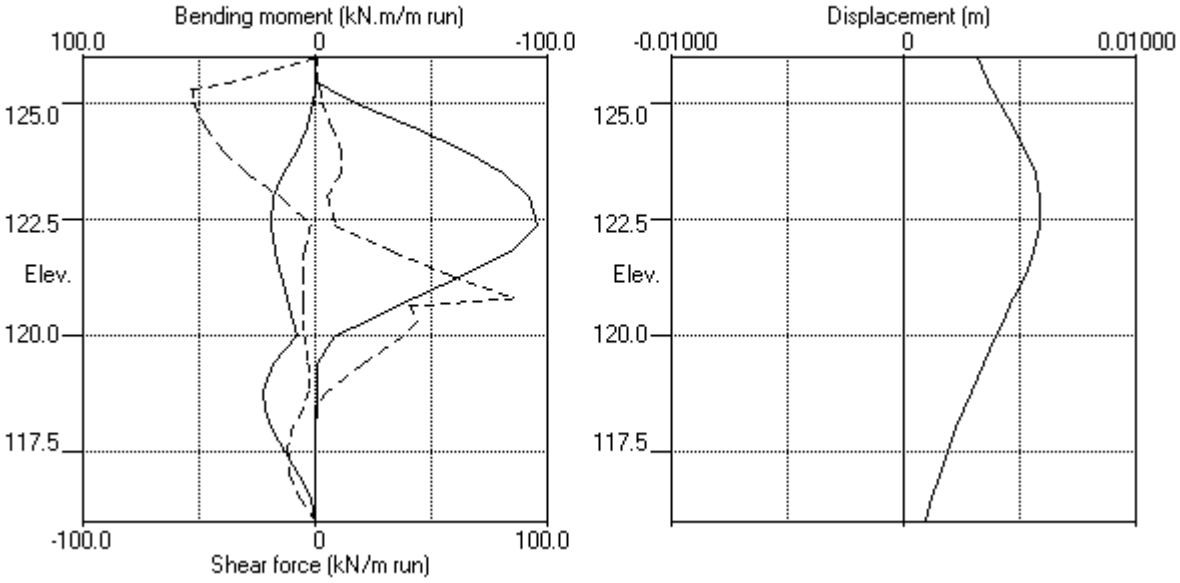
Stage no.	Displacement maximum m	elev.	minimum m	elev.	Stage description
1	0.000	116.00	0.000	126.00	Apply surcharge no.1 at elev. 126.00
2	0.003	126.00	0.000	126.00	Excav. to elev. 124.00 on RIGHT side
3	No calculation at this stage				Install strut no.1 at elev. 125.50
4	0.005	122.40	0.000	126.00	Excav. to elev. 120.65 on RIGHT side
5	No calculation at this stage				Install strut no.2 at elev. 120.82
6	No calculation at this stage				Install strut no.3 at elev. 125.32
7	0.005	122.40	0.000	126.00	Remove strut no.1 at elev. 125.50
8	No calculation at this stage				Apply surcharge no.2 at elev. 120.65
9	0.006	122.40	0.000	126.00	Apply water pressure profile no.2
10	0.006	122.40	0.000	126.00	Change EI of wall to 112623kN.m2/m run

Strut forces at each stage (horizontal components)

Stage no.	Strut no. 1 at elev. 125.50			Strut no. 2 at elev. 120.82			Strut no. 3 at elev. 125.32		
	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut
4	36	36	49	---	---	---	---	---	---
7	---	---	---	slack	slack	slack	38	38	51
9	---	---	---	63	63	84	56	56	75
10	---	---	---	69	69	94	53	53	72

Units: kN,m

Bending moment, shear force, displacement envelopes



Units: kN,m

INPUT DATA

SOIL PROFILE

Stratum no.	Elevation of top of stratum	Soil types Left side	Right side
1	118.00	1 Made Ground	1 Made Ground
2	117.00	3 Claygate-drained	3 Claygate-drained

SOIL PROPERTIES

-- Soil type -- No.	Description (Datum elev.)	Bulk density kN/m3	Young's Modulus Eh,kN/m2 (dEh/dy)	At rest coeff. Ko (dKo/dy)	Consol state. NC/OC (Nu)	Active limit Ka (Kac)	Passive limit Kp (Kpc)	Cohesion kN/m2 (dc/dy)
1	Made Ground	17.00	10000	0.500	OC (0.200)	0.285 (0.000)	4.639 (0.000)	
2	Bagshot Formation	18.00a 19.00b	34000	0.455	OC (0.200)	0.250 (0.000)	5.664 (0.000)	
3	Claygate-.. (117.00)	18.00a 19.00b	7400 (2600)	1.000	OC (0.200)	0.353 (1.388)	3.416 (5.182)	1.000d

Note: (a) and (b) are Bulk Densities above and below the water table

Additional soil parameters associated with Ka and Kp

------- Soil type ------- No.	Description	--- parameters for Ka --- Soil friction angle	Wall adhesion coeff.	Back-fill angle	--- parameters for Kp --- Soil friction angle	Wall adhesion coeff.	Back-fill angle
1	Made Ground	30.00	0.634	0.00	30.00	0.634	0.00
2	Bagshot Formation	33.00	0.626	0.00	33.00	0.626	0.00
3	Claygate-drained	25.00	0.645	0.00	25.00	0.645	0.00

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Left side	Right side
Initial water table elevation	111.00	111.00

Automatic water pressure balancing at toe of wall : Yes

Water press. profile no.	Left side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	Right side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	
1	1	111.00	111.00	0.0	1	111.00	111.00	0.0	
2	1	117.00	117.00	0.0	1	107.00	107.00	0.0	MC+WC
					2	107.00	117.00	100.0	
3	1	111.00	111.00	0.0	1	107.00	107.00	0.0	MC+WC
					2	107.00	107.00	0.0	

WALL PROPERTIES

Type of structure = Fully Embedded Wall
Elevation of toe of wall = 96.00
Maximum finite element length = 1.20 m
Youngs modulus of wall E = 2.1000E+08 kN/m2
Moment of inertia of wall I = 1.0008E-03 m4/m run
E.I = 210168 kN.m2/m run
Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	115.50	1.00	1.000000	45000	1.00	0.00	0	No
2	107.18	1.00	0.175000	2.100E+07	10.00	0.00	0	No
3	114.69	1.00	0.175000	2.100E+07	10.00	0.00	0	No
4	110.94	1.00	0.175000	2.100E+07	10.00	0.00	0	No
5	111.50	1.00	1.000000	45000	1.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge ----- kN/m2 ----- Near edge	Far edge	Equiv. soil type	Partial factor/ Category
1	118.00	1.00(L)	100.00	30.00	20.00	=	N/A	1.00 Var
2	107.00	-0.00(R)	100.00	30.00	100.00	=	N/A	1.00 -
3	107.00	-0.00(R)	100.00	30.00	40.00	=	N/A	1.00 -

Note: L = Left side, R = Right side
Limit State Categories P/U = Permanent Unfavourable
P/F = Permanent Favourable
Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 118.00
2	Excavate to elevation 115.00 on RIGHT side
3	Install strut or anchor no.1 at elevation 115.50
4	Excavate to elevation 111.00 on RIGHT side
5	Install strut or anchor no.5 at elevation 111.50
6	Apply water pressure profile no.3 (Mod. Conserv.) No analysis at this stage
7	Excavate to elevation 107.00 on RIGHT side
8	Install strut or anchor no.2 at elevation 107.18
9	Install strut or anchor no.4 at elevation 110.94
10	Remove strut or anchor no.5 at elevation 111.50
11	Install strut or anchor no.3 at elevation 114.69
12	Remove strut or anchor no.1 at elevation 115.50
13	Apply surcharge no.2 at elevation 107.00 No analysis at this stage
14	Apply water pressure profile no.2 (Mod. Conserv.)
15	Change EI of wall to 182637 kN.m2/m run From elevation 118.00 to 96.00 Yield moment not defined Allow wall to relax with new modulus value

FACTORS OF SAFETY and ANALYSIS OPTIONS

Limit State options: Serviceability Limit State
All loads and soil strengths are unfactored

Stability analysis:
Method of analysis - Strength Factor method
Factor on soil strength for calculating wall depth = 1.00

Parameters for undrained strata:
Minimum equivalent fluid density = 5.00 kN/m3
Maximum depth of water filled tension crack = 0.00 m

Bending moment and displacement calculation:
Method - Subgrade reaction model using Influence Coefficients
Open Tension Crack analysis? - No
Non-linear Modulus Parameter (L) = 22.00 m

Boundary conditions:
Length of wall (normal to plane of analysis) = 100.00 m

Width of excavation on Left side of wall = 30.00 m
Width of excavation on Right side of wall = 30.00 m

Distance to rigid boundary on Left side = 30.00 m
Distance to rigid boundary on Right side = 30.00 m

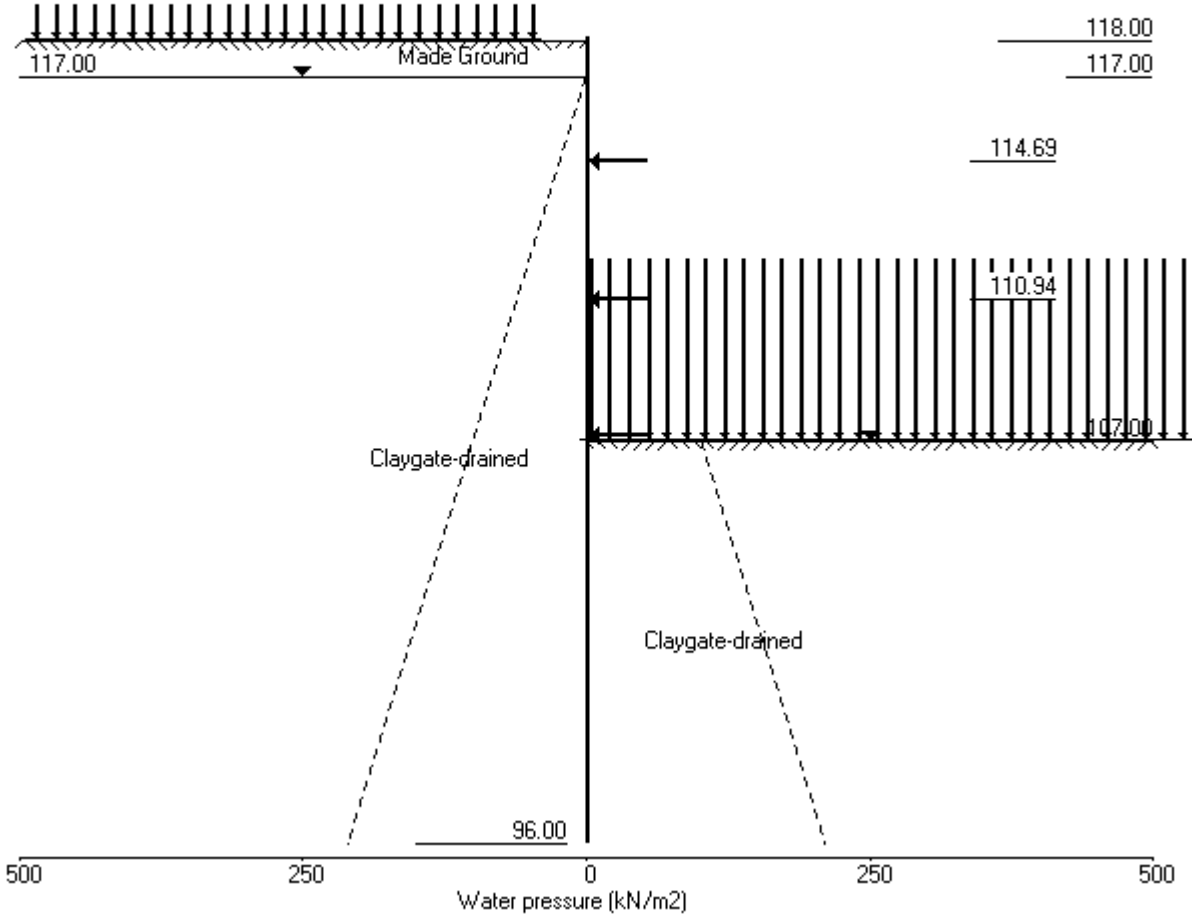
OUTPUT OPTIONS

Stage no.	Stage description	Output options: Displacement Bending mom. Shear force	Active, Passive pressures	Graph. output
1	Apply surcharge no.1 at elev. 118.00	No	No	No
2	Excav. to elev. 115.00 on RIGHT side	No	No	No
3	Install strut no.1 at elev. 115.50	No	No	No
4	Excav. to elev. 111.00 on RIGHT side	No	No	No
5	Install strut no.5 at elev. 111.50	No	No	No
6	Apply water pressure profile no.3	No	No	No
7	Excav. to elev. 107.00 on RIGHT side	Yes	Yes	Yes
8	Install strut no.2 at elev. 107.18	No	No	No
9	Install strut no.4 at elev. 110.94	No	No	No
10	Remove strut no.5 at elev. 111.50	No	No	No
11	Install strut no.3 at elev. 114.69	No	No	No
12	Remove strut no.1 at elev. 115.50	No	No	No
13	Apply surcharge no.2 at elev. 107.00	No	No	No
14	Apply water pressure profile no.2	No	No	No
15	Change EI of wall to 182637kN.m2/m run	No	No	No
*	Summary output	Yes	-	Yes

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Units: kN,m

Stage No.15 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Stage No. 2 Excavate to elevation 115.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 96.00 Factor of Safety	Moment equilib. at elev.	Toe Elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
2	118.00	115.00	Cant.	3.373	97.83	112.12	2.88	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	118.00	0.00	0.019	2.85E-03	0.0	0.0		210168
2	117.00	5.88	0.017	2.85E-03	2.9	1.3		210168
3	116.25	12.15	0.014	2.83E-03	9.7	5.8		210168
4	115.50	20.73	0.012	2.79E-03	22.0	19.7		210168
5	115.00	30.48	0.011	2.72E-03	34.8	33.7		210168
		25.30	0.011	2.72E-03	34.8	33.7		
6	114.69	12.54	0.010	2.67E-03	40.7	45.5		210168
7	113.74	-25.35	0.008	2.38E-03	34.6	83.5		210168
8	112.80	-25.28	0.006	1.95E-03	10.7	107.7		210168
9	112.15	-18.50	0.004	1.61E-03	-3.5	109.4		210168
10	111.50	-12.16	0.004	1.28E-03	-13.5	103.2		210168
11	111.00	-7.83	0.003	1.05E-03	-18.5	94.9		210168
12	110.94	-7.35	0.003	1.02E-03	-18.9	93.8		210168
13	110.07	-1.40	0.002	6.76E-04	-22.7	74.6		210168
14	109.20	2.55	0.002	4.09E-04	-22.2	54.3		210168
15	108.19	4.87	0.001	1.99E-04	-18.5	33.1		210168
16	107.18	5.30	0.001	7.89E-05	-13.3	16.9		210168
17	107.00	5.24	0.001	6.58E-05	-12.4	14.6		210168
18	106.30	4.72	0.001	2.95E-05	-8.9	7.2		210168
19	105.60	3.94	0.001	1.40E-05	-5.9	2.1		210168
20	104.40	2.41	0.001	1.41E-05	-2.1	-2.1		210168
21	103.20	1.11	0.001	2.85E-05	0.0	-2.9		210168
22	102.00	0.24	0.001	4.29E-05	0.8	-2.1		210168
23	100.80	-0.20	0.001	5.17E-05	0.9	-1.0		210168
24	99.60	-0.34	0.001	5.49E-05	0.5	-0.1		210168
25	98.40	-0.27	0.001	5.46E-05	0.2	0.2		210168
26	97.20	-0.09	0.001	5.34E-05	-0.1	0.2		210168
27	96.00	0.19	0.001	5.29E-05	-0.0	-0.0		---

(continued)

Stage No.2 Excavate to elevation 115.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	1964
2	117.00	0.00	20.63	5.88	95.72	5.88	5.88a	1964
		0.00	20.63	5.89	75.67	5.89	5.89a	1454
3	116.25	0.00	38.40	12.15	136.38	12.15	12.15a	1837
4	115.50	0.00	54.76	17.92	192.25	20.73	20.73	2220
5	115.00	0.00	65.07	21.55	227.49	30.48	30.48	2475
6	114.69	0.00	71.31	23.75	248.78	36.78	36.78	2634
7	113.74	0.00	89.79	30.27	311.93	57.01	57.01	3116
8	112.80	0.00	107.78	36.61	373.37	78.16	78.16	3599
9	112.15	0.00	119.97	40.90	415.02	92.79	92.79	3931
10	111.50	0.00	132.06	45.17	456.32	107.23	107.23	4263
11	111.00	0.00	141.31	48.43	487.91	118.10	118.10	4518
12	110.94	0.60	141.87	48.63	489.85	118.85	119.45	4549
13	110.07	9.30	150.04	51.51	517.76	129.24	138.54	4993
14	109.20	18.00	158.13	54.36	545.39	138.78	156.78	5438
15	108.19	28.12	167.46	57.65	577.27	148.91	177.04	5955
16	107.18	38.25	176.73	60.91	608.92	158.24	196.49	6472
17	107.00	40.00	178.32	61.48	614.37	159.80	199.80	6561
18	106.30	47.00	184.69	63.72	636.12	165.90	212.90	6919
19	105.60	54.00	191.03	65.96	657.80	171.88	225.88	7276
20	104.40	66.00	201.87	69.78	694.81	182.07	248.07	7889
21	103.20	78.00	212.66	73.58	731.66	192.35	270.35	8502
22	102.00	90.00	223.40	77.37	768.37	202.81	292.81	9115
23	100.80	102.00	234.11	81.14	804.96	213.45	315.45	9728
24	99.60	114.00	244.79	84.91	841.44	224.22	338.22	10341
25	98.40	126.00	255.45	88.66	877.84	235.08	361.08	10954
26	97.20	138.00	266.08	92.41	914.16	245.99	383.99	11567
27	96.00	150.00	276.69	96.15	950.40	256.95	406.95	12180

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	117.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	116.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	115.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	3355
6	114.69	0.00	5.58	0.58	24.24	24.24	24.24p	3569
7	113.74	0.00	22.59	6.58	82.36	82.36	82.36p	4223
8	112.80	0.00	39.61	12.57	140.49	103.44	103.44	4878
9	112.15	0.00	51.32	16.70	180.50	111.29	111.29	5327
10	111.50	0.00	63.04	20.83	220.52	119.39	119.39	5777
11	111.00	0.00	72.05	24.01	251.33	125.93	125.93	6124
12	110.94	0.60	72.59	24.20	253.18	126.19	126.79	6165
13	110.07	9.30	80.47	26.98	280.07	130.64	139.94	6767
14	109.20	18.00	88.36	29.76	307.02	136.23	154.23	7370
15	108.19	28.12	97.56	33.00	338.47	144.05	172.17	8070
16	107.18	38.25	106.79	36.26	370.01	152.94	191.19	8771
17	107.00	40.00	108.39	36.82	375.48	154.56	194.56	8892
18	106.30	47.00	114.80	39.08	397.36	161.17	208.17	9377
19	105.60	54.00	121.22	41.35	419.29	167.95	221.95	9862

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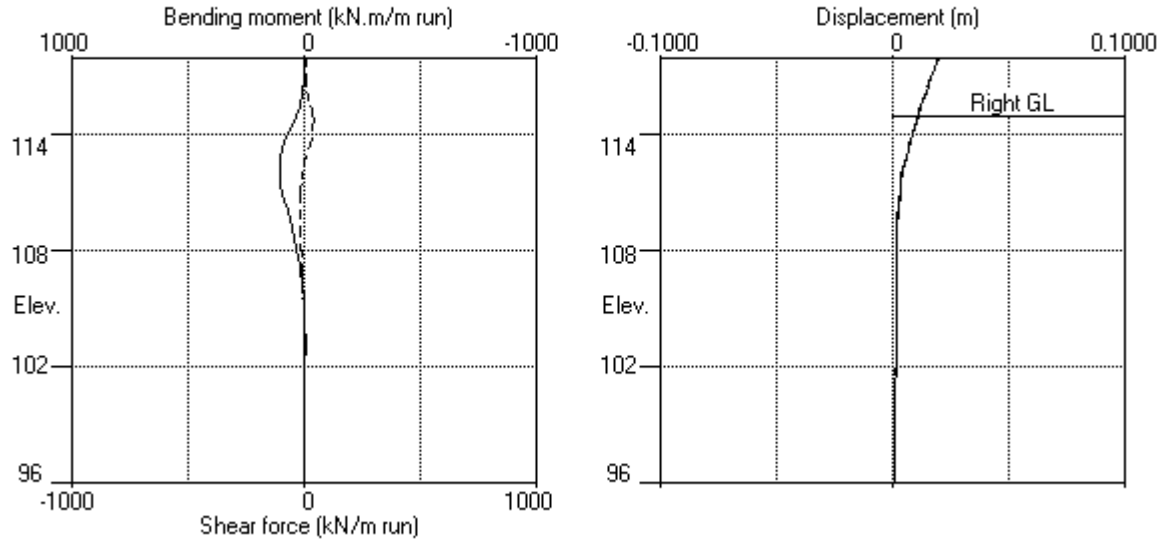
Stage No.2 Excavate to elevation 115.00 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press.	Vertic -al	Active limit	Passive limit	Earth pressure		
		kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m3
20	104.40	66.00	132.26	45.24	457.02	179.66	245.66	10692
21	103.20	78.00	143.35	49.15	494.90	191.24	269.24	11523
22	102.00	90.00	154.49	53.07	532.94	202.57	292.57	12354
23	100.80	102.00	165.67	57.02	571.14	213.65	315.65	13184
24	99.60	114.00	176.89	60.97	609.49	224.56	338.56	14015
25	98.40	126.00	188.16	64.94	647.97	235.36	361.36	14846
26	97.20	138.00	199.46	68.93	686.59	246.09	384.09	15676
27	96.00	150.00	210.80	72.92	725.31	256.76	406.76	16507

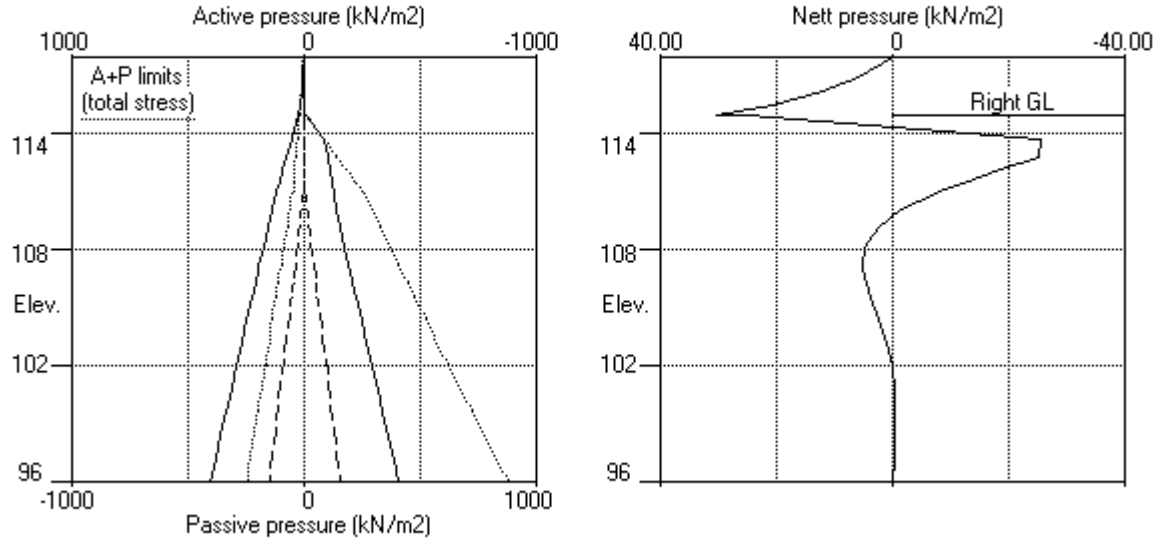
Note: 12.15a Soil pressure at active limit
82.36p Soil pressure at passive limit

Units: kN,m

Stage No.2 Excav. to elev. 115.00 on RIGHT side



Stage No.2 Excav. to elev. 115.00 on RIGHT side



Units: kN,m

Stage No. 4 Excavate to elevation 111.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 96.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
4	118.00	111.00	115.50	2.301	n/a	107.15	3.85	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m

Subgrade reaction model - Boussinesq Influence coefficients

Soil deformations are elastic until the active or passive limit is reached

Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	118.00	0.00	0.009	-2.86E-03	0.0	-0.0		210168
2	117.00	27.94	0.012	-2.87E-03	14.0	1.3		210168
		22.21	0.012	-2.87E-03	14.0	1.3		
3	116.25	13.58	0.014	-2.90E-03	27.4	18.7		210168
4	115.50	17.92	0.016	-3.02E-03	39.2	46.0	180.6	210168
		17.92	0.016	-3.02E-03	-141.4	46.0		
5	115.00	21.55	0.018	-3.05E-03	-131.5	-22.4		210168
6	114.69	23.75	0.019	-2.98E-03	-124.5	-62.1		210168
7	113.74	31.31	0.021	-2.47E-03	-98.5	-164.6		210168
8	112.80	39.83	0.023	-1.57E-03	-64.9	-237.8		210168
9	112.15	46.36	0.024	-7.87E-04	-36.9	-271.0		210168
10	111.50	53.86	0.024	7.13E-05	-4.3	-284.6		210168
11	111.00	60.50	0.024	7.42E-04	24.3	-279.7		210168
		55.32	0.024	7.42E-04	24.3	-279.7		
12	110.94	53.79	0.024	8.22E-04	27.6	-278.2		210168
13	110.07	33.13	0.023	1.88E-03	65.4	-236.6		210168
14	109.20	15.45	0.021	2.72E-03	86.5	-169.9		210168
15	108.19	-1.59	0.018	3.32E-03	93.5	-78.4		210168
16	107.18	-15.66	0.014	3.48E-03	84.8	11.7		210168
17	107.00	-17.89	0.014	3.47E-03	81.9	26.3		210168
18	106.30	-26.48	0.011	3.29E-03	66.3	77.9		210168
19	105.60	-34.95	0.009	2.97E-03	44.8	116.6		210168
20	104.40	-33.09	0.006	2.21E-03	4.0	150.6		210168
21	103.20	-12.86	0.004	1.40E-03	-23.6	131.6		210168
22	102.00	-0.12	0.003	7.61E-04	-31.4	94.0		210168
23	100.80	6.12	0.002	3.32E-04	-27.8	56.3		210168
24	99.60	7.76	0.002	9.38E-05	-19.4	27.3		210168
25	98.40	6.75	0.002	-1.14E-05	-10.7	9.6		210168
26	97.20	4.56	0.002	-4.30E-05	-3.9	1.5		210168
27	96.00	1.99	0.002	-4.73E-05	0.0	-0.0		---

At elev. 115.50 Strut force = 180.6 kN/strut = 180.6 kN/m run

(continued)

Stage No.4 Excavate to elevation 111.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	4778
2	117.00	0.00	20.63	5.88	95.72	27.94	27.94	4778
		0.00	20.63	5.89	75.67	22.21	22.21	3535
3	116.25	0.00	38.40	12.15	136.38	13.58	13.58	4467
4	115.50	0.00	54.76	17.92	192.25	17.92	17.92a	1334
5	115.00	0.00	65.07	21.55	227.49	21.55	21.55a	1488
6	114.69	0.00	71.31	23.75	248.78	23.75	23.75a	1583
7	113.74	0.00	89.79	30.27	311.93	31.31	31.31	1873
8	112.80	0.00	107.78	36.61	373.37	39.83	39.83	2164
9	112.15	0.00	119.97	40.90	415.02	46.36	46.36	2363
10	111.50	0.00	132.06	45.17	456.32	53.86	53.86	2563
11	111.00	0.00	141.31	48.43	487.91	60.50	60.50	2716
12	110.94	0.60	141.87	48.63	489.85	60.82	61.42	2735
13	110.07	9.30	150.04	51.51	517.76	66.91	76.21	3002
14	109.20	18.00	158.13	54.36	545.39	76.02	94.02	3269
15	108.19	28.12	167.46	57.65	577.27	90.21	118.34	3580
16	107.18	38.25	176.73	60.91	608.92	107.49	145.74	3891
17	107.00	40.00	178.32	61.48	614.37	110.70	150.70	3944
18	106.30	47.00	184.69	63.72	636.12	123.89	170.89	4159
19	105.60	54.00	191.03	65.96	657.80	137.27	191.27	4374
20	104.40	66.00	201.87	69.78	694.81	159.32	225.32	4743
21	103.20	78.00	212.66	73.58	731.66	178.74	256.74	5111
22	102.00	90.00	223.40	77.37	768.37	195.00	285.00	5480
23	100.80	102.00	234.11	81.14	804.96	208.49	310.49	5848
24	99.60	114.00	244.79	84.91	841.44	220.04	334.04	6217
25	98.40	126.00	255.45	88.66	877.84	230.47	356.47	6585
26	97.20	138.00	266.08	92.41	914.16	240.42	378.42	6954
27	96.00	150.00	276.69	96.15	950.40	250.21	400.21	7322

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	117.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	116.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	115.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	114.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	113.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	112.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	112.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	3683
12	110.94	0.60	0.54	0.00	7.03	7.03	7.63p	3708
13	110.07	9.30	8.37	1.56	33.78	33.78	43.08p	4070
14	109.20	18.00	16.21	4.33	60.56	60.56	78.56p	4432
15	108.19	28.12	25.36	7.55	91.80	91.80	119.93p	4853
16	107.18	38.25	34.53	10.79	123.15	123.15	161.40p	5275
17	107.00	40.00	36.12	11.35	128.59	128.59	168.59p	5348
18	106.30	47.00	42.50	13.59	150.36	150.36	197.36p	5639
19	105.60	54.00	48.90	15.85	172.23	172.23	226.23p	5930

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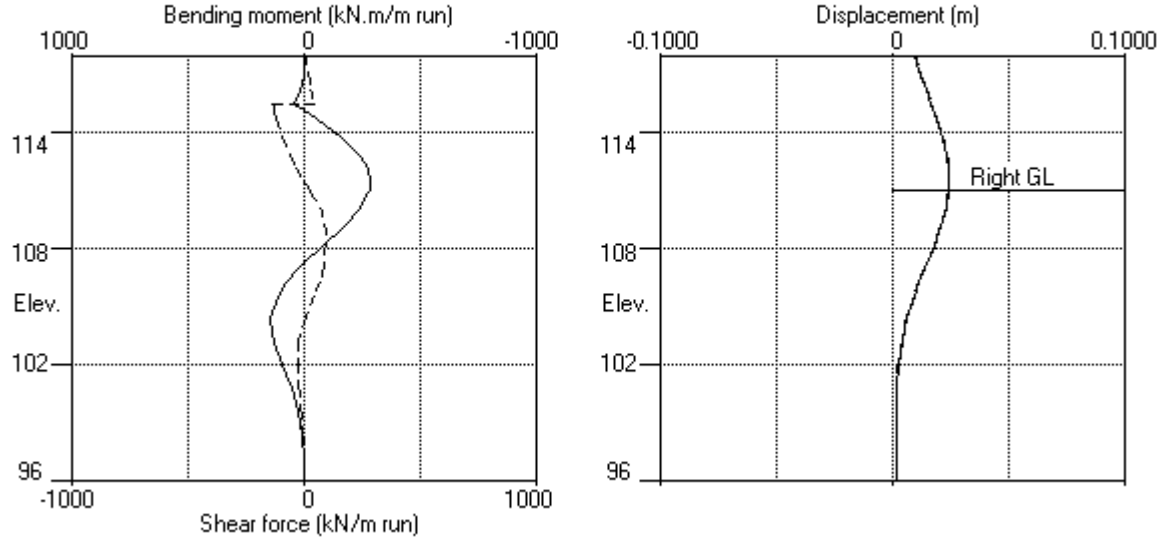
Stage No.4 Excavate to elevation 111.00 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	kN/m2	kN/m3
20	104.40	66.00	59.93	19.74	209.93	192.41	258.41	6430
21	103.20	78.00	71.06	23.66	247.94	191.61	269.61	6930
22	102.00	90.00	82.29	27.62	286.31	195.11	285.11	7429
23	100.80	102.00	93.63	31.62	325.04	202.37	304.37	7929
24	99.60	114.00	105.07	35.65	364.14	212.28	326.28	8428
25	98.40	126.00	116.63	39.73	403.62	223.72	349.72	8928
26	97.20	138.00	128.30	43.84	443.47	235.86	373.86	9427
27	96.00	150.00	140.06	47.99	483.67	248.22	398.22	9927

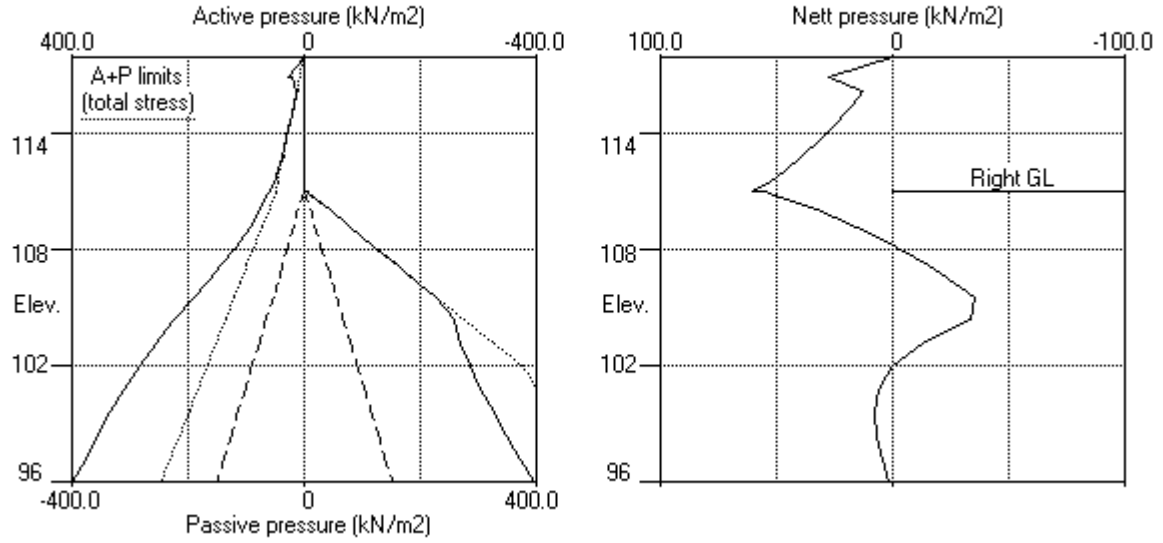
Note: 23.75a Soil pressure at active limit
226.23p Soil pressure at passive limit

Units: kN,m

Stage No.4 Excav. to elev. 111.00 on RIGHT side



Stage No.4 Excav. to elev. 111.00 on RIGHT side



Units: kN,m

Stage No. 7 Excavate to elevation 107.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 96.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
7	118.00	107.00		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	118.00	0.00	0.004	-4.06E-03	0.0	-0.0		210168
2	117.00	38.56	0.008	-4.06E-03	19.3	1.3		210168
		30.07	0.008	-4.06E-03	19.3	1.3		
3	116.25	21.42	0.011	-4.11E-03	38.6	24.9		210168
4	115.50	24.81	0.014	-4.26E-03	55.9	62.7	70.0	210168
		24.81	0.014	-4.26E-03	-14.1	62.7		
5	115.00	27.22	0.016	-4.41E-03	-1.1	58.9		210168
6	114.69	28.30	0.017	-4.50E-03	7.5	59.9		210168
7	113.74	30.59	0.022	-4.82E-03	35.3	84.2		210168
8	112.80	36.61	0.027	-5.32E-03	67.1	136.7		210168
9	112.15	40.90	0.030	-5.82E-03	92.3	188.4		210168
10	111.50	45.17	0.034	-6.51E-03	120.2	257.4	443.3	210168
		45.17	0.034	-6.51E-03	-323.0	257.4		
11	111.00	48.43	0.038	-6.94E-03	-299.6	101.6		210168
12	110.94	49.17	0.038	-6.96E-03	-296.7	83.7		210168
13	110.07	59.88	0.044	-6.82E-03	-249.3	-154.6		210168
14	109.20	70.56	0.050	-5.78E-03	-192.5	-347.9		210168
15	108.19	82.97	0.054	-3.72E-03	-114.8	-505.7		210168
16	107.18	95.35	0.057	-1.11E-03	-24.5	-578.7		210168
17	107.00	97.49	0.057	-6.29E-04	-7.7	-581.5		210168
		92.31	0.057	-6.29E-04	-7.7	-581.5		
18	106.30	74.93	0.057	1.28E-03	50.9	-566.2		210168
19	105.60	57.53	0.055	3.08E-03	97.2	-514.2		210168
20	104.40	27.56	0.050	5.57E-03	148.3	-358.4		210168
21	103.20	-2.66	0.042	7.08E-03	163.2	-172.7		210168
22	102.00	-33.23	0.033	7.55E-03	141.7	10.8		210168
23	100.80	-63.01	0.025	7.01E-03	84.0	178.1		210168
24	99.60	-51.05	0.017	5.85E-03	15.5	227.3		210168
25	98.40	-43.41	0.011	4.62E-03	-41.2	203.2		210168
26	97.20	-31.36	0.006	3.68E-03	-86.0	126.5		210168

(continued)

Stage No.7 Excavate to elevation 107.00 on RIGHT side

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
27	96.00	174.73	0.002	3.32E-03	0.0	-0.0		---

At elev. 115.50 Strut force = 70.0 kN/strut = 70.0 kN/m run
At elev. 111.50 Strut force = 443.3 kN/strut = 443.3 kN/m run

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	2485
2	117.00	0.00	20.63	5.88	95.72	38.56	38.56	2485
		0.00	20.63	5.89	75.67	30.07	30.07	1839
3	116.25	0.00	38.40	12.15	136.38	21.42	21.42	2323
4	115.50	0.00	54.76	17.92	192.25	24.81	24.81	2808
5	115.00	0.00	65.07	21.55	227.49	27.22	27.22	3130
6	114.69	0.00	71.31	23.75	248.78	28.30	28.30	3331
7	113.74	0.00	89.79	30.27	311.93	30.59	30.59	1754
8	112.80	0.00	107.78	36.61	373.37	36.61	36.61a	2026
9	112.15	0.00	119.97	40.90	415.02	40.90	40.90a	2213
10	111.50	0.00	132.06	45.17	456.32	45.17	45.17a	2399
11	111.00	0.00	141.31	48.43	487.91	48.43	48.43a	2543
12	110.94	0.51	141.97	48.66	490.17	48.66	49.17a	2560
13	110.07	7.87	151.47	52.01	522.65	52.01	59.88a	2810
14	109.20	15.23	160.90	55.33	554.85	55.33	70.56a	3061
15	108.19	23.80	171.79	59.17	592.05	59.17	82.97a	3352
16	107.18	32.37	182.61	62.99	629.02	62.99	95.35a	3643
17	107.00	33.85	184.48	63.65	635.39	63.65	97.49a	3693
18	106.30	39.77	191.92	66.27	660.82	66.27	106.04a	3894
19	105.60	45.69	199.34	68.89	686.18	68.89	114.58a	4096
20	104.40	55.85	212.02	73.36	729.50	73.36	129.20a	4440
21	103.20	66.00	224.66	77.81	772.65	77.81	143.81a	4785
22	102.00	76.15	237.25	82.25	815.67	82.25	158.40a	5130
23	100.80	86.31	249.80	86.68	858.57	87.89	174.19	5475
24	99.60	96.46	262.33	91.09	901.36	135.76	232.22	5820
25	98.40	106.62	274.83	95.50	944.06	179.84	286.46	6165
26	97.20	116.77	287.31	99.90	986.68	219.56	336.33	6510
27	96.00	126.92	299.76	104.29	1029.24	332.67	459.59	454119

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	117.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	116.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	115.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	114.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	113.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	112.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	112.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	110.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	110.07	0.00	0.00	0.00	0.00	0.00	0.00	0.0

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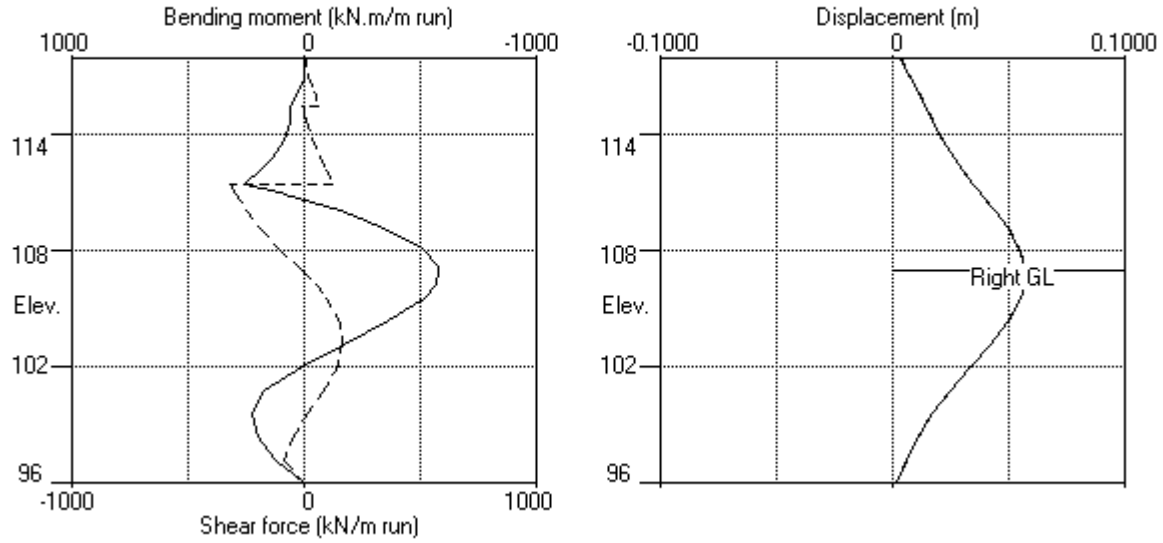
Stage No.7 Excavate to elevation 107.00 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2		
14	109.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
15	108.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0
16	107.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0
17	107.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	4501
18	106.30	8.08	5.22	0.45	23.03	23.03	31.11p	4747
19	105.60	16.15	10.45	2.30	40.90	40.90	57.05p	4992
20	104.40	30.00	19.46	5.47	71.64	71.64	101.64p	5412
21	103.20	43.85	28.52	8.67	102.63	102.63	146.47p	5833
22	102.00	57.69	37.69	11.90	133.94	133.94	191.63p	6253
23	100.80	71.54	46.98	15.17	165.67	165.67	237.21p	6674
24	99.60	85.38	56.41	18.50	197.88	197.88	283.27p	7094
25	98.40	99.23	66.00	21.88	230.64	230.64	329.87p	7515
26	97.20	113.08	75.76	25.32	263.98	254.61	367.69	7935
27	96.00	126.92	85.69	28.82	297.92	157.94	284.86	454119

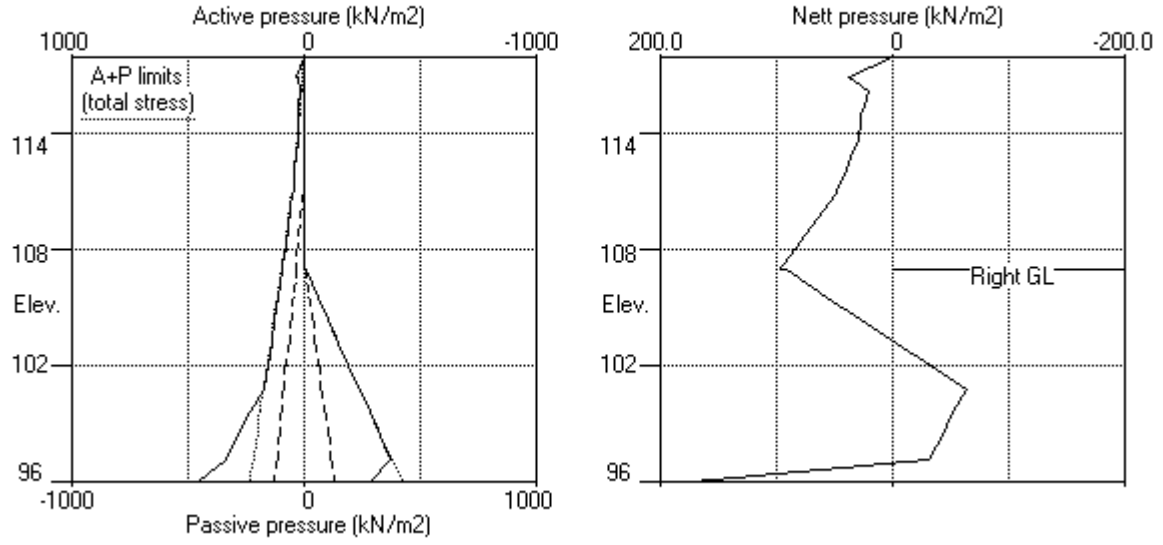
Note: 158.40a Soil pressure at active limit
329.87p Soil pressure at passive limit

Units: kN,m

Stage No.7 Excav. to elev. 107.00 on RIGHT side



Stage No.7 Excav. to elev. 107.00 on RIGHT side



Units: kN,m

Stage No. 15 Change EI of wall to 182637 kN.m2/m run
From elevation 118.00 to 96.00
Yield moment not defined
Allow wall to relax with new modulus value

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method
Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 96.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
15	118.00	107.00		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall
Analysis options
Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall
Limit State: Serviceability Limit State
Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	118.00	0.00	0.005	-4.06E-03	0.0	-0.0		182637
2	117.00	34.40	0.009	-4.07E-03	17.2	1.3		182637
		26.99	0.009	-4.07E-03	17.2	1.3		
3	116.25	22.94	0.012	-4.12E-03	35.9	23.1		182637
4	115.50	31.98	0.016	-4.29E-03	56.5	60.0		182637
5	115.00	38.31	0.018	-4.50E-03	74.1	92.7		182637
6	114.69	41.77	0.019	-4.67E-03	86.5	117.6	178.5	182637
		41.77	0.019	-4.67E-03	-92.0	117.6		
7	113.74	55.07	0.024	-5.12E-03	-46.2	54.6		182637
8	112.80	69.04	0.029	-5.37E-03	12.4	41.7		182637
9	112.15	78.29	0.032	-5.56E-03	60.3	64.8		182637
10	111.50	87.24	0.036	-5.89E-03	114.1	120.9		182637
11	111.00	93.81	0.039	-6.32E-03	159.4	188.8		182637
12	110.94	94.53	0.040	-6.38E-03	165.0	198.5	570.4	182637
		94.53	0.040	-6.38E-03	-405.4	198.5		
13	110.07	104.74	0.045	-6.59E-03	-318.7	-118.4		182637
14	109.20	115.32	0.051	-5.47E-03	-223.0	-356.3		182637
15	108.19	130.13	0.055	-3.06E-03	-98.7	-523.0		182637
16	107.18	146.66	0.057	-1.02E-04	41.4	-556.3	-0.0	182637
17	107.00	149.67	0.057	4.20E-04	67.3	-546.9		182637
		44.49	0.057	4.20E-04	67.3	-546.9		
18	106.30	34.06	0.056	2.38E-03	94.8	-490.5		182637
19	105.60	25.18	0.053	4.10E-03	115.5	-417.4		182637
20	104.40	9.63	0.047	6.29E-03	136.4	-260.7		182637
21	103.20	-8.28	0.039	7.45E-03	137.2	-99.4		182637
22	102.00	-30.48	0.030	7.60E-03	114.0	51.7		182637
23	100.80	-55.31	0.021	6.81E-03	62.5	190.0		182637

(continued)

Stage No.15 Change EI of wall to 182637 kN.m2/m run
From elevation 118.00 to 96.00
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
24	99.60	-41.80	0.013	5.47E-03	4.2	220.5		182637
25	98.40	-35.67	0.008	4.13E-03	-42.2	190.1		182637
26	97.20	-27.76	0.003	3.13E-03	-80.3	117.5		182637
27	96.00	161.60	-0.000	2.75E-03	0.0	-0.0		---

At elev. 114.69 Strut force = 178.5 kN/strut = 178.5 kN/m run
At elev. 110.94 Strut force = 570.4 kN/strut = 570.4 kN/m run
At elev. 107.18 The strut is slack

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	3320
2	117.00	0.00	20.63	5.88	95.72	34.40	34.40	3320
		0.00	20.63	5.89	75.67	26.99	26.99	2457
3	116.25	7.50	31.65	9.77	113.32	15.44	22.94	3104
4	115.50	15.00	41.26	13.16	146.13	16.98	31.98	3752
5	115.00	20.00	47.07	15.21	166.00	18.31	38.31	4183
6	114.69	23.10	50.52	16.42	177.76	18.67	41.77	2892
7	113.74	32.55	60.50	19.94	211.85	22.52	55.07	3421
8	112.80	42.00	69.98	23.28	244.23	27.04	69.04	3951
9	112.15	48.50	76.32	25.52	265.90	29.79	78.29	4316
10	111.50	55.00	82.56	27.72	287.22	32.24	87.24	4680
11	111.00	60.00	87.31	29.39	303.44	33.81	93.81	4961
12	110.94	60.60	87.87	29.59	305.38	33.93	94.53	4995
13	110.07	69.30	96.04	32.47	333.28	35.44	104.74	4008
14	109.20	78.00	104.13	35.32	360.91	37.32	115.32	4364
15	108.19	88.12	113.46	38.61	392.79	42.01	130.13	4779
16	107.18	98.25	122.73	41.88	424.44	48.41	146.66	5194
17	107.00	100.00	124.32	42.44	429.89	49.67	149.67	5266
18	106.30	107.00	130.69	44.68	451.64	55.05	162.05	5553
19	105.60	114.00	137.03	46.92	473.32	60.70	174.70	5840
20	104.40	126.00	147.87	50.74	510.33	70.16	196.16	6332
21	103.20	138.00	158.66	54.54	547.18	78.48	216.48	6824
22	102.00	150.00	169.40	58.33	583.89	85.28	235.28	7699
23	100.80	162.00	180.11	62.11	620.48	91.55	253.55	8217
24	99.60	174.00	190.79	65.87	656.97	138.27	312.27	8735
25	98.40	186.00	201.45	69.63	693.36	179.68	365.68	9253
26	97.20	198.00	212.08	73.38	729.68	215.50	413.50	9770
27	96.00	210.00	222.69	77.12	765.93	318.33	528.33	51524

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	118.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	117.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	116.25	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	115.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	115.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	114.69	0.00	0.00	0.00	0.00	0.00	0.00	0.0

(continued)

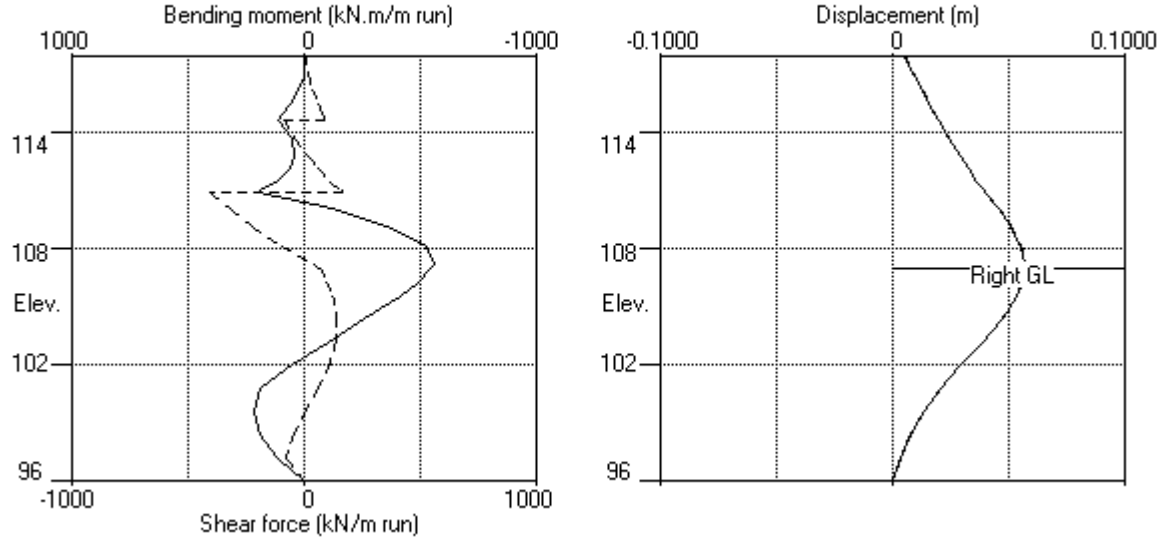
Stage No.15 Change EI of wall to 182637 kN.m2/m run
From elevation 118.00 to 96.00
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	RIGHT side Water press. kN/m2	Effective stresses Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
7	113.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	112.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	112.15	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	110.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	110.07	0.00	0.00	0.00	0.00	0.00	0.00	0.0
14	109.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
15	108.19	0.00	0.00	0.00	0.00	0.00	0.00	0.0
16	107.18	0.00	0.00	0.00	0.00	0.00	0.00	0.0
17	107.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		100.00	0.00	0.00	5.18	5.18	105.18p	8634
18	106.30	107.00	6.30	0.83	26.70	20.99	127.99	9104
19	105.60	114.00	12.60	3.05	48.23	35.52	149.52	9575
20	104.40	126.00	23.42	6.87	85.20	60.53	186.53	10381
21	103.20	138.00	34.27	10.69	122.27	86.76	224.76	11188
22	102.00	150.00	45.17	14.53	159.48	115.75	265.75	7699
23	100.80	162.00	56.11	18.39	196.88	146.85	308.85	8217
24	99.60	174.00	67.12	22.27	234.49	180.07	354.07	8735
25	98.40	186.00	78.20	26.18	272.33	215.36	401.36	9253
26	97.20	198.00	89.35	30.11	310.42	243.26	441.26	9770
27	96.00	210.00	100.58	34.07	348.77	156.73	366.73	51524

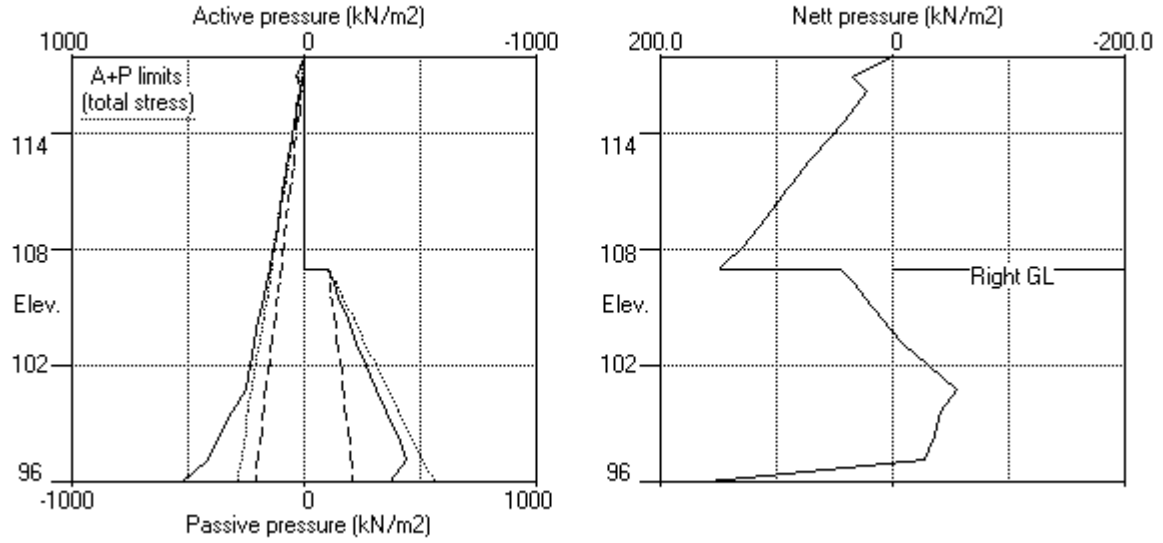
Note: 12.34a Soil pressure at active limit
105.18p Soil pressure at passive limit

Units: kN,m

Stage No.15 Change EI of wall to 182637kN.m2/m run



Stage No.15 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Summary of results

LIMIT STATE PARAMETERS

Limit State: Serviceability Limit State
All loads and soil strengths are unfactored

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 96.00 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
1	118.00	118.00	Cant.	Conditions not suitable for FoS calc.				
2	118.00	115.00	Cant.	3.373	97.83	112.12	2.88	L to R
3	118.00	115.00		No analysis at this stage				
4	118.00	111.00	115.50	2.301	n/a	107.15	3.85	L to R
5	118.00	111.00		No analysis at this stage				

All remaining stages have more than one strut - FoS calculation n/a

Units: kN,m

Summary of results

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Bending moment, shear force and displacement envelopes

Node no.	Y coord	Displacement		Bending moment Calculated		Bending moment Factored		Shear force Calculated		Shear force Factored	
		max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
		m	m	kN.m/m		kN.m/m		kN/m	kN/m	kN/m	kN/m
1	118.00	0.019	0.000	0	-0	0	-0	0	0	0	0
2	117.00	0.017	0.000	1	0	2	0	20	-1	27	-1
3	116.25	0.014	0.000	26	-0	35	-1	39	-1	53	-1
4	115.50	0.016	0.000	64	-1	86	-1	58	-141	78	-191
5	115.00	0.018	0.000	95	-22	128	-30	76	-132	102	-178
6	114.69	0.019	0.000	120	-62	162	-84	88	-125	119	-168
7	113.74	0.024	0.000	84	-165	114	-222	35	-99	48	-133
8	112.80	0.029	0.000	137	-238	185	-321	67	-65	91	-88
9	112.15	0.033	0.000	188	-271	254	-366	92	-37	125	-50
10	111.50	0.036	0.000	257	-285	347	-384	120	-323	162	-436
11	111.00	0.039	0.000	189	-280	255	-378	159	-300	215	-405
12	110.94	0.040	0.000	199	-278	268	-376	165	-418	223	-565
13	110.07	0.045	0.000	75	-237	101	-319	65	-331	88	-447
14	109.20	0.051	0.000	54	-386	73	-521	87	-235	117	-317
15	108.19	0.055	0.000	33	-562	45	-759	94	-128	126	-173
16	107.18	0.057	0.000	17	-602	23	-813	85	-37	114	-50
17	107.00	0.057	0.000	26	-594	35	-802	82	-20	111	-27
18	106.30	0.057	0.000	78	-566	105	-764	95	-9	129	-12
19	105.60	0.055	0.000	117	-514	157	-694	122	-6	164	-8
20	104.40	0.050	0.000	151	-359	203	-485	149	-2	202	-3
21	103.20	0.042	0.000	132	-176	178	-238	163	-24	220	-32
22	102.00	0.033	0.000	94	-2	127	-3	142	-31	192	-42
23	100.80	0.025	0.000	200	-1	270	-1	85	-28	114	-37
24	99.60	0.017	0.000	237	-0	320	-0	16	-19	22	-26
25	98.40	0.011	0.000	205	0	277	0	0	-46	0	-62
26	97.20	0.006	0.000	127	0	171	0	0	-88	0	-118
27	96.00	0.002	-0.000	0	-0	0	-0	0	-0	0	-0

Summary of results (continued)

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Maximum and minimum bending moment and shear force at each stage

Stage	Bending moment						Shear force					
no.	Calculated				Factored		Calculated				Factored	
	max.	elev.	min.	elev.	max.	min.	max.	elev.	min.	elev.	max.	min.
	kN.m/m		kN.m/m		kN.m/m		kN/m		kN/m		kN/m	kN/m
1	1	105.60	-2	113.74	1	-2	1	110.94	-1	116.25	1	-1
2	109	112.15	-3	103.20	148	-4	41	114.69	-23	110.07	55	-31
3	No calculation at this stage											
4	151	104.40	-285	111.50	203	-384	94	108.19	-141	115.50	126	-191
5	No calculation at this stage											
6	No calculation at this stage											
7	257	111.50	-582	107.00	347	-785	163	103.20	-323	111.50	220	-436
8	No calculation at this stage											
9	No calculation at this stage											
10	226	99.60	-563	107.00	305	-760	162	103.20	-311	110.94	219	-419
11	No calculation at this stage											
12	226	99.60	-564	107.00	305	-761	162	103.20	-309	110.94	219	-418
13	No calculation at this stage											
14	237	99.60	-602	107.18	320	-813	160	110.94	-418	110.94	216	-565
15	221	99.60	-556	107.18	298	-751	165	110.94	-405	110.94	223	-547

Maximum and minimum displacement at each stage

Stage	Displacement				Stage description
no.	maximum	elev.	minimum	elev.	
	m		m		
1	0.001	118.00	0.000	118.00	Apply surcharge no.1 at elev. 118.00
2	0.019	118.00	0.000	118.00	Excav. to elev. 115.00 on RIGHT side
3	No calculation at this stage				Install strut no.1 at elev. 115.50
4	0.024	111.50	0.000	118.00	Excav. to elev. 111.00 on RIGHT side
5	No calculation at this stage				Install strut no.5 at elev. 111.50
6	No calculation at this stage				Apply water pressure profile no.3
7	0.057	107.00	0.000	118.00	Excav. to elev. 107.00 on RIGHT side
8	No calculation at this stage				Install strut no.2 at elev. 107.18
9	No calculation at this stage				Install strut no.4 at elev. 110.94
10	0.057	107.00	0.000	118.00	Remove strut no.5 at elev. 111.50
11	No calculation at this stage				Install strut no.3 at elev. 114.69
12	0.057	107.00	0.000	118.00	Remove strut no.1 at elev. 115.50
13	No calculation at this stage				Apply surcharge no.2 at elev. 107.00
14	0.056	107.18	-0.000	96.00	Apply water pressure profile no.2
15	0.057	107.18	-0.000	96.00	Change EI of wall to 182637kN.m2/m run

Summary of results (continued)

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

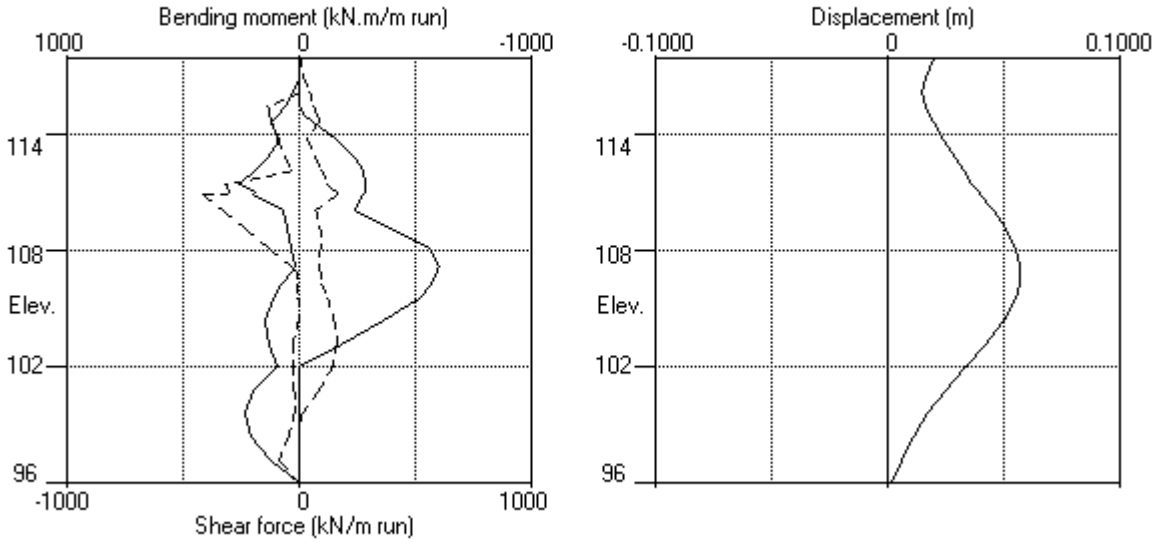
Strut forces at each stage (horizontal components)

Stage no.	Strut no. 1 at elev. 115.50			Strut no. 2 at elev. 107.18			Strut no. 3 at elev. 114.69		
	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut
4	181	181	244	---	---	---	---	---	---
7	70	70	95	---	---	---	---	---	---
10	106	106	143	slack	slack	slack	---	---	---
12	---	---	---	slack	slack	slack	118	118	160
14	---	---	---	slack	slack	slack	183	183	248
15	---	---	---	slack	slack	slack	178	178	241

Stage no.	Strut no. 4 at elev. 110.94			Strut no. 5 at elev. 111.50		
	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut
7	---	---	---	443	443	598
10	418	418	564	---	---	---
12	397	397	535	---	---	---
14	579	579	781	---	---	---
15	570	570	770	---	---	---

Units: kN,m

Bending moment, shear force, displacement envelopes



Units: kN,m

INPUT DATA

SOIL PROFILE

Stratum no.	Elevation of top of stratum	Soil types Left side	Right side
1	114.70	1 Made Ground	1 Made Ground
2	113.70	3 Claygate-drained	3 Claygate-drained

SOIL PROPERTIES

No.	Soil type Description (Datum elev.)	Bulk density kN/m3	Young's Modulus Eh,kN/m2 (dEh/dy)	At rest coeff. Ko (dKo/dy)	Consol state. NC/OC (Nu)	Active limit Ka (Kac)	Passive limit Kp (Kpc)	Cohesion kN/m2 (dc/dy)
1	Made Ground	17.00	10000	0.500	OC (0.200)	0.285 (0.000)	4.639 (0.000)	
2	Bagshot Formation	18.00a 19.00b	34000	0.455	OC (0.200)	0.250 (0.000)	5.664 (0.000)	
3	Claygate-.. (113.70)	18.00a 19.00b	7400 (2600)	1.000	OC (0.490)	0.353 (1.388)	3.416 (5.182)	1.000d

Note: (a) and (b) are Bulk Densities above and below the water table

Additional soil parameters associated with Ka and Kp

No.	Soil type Description	--- parameters for Ka --- Soil friction angle	Wall adhesion coeff.	Back-fill angle	--- parameters for Kp --- Soil friction angle	Wall adhesion coeff.	Back-fill angle
1	Made Ground	30.00	0.634	0.00	30.00	0.634	0.00
2	Bagshot Formation	33.00	0.626	0.00	33.00	0.626	0.00
3	Claygate-drained	25.00	0.645	0.00	25.00	0.645	0.00

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Left side	Right side
Initial water table elevation	105.50	105.50

Automatic water pressure balancing at toe of wall : Yes

Water press. profile no.	Left side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	Right side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	
1	1	111.00	111.00	0.0	1	111.00	111.00	0.0	
2	1	110.11	110.11	0.0	1	107.00	107.00	0.0	
					2	107.00	117.00	100.0	
3	1	113.70	113.70	0.0	1	106.36	106.36	0.0	MC+WC
					2	106.36	113.70	73.4	

WALL PROPERTIES

Type of structure = Fully Embedded Wall
Elevation of toe of wall = 99.70
Maximum finite element length = 0.80 m
Youngs modulus of wall E = 2.1000E+08 kN/m2
Moment of inertia of wall I = 1.0008E-03 m4/m run
E.I = 210168 kN.m2/m run
Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	113.70	1.00	1.000000	45000	1.00	0.00	0	No
2	106.54	1.00	0.175000	2.100E+07	10.00	0.00	0	No
3	110.94	1.50	0.175000	2.100E+07	10.00	0.00	0	No
4	108.50	1.00	1.000000	45000	1.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge kN/m2 Near edge	Surcharge kN/m2 Far edge	Equiv. soil type	Partial factor/ Category
1	114.70	1.00(L)	100.00	30.00	20.00	=	N/A	1.00 Var
2	107.00	-0.00(R)	100.00	30.00	100.00	=	N/A	1.00 -
3	106.36	-0.00(R)	100.00	30.00	73.40	=	N/A	1.00 -

Note: L = Left side, R = Right side
Limit State Categories P/U = Permanent Unfavourable
P/F = Permanent Favourable
Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 114.70
2	Excavate to elevation 113.50 on RIGHT side
3	Install strut or anchor no.1 at elevation 113.70
4	Excavate to elevation 108.00 on RIGHT side
5	Install strut or anchor no.4 at elevation 108.50
6	Excavate to elevation 106.36 on RIGHT side
7	Install strut or anchor no.2 at elevation 106.54
8	Install strut or anchor no.3 at elevation 110.94
9	Remove strut or anchor no.4 at elevation 108.50
10	Remove strut or anchor no.1 at elevation 113.70
11	Apply surcharge no.3 at elevation 106.36 No analysis at this stage
12	Apply water pressure profile no.3 (Mod. Conserv.)
13	Change EI of wall to 182637 kN.m2/m run From elevation 114.70 to 99.70 Yield moment not defined Allow wall to relax with new modulus value

FACTORS OF SAFETY and ANALYSIS OPTIONS

Limit State options: Serviceability Limit State
All loads and soil strengths are unfactored

Stability analysis:
Method of analysis - Strength Factor method
Factor on soil strength for calculating wall depth = 1.00

Parameters for undrained strata:
Minimum equivalent fluid density = 5.00 kN/m3
Maximum depth of water filled tension crack = 0.00 m

Bending moment and displacement calculation:
Method - Subgrade reaction model using Influence Coefficients
Open Tension Crack analysis? - No
Non-linear Modulus Parameter (L) = 15.00 m

Boundary conditions:
Length of wall (normal to plane of analysis) = 100.00 m

Width of excavation on Left side of wall = 30.00 m
Width of excavation on Right side of wall = 30.00 m

Distance to rigid boundary on Left side = 30.00 m
Distance to rigid boundary on Right side = 30.00 m

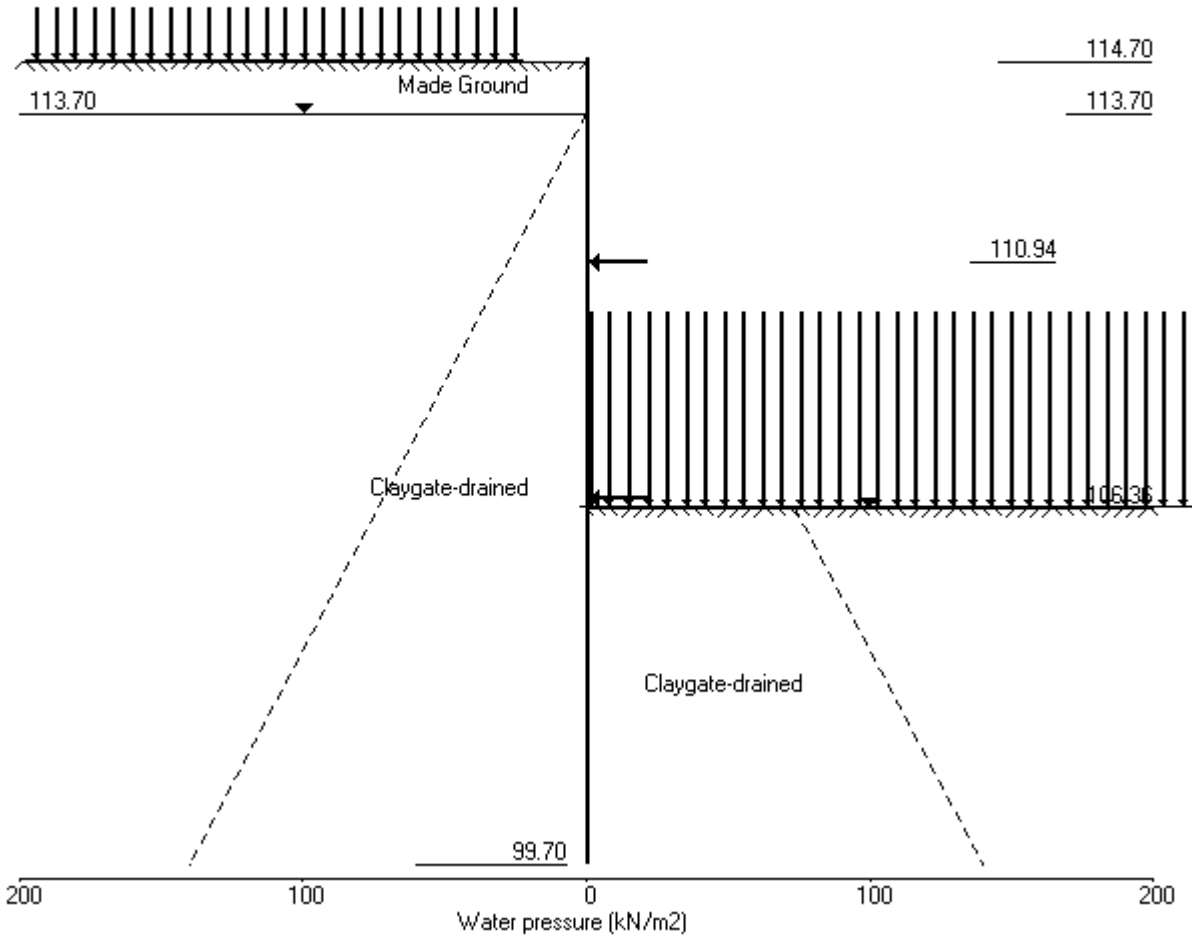
OUTPUT OPTIONS

Stage no.	Stage description	Output options: Displacement, Bending mom., Shear force	Active, Passive pressures	Graph. output
1	Apply surcharge no.1 at elev. 114.70	No	No	No
2	Excav. to elev. 113.50 on RIGHT side	No	No	No
3	Install strut no.1 at elev. 113.70	No	No	No
4	Excav. to elev. 108.00 on RIGHT side	No	No	No
5	Install strut no.4 at elev. 108.50	No	No	No
6	Excav. to elev. 106.36 on RIGHT side	No	No	No
7	Install strut no.2 at elev. 106.54	No	No	No
8	Install strut no.3 at elev. 110.94	No	No	No
9	Remove strut no.4 at elev. 108.50	No	No	No
10	Remove strut no.1 at elev. 113.70	No	No	No
11	Apply surcharge no.3 at elev. 106.36	No	No	No
12	Apply water pressure profile no.3	No	No	No
13	Change EI of wall to 182637kN.m2/m run	No	No	No
*	Summary output	Yes	-	Yes

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Units: kN,m

Stage No.13 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Stage No. 2 Excavate to elevation 113.50 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
2	114.70	113.50	Cant.	5.824	100.99	112.62	0.88	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	114.70	0.00	0.008	7.22E-04	0.0	0.0		210168
2	114.20	2.65	0.007	7.21E-04	0.7	0.2		210168
3	113.70	5.88	0.007	7.20E-04	2.8	1.1		210168
		7.69	0.007	7.20E-04	2.8	1.1		
4	113.50	11.94	0.007	7.18E-04	4.8	1.8		210168
		6.75	0.007	7.18E-04	4.8	1.8		
5	112.75	-2.44	0.006	7.01E-04	6.4	7.8		210168
6	112.00	-2.41	0.006	6.66E-04	4.6	12.1		210168
7	111.47	-2.37	0.005	6.32E-04	3.3	14.2		210168
8	110.94	-2.25	0.005	5.95E-04	2.1	15.7		210168
9	110.27	-1.96	0.005	5.43E-04	0.7	16.6		210168
10	109.60	-1.57	0.004	4.90E-04	-0.5	16.7		210168
11	109.05	-1.21	0.004	4.47E-04	-1.3	16.2		210168
12	108.50	-0.85	0.004	4.06E-04	-1.9	15.3		210168
13	108.00	-0.55	0.004	3.71E-04	-2.2	14.3		210168
14	107.27	-0.18	0.003	3.24E-04	-2.5	12.5		210168
15	106.54	0.09	0.003	2.84E-04	-2.5	10.7		210168
16	106.36	0.13	0.003	2.75E-04	-2.5	10.2		210168
17	105.93	0.22	0.003	2.55E-04	-2.4	9.2		210168
18	105.50	0.28	0.003	2.37E-04	-2.3	8.1		210168
19	104.75	0.32	0.003	2.11E-04	-2.1	6.5		210168
20	104.00	0.31	0.002	1.91E-04	-1.9	5.0		210168
21	103.20	0.27	0.002	1.74E-04	-1.6	3.6		210168
22	102.40	0.26	0.002	1.63E-04	-1.4	2.4		210168
23	101.60	0.33	0.002	1.55E-04	-1.2	1.4		210168
24	100.80	0.52	0.002	1.52E-04	-0.8	0.5		210168
25	100.25	0.74	0.002	1.51E-04	-0.5	0.2		210168
26	99.70	1.04	0.002	1.50E-04	0.0	-0.0		---

(continued)

Stage No.2 Excavate to elevation 113.50 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	1973
2	114.20	0.00	9.31	2.65	43.19	2.65	2.65a	1973
3	113.70	0.00	20.63	5.88	95.72	5.88	5.88a	1973
		0.00	20.63	5.89	75.67	7.69	7.69	2155
4	113.50	0.00	25.49	7.60	92.27	11.94	11.94	2307
5	112.75	0.00	42.89	13.73	151.72	27.46	27.46	2875
6	112.00	0.00	58.93	19.39	206.50	42.20	42.20	3443
7	111.47	0.00	69.71	23.19	243.32	52.36	52.36	3844
8	110.94	0.00	80.19	26.88	279.13	62.41	62.41	4245
9	110.27	0.00	93.15	31.45	323.41	75.04	75.04	4753
10	109.60	0.00	105.89	35.94	366.92	87.62	87.62	5260
11	109.05	0.00	116.23	39.59	402.24	97.91	97.91	5676
12	108.50	0.00	126.49	43.20	437.29	108.16	108.16	6093
13	108.00	0.00	135.76	46.47	468.98	117.44	117.44	6471
14	107.27	0.00	149.27	51.24	515.14	130.97	130.97	7026
15	106.54	0.00	162.72	55.98	561.07	144.42	144.42	7581
16	106.36	0.00	165.83	57.07	571.70	147.53	147.53	7710
17	105.93	0.00	173.74	59.86	598.70	155.43	155.43	8037
18	105.50	0.00	181.62	62.64	625.65	163.30	163.30	8365
19	104.75	7.50	188.52	65.07	649.22	170.16	177.66	8933
20	104.00	15.00	195.39	67.49	672.66	176.98	191.98	9500
21	103.20	23.00	202.67	70.06	697.55	184.24	207.24	10106
22	102.40	31.00	209.93	72.62	722.35	191.50	222.50	10712
23	101.60	39.00	217.16	75.17	747.05	198.78	237.78	11318
24	100.80	47.00	224.37	77.71	771.68	206.12	253.12	11924
25	100.25	52.50	229.31	79.45	788.57	211.21	263.71	12340
26	99.70	58.00	234.25	81.19	805.43	216.34	274.34	12757

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	114.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	113.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	113.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	2409
5	112.75	0.00	13.50	3.37	51.30	29.90	29.90	3003
6	112.00	0.00	27.00	8.13	97.42	44.61	44.61	3596
7	111.47	0.00	36.54	11.49	130.02	54.73	54.73	4015
8	110.94	0.00	46.09	14.86	162.62	64.66	64.66	4434
9	110.27	0.00	58.15	19.11	203.84	77.01	77.01	4964
10	109.60	0.00	70.22	23.37	245.06	89.19	89.19	5494
11	109.05	0.00	80.13	26.86	278.92	99.12	99.12	5929
12	108.50	0.00	90.04	30.35	312.78	109.01	109.01	6364
13	108.00	0.00	99.05	33.53	343.56	117.99	117.99	6760
14	107.27	0.00	112.26	38.19	388.69	131.15	131.15	7339
15	106.54	0.00	125.47	42.84	433.82	144.33	144.33	7919
16	106.36	0.00	128.54	43.93	444.30	147.40	147.40	8053
17	105.93	0.00	136.35	46.68	470.97	155.20	155.20	8395
18	105.50	0.00	144.15	49.43	497.64	163.02	163.02	8737
19	104.75	7.50	150.95	51.83	520.85	169.84	177.34	9330
20	104.00	15.00	157.75	54.22	544.08	176.68	191.68	9924

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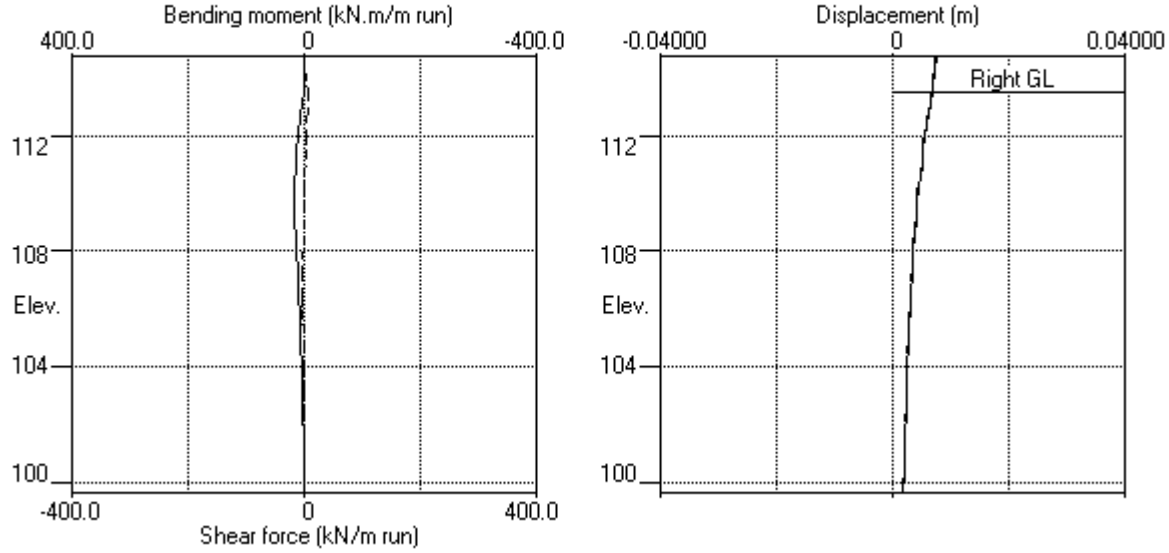
Stage No.2 Excavate to elevation 113.50 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	kN/m2	kN/m3
21	103.20	23.00	165.01	56.78	568.89	183.97	206.97	10557
22	102.40	31.00	172.28	59.35	593.73	191.23	222.23	11189
23	101.60	39.00	179.56	61.91	618.59	198.45	237.45	11822
24	100.80	47.00	186.84	64.48	643.48	205.61	252.61	12455
25	100.25	52.50	191.86	66.25	660.61	210.47	262.97	12890
26	99.70	58.00	196.88	68.02	677.75	215.29	273.29	13325

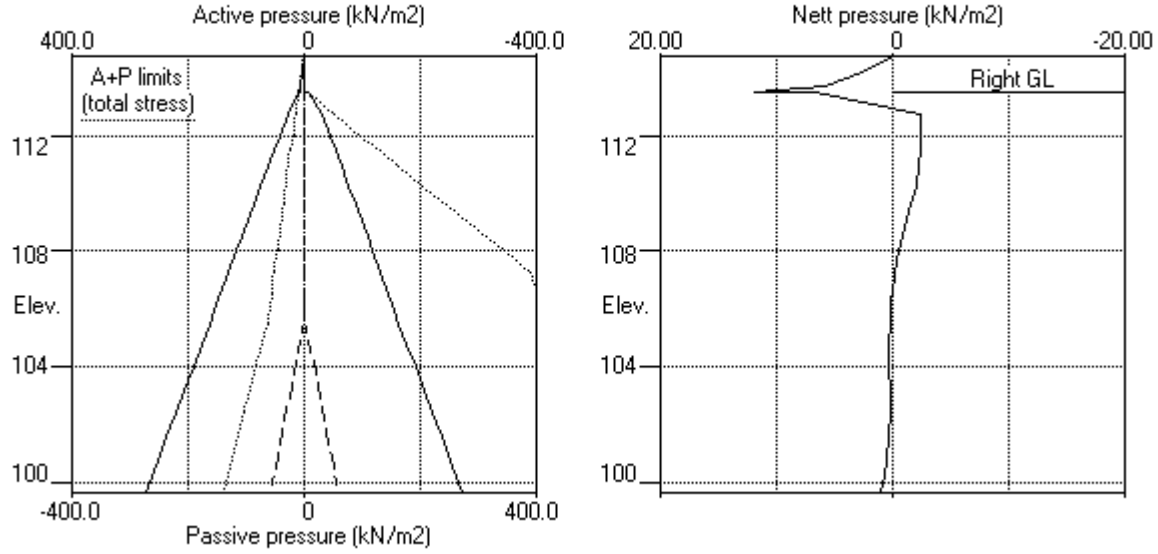
Note: 5.88a Soil pressure at active limit
5.18p Soil pressure at passive limit

Units: kN,m

Stage No.2 Excav. to elev. 113.50 on RIGHT side



Stage No.2 Excav. to elev. 113.50 on RIGHT side



Units: kN,m

Stage No. 4 Excavate to elevation 108.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
4	114.70	108.00	113.70	1.877	n/a	105.50	2.50	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	114.70	0.00	0.006	-3.33E-03	0.0	0.0		210168
2	114.20	2.65	0.007	-3.33E-03	0.7	0.2		210168
3	113.70	5.88	0.009	-3.33E-03	2.8	1.1	97.7	210168
		5.89	0.009	-3.33E-03	-94.9	1.1		
4	113.50	7.60	0.010	-3.33E-03	-93.5	-17.7		210168
5	112.75	15.64	0.012	-3.15E-03	-84.8	-82.5		210168
6	112.00	21.54	0.014	-2.75E-03	-70.9	-140.2		210168
7	111.47	24.77	0.016	-2.35E-03	-58.6	-174.2		210168
8	110.94	27.69	0.017	-1.88E-03	-44.7	-201.2		210168
9	110.27	31.51	0.018	-1.20E-03	-24.9	-224.0		210168
10	109.60	36.13	0.018	-4.80E-04	-2.2	-232.6		210168
11	109.05	40.94	0.019	1.21E-04	19.0	-227.8		210168
12	108.50	46.98	0.018	6.95E-04	43.2	-210.7		210168
13	108.00	53.68	0.018	1.16E-03	68.3	-182.8		210168
		48.50	0.018	1.16E-03	68.3	-182.8		
14	107.27	15.43	0.017	1.69E-03	91.7	-122.6		210168
15	106.54	-15.34	0.015	2.00E-03	91.8	-54.1		210168
16	106.36	-22.21	0.015	2.04E-03	88.6	-38.7		210168
17	105.93	-39.33	0.014	2.08E-03	75.3	-3.1		210168
18	105.50	-44.90	0.013	2.05E-03	57.1	28.0		210168
19	104.75	-35.40	0.012	1.90E-03	26.9	58.2		210168
20	104.00	-25.53	0.010	1.67E-03	4.1	68.5		210168
21	103.20	-15.55	0.009	1.42E-03	-12.3	63.6		210168
22	102.40	-6.48	0.008	1.21E-03	-21.2	48.7		210168
23	101.60	1.90	0.007	1.06E-03	-23.0	29.7		210168
24	100.80	10.24	0.006	9.85E-04	-18.1	11.9		210168
25	100.25	16.34	0.006	9.65E-04	-10.8	3.5		210168
26	99.70	23.00	0.005	9.60E-04	0.0	0.0		---

At elev. 113.70 Strut force = 97.7 kN/strut = 97.7 kN/m run

(continued)

Stage No.4 Excavate to elevation 108.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	14481
2	114.20	0.00	9.31	2.65	43.19	2.65	2.65a	1276
3	113.70	0.00	20.63	5.88	95.72	5.88	5.88a	1276
		0.00	20.63	5.89	75.67	5.89	5.89a	1486
4	113.50	0.00	25.49	7.60	92.27	7.60	7.60a	1590
5	112.75	0.00	42.89	13.73	151.72	15.64	15.64	1982
6	112.00	0.00	58.93	19.39	206.50	21.54	21.54	2374
7	111.47	0.00	69.71	23.19	243.32	24.77	24.77	2650
8	110.94	0.00	80.19	26.88	279.13	27.69	27.69	2927
9	110.27	0.00	93.15	31.45	323.41	31.51	31.51	3277
10	109.60	0.00	105.89	35.94	366.92	36.13	36.13	3627
11	109.05	0.00	116.23	39.59	402.24	40.94	40.94	3914
12	108.50	0.00	126.49	43.20	437.29	46.98	46.98	4201
13	108.00	0.00	135.76	46.47	468.98	53.68	53.68	4462
14	107.27	0.00	149.27	51.24	515.14	65.65	65.65	4845
15	106.54	0.00	162.72	55.98	561.07	79.94	79.94	5227
16	106.36	0.00	165.83	57.07	571.70	83.54	83.54	5316
17	105.93	0.00	173.74	59.86	598.70	93.04	93.04	5542
18	105.50	0.00	181.62	62.64	625.65	102.94	102.94	5768
19	104.75	7.50	188.52	65.07	649.22	113.86	121.36	6159
20	104.00	15.00	195.39	67.49	672.66	124.93	139.93	6551
21	103.20	23.00	202.67	70.06	697.55	136.50	159.50	6968
22	102.40	31.00	209.93	72.62	722.35	147.68	178.68	7386
23	101.60	39.00	217.16	75.17	747.05	158.57	197.57	7804
24	100.80	47.00	224.37	77.71	771.68	169.46	216.46	8222
25	100.25	52.50	229.31	79.45	788.57	177.11	229.61	8509
26	99.70	58.00	234.25	81.19	805.43	185.01	243.01	8796

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	114.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	113.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	113.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	112.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	111.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	110.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	110.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	109.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	109.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	108.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	5918
14	107.27	0.00	13.19	3.26	50.23	50.23	50.23p	6425
15	106.54	0.00	26.38	7.91	95.29	95.29	95.29p	6932
16	106.36	0.00	29.44	8.99	105.75	105.75	105.75p	7050
17	105.93	0.00	37.23	11.74	132.37	132.37	132.37p	7349
18	105.50	0.00	45.03	14.49	159.01	147.84	147.84	7649
19	104.75	7.50	51.81	16.88	182.19	149.26	156.76	8168
20	104.00	15.00	58.62	19.28	205.43	150.46	165.46	8687

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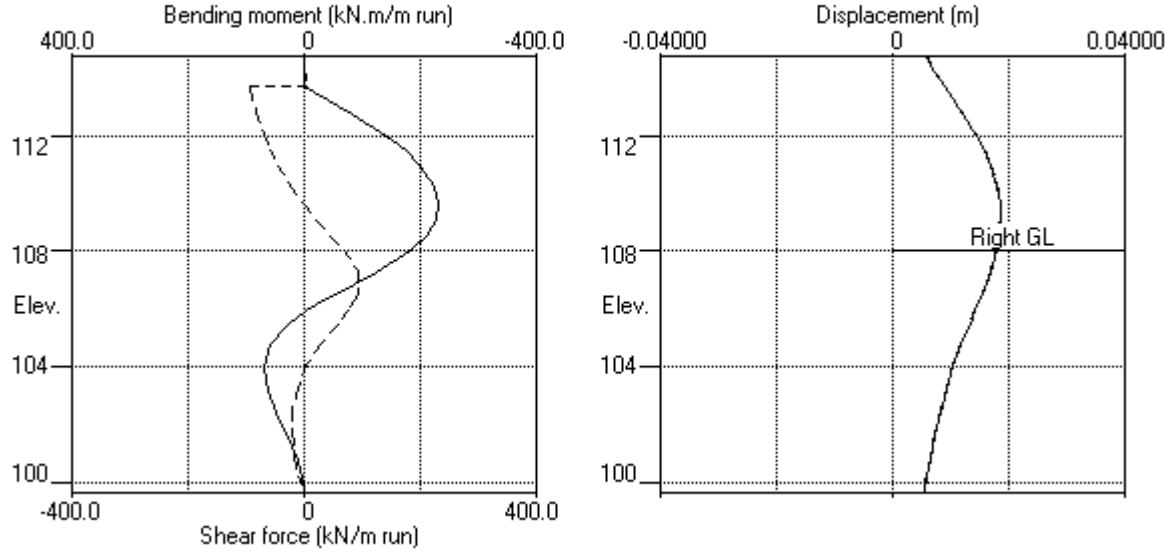
Stage No.4 Excavate to elevation 108.00 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press.	Vertic -al	Active limit	Passive limit	Earth pressure		
		kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m3
21	103.20	23.00	65.90	21.84	230.32	152.05	175.05	9241
22	102.40	31.00	73.22	24.42	255.31	154.16	185.16	9795
23	101.60	39.00	80.57	27.01	280.42	156.67	195.67	10349
24	100.80	47.00	87.96	29.62	305.66	159.22	206.22	10903
25	100.25	52.50	93.06	31.42	323.09	160.77	213.27	11284
26	99.70	58.00	98.18	33.22	340.60	162.02	220.02	11665

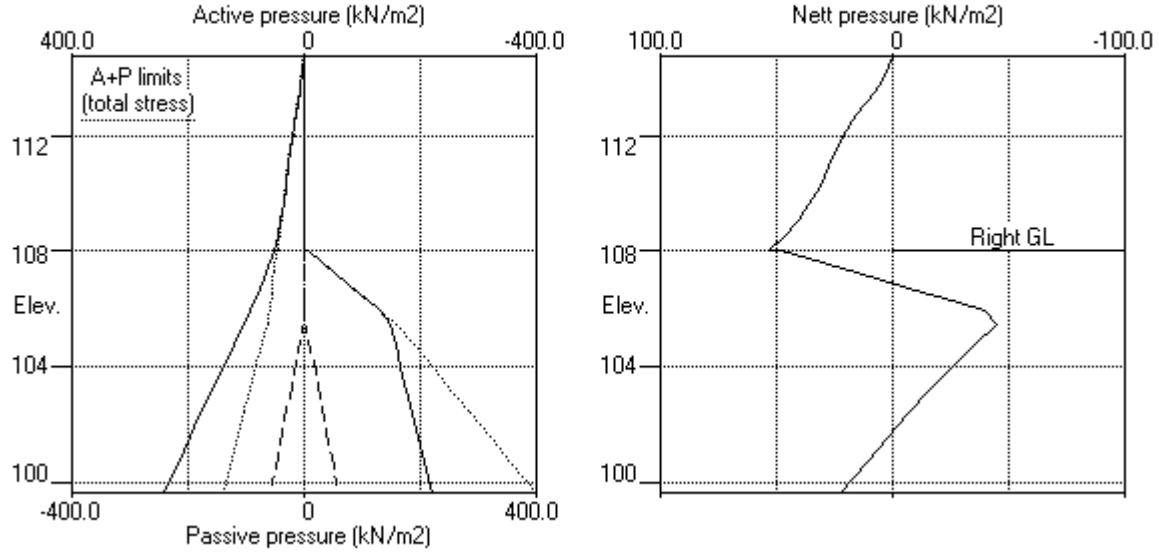
Note: 7.60a Soil pressure at active limit
132.37p Soil pressure at passive limit

Units: kN,m

Stage No.4 Excav. to elev. 108.00 on RIGHT side



Stage No.4 Excav. to elev. 108.00 on RIGHT side



Units: kN,m

Stage No. 6 Excavate to elevation 106.36 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
6	114.70	106.36		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	114.70	0.00	0.005	-3.59E-03	0.0	0.0		210168
2	114.20	4.56	0.007	-3.59E-03	1.1	0.2		210168
3	113.70	7.20	0.009	-3.59E-03	4.1	1.6	84.8	210168
		7.25	0.009	-3.59E-03	-80.7	1.6		
4	113.50	8.79	0.009	-3.59E-03	-79.1	-14.4		210168
5	112.75	15.83	0.012	-3.44E-03	-69.9	-68.1		210168
6	112.00	20.98	0.015	-3.11E-03	-56.1	-114.4		210168
7	111.47	23.53	0.016	-2.79E-03	-44.3	-140.6		210168
8	110.94	26.88	0.017	-2.41E-03	-30.9	-160.3		210168
9	110.27	31.45	0.019	-1.88E-03	-11.4	-174.0		210168
10	109.60	35.94	0.020	-1.33E-03	11.2	-173.6		210168
11	109.05	39.59	0.021	-8.92E-04	32.0	-161.5		210168
12	108.50	43.20	0.021	-5.01E-04	54.7	-137.5	122.0	210168
		43.20	0.021	-5.01E-04	-67.3	-137.5		
13	108.00	46.47	0.021	-1.40E-04	-44.9	-165.5		210168
14	107.27	51.24	0.021	4.70E-04	-9.1	-185.4		210168
15	106.54	55.98	0.020	1.10E-03	30.2	-178.0		210168
16	106.36	57.07	0.020	1.24E-03	39.8	-172.0		210168
		51.89	0.020	1.24E-03	39.8	-172.0		
17	105.93	28.08	0.020	1.57E-03	57.1	-150.8		210168
18	105.50	8.42	0.019	1.85E-03	65.0	-120.5		210168
19	104.75	-5.94	0.017	2.19E-03	65.9	-71.4		210168
20	104.00	-17.69	0.016	2.37E-03	57.0	-25.7		210168
21	103.20	-28.06	0.014	2.39E-03	38.7	11.8		210168
22	102.40	-36.97	0.012	2.31E-03	12.7	31.3		210168
23	101.60	-22.76	0.010	2.19E-03	-11.2	32.7		210168
24	100.80	0.57	0.008	2.10E-03	-20.1	16.5		210168
25	100.25	17.89	0.007	2.07E-03	-15.0	5.5		210168
26	99.70	36.55	0.006	2.06E-03	0.0	0.0		---

At elev. 113.70 Strut force = 84.8 kN/strut = 84.8 kN/m run
At elev. 108.50 Strut force = 122.0 kN/strut = 122.0 kN/m run

(continued)

Stage No.6 Excavate to elevation 106.36 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	4598
2	114.20	0.00	9.31	2.65	43.19	4.56	4.56	4598
3	113.70	0.00	20.63	5.88	95.72	7.20	7.20	4598
		0.00	20.63	5.89	75.67	7.25	7.25	4760
4	113.50	0.00	25.49	7.60	92.27	8.79	8.79	5095
5	112.75	0.00	42.89	13.73	151.72	15.83	15.83	6349
6	112.00	0.00	58.93	19.39	206.50	20.98	20.98	2629
7	111.47	0.00	69.71	23.19	243.32	23.53	23.53	2935
8	110.94	0.00	80.19	26.88	279.13	26.88	26.88a	3241
9	110.27	0.00	93.15	31.45	323.41	31.45	31.45a	3629
10	109.60	0.00	105.89	35.94	366.92	35.94	35.94a	4016
11	109.05	0.00	116.23	39.59	402.24	39.59	39.59a	4334
12	108.50	0.00	126.49	43.20	437.29	43.20	43.20a	4652
13	108.00	0.00	135.76	46.47	468.98	46.47	46.47a	4941
14	107.27	0.00	149.27	51.24	515.14	51.24	51.24a	5365
15	106.54	0.00	162.72	55.98	561.07	55.98	55.98a	5788
16	106.36	0.00	165.83	57.07	571.70	57.07	57.07a	5887
17	105.93	0.00	173.74	59.86	598.70	59.86	59.86a	6137
18	105.50	0.00	181.62	62.64	625.65	66.79	66.79	6387
19	104.75	7.50	188.52	65.07	649.22	75.53	83.03	6820
20	104.00	15.00	195.39	67.49	672.66	86.91	101.91	7254
21	103.20	23.00	202.67	70.06	697.55	101.28	124.28	7717
22	102.40	31.00	209.93	72.62	722.35	117.20	148.20	8179
23	101.60	39.00	217.16	75.17	747.05	134.14	173.14	8642
24	100.80	47.00	224.37	77.71	771.68	151.90	198.90	9104
25	100.25	52.50	229.31	79.45	788.57	164.69	217.19	9422
26	99.70	58.00	234.25	81.19	805.43	178.10	236.10	9740

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	114.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	113.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	113.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	112.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	111.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	110.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	110.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	109.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	109.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	108.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
14	107.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
15	106.54	0.00	0.00	0.00	0.00	0.00	0.00	0.0
16	106.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	6919
17	105.93	0.00	7.79	1.36	31.78	31.78	31.78p	7212
18	105.50	0.00	15.57	4.10	58.38	58.38	58.38p	7506
19	104.75	7.50	22.33	6.48	81.47	81.47	88.97p	8016
20	104.00	15.00	29.10	8.87	104.60	104.60	119.60p	8526

(continued)

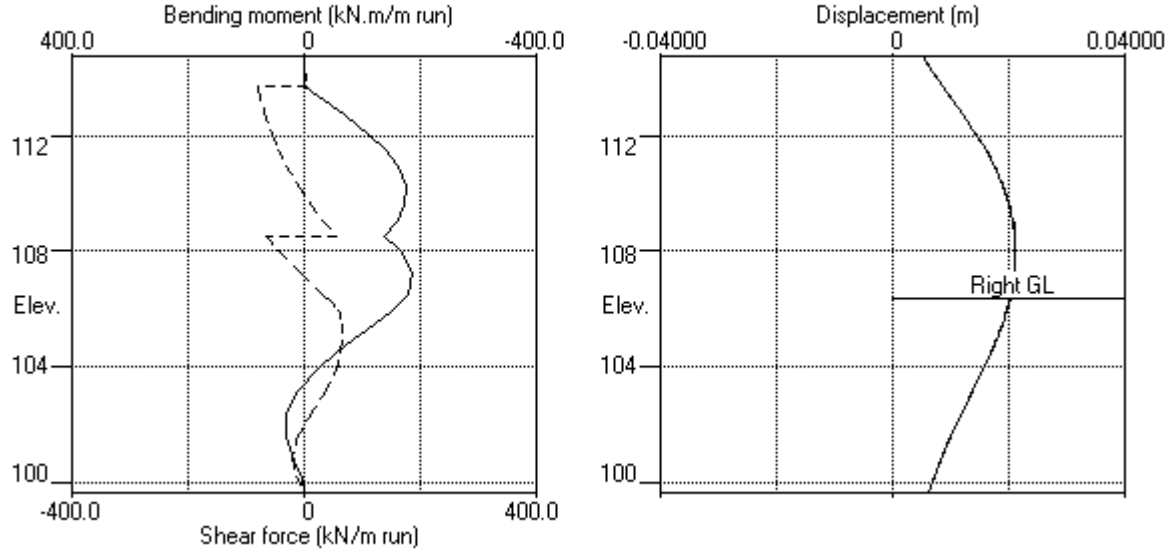
Stage No.6 Excavate to elevation 106.36 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	kN/m2	kN/m3
21	103.20	23.00	36.34	11.42	129.34	129.34	152.34p	9069
22	102.40	31.00	43.61	13.99	154.17	154.17	185.17p	9613
23	101.60	39.00	50.92	16.56	179.12	156.90	195.90	10157
24	100.80	47.00	58.26	19.15	204.20	151.33	198.33	10700
25	100.25	52.50	63.33	20.94	221.53	146.80	199.30	11074
26	99.70	58.00	68.42	22.73	238.94	141.55	199.55	11448

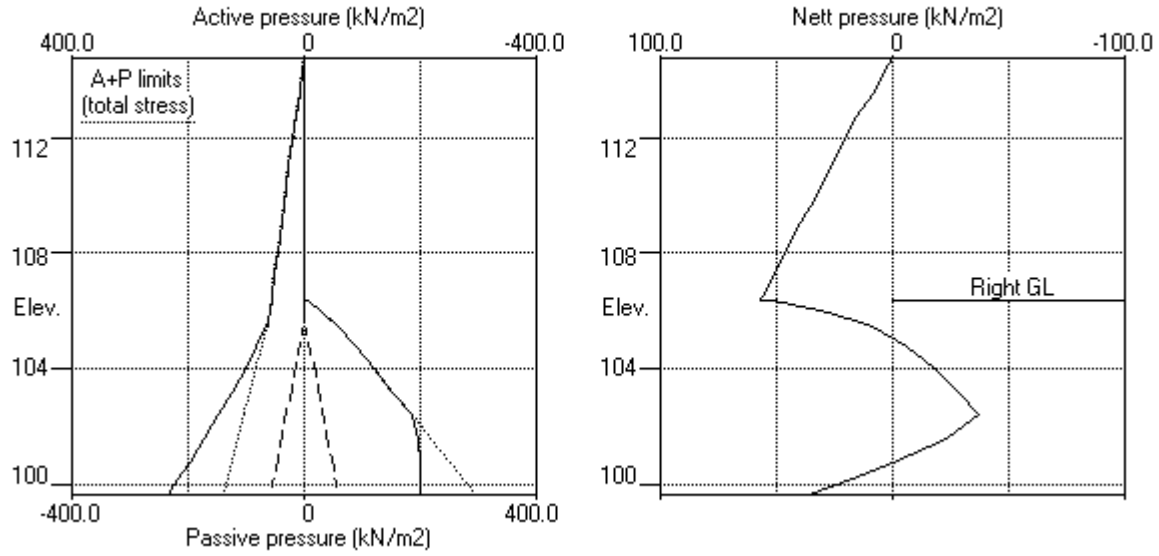
Note: 59.86a Soil pressure at active limit
185.17p Soil pressure at passive limit

Units: kN,m

Stage No.6 Excav. to elev. 106.36 on RIGHT side



Stage No.6 Excav. to elev. 106.36 on RIGHT side



Units: kN,m

Stage No. 13 Change EI of wall to 182637 kN.m2/m run
From elevation 114.70 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method
Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
13	114.70	106.36		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall
Analysis options
Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall
Limit State: Serviceability Limit State
Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	114.70	0.00	0.013	-1.28E-03	0.0	0.0		182637
2	114.20	4.28	0.014	-1.28E-03	1.1	0.1		182637
3	113.70	7.07	0.015	-1.28E-03	3.9	1.4		182637
		7.13	0.015	-1.28E-03	3.9	1.4		
4	113.50	9.17	0.015	-1.29E-03	5.5	2.4		182637
5	112.75	20.47	0.016	-1.32E-03	16.7	12.7		182637
6	112.00	31.25	0.017	-1.41E-03	36.0	33.1		182637
7	111.47	38.63	0.018	-1.54E-03	54.6	57.3		182637
8	110.94	45.82	0.019	-1.76E-03	76.9	92.3	277.5	182637
		45.82	0.019	-1.76E-03	-200.5	92.3		
9	110.27	54.87	0.020	-1.87E-03	-166.8	-31.0		182637
10	109.60	63.93	0.021	-1.58E-03	-127.0	-129.8		182637
11	109.05	71.33	0.022	-1.10E-03	-89.8	-189.8		182637
12	108.50	78.70	0.022	-4.85E-04	-48.5	-228.2		182637
13	108.00	85.39	0.022	1.53E-04	-7.5	-242.6		182637
14	107.27	95.15	0.022	1.08E-03	58.6	-224.6		182637
15	106.54	104.89	0.021	1.83E-03	131.9	-155.7	117.1	182637
		104.89	0.021	1.83E-03	14.8	-155.7		
16	106.36	107.15	0.020	1.97E-03	32.8	-151.5		182637
		101.97	0.020	1.97E-03	32.8	-151.5		
17	105.93	19.37	0.020	2.29E-03	59.0	-129.8		182637
18	105.50	10.17	0.018	2.56E-03	65.4	-98.8		182637
19	104.75	-5.46	0.016	2.85E-03	67.2	-48.8		182637
20	104.00	-20.95	0.014	2.95E-03	57.3	-2.2		182637
21	103.20	-34.08	0.012	2.88E-03	35.3	32.3		182637
22	102.40	-33.01	0.010	2.71E-03	8.4	47.5		182637
23	101.60	-29.56	0.008	2.51E-03	-16.6	44.7		182637

(continued)

Stage No.13 Change EI of wall to 182637 kN.m2/m run
From elevation 114.70 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
24	100.80	2.39	0.006	2.36E-03	-27.5	21.9		182637
25	100.25	25.56	0.004	2.32E-03	-19.8	7.1		182637
26	99.70	46.39	0.003	2.31E-03	0.0	0.0		---
At elev. 110.94 Strut force =			416.2 kN/strut =			277.5 kN/m run		
At elev. 106.54 Strut force =			117.1 kN/strut =			117.1 kN/m run		

Node no.	Y coord	LEFT side ------- Effective stresses ------- Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	2142
2	114.20	0.00	9.31	2.65	43.19	4.28	4.28	2142
3	113.70	0.00	20.63	5.88	95.72	7.07	7.07	2142
		0.00	20.63	5.89	75.67	7.13	7.13	2322
4	113.50	2.00	23.69	6.96	86.12	7.17	9.17	2485
5	112.75	9.50	34.34	10.72	122.51	10.97	20.47	3096
6	112.00	17.00	43.63	13.99	154.23	14.25	31.25	3708
7	111.47	22.30	49.64	16.11	174.76	16.33	38.63	4140
8	110.94	27.60	55.35	18.12	194.27	18.22	45.82	4573
9	110.27	34.30	62.28	20.57	217.95	20.57	54.87a	5553
10	109.60	41.00	68.99	22.93	240.86	22.93	63.93a	6146
11	109.05	46.50	74.38	24.83	259.27	24.83	71.33a	6632
12	108.50	52.00	79.69	26.70	277.42	26.70	78.70a	7119
13	108.00	57.00	84.46	28.39	293.72	28.39	85.39a	7561
14	107.27	64.32	91.38	30.83	317.36	30.83	95.15a	8209
15	106.54	71.65	98.23	33.24	340.77	33.24	104.89a	8857
16	106.36	73.35	99.82	33.80	346.17	33.80	107.15a	9008
17	105.93	77.67	103.83	35.21	359.88	35.29	112.96	7880
18	105.50	82.00	107.82	36.62	373.54	36.96	118.96	8202
19	104.75	89.50	114.72	39.06	397.10	39.82	129.32	8758
20	104.00	97.00	121.59	41.47	420.54	42.58	139.58	9315
21	103.20	105.00	128.87	44.04	445.44	48.95	153.95	9909
22	102.40	113.00	136.13	46.60	470.23	69.80	182.80	10503
23	101.60	121.00	143.36	49.15	494.93	91.29	212.29	11097
24	100.80	129.00	150.57	51.69	519.56	113.33	242.33	11691
25	100.25	134.50	155.51	53.44	536.45	129.01	263.51	12100
26	99.70	140.00	160.45	55.18	553.31	143.47	283.47	111541

Node no.	Y coord	RIGHT side ------- Effective stresses ------- Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	114.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	114.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	113.70	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	113.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	112.75	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	111.47	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	110.94	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	110.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0

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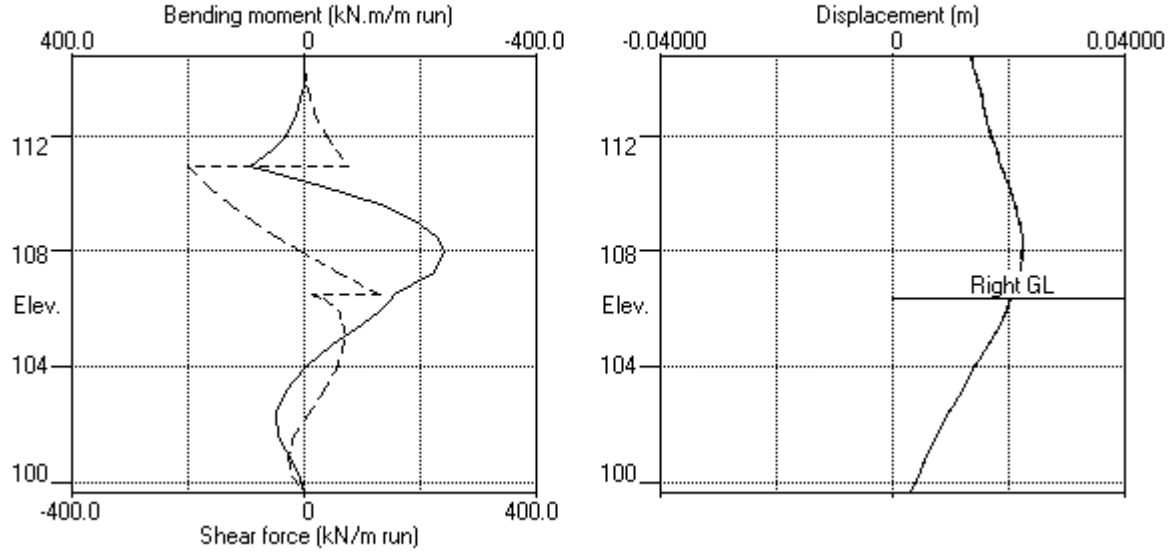
Stage No.13 Change EI of wall to 182637 kN.m2/m run
From elevation 114.70 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	RIGHT side Water press. kN/m2	Effective stresses Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
10	109.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	109.05	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	108.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
14	107.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
15	106.54	0.00	0.00	0.00	0.00	0.00	0.00	0.0
16	106.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	69969
17	105.93	77.67	3.51	0.00	17.16	15.92	93.60	7880
18	105.50	82.00	7.40	1.22	30.47	26.79	108.79	8202
19	104.75	89.50	14.16	3.60	53.54	45.28	134.78	8758
20	104.00	97.00	20.92	5.98	76.63	63.52	160.52	9315
21	103.20	105.00	28.13	8.53	101.30	83.03	188.03	9909
22	102.40	113.00	35.37	11.08	126.00	102.80	215.80	10503
23	101.60	121.00	42.61	13.63	150.75	120.86	241.86	11097
24	100.80	129.00	49.88	16.19	175.57	110.94	239.94	11691
25	100.25	134.50	54.88	17.96	192.66	103.45	237.95	12100
26	99.70	140.00	59.89	19.73	209.79	97.08	237.08	111541

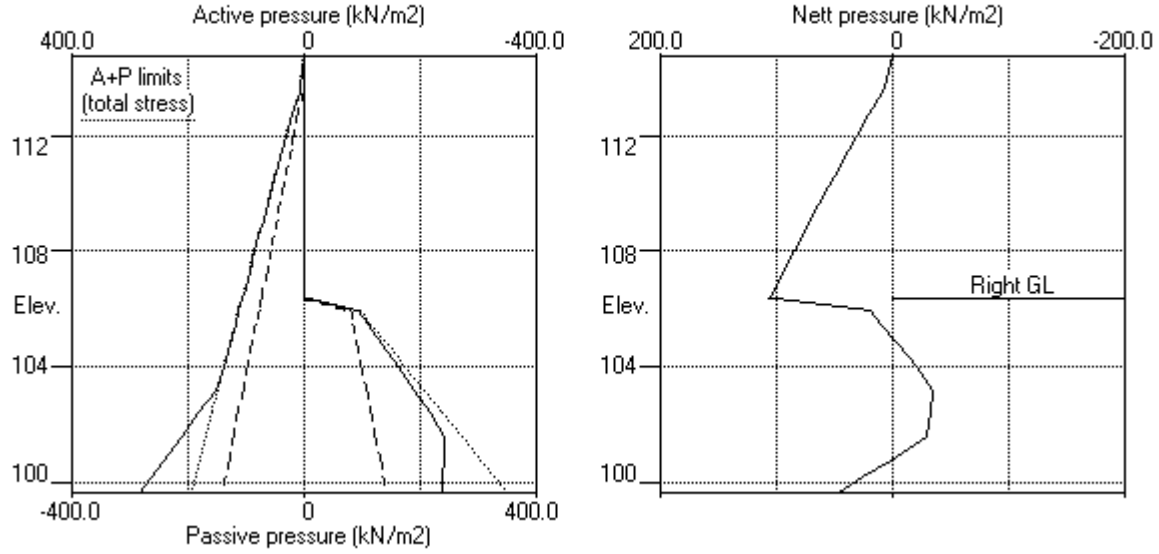
Note: 107.15a Soil pressure at active limit
5.18p Soil pressure at passive limit

Units: kN,m

Stage No.13 Change EI of wall to 182637kN.m2/m run



Stage No.13 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Summary of results

LIMIT STATE PARAMETERS

Limit State: Serviceability Limit State
All loads and soil strengths are unfactored

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70: Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000: Toe elev.	Wall Penetr -ation	Direction of failure
1	114.70	114.70	Cant.	Conditions not suitable for FoS calc.				
2	114.70	113.50	Cant.	5.824	100.99	112.62	0.88	L to R
3	114.70	113.50		No analysis at this stage				
4	114.70	108.00	113.70	1.877	n/a	105.50	2.50	L to R
5	114.70	108.00		No analysis at this stage				

All remaining stages have more than one strut - FoS calculation n/a

Units: kN,m

Summary of results

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Bending moment, shear force and displacement envelopes

Node no.	Y coord	Displacement		Bending moment Calculated		Bending moment Factored		Shear force Calculated		Shear force Factored	
		max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
		m	m	kN.m/m		kN.m/m		kN/m	kN/m	kN/m	kN/m
1	114.70	0.014	0.000	0	0	0	0	0	0	0	0
2	114.20	0.014	0.000	0	-0	0	-0	1	-1	2	-1
3	113.70	0.015	0.000	2	-1	2	-1	5	-95	6	-128
4	113.50	0.015	0.000	2	-18	3	-24	6	-94	7	-126
5	112.75	0.016	0.000	13	-83	17	-111	17	-85	22	-114
6	112.00	0.017	0.000	33	-140	45	-189	36	-71	49	-96
7	111.47	0.018	0.000	57	-174	77	-235	55	-59	74	-79
8	110.94	0.019	0.000	92	-201	125	-272	77	-207	104	-279
9	110.27	0.020	0.000	17	-224	22	-302	1	-173	1	-233
10	109.60	0.021	0.000	17	-233	23	-314	11	-133	15	-180
11	109.05	0.022	0.000	16	-229	22	-310	32	-96	43	-129
12	108.50	0.022	0.000	15	-242	21	-327	55	-67	74	-91
13	108.00	0.022	0.000	14	-260	19	-350	68	-45	92	-61
14	107.27	0.022	0.000	13	-245	17	-331	92	-9	124	-12
15	106.54	0.021	0.000	11	-181	14	-244	132	-3	178	-3
16	106.36	0.020	0.000	10	-175	14	-236	89	-3	120	-3
17	105.93	0.020	0.000	9	-151	12	-204	75	-2	102	-3
18	105.50	0.019	0.000	28	-121	38	-163	74	-2	100	-3
19	104.75	0.017	0.000	58	-71	79	-96	75	-2	101	-3
20	104.00	0.016	0.000	68	-26	92	-35	64	-2	86	-3
21	103.20	0.014	0.000	64	0	86	0	40	-12	54	-17
22	102.40	0.012	0.000	49	0	66	0	13	-21	17	-29
23	101.60	0.010	0.000	46	0	62	0	0	-23	0	-31
24	100.80	0.008	0.000	23	0	31	0	0	-28	0	-38
25	100.25	0.007	0.000	8	0	10	0	0	-21	0	-28
26	99.70	0.006	0.000	0	-0	0	-0	0	0	0	0

Summary of results (continued)

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Maximum and minimum bending moment and shear force at each stage

Stage	Bending moment						Shear force					
	Calculated				Factored		Calculated				Factored	
no.	max.	elev.	min.	elev.	max.	min.	max.	elev.	min.	elev.	max.	min.
	kN.m/m		kN.m/m		kN.m/m		kN/m		kN/m		kN/m	kN/m
1	2	103.20	-7	110.94	2	-10	2	108.00	-3	112.75	3	-5
2	17	109.60	-0	99.70	23	-0	6	112.75	-3	106.54	9	-3
3	No calculation at this stage											
4	68	104.00	-233	109.60	92	-314	92	106.54	-95	113.70	124	-128
5	No calculation at this stage											
6	33	101.60	-185	107.27	44	-250	66	104.75	-81	113.70	89	-109
7	No calculation at this stage											
8	No calculation at this stage											
9	34	102.40	-234	108.50	47	-316	100	106.54	-83	110.94	135	-112
10	64	110.94	-194	107.27	86	-262	64	104.75	-140	110.94	86	-189
11	No calculation at this stage											
12	91	110.94	-260	108.00	123	-350	126	106.54	-207	110.94	170	-279
13	92	110.94	-243	108.00	125	-327	132	106.54	-201	110.94	178	-271

Maximum and minimum displacement at each stage

Stage	Displacement				Stage description
no.	maximum	elev.	minimum	elev.	
	m		m		
1	0.002	111.47	0.000	114.70	Apply surcharge no.1 at elev. 114.70
2	0.008	114.70	0.000	114.70	Excav. to elev. 113.50 on RIGHT side
3	No calculation at this stage				Install strut no.1 at elev. 113.70
4	0.019	109.05	0.000	114.70	Excav. to elev. 108.00 on RIGHT side
5	No calculation at this stage				Install strut no.4 at elev. 108.50
6	0.021	108.00	0.000	114.70	Excav. to elev. 106.36 on RIGHT side
7	No calculation at this stage				Install strut no.2 at elev. 106.54
8	No calculation at this stage				Install strut no.3 at elev. 110.94
9	0.022	108.00	0.000	114.70	Remove strut no.4 at elev. 108.50
10	0.021	108.00	0.000	114.70	Remove strut no.1 at elev. 113.70
11	No calculation at this stage				Apply surcharge no.3 at elev. 106.36
12	0.022	108.00	0.000	114.70	Apply water pressure profile no.3
13	0.022	108.00	0.000	114.70	Change EI of wall to 182637kN.m2/m run

Summary of results (continued)

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

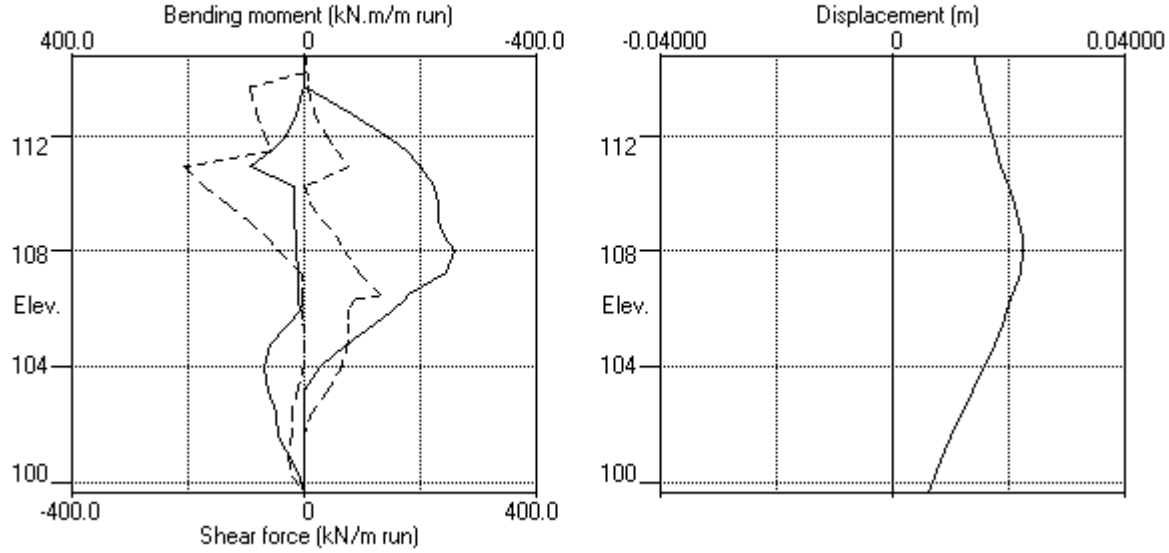
Strut forces at each stage (horizontal components)

Stage no.	Strut no. 1 at elev. 113.70			Strut no. 2 at elev. 106.54			Strut no. 3 at elev. 110.94		
	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut	--Calculated-- kN per m run	kN per strut	Factored kN per strut
4	98	98	132	---	---	---	---	---	---
6	85	85	114	---	---	---	---	---	---
9	75	75	101	82	82	110	63	95	128
10	---	---	---	30	30	41	189	283	383
12	---	---	---	102	102	138	283	424	573
13	---	---	---	117	117	158	277	416	562

Stage no.	Strut no. 4 at elev. 108.50		
	--Calculated-- kN per m run	kN per strut	Factored kN per strut
6	122	122	165

Units: kN,m

Bending moment, shear force, displacement envelopes



Units: kN,m

INPUT DATA

SOIL PROFILE

Stratum no.	Elevation of top of stratum	Soil types Left side	Right side
1	113.00	1 Made Ground	1 Made Ground
2	112.00	3 Claygate-drained	3 Claygate-drained

SOIL PROPERTIES

No.	Soil type Description (Datum elev.)	Bulk density kN/m3	Young's Modulus Eh,kN/m2 (dEh/dy)	At rest coeff. Ko (dKo/dy)	Consol state. NC/OC (Nu)	Active limit Ka (Kac)	Passive limit Kp (Kpc)	Cohesion kN/m2 (dc/dy)
1	Made Ground	17.00	10000	0.500	OC (0.200)	0.285 (0.000)	4.639 (0.000)	
2	Bagshot Formation	18.00a 19.00b	34000	0.455	OC (0.200)	0.250 (0.000)	5.664 (0.000)	
3	Claygate-.. (112.00)	18.00a 19.00b	7400 (2600)	1.000	OC (0.200)	0.353 (1.388)	3.416 (5.182)	1.000d

Note: (a) and (b) are Bulk Densities above and below the water table

Additional soil parameters associated with Ka and Kp

No.	Soil type Description	--- parameters for Ka --- Soil friction angle	Wall adhesion coeff.	Back-fill angle	--- parameters for Kp --- Soil friction angle	Wall adhesion coeff.	Back-fill angle
1	Made Ground	30.00	0.634	0.00	30.00	0.634	0.00
2	Bagshot Formation	33.00	0.626	0.00	33.00	0.626	0.00
3	Claygate-drained	25.00	0.645	0.00	25.00	0.645	0.00

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Left side	Right side
Initial water table elevation	105.50	105.50

Automatic water pressure balancing at toe of wall : Yes

Water press. profile no.	Left side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	Right side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	
1	1	111.00	111.00	0.0	1	111.00	111.00	0.0	
2	1	110.11	110.11	0.0	1	107.00	107.00	0.0	
					2	107.00	117.00	100.0	
3	1	112.00	112.00	0.0	1	106.36	106.36	0.0	MC+WC
					2	106.36	112.00	56.4	

WALL PROPERTIES

Type of structure = Fully Embedded Wall
Elevation of toe of wall = 99.70
Maximum finite element length = 0.80 m
Youngs modulus of wall E = 2.1000E+08 kN/m2
Moment of inertia of wall I = 1.0008E-03 m4/m run
E.I = 210168 kN.m2/m run
Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	111.50	1.00	1.000000	45000	1.00	0.00	0	No
2	106.54	1.00	0.175000	2.100E+07	10.00	0.00	0	No
3	111.13	1.50	0.175000	2.100E+07	10.00	0.00	0	No
4	110.50	1.00	1.000000	45000	1.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge ----- kN/m2 ----- Near edge	Far edge	Equiv. soil type	Partial factor/ Category
1	113.00	1.00(L)	100.00	30.00	20.00	=	N/A	1.00 Var
2	107.00	-0.00(R)	100.00	30.00	100.00	=	N/A	1.00 -
3	106.36	-0.00(R)	100.00	30.00	56.40	=	N/A	1.00 -

Note: L = Left side, R = Right side
Limit State Categories P/U = Permanent Unfavourable
P/F = Permanent Favourable
Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 113.00
2	Excavate to elevation 111.00 on RIGHT side
3	Install strut or anchor no.1 at elevation 111.50
4	Excavate to elevation 106.36 on RIGHT side
5	Install strut or anchor no.2 at elevation 106.54
6	Install strut or anchor no.3 at elevation 111.13
7	Remove strut or anchor no.1 at elevation 111.50
8	Apply surcharge no.3 at elevation 106.36 No analysis at this stage
9	Apply water pressure profile no.3 (Mod. Conserv.)
10	Change EI of wall to 182637 kN.m2/m run From elevation 113.00 to 99.70 Yield moment not defined Allow wall to relax with new modulus value

FACTORS OF SAFETY and ANALYSIS OPTIONS

Limit State options: Serviceability Limit State
All loads and soil strengths are unfactored

Stability analysis:
Method of analysis - Strength Factor method
Factor on soil strength for calculating wall depth = 1.00

Parameters for undrained strata:
Minimum equivalent fluid density = 5.00 kN/m3
Maximum depth of water filled tension crack = 0.00 m

Bending moment and displacement calculation:
Method - Subgrade reaction model using Influence Coefficients
Open Tension Crack analysis? - No
Non-linear Modulus Parameter (L) = 15.00 m

Boundary conditions:
Length of wall (normal to plane of analysis) = 100.00 m

Width of excavation on Left side of wall = 30.00 m
Width of excavation on Right side of wall = 30.00 m

Distance to rigid boundary on Left side = 30.00 m
Distance to rigid boundary on Right side = 30.00 m

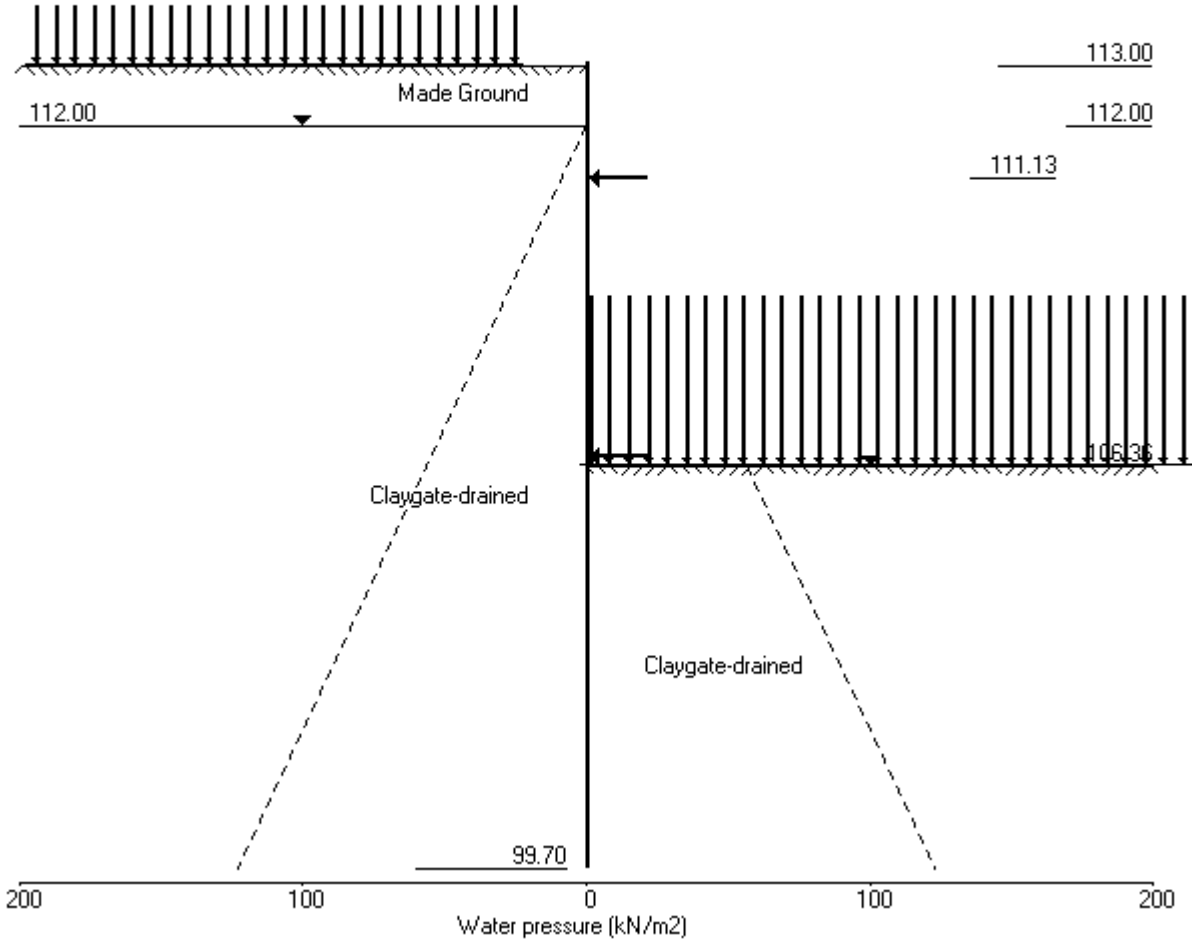
OUTPUT OPTIONS

Stage no.	Stage description	Output options: Displacement, Bending mom., Shear force	Active, Passive pressures	Graph. output
1	Apply surcharge no.1 at elev. 113.00	No	No	No
2	Excav. to elev. 111.00 on RIGHT side	No	No	No
3	Install strut no.1 at elev. 111.50	No	No	No
4	Excav. to elev. 106.36 on RIGHT side	No	No	No
5	Install strut no.2 at elev. 106.54	No	No	No
6	Install strut no.3 at elev. 111.13	No	No	No
7	Remove strut no.1 at elev. 111.50	No	No	No
8	Apply surcharge no.3 at elev. 106.36	No	No	No
9	Apply water pressure profile no.3	No	No	No
10	Change EI of wall to 182637kN.m2/m run	No	No	No
*	Summary output	Yes	-	Yes

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Units: kN,m

Stage No.10 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Stage No. 2 Excavate to elevation 111.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	G.L. Act.	G.L. Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
2	113.00	111.00	Cant.	3.419	100.80	109.28	1.72	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	113.00	0.00	0.008	1.26E-03	0.0	0.0		210168
2	112.50	2.65	0.008	1.26E-03	0.7	0.2		210168
3	112.00	5.88	0.007	1.26E-03	2.8	1.0		210168
		6.70	0.007	1.26E-03	2.8	1.0		
4	111.50	15.76	0.006	1.25E-03	8.4	3.6		210168
5	111.13	22.60	0.006	1.24E-03	15.5	8.0		210168
6	111.00	25.03	0.006	1.24E-03	18.6	10.2		210168
		19.85	0.006	1.24E-03	18.6	10.2		
7	110.30	-9.91	0.005	1.18E-03	22.1	25.7		210168
8	109.60	-13.12	0.004	1.07E-03	14.0	39.4		210168
9	108.80	-10.29	0.003	9.11E-04	4.7	46.5		210168
10	108.00	-7.16	0.003	7.33E-04	-2.3	46.9		210168
11	107.27	-4.42	0.002	5.76E-04	-6.6	43.3		210168
12	106.54	-2.06	0.002	4.35E-04	-8.9	37.3		210168
13	106.36	-1.58	0.002	4.06E-04	-9.2	35.8		210168
14	105.93	-0.48	0.002	3.37E-04	-9.7	31.6		210168
15	105.50	0.41	0.001	2.76E-04	-9.7	27.4		210168
16	104.75	1.52	0.001	1.91E-04	-9.0	20.2		210168
17	104.00	2.11	0.001	1.30E-04	-7.6	13.9		210168
18	103.20	2.30	0.001	8.79E-05	-5.9	8.5		210168
19	102.40	2.16	0.001	6.30E-05	-4.1	4.5		210168
20	101.60	1.82	0.001	5.06E-05	-2.5	2.0		210168
21	100.80	1.40	0.001	4.58E-05	-1.2	0.6		210168
22	100.25	1.09	0.001	4.49E-05	-0.5	0.1		210168
23	99.70	0.79	0.001	4.47E-05	-0.0	-0.0		---

(continued)

Stage No.2 Excavate to elevation 111.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	2305
2	112.50	0.00	9.31	2.65	43.19	2.65	2.65a	2305
3	112.00	0.00	20.63	5.88	95.72	5.88	5.88a	2305
		0.00	20.63	5.89	75.67	6.70	6.70	1706
4	111.50	0.00	32.64	10.12	116.67	15.76	15.76	2006
5	111.13	0.00	41.11	13.10	145.62	22.60	22.60	2228
6	111.00	0.00	44.00	14.12	155.50	25.03	25.03	2305
7	110.30	0.00	58.93	19.39	206.50	38.32	38.32	2725
8	109.60	0.00	73.10	24.38	254.90	51.94	51.94	3145
9	108.80	0.00	88.73	29.89	308.31	67.77	67.77	3624
10	108.00	0.00	104.00	35.27	360.46	83.69	83.69	4104
11	107.27	0.00	117.77	40.13	407.52	98.18	98.18	4543
12	106.54	0.00	131.41	44.94	454.11	112.49	112.49	4982
13	106.36	0.00	134.56	46.05	464.87	115.78	115.78	5084
14	105.93	0.00	142.55	48.87	492.17	124.09	124.09	5343
15	105.50	0.00	150.52	51.67	519.38	132.30	132.30	5602
16	104.75	7.50	157.53	54.14	543.32	139.58	147.08	6052
17	104.00	15.00	164.48	56.60	567.08	146.63	161.63	6501
18	103.20	23.00	171.85	59.19	592.25	153.94	176.94	6981
19	102.40	31.00	179.17	61.78	617.27	161.10	192.10	7461
20	101.60	39.00	186.46	64.35	642.18	168.17	207.17	7940
21	100.80	47.00	193.72	66.91	666.98	175.21	222.21	8420
22	100.25	52.50	198.70	68.66	683.99	180.03	232.53	8749
23	99.70	58.00	203.67	70.41	700.95	184.86	242.86	9079

RIGHT side

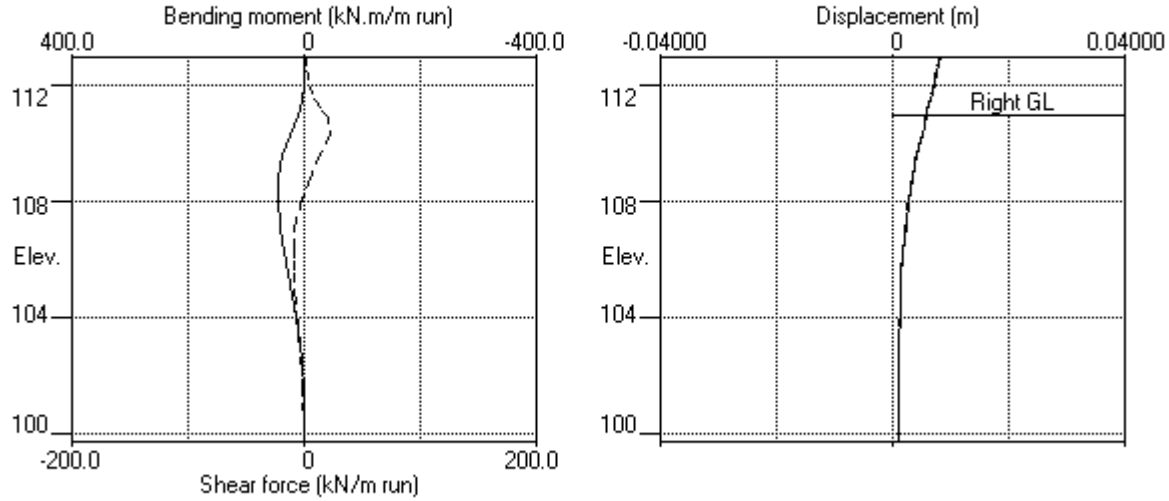
Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	112.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	111.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	2789
7	110.30	0.00	12.60	3.05	48.23	48.23	48.23p	3297
8	109.60	0.00	25.20	7.50	91.28	65.06	65.06	3804
9	108.80	0.00	39.61	12.57	140.48	78.06	78.06	4385
10	108.00	0.00	54.01	17.65	189.71	90.85	90.85	4965
11	107.27	0.00	67.21	22.31	234.80	102.61	102.61	5496
12	106.54	0.00	80.42	26.96	279.91	114.55	114.55	6027
13	106.36	0.00	83.48	28.04	290.38	117.36	117.36	6150
14	105.93	0.00	91.28	30.79	317.03	124.57	124.57	6464
15	105.50	0.00	99.09	33.54	343.69	131.89	131.89	6778
16	104.75	7.50	105.88	35.94	366.88	138.06	145.56	7322
17	104.00	15.00	112.68	38.33	390.11	144.52	159.52	7865
18	103.20	23.00	119.94	40.89	414.93	151.64	174.64	8446
19	102.40	31.00	127.22	43.46	439.79	158.95	189.95	9026
20	101.60	39.00	134.51	46.03	464.69	166.36	205.36	9606
21	100.80	47.00	141.81	48.61	489.64	173.81	220.81	10186
22	100.25	52.50	146.84	50.38	506.82	178.94	231.44	10585
23	99.70	58.00	151.88	52.15	524.03	184.08	242.08	10984

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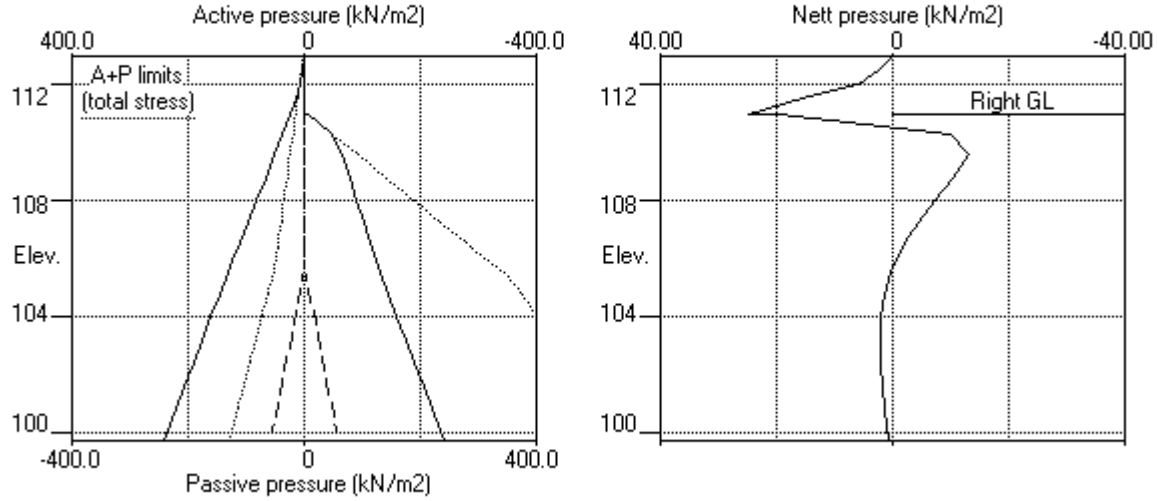
Stage No.2 Excavate to elevation 111.00 on RIGHT side
Note: 5.88a Soil pressure at active limit
48.23p Soil pressure at passive limit

Units: kN,m

Stage No.2 Excav. to elev. 111.00 on RIGHT side



Stage No.2 Excav. to elev. 111.00 on RIGHT side



Units: kN,m

Stage No. 4 Excavate to elevation 106.36 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
4	113.00	106.36	111.50	1.492	n/a	103.47	2.90	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	113.00	0.00	0.004	-4.02E-03	0.0	0.0		210168
2	112.50	20.97	0.006	-4.02E-03	5.2	0.2		210168
3	112.00	5.88	0.008	-4.02E-03	12.0	5.6		210168
		6.17	0.008	-4.02E-03	12.0	5.6		
4	111.50	12.00	0.010	-4.05E-03	16.5	12.7	142.9	210168
		12.00	0.010	-4.05E-03	-126.4	12.7		
5	111.13	15.84	0.011	-4.03E-03	-121.3	-33.1		210168
6	111.00	17.10	0.012	-4.00E-03	-119.1	-48.7		210168
7	110.30	23.21	0.014	-3.71E-03	-105.0	-126.8		210168
8	109.60	28.53	0.017	-3.18E-03	-86.9	-192.6		210168
9	108.80	34.34	0.019	-2.33E-03	-61.8	-251.5		210168
10	108.00	40.68	0.020	-1.30E-03	-31.8	-288.6		210168
11	107.27	47.71	0.021	-2.84E-04	0.6	-299.9		210168
12	106.54	56.55	0.021	7.35E-04	38.8	-285.5		210168
13	106.36	58.92	0.021	9.63E-04	48.6	-278.1		210168
		53.73	0.021	9.63E-04	48.6	-278.1		
14	105.93	33.73	0.020	1.50E-03	67.5	-252.7		210168
15	105.50	14.58	0.019	1.99E-03	78.0	-220.9		210168
16	104.75	-0.29	0.018	2.67E-03	83.3	-159.9		210168
17	104.00	-12.74	0.015	3.13E-03	78.4	-99.1		210168
18	103.20	-23.69	0.013	3.40E-03	63.9	-42.3		210168
19	102.40	-32.70	0.010	3.48E-03	41.3	-0.6		210168
20	101.60	-40.24	0.007	3.45E-03	12.1	20.1		210168
21	100.80	-21.54	0.005	3.37E-03	-12.6	20.5		210168
22	100.25	-0.51	0.003	3.33E-03	-18.6	10.3		210168
23	99.70	68.31	0.001	3.32E-03	0.0	-0.0		---

At elev. 111.50 Strut force = 142.9 kN/strut = 142.9 kN/m run

(continued)

Stage No.4 Excavate to elevation 106.36 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	8646
2	112.50	0.00	9.31	2.65	43.19	20.97	20.97	8646
3	112.00	0.00	20.63	5.88	95.72	5.88	5.88a	1361
		0.00	20.63	5.89	75.67	6.17	6.17	1007
4	111.50	0.00	32.64	10.12	116.67	12.00	12.00	1184
5	111.13	0.00	41.11	13.10	145.62	15.84	15.84	1315
6	111.00	0.00	44.00	14.12	155.50	17.10	17.10	1361
7	110.30	0.00	58.93	19.39	206.50	23.21	23.21	1608
8	109.60	0.00	73.10	24.38	254.90	28.53	28.53	1856
9	108.80	0.00	88.73	29.89	308.31	34.34	34.34	2139
10	108.00	0.00	104.00	35.27	360.46	40.68	40.68	2422
11	107.27	0.00	117.77	40.13	407.52	47.71	47.71	2681
12	106.54	0.00	131.41	44.94	454.11	56.55	56.55	2940
13	106.36	0.00	134.56	46.05	464.87	58.92	58.92	3000
14	105.93	0.00	142.55	48.87	492.17	65.51	65.51	3153
15	105.50	0.00	150.52	51.67	519.38	72.95	72.95	3306
16	104.75	7.50	157.53	54.14	543.32	81.16	88.66	3572
17	104.00	15.00	164.48	56.60	567.08	91.83	106.83	3837
18	103.20	23.00	171.85	59.19	592.25	105.60	128.60	4120
19	102.40	31.00	179.17	61.78	617.27	121.37	152.37	4403
20	101.60	39.00	186.46	64.35	642.18	138.71	177.71	4686
21	100.80	47.00	193.72	66.91	666.98	157.34	204.34	4969
22	100.25	52.50	198.70	68.66	683.99	170.86	223.36	5164
23	99.70	58.00	203.67	70.41	700.95	208.17	266.17	810817

RIGHT side

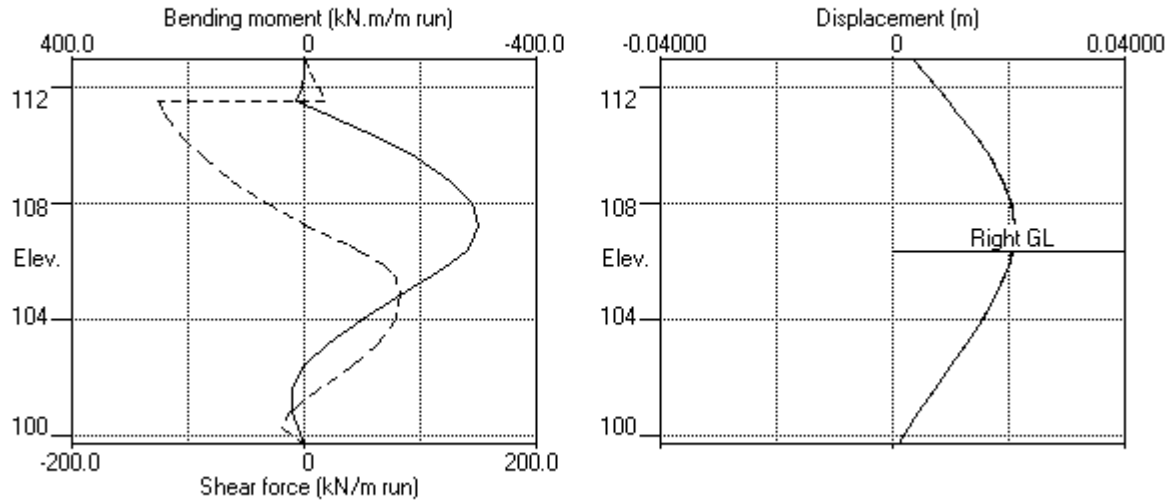
Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	112.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	111.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	110.30	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	109.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	108.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	107.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	106.54	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	106.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	4364
14	105.93	0.00	7.79	1.36	31.78	31.78	31.78p	4587
15	105.50	0.00	15.57	4.10	58.38	58.38	58.38p	4810
16	104.75	7.50	22.33	6.48	81.46	81.46	88.96p	5196
17	104.00	15.00	29.09	8.87	104.57	104.57	119.57p	5581
18	103.20	23.00	36.33	11.42	129.29	129.29	152.29p	5993
19	102.40	31.00	43.58	13.98	154.07	154.07	185.07p	6405
20	101.60	39.00	50.87	16.54	178.95	178.95	217.95p	6817
21	100.80	47.00	58.18	19.12	203.93	178.88	225.88	7228
22	100.25	52.50	63.23	20.90	221.17	171.38	223.88	7511
23	99.70	58.00	68.29	22.69	238.48	139.87	197.87	810817

(continued)

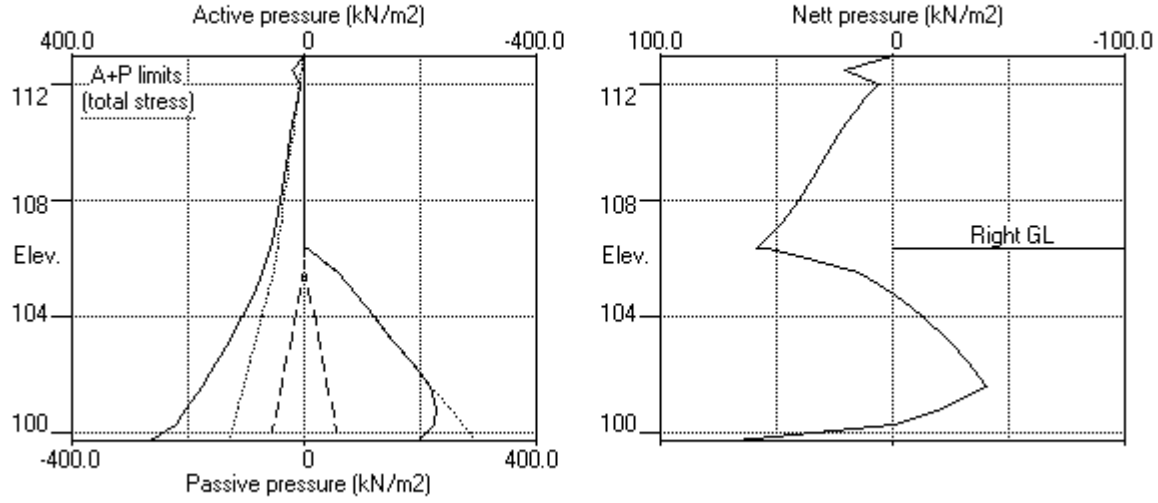
Stage No.4 Excavate to elevation 106.36 on RIGHT side
Note: 5.88a Soil pressure at active limit
217.95p Soil pressure at passive limit

Units: kN,m

Stage No.4 Excav. to elev. 106.36 on RIGHT side



Stage No.4 Excav. to elev. 106.36 on RIGHT side



Units: kN,m

Stage No. 10 Change EI of wall to 182637 kN.m2/m run
From elevation 113.00 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method
Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
10	113.00	106.36		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall
Analysis options
Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall
Limit State: Serviceability Limit State
Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	113.00	0.00	0.005	-3.85E-03	0.0	0.0		182637
2	112.50	18.35	0.006	-3.85E-03	4.6	0.2		182637
3	112.00	7.35	0.008	-3.86E-03	11.0	4.9		182637
		6.97	0.008	-3.86E-03	11.0	4.9		
4	111.50	14.25	0.010	-3.88E-03	16.3	11.7		182637
5	111.13	20.38	0.012	-3.91E-03	22.7	19.0	175.6	182637
		20.38	0.012	-3.91E-03	-152.9	19.0		
6	111.00	22.72	0.012	-3.92E-03	-150.1	-0.8		182637
7	110.30	34.72	0.015	-3.73E-03	-129.9	-99.5		182637
8	109.60	45.78	0.017	-3.20E-03	-101.8	-180.1		182637
9	108.80	57.67	0.020	-2.27E-03	-60.4	-245.6		182637
10	108.00	70.31	0.021	-1.15E-03	-9.2	-274.1		182637
11	107.27	83.31	0.021	-9.38E-05	47.1	-261.0		182637
12	106.54	98.14	0.021	8.20E-04	113.5	-203.2	132.8	182637
		98.14	0.021	8.20E-04	-19.3	-203.2		
13	106.36	101.85	0.021	1.00E-03	-2.3	-204.9		182637
		96.67	0.021	1.00E-03	-2.3	-204.9		
14	105.93	33.96	0.021	1.47E-03	26.0	-198.4		182637
15	105.50	27.12	0.020	1.91E-03	39.2	-183.8		182637
16	104.75	12.14	0.018	2.58E-03	53.9	-147.6		182637
17	104.00	-0.38	0.016	3.09E-03	58.3	-104.7		182637
18	103.20	-11.20	0.013	3.44E-03	53.7	-59.4		182637
19	102.40	-19.80	0.010	3.61E-03	41.3	-21.3		182637
20	101.60	-26.61	0.008	3.65E-03	22.7	4.0		182637
21	100.80	-32.06	0.005	3.61E-03	-0.8	14.8		182637
22	100.25	-14.45	0.003	3.57E-03	-13.6	9.6		182637
23	99.70	63.75	0.001	3.56E-03	0.0	-0.0		---

At elev. 111.13 Strut force = 263.4 kN/strut = 175.6 kN/m run
At elev. 106.54 Strut force = 132.8 kN/strut = 132.8 kN/m run

(continued)

Stage No.10 Change EI of wall to 182637 kN.m2/m run
From elevation 113.00 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	LEFT side						
			Effective stresses				Total	Coeff. of
		Water press.	Vertic -al	Active limit	Passive limit	Earth pressure	earth pressure	subgrade reaction
		kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	4430
2	112.50	0.00	9.31	2.65	43.19	18.35	18.35	4430
3	112.00	0.00	20.63	5.88	95.72	7.35	7.35	4430
		0.00	20.63	5.89	75.67	6.97	6.97	3278
4	111.50	5.00	28.14	8.53	101.30	9.25	14.25	3854
5	111.13	8.70	33.28	10.34	118.88	11.68	20.38	4280
6	111.00	10.00	35.00	10.95	124.75	12.72	22.72	4430
7	110.30	17.00	43.63	13.99	154.23	17.72	34.72	2658
8	109.60	24.00	51.50	16.77	181.11	21.78	45.78	3068
9	108.80	32.00	59.93	19.74	209.92	25.67	57.67	3536
10	108.00	40.00	68.00	22.58	237.48	30.31	70.31	4003
11	107.27	47.32	75.18	25.11	262.01	35.99	83.31	4432
12	106.54	54.65	82.22	27.60	286.08	43.49	98.14	4860
13	106.36	56.35	83.84	28.17	291.61	45.50	101.85	4959
14	105.93	60.68	87.94	29.61	305.62	51.12	111.80	5212
15	105.50	65.00	92.02	31.05	319.53	57.48	122.48	4296
16	104.75	72.50	99.03	33.52	343.47	65.39	137.89	4641
17	104.00	80.00	105.98	35.97	367.23	75.78	155.78	4985
18	103.20	88.00	113.35	38.57	392.40	89.40	177.40	5353
19	102.40	96.00	120.67	41.15	417.42	105.32	201.32	5721
20	101.60	104.00	127.96	43.72	442.33	123.12	227.12	6088
21	100.80	112.00	135.22	46.28	467.14	142.41	254.41	6456
22	100.25	117.50	140.20	48.04	484.14	155.53	273.03	6709
23	99.70	123.00	145.17	49.79	501.10	197.53	320.53	6962

Node no.	Y coord	RIGHT side						
			Effective stresses				Total	Coeff. of
		Water press.	Vertic -al	Active limit	Passive limit	Earth pressure	earth pressure	subgrade reaction
		kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m3
1	113.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	112.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	111.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	111.13	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	111.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	110.30	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	109.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	108.80	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	107.27	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	106.54	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13	106.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	32453
14	105.93	60.68	3.51	0.00	17.17	17.17	77.84p	33195
15	105.50	65.00	7.40	1.22	30.47	30.37	95.37	4296
16	104.75	72.50	14.16	3.60	53.54	53.26	125.76	4641
17	104.00	80.00	20.91	5.98	76.63	76.15	156.15	4985
18	103.20	88.00	28.13	8.53	101.28	100.60	188.60	5353
19	102.40	96.00	35.36	11.08	125.96	125.12	221.12	5721
20	101.60	104.00	42.59	13.63	150.69	149.73	253.73	6088

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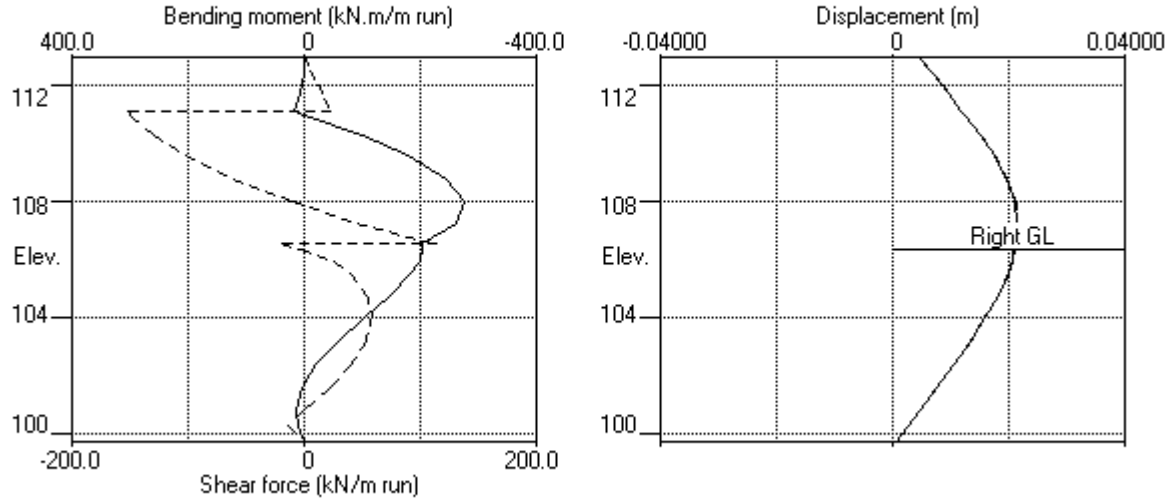
Stage No.10 Change EI of wall to 182637 kN.m2/m run
From elevation 113.00 to 99.70
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	RIGHT side						
			Effective stresses				Total earth pressure	Coeff. of subgrade reaction
		Water press. kN/m2	Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	kN/m2	kN/m3
21	100.80	112.00	49.85	16.18	175.46	174.47	286.47	6456
22	100.25	117.50	54.84	17.94	192.53	169.99	287.49	6709
23	99.70	123.00	59.84	19.71	209.62	133.78	256.78	6962

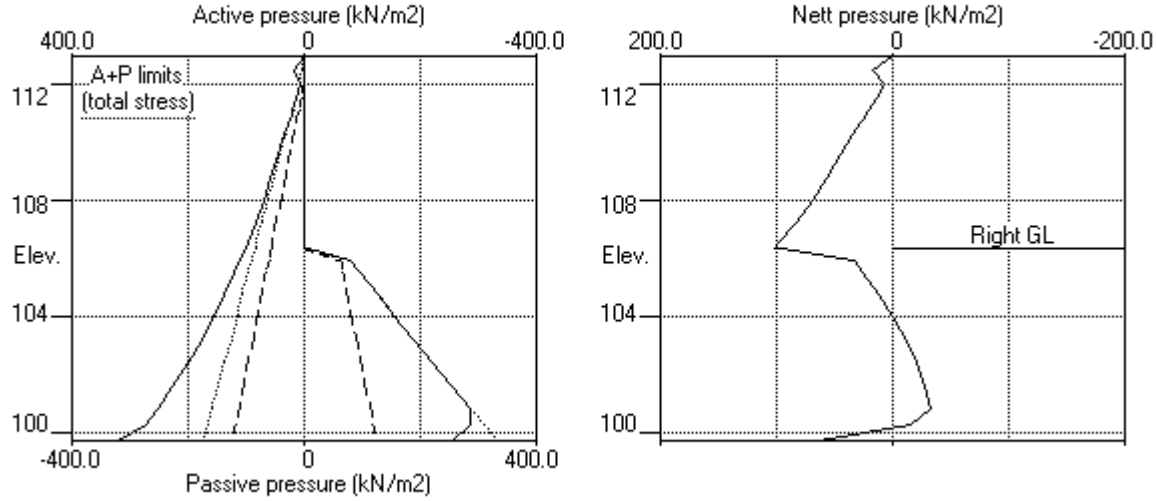
Note: 12.34a Soil pressure at active limit
77.84p Soil pressure at passive limit

Units: kN,m

Stage No.10 Change EI of wall to 182637kN.m2/m run



Stage No.10 Change EI of wall to 182637kN.m2/m run



Units: kN,m

Summary of results

LIMIT STATE PARAMETERS

Limit State: Serviceability Limit State
All loads and soil strengths are unfactored

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 99.70: Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000	Wall Penetr -ation	Direction of failure
1	113.00	113.00	Cant.	Conditions not suitable for FoS calc.				
2	113.00	111.00	Cant.	3.419	100.80	109.28	1.72	L to R
3	113.00	111.00		No analysis at this stage				
4	113.00	106.36	111.50	1.492	n/a	103.47	2.90	L to R
5	113.00	106.36		No analysis at this stage				

All remaining stages have more than one strut - FoS calculation n/a

Units: kN,m

Summary of results

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Bending moment, shear force and displacement envelopes

Node no.	Y coord	Displacement		Bending moment Calculated		Bending moment Factored		Shear force Calculated		Shear force Factored	
		max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
		m	m	kN.m/m		kN.m/m		kN/m	kN/m	kN/m	kN/m
1	113.00	0.008	0.000	0	0	0	0	0	0	0	0
2	112.50	0.008	0.000	0	0	0	0	5	-0	7	-1
3	112.00	0.009	0.000	6	-0	8	-1	12	-1	16	-1
4	111.50	0.010	0.000	13	-1	17	-1	16	-126	22	-171
5	111.13	0.012	0.000	19	-33	26	-45	23	-162	31	-218
6	111.00	0.012	0.000	10	-49	14	-66	19	-159	25	-214
7	110.30	0.015	0.000	26	-127	35	-171	22	-139	30	-187
8	109.60	0.017	0.000	39	-193	53	-260	14	-110	19	-149
9	108.80	0.020	0.000	46	-264	63	-356	5	-71	6	-96
10	108.00	0.021	0.000	47	-298	63	-402	0	-40	0	-55
11	107.27	0.021	0.000	43	-300	58	-405	47	-7	64	-10
12	106.54	0.021	0.000	37	-286	50	-385	114	-19	153	-26
13	106.36	0.021	0.000	36	-278	48	-375	49	-9	66	-12
14	105.93	0.021	0.000	32	-253	43	-341	68	-10	91	-13
15	105.50	0.020	0.000	27	-221	37	-298	78	-10	105	-13
16	104.75	0.018	0.000	20	-168	27	-227	83	-9	112	-12
17	104.00	0.016	0.000	14	-120	19	-162	78	-8	106	-10
18	103.20	0.013	0.000	8	-70	11	-94	64	-6	86	-8
19	102.40	0.011	0.000	5	-28	6	-37	46	-4	63	-6
20	101.60	0.008	0.000	20	0	27	0	26	-2	36	-3
21	100.80	0.005	0.000	21	0	28	0	1	-13	2	-17
22	100.25	0.003	0.000	10	0	14	0	0	-19	0	-25
23	99.70	0.001	0.000	0	-0	0	-0	0	-0	0	-0

Maximum and minimum bending moment and shear force at each stage

Stage no.	Bending moment Calculated max.	elev.	min.	elev.	Bending moment Factored max.	min.	Shear force Calculated max.	elev.	min.	elev.	Shear force Factored max.	min.
	kN.m/m		kN.m/m		kN.m/m		kN/m		kN/m		kN/m	kN/m
1	0	101.60	-3	108.80	0	-4	1	105.93	-1	111.50	1	-2
2	47	108.00	-0	99.70	63	-0	22	110.30	-10	105.50	30	-13
3	No calculation at this stage											
4	21	100.80	-300	107.27	28	-405	83	104.75	-126	111.50	112	-171
5	No calculation at this stage											
6	No calculation at this stage											
7	20	100.80	-286	107.27	27	-386	80	104.75	-129	111.13	109	-174
8	No calculation at this stage											
9	18	111.13	-298	108.00	25	-402	106	106.54	-162	111.13	144	-218
10	19	111.13	-274	108.00	26	-370	114	106.54	-153	111.13	153	-206

Summary of results (continued)

Maximum and minimum displacement at each stage

Stage no.	Displacement maximum m	elev.	minimum m	elev.	Stage description
1	0.001	109.60	0.000	113.00	Apply surcharge no.1 at elev. 113.00
2	0.008	113.00	0.000	113.00	Excav. to elev. 111.00 on RIGHT side
3	No calculation at this stage				Install strut no.1 at elev. 111.50
4	0.021	107.27	0.000	113.00	Excav. to elev. 106.36 on RIGHT side
5	No calculation at this stage				Install strut no.2 at elev. 106.54
6	No calculation at this stage				Install strut no.3 at elev. 111.13
7	0.021	107.27	0.000	113.00	Remove strut no.1 at elev. 111.50
8	No calculation at this stage				Apply surcharge no.3 at elev. 106.36
9	0.021	107.27	0.000	113.00	Apply water pressure profile no.3
10	0.021	107.27	0.000	113.00	Change EI of wall to 182637kN.m2/m run

Summary of results (continued)

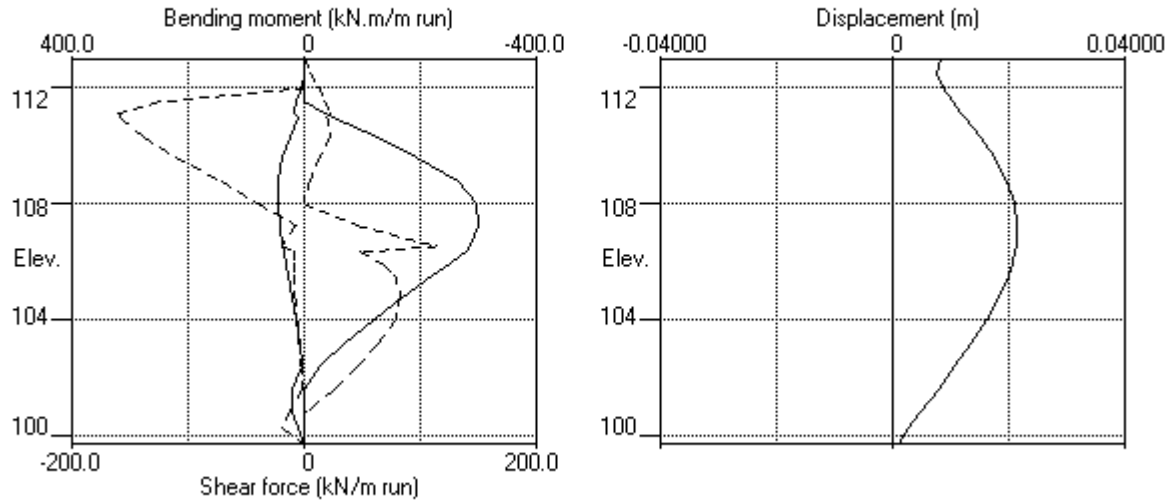
Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Strut forces at each stage (horizontal components)

Stage no.	Strut no. 1 at elev. 111.50			Strut no. 2 at elev. 106.54			Strut no. 3 at elev. 111.13		
	--Calculated-- kN per m run	Factored kN per strut	Factored kN per strut	--Calculated-- kN per m run	Factored kN per strut	Factored kN per strut	--Calculated-- kN per m run	Factored kN per strut	Factored kN per strut
4	143	143	193	---	---	---	---	---	---
7	---	---	---	slack	slack	slack	147	220	297
9	---	---	---	118	118	159	183	275	372
10	---	---	---	133	133	179	176	263	356

Units: kN,m

Bending moment, shear force, displacement envelopes



Units: kN,m

INPUT DATA

SOIL PROFILE

Stratum no.	Elevation of top of stratum	Soil types Left side	Right side
1	111.11	1 Made Ground	1 Made Ground
2	108.61	3 Claygate-drained	3 Claygate-drained

SOIL PROPERTIES

No.	Soil type Description (Datum elev.)	Bulk density kN/m3	Young's Modulus Eh,kN/m2 (dEh/dy)	At rest coeff. Ko (dKo/dy)	Consol state. NC/OC (Nu)	Active limit Ka (Kac)	Passive limit Kp (Kpc)	Cohesion kN/m2 (dc/dy)
1	Made Ground	17.00	10000	0.500	OC (0.200)	0.285 (0.000)	4.639 (0.000)	
2	Bagshot Formation	18.00a 19.00b	34000	0.455	OC (0.200)	0.250 (0.000)	5.664 (0.000)	
3	Claygate-.. (108.61)	18.00a 19.00b	7400 (2600)	1.000	OC (0.200)	0.353 (1.388)	3.416 (5.182)	1.000d

Note: (a) and (b) are Bulk Densities above and below the water table

Additional soil parameters associated with Ka and Kp

No.	Soil type Description	--- parameters for Ka --- Soil friction angle	Wall adhesion coeff.	Back-fill angle	--- parameters for Kp --- Soil friction angle	Wall adhesion coeff.	Back-fill angle
1	Made Ground	30.00	0.634	0.00	30.00	0.634	0.00
2	Bagshot Formation	33.00	0.626	0.00	33.00	0.626	0.00
3	Claygate-drained	25.00	0.645	0.00	25.00	0.645	0.00

GROUND WATER CONDITIONS

Density of water = 10.00 kN/m3

	Left side	Right side
Initial water table elevation	105.50	105.50

Automatic water pressure balancing at toe of wall : Yes

Water press. profile no.	Left side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	Right side Point no.	Elev. m	Piezo elev. m	Water press. kN/m2	
1	1	111.00	111.00	0.0	1	111.00	111.00	0.0	
2	1	110.11	110.11	0.0	1	107.00	107.00	0.0	
					2	107.00	117.00	100.0	
3	1	110.11	110.11	0.0	1	107.00	107.00	0.0	MC+WC
					2	107.00	111.00	40.0	

WALL PROPERTIES

Type of structure = Fully Embedded Wall
Elevation of toe of wall = 101.11
Maximum finite element length = 0.60 m
Youngs modulus of wall E = 2.1000E+08 kN/m2
Moment of inertia of wall I = 6.3620E-04 m4/m run
E.I = 133602 kN.m2/m run
Yield Moment of wall = Not defined

STRUTS and ANCHORS

Strut/ anchor no.	Elev.	Strut spacing m	X-section area of strut sq.m	Youngs modulus kN/m2	Free length m	Inclin -ation (degs)	Pre- stress /strut kN	Tension allowed
1	Not defined							
2	107.20	1.00	0.175000	2.100E+07	10.00	0.00	0	No
3	110.11	1.00	0.175000	2.100E+07	10.00	0.00	0	No

SURCHARGE LOADS

Surch -arge no.	Elev.	Distance from wall	Length parallel to wall	Width perpend. to wall	Surcharge ----- kN/m2 ----- Near edge	Far edge	Equiv. soil type	Partial factor/ Category
1	111.11	1.00(L)	100.00	30.00	20.00	=	N/A	1.00 Var
2	107.00	-0.00(R)	100.00	30.00	100.00	=	N/A	1.00 -
3	107.00	-0.00(R)	100.00	30.00	40.00	=	N/A	1.00 -

Note: L = Left side, R = Right side
Limit State Categories P/U = Permanent Unfavourable
P/F = Permanent Favourable
Var = Variable (unfavourable)

CONSTRUCTION STAGES

Construction stage no.	Stage description
1	Apply surcharge no.1 at elevation 111.11
2	Excavate to elevation 107.00 on RIGHT side
3	Install strut or anchor no.2 at elevation 107.20
4	Install strut or anchor no.3 at elevation 110.11
5	Apply surcharge no.3 at elevation 107.00
6	Apply water pressure profile no.3 (Mod. Conserv.) No analysis at this stage
7	Change EI of wall to 112623 kN.m2/m run From elevation 111.11 to 101.11 Yield moment not defined Allow wall to relax with new modulus value

FACTORS OF SAFETY and ANALYSIS OPTIONS

Limit State options: Serviceability Limit State
All loads and soil strengths are unfactored

Stability analysis:
Method of analysis - Strength Factor method
Factor on soil strength for calculating wall depth = 1.00

Parameters for undrained strata:
Minimum equivalent fluid density = 5.00 kN/m3
Maximum depth of water filled tension crack = 0.00 m

Bending moment and displacement calculation:
Method - Subgrade reaction model using Influence Coefficients
Open Tension Crack analysis? - No
Non-linear Modulus Parameter (L) = 10.00 m

Boundary conditions:
Length of wall (normal to plane of analysis) = 100.00 m

Width of excavation on Left side of wall = 30.00 m
Width of excavation on Right side of wall = 30.00 m

Distance to rigid boundary on Left side = 30.00 m
Distance to rigid boundary on Right side = 30.00 m

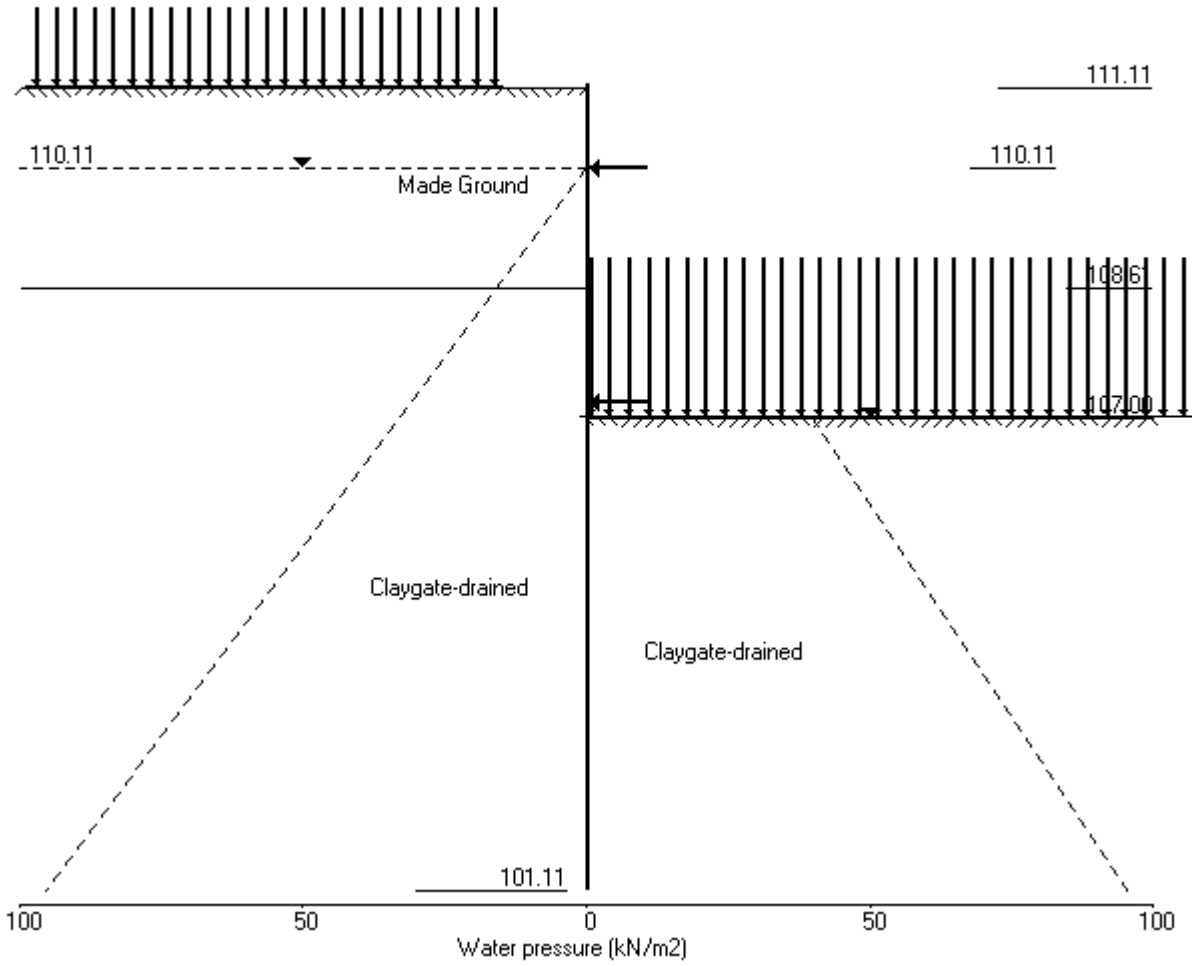
OUTPUT OPTIONS

Stage no.	Stage description	Output options: Displacement, Bending mom., Shear force	Active, Passive pressures	Graph. output
1	Apply surcharge no.1 at elev. 111.11	No	No	No
2	Excav. to elev. 107.00 on RIGHT side	No	No	No
3	Install strut no.2 at elev. 107.20	No	No	No
4	Install strut no.3 at elev. 110.11	No	No	No
5	Apply surcharge no.3 at elev. 107.00	No	No	No
6	Apply water pressure profile no.3	No	No	No
7	Change EI of wall to 112623kN.m2/m run	No	No	No
*	Summary output	Yes	-	Yes

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Units: kN,m

Stage No.7 Change EI of wall to 112623kN.m2/m run



Units: kN,m

Stage No. 2 Excavate to elevation 107.00 on RIGHT side

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 101.11 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000 Toe elev.	Wall Penetr -ation	Direction of failure
2	111.11	107.00	Cant.	1.194	101.66	102.75	4.25	L to R

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	111.11	0.00	0.052	7.37E-03	0.0	0.0		133602
2	110.61	2.66	0.049	7.37E-03	0.7	0.2		133602
3	110.11	5.91	0.045	7.37E-03	2.8	1.0		133602
4	109.74	8.37	0.042	7.36E-03	5.5	2.5		133602
5	109.36	10.74	0.039	7.35E-03	9.1	5.2		133602
6	108.99	13.01	0.037	7.33E-03	13.5	9.4		133602
7	108.61	15.18	0.034	7.30E-03	18.8	15.4		133602
		17.38	0.034	7.30E-03	18.8	15.4		
8	108.31	19.63	0.032	7.25E-03	24.5	22.1		133602
9	108.00	21.84	0.029	7.19E-03	30.8	30.5		133602
10	107.60	24.65	0.027	7.08E-03	40.1	44.7		133602
11	107.20	27.42	0.024	6.92E-03	50.5	62.8		133602
12	107.00	28.78	0.022	6.82E-03	56.2	73.5		133602
		23.60	0.022	6.82E-03	56.2	73.5		
13	106.60	1.71	0.020	6.56E-03	61.2	97.3		133602
14	106.20	-20.14	0.017	6.23E-03	57.5	122.7		133602
15	105.85	-31.50	0.015	5.89E-03	48.5	141.3		133602
16	105.50	-42.43	0.013	5.50E-03	35.6	156.1		133602
17	104.95	-47.08	0.010	4.83E-03	11.0	168.6		133602
18	104.40	-51.48	0.008	4.14E-03	-16.2	166.9		133602
19	103.80	-38.41	0.005	3.43E-03	-43.1	150.3		133602
20	103.20	-19.02	0.004	2.82E-03	-60.3	117.5		133602
21	102.60	-0.53	0.002	2.39E-03	-66.2	77.9		133602
22	102.00	17.73	0.001	2.13E-03	-61.1	38.1		133602
23	101.56	64.39	-0.000	2.04E-03	-42.8	12.7		133602
24	101.11	127.88	-0.001	2.02E-03	0.0	-0.0		---

(continued)

Stage No.2 Excavate to elevation 107.00 on RIGHT side

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic-al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	111.11	0.00	0.00	0.00	0.00	0.00	0.00	2419
2	110.61	0.00	9.34	2.66	43.34	2.66	2.66a	2419
3	110.11	0.00	20.72	5.91	96.11	5.91	5.91a	2419
4	109.74	0.00	29.37	8.37	136.23	8.37	8.37a	2419
5	109.36	0.00	37.68	10.74	174.81	10.74	10.74a	2419
6	108.99	0.00	45.62	13.01	211.64	13.01	13.01a	2419
7	108.61	0.00	53.24	15.18	246.99	15.18	15.18a	2419
		0.00	53.24	17.38	187.08	17.38	17.38a	1787
8	108.31	0.00	59.63	19.63	208.90	19.63	19.63a	1980
9	108.00	0.00	65.89	21.84	230.27	21.84	21.84a	2174
10	107.60	0.00	73.87	24.65	257.53	24.65	24.65a	2425
11	107.20	0.00	81.71	27.42	284.31	27.42	27.42a	2677
12	107.00	0.00	85.58	28.78	297.56	28.78	28.78a	2802
13	106.60	0.00	93.27	31.49	323.82	31.49	31.49a	3054
14	106.20	0.00	100.88	34.18	349.83	34.24	34.24	3305
15	105.85	0.00	107.50	36.51	372.41	44.40	44.40	3526
16	105.50	0.00	114.07	38.82	394.87	55.01	55.01	3746
17	104.95	5.50	119.38	40.70	413.03	67.28	72.78	4092
18	104.40	11.00	124.64	42.55	430.97	79.82	90.82	4437
19	103.80	17.00	130.31	44.55	450.35	93.38	110.38	4815
20	103.20	23.00	135.94	46.53	469.57	106.56	129.56	5192
21	102.60	29.00	141.52	48.50	488.65	119.38	148.38	5569
22	102.00	35.00	147.07	50.46	507.62	132.11	167.11	5947
23	101.56	39.45	151.17	51.91	521.63	158.40	197.85	24441
24	101.11	43.90	155.26	53.35	535.59	195.25	239.15	30777

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic-al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	111.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	110.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	110.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	109.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	109.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	108.99	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	108.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	108.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	107.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	107.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	107.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	5.18	5.18	5.18p	4202
13	106.60	0.00	7.20	1.15	29.78	29.78	29.78p	4579
14	106.20	0.00	14.40	3.69	54.38	54.38	54.38p	4956
15	105.85	0.00	20.70	5.91	75.90	75.90	75.90p	5286
16	105.50	0.00	27.00	8.13	97.43	97.43	97.43p	5616
17	104.95	5.50	31.96	9.88	114.36	114.36	119.86p	6135
18	104.40	11.00	36.92	11.63	131.31	131.31	142.31p	6654
19	103.80	17.00	42.34	13.54	149.81	131.79	148.79	7220
20	103.20	23.00	47.76	15.45	168.34	125.59	148.59	7785
21	102.60	29.00	53.19	17.36	186.90	119.91	148.91	8351
22	102.00	35.00	58.64	19.28	205.50	114.38	149.38	8917

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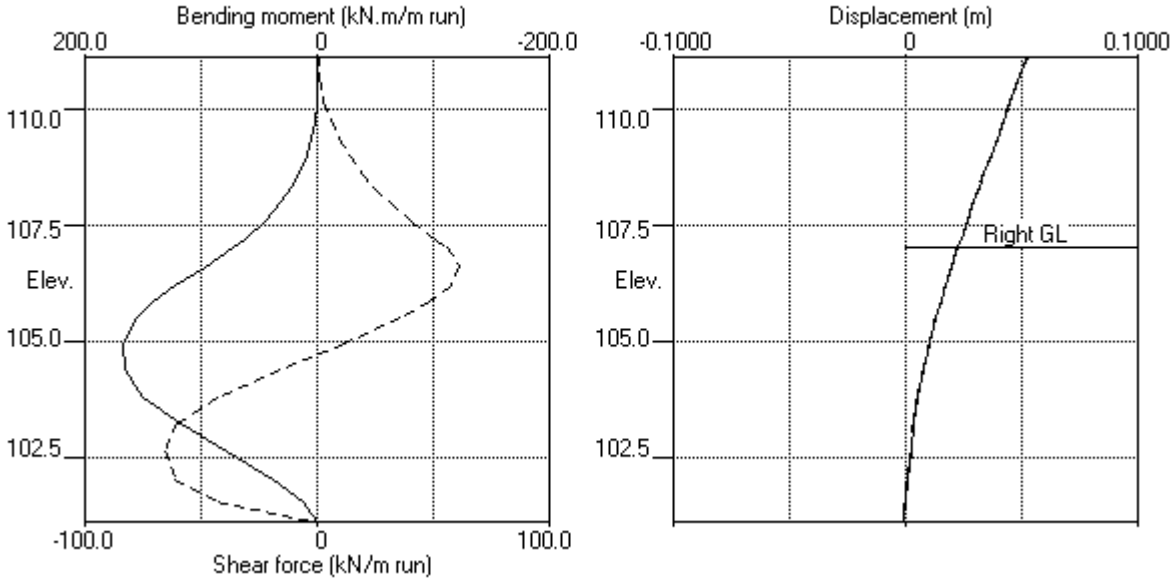
Stage No.2 Excavate to elevation 107.00 on RIGHT side

Node no.	Y coord	RIGHT side						
		Effective stresses					Total earth pressure	Coeff. of subgrade reaction
		Water press.	Vertic -al	Active limit	Passive limit	Earth pressure		
		kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m2	kN/m3
23	101.56	39.45	62.68	20.71	219.31	94.01	133.46	26813
24	101.11	43.90	66.73	22.14	233.15	67.37	111.27	30777

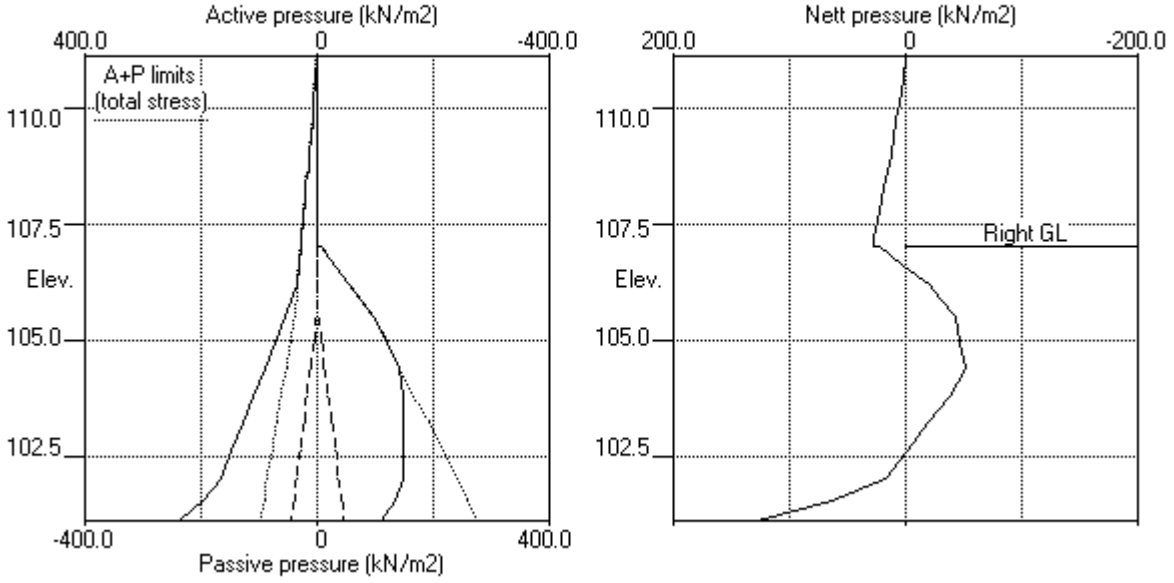
Note: 31.49a Soil pressure at active limit
142.31p Soil pressure at passive limit

Units: kN,m

Stage No.2 Excav. to elev. 107.00 on RIGHT side



Stage No.2 Excav. to elev. 107.00 on RIGHT side



Units: kN,m

Stage No. 7 Change EI of wall to 112623 kN.m2/m run
From elevation 111.11 to 101.11
Yield moment not defined
Allow wall to relax with new modulus value

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method
Factor of safety on soil strength

Stage No.	G.L. Act.	G.L. Pass.	Strut Elev.	FoS for toe elev. = 101.11 Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000	Wall Penetr -ation	Direction of failure
7	111.11	107.00		More than one strut. No FoS calc.				

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall
Analysis options
Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State
Calculated Bending Moments and Strut Forces are to be multiplied by a factor of 1.35 to obtain values for structural design. See summary for factored values.

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
1	111.11	0.00	0.052	7.28E-03	0.0	0.0		112623
2	110.61	2.91	0.049	7.28E-03	0.7	0.2		112623
3	110.11	5.91	0.045	7.28E-03	2.9	1.1	9.4	112623
		5.91	0.045	7.28E-03	-6.5	1.1		
4	109.74	11.25	0.042	7.27E-03	-3.3	-0.3		112623
5	109.36	16.54	0.039	7.28E-03	1.9	-0.2		112623
6	108.99	21.74	0.037	7.28E-03	9.1	2.2		112623
7	108.61	26.86	0.034	7.27E-03	18.1	7.4		112623
		29.11	0.034	7.27E-03	18.1	7.4		
8	108.31	33.86	0.032	7.24E-03	27.8	14.5		112623
9	108.00	38.57	0.030	7.19E-03	39.0	24.6		112623
10	107.60	44.64	0.027	7.08E-03	55.6	43.0		112623
11	107.20	50.65	0.024	6.88E-03	74.7	68.1	53.1	112623
		50.65	0.024	6.88E-03	21.6	68.1		
12	107.00	53.63	0.022	6.76E-03	32.0	74.3		112623
		8.45	0.022	6.76E-03	32.0	74.3		
13	106.60	-2.52	0.020	6.47E-03	33.2	89.1		112623
14	106.20	-13.49	0.017	6.14E-03	30.0	104.9		112623
15	105.85	-15.32	0.015	5.81E-03	24.9	115.7		112623
16	105.50	-16.70	0.013	5.46E-03	19.3	124.3		112623
17	104.95	-21.96	0.010	4.87E-03	8.7	132.3		112623
18	104.40	-26.82	0.008	4.25E-03	-4.7	132.6		112623
19	103.80	-32.10	0.006	3.60E-03	-22.4	124.5		112623
20	103.20	-30.68	0.004	3.01E-03	-41.2	102.5		112623
21	102.60	-10.77	0.002	2.56E-03	-53.7	70.8		112623
22	102.00	8.95	0.000	2.29E-03	-54.2	35.7		112623
23	101.56	56.71	-0.001	2.19E-03	-39.6	12.1		112623

(continued)

Stage No.7 Change EI of wall to 112623 kN.m2/m run
From elevation 111.11 to 101.11
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	Nett pressure kN/m2	Wall disp. m	Wall rotation rad.	Shear force kN/m	Bending moment kN.m/m	Strut forces kN/m	EI of wall kN.m2/m
24	101.11	121.34	-0.002	2.17E-03	0.0	-0.0		---

At elev. 110.11 Strut force = 9.4 kN/strut = 9.4 kN/m run
At elev. 107.20 Strut force = 53.1 kN/strut = 53.1 kN/m run

LEFT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	111.11	0.00	0.00	0.00	0.00	0.00	0.00	1620
2	110.61	0.00	9.34	2.66	43.34	2.91	2.91	1620
3	110.11	0.00	20.72	5.91	96.11	5.91	5.91a	1620
4	109.74	3.96	25.41	7.24	117.86	7.29	11.25	1620
5	109.36	7.92	29.76	8.48	138.06	8.62	16.54	1620
6	108.99	11.88	33.74	9.62	156.52	9.86	21.74	1620
7	108.61	15.84	37.40	10.66	173.50	11.01	26.86	1620
		15.84	37.40	11.80	132.95	13.27	29.11	1196
8	108.31	19.10	40.84	13.01	144.70	14.76	33.86	1326
9	108.00	22.36	44.14	14.17	155.98	16.21	38.57	1455
10	107.60	26.60	48.28	15.63	170.12	18.04	44.64	1624
11	107.20	30.84	52.28	17.04	183.79	19.81	50.65	1792
12	107.00	32.96	54.24	17.73	190.48	20.67	53.63	1877
13	106.60	37.20	58.09	19.09	203.63	22.33	59.53	2045
14	106.20	41.44	61.86	20.42	216.52	24.00	65.44	2213
15	105.85	45.15	65.11	21.57	227.63	33.23	78.38	2361
16	105.50	48.86	68.33	22.70	238.61	42.91	91.77	2508
17	104.95	54.68	73.32	24.46	255.64	55.04	109.72	2740
18	104.40	60.51	78.24	26.19	272.46	67.57	128.08	2971
19	103.80	66.87	83.55	28.07	290.62	81.26	148.13	3224
20	103.20	73.23	88.82	29.92	308.61	94.70	167.93	3477
21	102.60	79.59	94.05	31.77	326.47	107.85	187.43	3729
22	102.00	85.95	99.24	33.60	344.21	120.91	206.86	3982
23	101.56	90.66	103.08	34.95	357.31	147.46	238.12	4169
24	101.11	95.38	106.90	36.30	370.37	184.58	279.96	4357

RIGHT side

Node no.	Y coord	Water press. kN/m2	Effective stresses: Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
1	111.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0
2	110.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0
3	110.11	0.00	0.00	0.00	0.00	0.00	0.00	0.0
4	109.74	0.00	0.00	0.00	0.00	0.00	0.00	0.0
5	109.36	0.00	0.00	0.00	0.00	0.00	0.00	0.0
6	108.99	0.00	0.00	0.00	0.00	0.00	0.00	0.0
7	108.61	0.00	0.00	0.00	0.00	0.00	0.00	0.0
8	108.31	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
10	107.60	0.00	0.00	0.00	0.00	0.00	0.00	0.0
11	107.20	0.00	0.00	0.00	0.00	0.00	0.00	0.0
12	107.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		40.00	0.00	0.00	5.18	5.18	45.18p	2143

(continued)

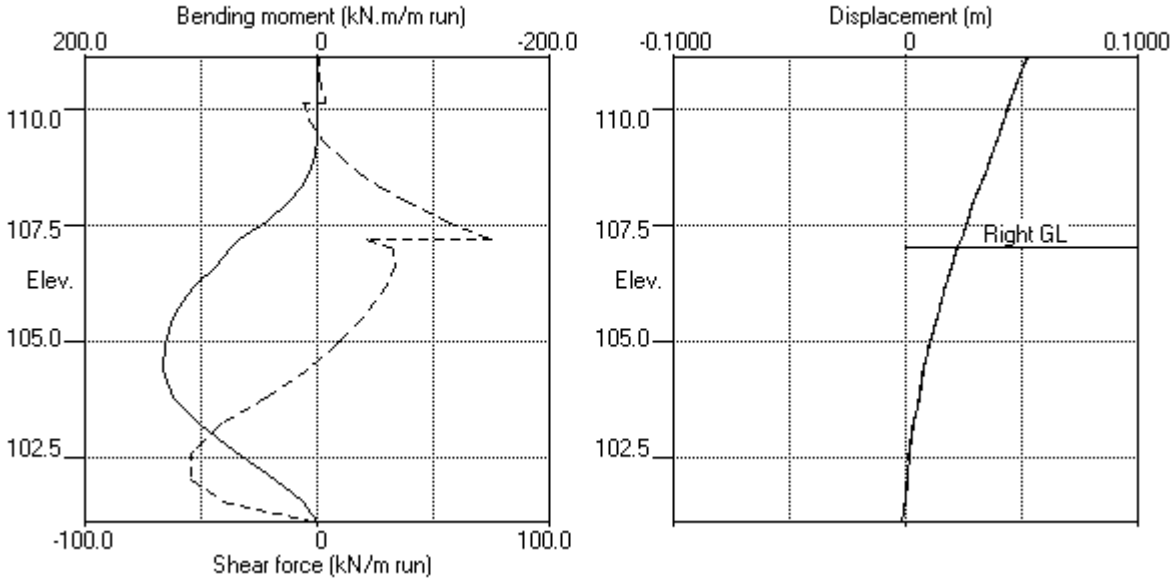
Stage No.7 Change EI of wall to 112623 kN.m2/m run
From elevation 111.11 to 101.11
Yield moment not defined
Allow wall to relax with new modulus value

Node no.	Y coord	RIGHT side Water press. kN/m2	Effective stresses Vertic -al kN/m2	Active limit kN/m2	Passive limit kN/m2	Earth pressure kN/m2	Total earth pressure kN/m2	Coeff. of subgrade reaction kN/m3
13	106.60	43.76	3.84	0.00	18.29	18.29	62.05p	2336
14	106.20	47.52	7.68	1.32	31.41	31.41	78.93p	2528
15	105.85	50.81	11.04	2.50	42.89	42.89	93.70p	2697
16	105.50	54.10	14.40	3.69	54.37	54.37	108.47p	2865
17	104.95	59.27	19.68	5.55	72.41	72.41	131.68p	3129
18	104.40	64.45	24.96	7.41	90.45	90.45	154.90p	3394
19	103.80	70.09	30.73	9.44	110.15	110.15	180.24p	3683
20	103.20	75.73	36.49	11.48	129.85	122.89	198.62	3971
21	102.60	81.37	42.26	13.51	149.57	116.83	198.20	4260
22	102.00	87.01	48.04	15.55	169.29	110.90	197.91	4548
23	101.56	91.20	52.32	17.06	183.93	90.21	181.41	4762
24	101.11	95.38	56.61	18.57	198.58	63.25	158.63	4976

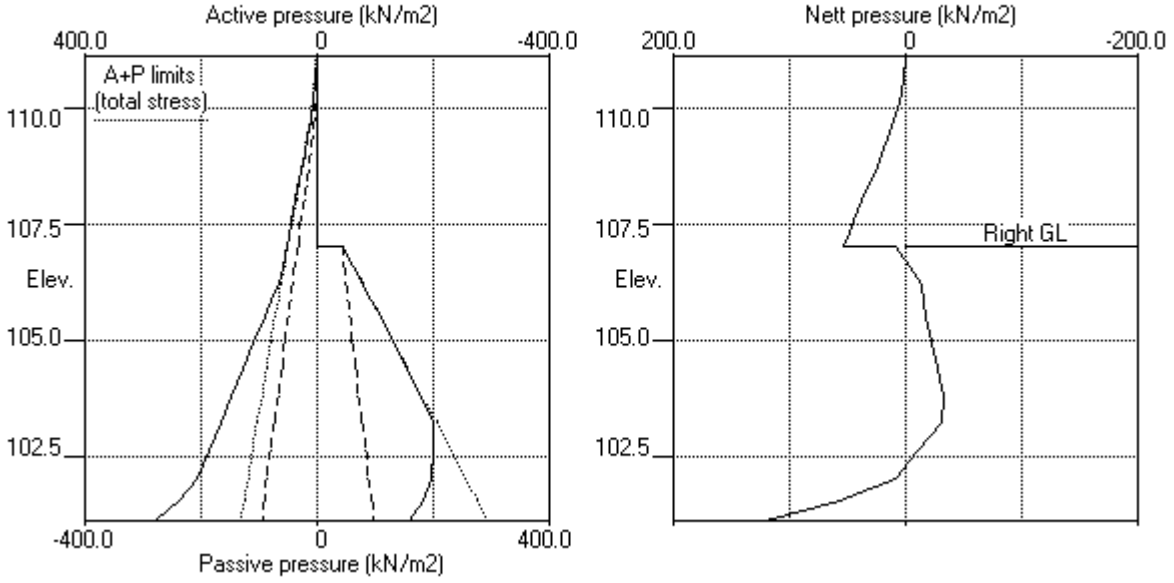
Note: 5.91a Soil pressure at active limit
180.24p Soil pressure at passive limit

Units: kN,m

Stage No.7 Change EI of wall to 112623kN.m2/m run



Stage No.7 Change EI of wall to 112623kN.m2/m run



Units: kN,m

Summary of results

LIMIT STATE PARAMETERS

Limit State: Serviceability Limit State
All loads and soil strengths are unfactored

STABILITY ANALYSIS of Fully Embedded Wall according to Strength Factor method

Factor of safety on soil strength

Stage No.	--- G.L. --- Act.	Pass.	Strut Elev.	FoS for toe elev. = 101.11: Factor of Safety	Moment equilib. at elev.	Toe elev. for FoS = 1.000	Wall Penetr -ation	Direction of failure
1	111.11	111.11	Cant.	Conditions not suitable for FoS calc.				
2	111.11	107.00	Cant.	1.194	101.66	102.75	4.25	L to R
3	111.11	107.00		No analysis at this stage				

All remaining stages have more than one strut - FoS calculation n/a

Units: kN,m

Summary of results

BENDING MOMENT and DISPLACEMENT ANALYSIS of Fully Embedded Wall

Analysis options

Length of wall perpendicular to section = 100.00m
Subgrade reaction model - Boussinesq Influence coefficients
Soil deformations are elastic until the active or passive limit is reached
Open Tension Crack analysis - No

Rigid boundaries: Left side 30.00 from wall
Right side 30.00 from wall

Limit State: Serviceability Limit State

Calculated Bending Moments and Strut Forces have been multiplied by a factor of 1.35 to obtain values for structural design.

Bending moment, shear force and displacement envelopes

Node no.	Y coord	Displacement max. m	Displacement min. m	Bending moment Calculated max. kN.m/m	Bending moment Calculated min. kN.m/m	Bending moment Factored max. kN.m/m	Bending moment Factored min. kN.m/m	Shear force Calculated max. kN/m	Shear force Calculated min. kN/m	Shear force Factored max. kN/m	Shear force Factored min. kN/m
1	111.11	0.052	0.000	0	-0	0	-0	0	0	0	0
2	110.61	0.049	0.000	0	0	0	0	1	-0	1	-1
3	110.11	0.045	0.000	1	-0	2	-1	3	-7	5	-9
4	109.74	0.042	0.000	3	-1	4	-1	6	-3	9	-4
5	109.36	0.039	0.000	6	-1	8	-2	10	-2	14	-2
6	108.99	0.037	0.000	11	-2	15	-3	15	-2	21	-2
7	108.61	0.034	0.000	18	-3	24	-3	21	-1	28	-2
8	108.31	0.032	0.000	25	-3	34	-4	28	-1	38	-1
9	108.00	0.030	0.000	34	-3	46	-4	39	-1	53	-1
10	107.60	0.027	0.000	50	-3	67	-5	56	-0	75	-1
11	107.20	0.024	0.000	69	-4	94	-5	75	-0	101	-0
12	107.00	0.022	0.000	81	-4	109	-5	61	0	82	0
13	106.60	0.020	0.000	106	-3	143	-5	64	0	86	0
14	106.20	0.017	0.000	132	-3	179	-4	59	0	79	0
15	105.85	0.015	0.000	151	-3	204	-4	49	0	65	0
16	105.50	0.013	0.000	166	-3	224	-4	36	0	48	0
17	104.95	0.010	0.000	177	-2	240	-3	11	0	15	0
18	104.40	0.008	0.000	174	-2	235	-2	1	-19	1	-26
19	103.80	0.006	0.000	156	-1	210	-2	1	-46	1	-62
20	103.20	0.004	0.000	121	-1	164	-1	1	-63	1	-85
21	102.60	0.002	0.000	80	-0	108	-1	0	-69	1	-93
22	102.00	0.001	-0.001	39	-0	52	-0	0	-63	0	-85
23	101.56	0.001	-0.002	13	-0	17	-0	0	-44	0	-59
24	101.11	0.001	-0.003	0	-0	0	-0	0	0	0	0

Maximum and minimum bending moment and shear force at each stage

Stage no.	Bending moment Calculated max. kN.m/m	elev.	Bending moment Calculated min. kN.m/m	elev.	Bending moment Factored max. kN.m/m	Bending moment Factored min. kN.m/m	Shear force Calculated max. kN/m	elev.	Shear force Calculated min. kN/m	elev.	Shear force Factored max. kN/m	Shear force Factored min. kN/m
1	0	110.61	-4	107.20	0	-5	1	104.95	-2	109.36	1	-2
2	169	104.95	-0	101.11	228	-0	61	106.60	-66	102.60	83	-89
3	No calculation at this stage											
4	No calculation at this stage											
5	177	104.95	-0	101.11	240	-0	64	106.60	-69	102.60	86	-93
6	No calculation at this stage											
7	133	104.40	-0	109.74	179	-0	75	107.20	-54	102.00	101	-73

Summary of results (continued)

Maximum and minimum displacement at each stage

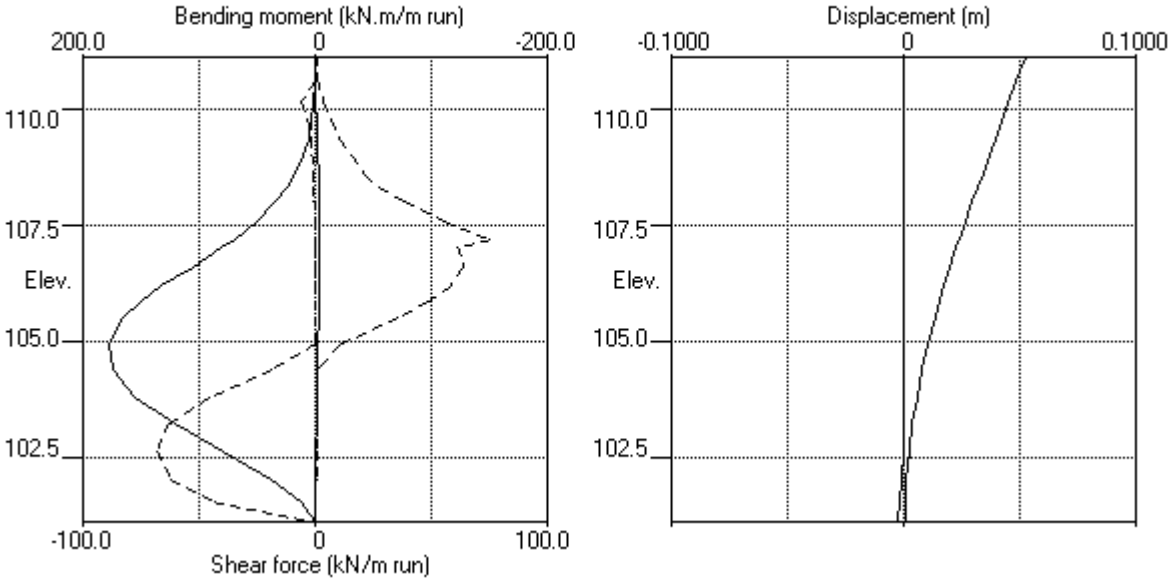
Stage no.	Displacement maximum m	elev.	minimum m	elev.	Stage description
1	0.001	106.60	0.000	111.11	Apply surcharge no.1 at elev. 111.11
2	0.052	111.11	-0.001	101.11	Excav. to elev. 107.00 on RIGHT side
3	No calculation at this stage				Install strut no.2 at elev. 107.20
4	No calculation at this stage				Install strut no.3 at elev. 110.11
5	0.052	111.11	-0.003	101.11	Apply surcharge no.3 at elev. 107.00
6	No calculation at this stage				Apply water pressure profile no.3
7	0.052	111.11	-0.002	101.11	Change EI of wall to 112623kN.m2/m run

Strut forces at each stage (horizontal components)

Stage no.	Strut no. 2 at elev. 107.20 --Calculated-- kN per m run	kN per strut	Factored kN per strut	Strut no. 3 at elev. 110.11 --Calculated-- kN per m run	kN per strut	Factored kN per strut
5	slack	slack	slack	slack	slack	slack
7	53	53	72	9	9	13

Units: kN,m

Bending moment, shear force, displacement envelopes



Appendix E. Additional Supporting Documents

A-squared Studio

Technical Note

1157-A2S-XX-XX-TN-Y-0001-00

Project	Highgate School Dyne House and Island Site
Project No.	1157
Subject	Hydrogeological Study
Client	Expedition Engineering Ltd

Document Reference	Status	Revision	Issued	Checked	Approved	Date
1157-A2S-XX-XX-TN-Y-0001-00	First Issue	00	Qi Cheng Sia MEng(Hons), GMICE **Senior Engineer**	Paul Smith BEng(Hons), MSc, DIC, CEng, MICE **Associate Director**	Alex Nikolic BEng(Hons), MSc, DIC, CEng MICE, MSt(Cantab) **Director**	16.08.2024

1. Introduction

A-squared Studio Engineers Ltd (A-squared) have been appointed by Expedition Engineering Ltd (Expedition) to support the geotechnical and substructure engineering scope relating to the proposed redevelopment of the Dyne House (Highgate School) site in North London.

The Hydrogeological Study report presents the substructure engineering impact assessment associated with the redevelopment of the Dyne House and Island Plot site.

2. Site location

The proposed development is located within the Highgate School campus along Southwood Lane, Highgate, London, N6 5EE, as shown in Figure 2.1, and is comprised of the Dyne House and Island plots in the east and west, respectively. The entire site falls within the administrative boundaries of the London Borough of Haringey. Highgate Underground Station is located approximately 620m north of the site.

The Island plot is generally flat, with ground elevation of approximately +126.0mOD. The Dyne House plot slopes downwards from west to east, with elevations ranging from approximately +126.0mOD to +111.0mOD.

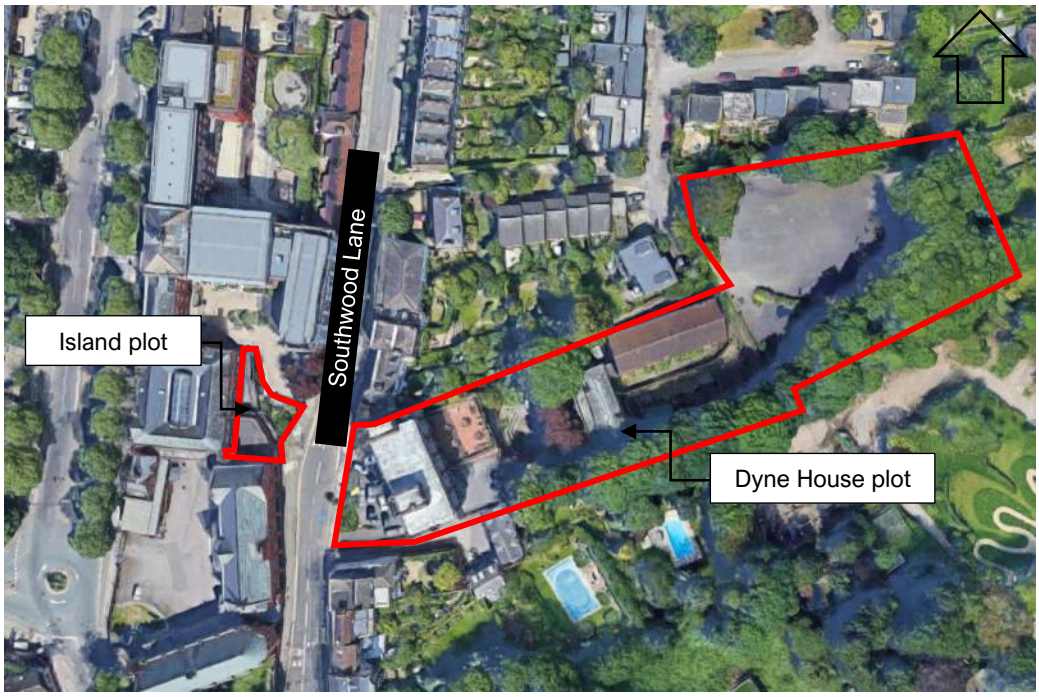


Figure 2.1 Dyne House and Island development locations

The Island plot is currently occupied by a two-storey structure directly adjacent to the Central Hall and Big School buildings of Highgate School. This structure will be demolished, and a two-storey building with one-level basement will be constructed in its place. The approximate depth to formation level of the one-level basement is 4.5mBGL (+121.5mOD).

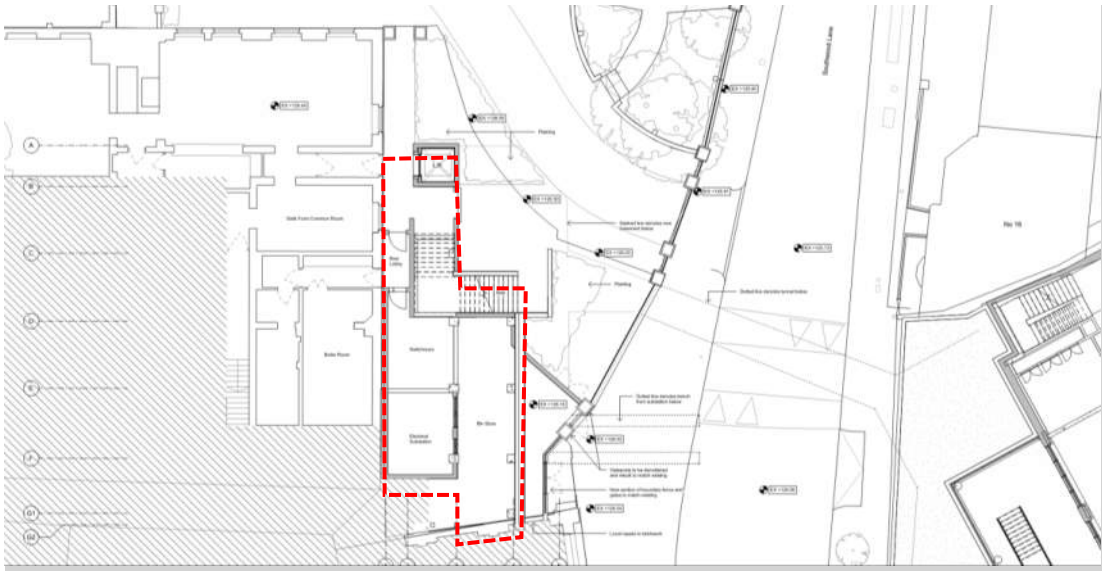
The Dyne House plot is currently occupied by several structures. Dyne House is a five-storey school building with a one- to two-level basement occupying the western section of the site. The Gym and Geography Building is a two-storey 'L'-shaped structure occupying the centre of the plot. A 1m- to 2m-deep disused swimming pool is located directly south of the Gym and Geography Building. The eastern section of the plot, referred to as the 'Parade Grounds', is covered in asphalt and is currently used as a playground.

The current proposal involves the expansion of the existing Dyne House structure to the west towards Southwood Lane through the construction of an adjacent one- to five-storey structure and excavation of a one-level basement to depths of approximately 4.0mBGL (+121.0mOD). This is referred to as the 'Dyne House front extension'. The existing Dyne House structure will be extensively redeveloped; however, it is understood that this will not affect the current building height, basement depth and anticipated building loads. The existing Gym and Geography Building will be demolished and a one- to two-level teaching facility with a one- to three-level basement, referred to as the 'Rear Block', will be constructed in its place. Excavation depths for this proposed basement range between 4.0mBGL and 11.0mBGL, due to the sloping nature of the plot (approximate basement formation level at +107.0mOD for the Rear Block). A one-level bridge link structure, referred to as the 'Bridge Link', is also proposed to connect the redeveloped Dyne House and new teaching facility. No construction is expected to take place within the Parade Grounds.

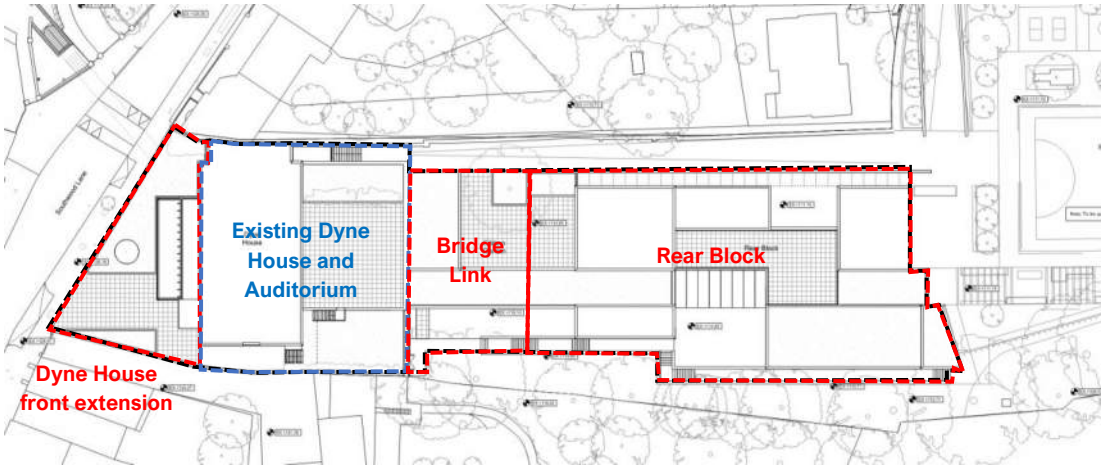
The Dyne House and Island plots are connected via an existing underground link tunnel crossing beneath Southwood Lane. It is understood that no construction works are proposed for this tunnel. The tunnel will be accessible through the proposed one-level basement at the Island plot and the proposed one-level basement underneath the Dyne House extension.

Based on the *Highgate School Dyne House III: RIBA Stage 2 Report* prepared by Expedition Ltd, it is understood that the proposed structures on the Island plot will be supported by 10m-long pile foundations. The Bridge Link and Rear Block are understood to be supported by 15m-long piles, while the existing Dyne House structure and proposed Dyne House front extension will be supported by shallow pad foundations. The excavations are understood to be supported by embedded retaining walls.

The proposed building footprints for the Dyne House and Island plots are shown in Figure 2.2.



(a) Island plot



(b) Dyne House plot

Source: *Highgate Schools Dyne House 3* drawings provided by Expedition Engineering Ltd (04/11/2019).

Proposed building footprints shown in red.

Figure 2.2 Proposed building footprints

3. Ground Conditions

Site-specific ground investigation works were carried out on the project site by Geotechnical & Environmental Associates Ltd (GEA) between March and May 2015 and Listers Geotechnics in 2018. The ground conditions at the site were generally found to comprise the following (in order of succession):

- Made Ground – topsoil and anthropogenic deposits of undifferentiated clays, sands and gravels.
- Bagshot Formation – firm light brown to brown silty sandy gravelly CLAY / SAND with sand partings.
- Claygate Member – firm to stiff brown / orange slightly silty CLAY with occasional silt partings.
- London Clay Formation – stiff to very stiff fissured brown CLAY with occasional rare bands of silty sand.

The above include the strata of engineering interest and significance, taking cognisance of the scale of the proposed development and zone of influence. The thickness of the Bagshot Formation was observed to reduce from west to east, following the slope of the ground surface. In the eastern sections of the site (i.e. underneath the Rear Block and Parade Grounds), the Bagshot Formation was no longer observed, and the Made Ground stratum was found to directly overlie the Claygate Member.

A hydrogeological conceptual model (see Figure Figure 3.1) has been developed based on site investigation data and groundwater monitoring data carried out in Aug 2024.

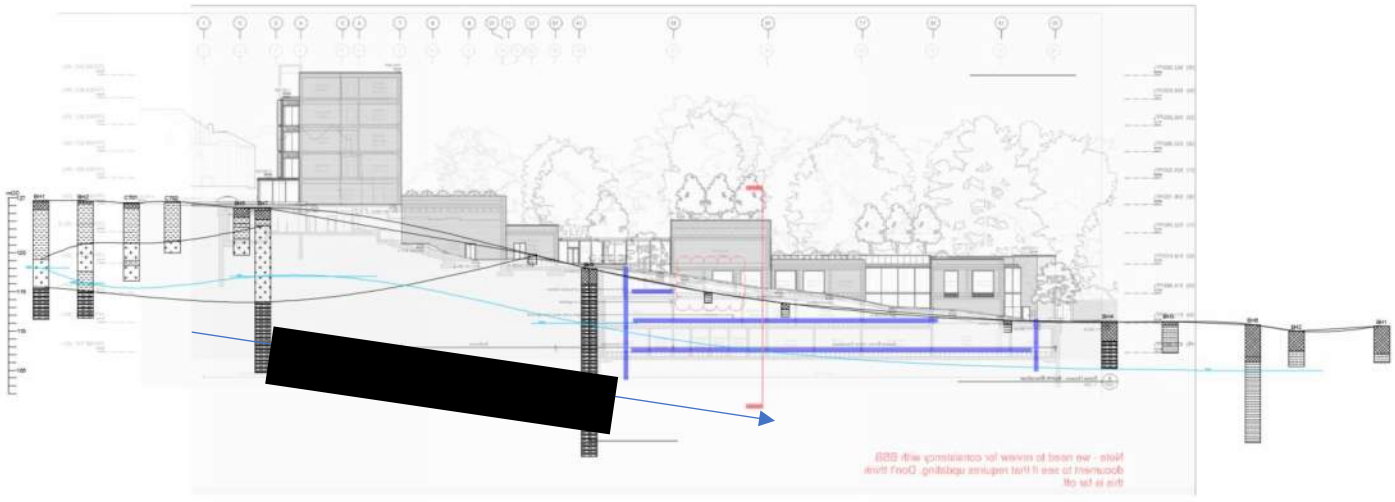


Figure 3.1 Conceptual hydrogeological model (West-East Section through site)

4. Hydrogeological Assessment

The foundations, earth retention system and basement substructure elements will have an inherent impact on the groundwater regime within the Dyne House site footprint and overarching hydrogeological model of the area surrounding the site.

The key interaction mechanism identified is presented indicatively in Figure 4.1. The proposed central area of the site includes a deep basement structure in excess of 10m below current ground level. The basement will be formed by means of an embedded retaining wall and will occupy a substantial portion of the site breadth (north to south). This structure will introduce an obstruction to groundwater flow (flow in a west to east direction), as indicated in the conceptual hydrogeological model presented in Figure 4.1.

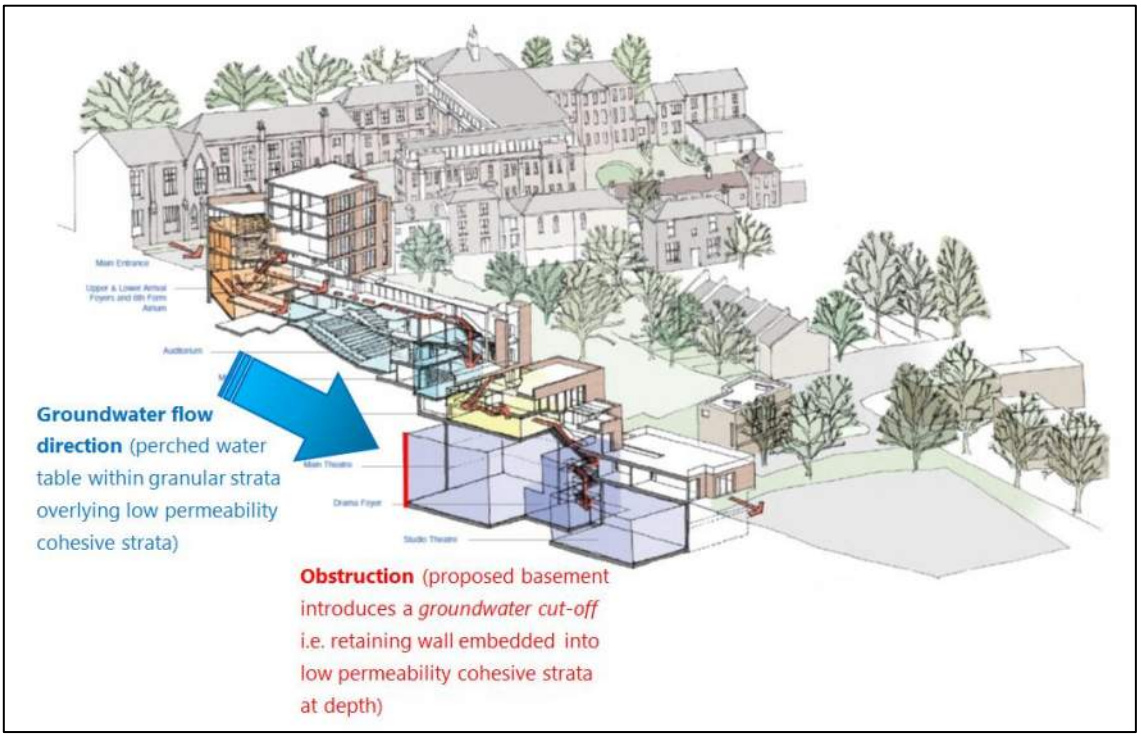


Figure 4.1 Hydrogeological impact assessment (primary interaction mechanism)

It is conservatively assumed that all neighbouring buildings have a basement space which has been modelled to capture the cumulative effects of proposed work on the existing groundwater condition. A further sensitivity analysis has been carried out where the water head in the model has been increased by 1m to allow for seasonality fluctuations.

A groundwater flow impact assessment has been undertaken by means of a three dimensional finite element model (Plaxis 3D) of the scenario outlined above and presented in Figure 4.1. The finite element model incorporates the ground model presented in Section 3. Comparative analyses have been undertaken in order to contrast the hydrogeological conditions pre and post installation of the proposed dyne house extension and rear block basement. The finite element model general arrangement is presented in Figure 4.2. The rear block basement, which is embedded into the underlying less permeable cohesive strata, is shown in orange.

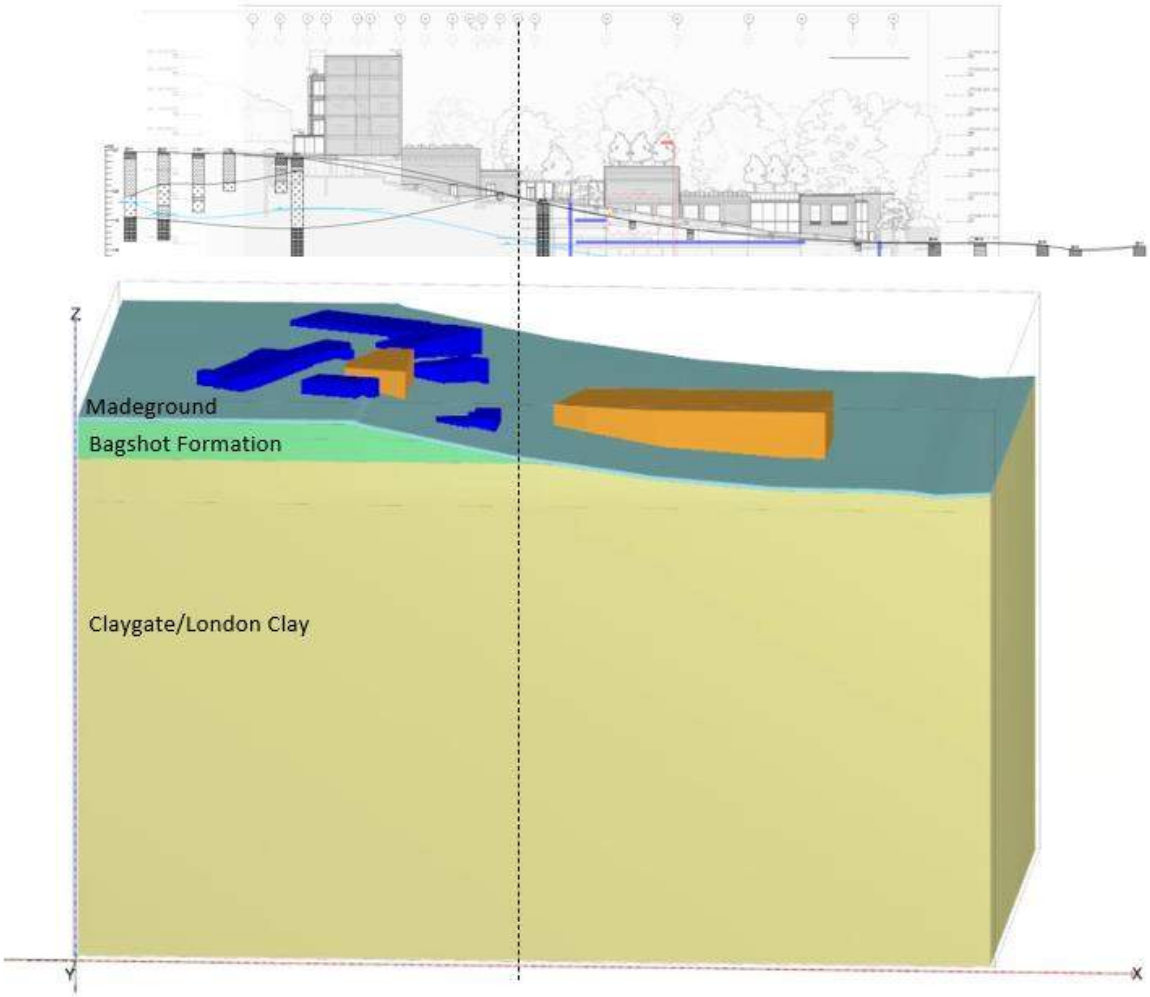


Figure 4.2 Indicative view of the Plaxis 3D groundwater flow impact assessment finite element model

The impact assessment analysis output plots show vectors of groundwater flow around the proposed basement obstacle. A resulting rise in the groundwater table to the rear of the basement wall is observed, however the phreatic water level remains below the assumed neighbouring basement for both baseline and sensitivity analyses. It is observed that in the sensitivity analysis, the phreatic water level intersects the proposed dyne house extension retaining wall toe level as shown in Figure 4.5. However, the neighbouring building basements remained above the phreatic level.

An example of the groundwater flow around the rear block basement is shown below in Figure 4.3.

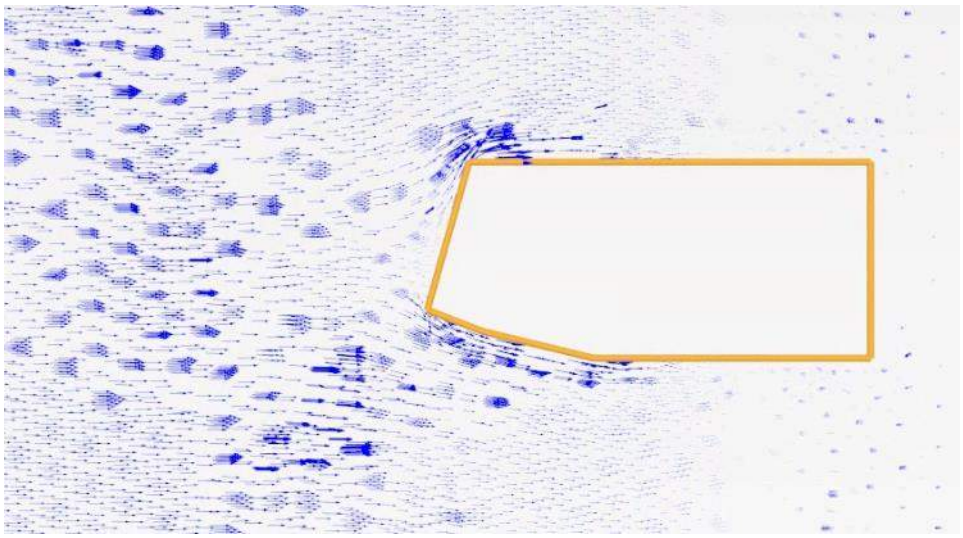


Figure 4.3 Example output from the Plaxis 3D FE model showing vectors of groundwater flow around the proposed rear block basement

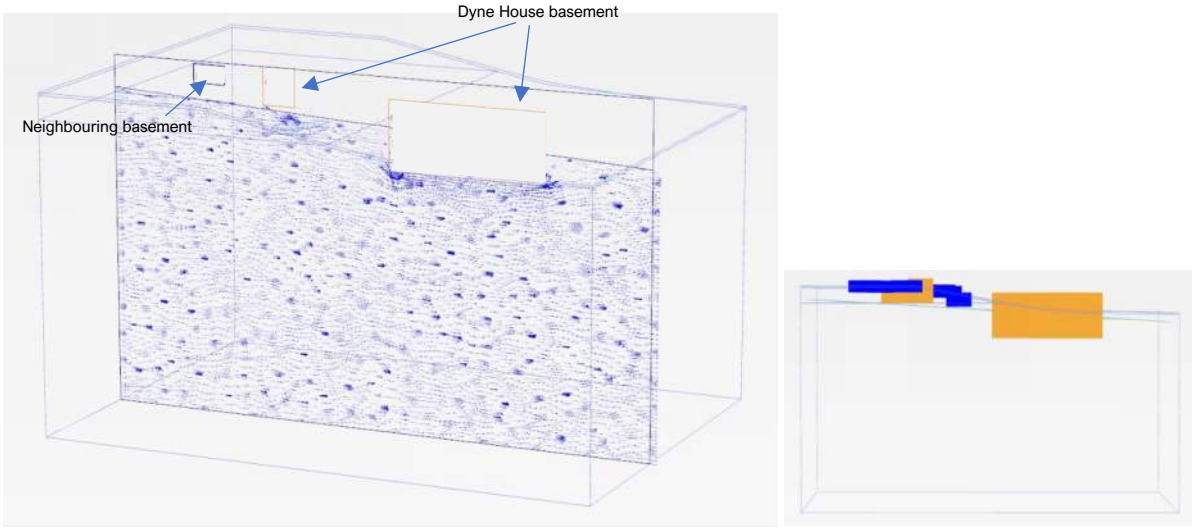


Figure 4.4 Example cross-section output from Plaxis 3D FE model showing the phreatic level post construction – Baseline Model

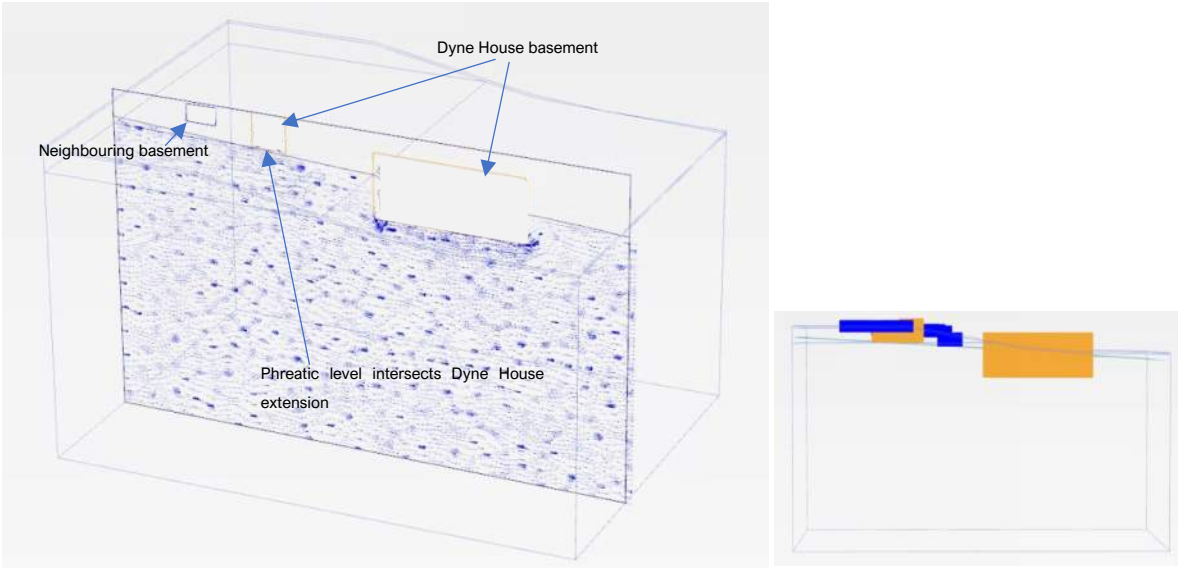


Figure 4.5 Example cross-section output from Plaxis 3D FE model showing the phreatic level post construction - Sensitivity Model

5. Closing Remarks

The hydrogeological study report has been prepared in order to review the impact of the proposed basement on the neighbouring building. The general topography across the site and groundwater monitoring data has been assessed in order to inform the evaluation of the ground model.

The ground model comprises Made Ground overlying granular strata (Bagshot Formation) overlying the Claygate Member / London Clay Formation. The preliminary conceptual hydrogeological model suggests that any groundwater flow would be in a west to east direction (i.e. easterly direction groundwater flows down the Dyne House site slope). The conceptual model is detailed in Section 3, showing a potentially variable perched water table within the upper granular materials overlying the less permeable underlying cohesive strata.

For the purpose of the hydrogeological modelling, it is conservatively assumed that the water level recorded at the upstream (island plot) and Parade Ground is in hydraulic continuity, resulting in groundwater flow downstream which is obstructed by the proposed rear block basement groundwater cut-off retaining wall.

A rise in groundwater level of approximately 1m has been evaluated immediately to the rear of the deep basement obstruction. The rise in groundwater level at the upstream basement side will remain below the assumed neighbouring basement formation levels.

It is recommended that further ground monitoring be undertaken closer to the construction period to ensure that potential groundwater seasonal fluctuation is captured. In addition, it is recommended that this report is reviewed and understood in full by the project team and major stakeholders. Where significant changes are made to scheme design, the engineer should thoroughly review the discrepancy and evaluate any potential impacts on neighbouring buildings. If necessary, the hydrogeological model should be re-evaluated.

A-squared Studio

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Slope Stability

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File Information

File Version: 8.15
Title: 1157 Highgate School - DHI BIA
Comments: SSA for BIA
Created By: SB
Last Edited By: A-squared
Revision Number: 20
Date: 16/08/2024
Time: 11:19:10
Tool Version: 8.15.1.11236
File Name: Dyne House and Island.gsz
Directory: C:\Users\A-squared\Desktop\
Last Solved Date: 16/08/2024
Last Solved Time: 11:19:16

Project Settings

Length(L) Units: Meters
Time(t) Units: Seconds
Force(F) Units: Kilonewtons
Pressure(p) Units: kPa
Strength Units: kPa
Unit Weight of Water: 9.807 kN/m³
View: 2D
Element Thickness: 1

Analysis Settings

Slope Stability

Kind: SLOPE/W
Method: Morgenstern-Price
Settings
- Side Function
  - Interslice force function option: Half-Sine
- PWP Conditions Source: Piezometric Line
- Apply Phreatic Correction: No
- Use Staged Rapid Drawdown: No
- Limit State Design Approach: Eurocode 7 - DA1, C2

Slip Surface
- Direction of movement: Left to Right
- Use Passive Mode: No
- Slip Surface Option: Entry and Exit
- Critical slip surfaces saved: 1
- Resisting Side Maximum Convex Angle: 1 °
- Driving Side Maximum Convex Angle: 5 °
- Optimize Critical Slip Surface Location: No

Tension Crack
Tension Crack Option: (none)
F of S Distribution
F of S Calculation Option: Constant
Advanced
Number of Slices: 30
F of S Tolerance: 0.001
Minimum Slip Surface Depth: 0.1 m
Search Method: Root Finder
Tolerable difference between starting and converged F of S: 3
Maximum iterations to calculate converged lambda: 20
Max Absolute Lambda: 2

Materials

Made Ground

Model: Mohr-Coulomb
Unit Weight: 18 kN/m³
Cohesion': 0 kPa
Phi': 30 °
Phi-B: 0 °
Pore Water Pressure
Piezometric Line: 1

Bagshot Beds

Model: Mohr-Coulomb
Unit Weight: 20 kN/m³
Cohesion': 0 kPa
Phi': 33 °
Phi-B: 0 °
Pore Water Pressure
Piezometric Line: 1

Claygate Member / London Clay

Model: Mohr-Coulomb
Unit Weight: 20 kN/m³
Cohesion': 0 kPa
Phi': 25 °
Phi-B: 0 °
Pore Water Pressure
Piezometric Line: 1

Retaining Wall

Model: High Strength
Unit Weight: 20 kN/m³
Pore Water Pressure
Piezometric Line: 1

Design Factor Set: Eurocode 7 - DA1, C2

Permanent Point Loads & Surcharge Loads: Favorable = 1, Unfavorable = 1
Variable Point Loads & Surcharge Loads: Favorable = 0, Unfavorable = 1.3

Soil Unit Weight: Favorable = 1, Unfavorable = 1
Effective Cohesion: 1.25
Effective Coefficient of Friction: 1.25
Undrained Strength: 1.4
Shear Strength (Other Models): 1.25
Pullout Resistance: 1.1
Shear Force: 1.1
Tensile Strength: 1.1
Compressive Strength: 1.1
Seismic Coefficients: 1
Earth Resistance: 1

Slip Surface Entry and Exit

Left Projection: Range
Left-Zone Left Coordinate: (2, 204.4635) m
Left-Zone Right Coordinate: (103, 202.125) m
Left-Zone Increment: 15
Right Projection: Range
Right-Zone Left Coordinate: (214.77706, 188.783) m
Right-Zone Right Coordinate: (336, 188.783) m
Right-Zone Increment: 15
Radius Increments: 4

Slip Surface Limits

Left Coordinate: (0, 204.4635) m
Right Coordinate: (336.3363, 188.783) m

Piezometric Lines

Piezometric Line 1

Coordinates

	X (m)	Y (m)
Coordinate 1	0	195.9643
Coordinate 2	96.0448	195.9643
Coordinate 3	151.9958	191.8291
Coordinate 4	152.1363	183.7645
Coordinate 5	212.3896	183.7645
Coordinate 6	212.3896	187.3871
Coordinate 7	261.2774	183.783
Coordinate 8	336.3363	183.783

Surcharge Loads

Surcharge Load 1

Surcharge (Unit Weight): 90 kN/m³
Direction: Vertical

Mode: Permanent

Coordinates

	X (m)	Y (m)
	116.0244	200.9053
	128.589	200.9053

Surcharge Load 2

Surcharge (Unit Weight): 30 kN/m³
Direction: Vertical
Mode: Permanent

Coordinates

	X (m)	Y (m)
	129	196.9776
	142.292	196.9776

Points

	X (m)	Y (m)
Point 1	0	50
Point 2	0	204.4635
Point 3	80.6994	204.4635
Point 4	96.071	203.9635
Point 5	102.5373	203.8239
Point 6	102.5373	199.9347
Point 7	128.589	199.878
Point 8	128.589	195.9776
Point 9	142.292	196.0075
Point 10	142.2981	195.4741
Point 11	151.9958	195.4235
Point 12	151.9958	183.7645
Point 13	212.3896	183.7645
Point 14	212.3896	188.783
Point 15	336.3363	188.783
Point 16	336.3363	50
Point 17	0	202.4635
Point 18	102.5373	202.4635
Point 19	212.3896	187.783
Point 20	336.3363	187.783
Point 21	0	190.8239
Point 22	151.9958	190.8239
Point 23	142.29602	195.65591
Point 24	103	203.8239
Point 25	103	199.93369
Point 26	129	199.878
Point 27	129	195.94449
Point 28	152.6	195.4235
Point 29	152.6	183.7645

Point 30	211.8	188.783
Point 31	211.8	183.7645

Regions

	Material	Points	Area (m^2)
Region 1	Made Ground	2,17,18,5,4,3	197.55
Region 2	Claygate Member / London Clay	21,1,16,20,19,13,31,29,12,22	46,561
Region 3	Made Ground	15,14,19,20	123.95
Region 4	Bagshot Beds	10,23,27,8,7,25,6,18,17,21,22,11	1,543.2
Region 5	Retaining Wall	5,24,25,6,18	1.7998
Region 6	Retaining Wall	7,26,27,8	1.6099
Region 7	Retaining Wall	11,22,12,29,28	7.0444
Region 8	Retaining Wall	14,30,31,13,19	2.9589

Current Slip Surface

Slip Surface: 1,128
F of S: 1.400
Volume: 1,713.6747 m^3
Weight: 34,242.059 kN
Resisting Moment: 723,953.51 kN-m
Activating Moment: 517,025.08 kN-m
Resisting Force: 7,724.8191 kN
Activating Force: 5,518.3874 kN
F of S Rank (Analysis): 1 of 1,280 slip surfaces
F of S Rank (Query): 1 of 1,280 slip surfaces
Exit: (222.85859, 188.783) m
Entry: (97.852756, 203.92503) m
Radius: 84.994767 m
Center: (167.22179, 253.03763) m

Slip Slices

	X (m)	Y (m)	PWP (kPa)	Base Normal Stress (kPa)	Frictional Strength (kPa)	Cohesive Strength (kPa)
Slice 1	98.381866	203.19427	-72.598217	8.8741234	4.098782	0
Slice 2	100.72414	200.18235	-44.758013	47.843085	24.85573	0
Slice 3	102.76865	197.63206	-21.229275	85.412271	44.373902	0
Slice 4	103.91726	196.3388	-9.3788066	49.837396	25.891827	0
Slice 5	107.07319	193.06929	20.397901	103.06576	42.94811	0
Slice 6	110.98998	189.3424	54.108587	175.77073	45.38559	0
Slice 7	114.34626	186.52678	79.288613	226.23799	54.818897	0
Slice 8	118.1185	183.70948	104.18373	351.80318	92.373478	0
Slice 9	122.3067	180.92204	128.48454	405.69319	103.41161	0
Slice 10	126.4949	178.47399	149.45695	454.86399	113.93091	0
Slice 11	128.7945	177.22602	160.02899	400.7133	89.786351	0
Slice 12	131.21533	176.08529	169.46149	382.92827	79.632955	0

Slice 13	135.646	174.16187	185.11305	424.19465	89.188466	0
Slice 14	140.07667	172.52808	197.92419	461.71641	98.406665	0
Slice 15	142.29401	171.78053	203.64828	443.25654	89.384934	0
Slice 16	142.29706	171.7796	203.65525	441.60404	88.765873	0
Slice 17	144.72252	171.11344	208.43019	456.10375	92.393663	0
Slice 18	149.57137	169.93269	216.4953	486.67007	100.78765	0
Slice 19	152.06605	169.40505	180.36792	500.76361	119.52237	0
Slice 20	152.36815	169.35117	141.35157	501.85106	134.48294	0
Slice 21	154.71429	168.99536	144.84098	286.7813	52.950286	0
Slice 22	158.94286	168.47371	149.95679	302.56666	56.930521	0
Slice 23	163.17143	168.16582	152.97629	314.46952	60.244425	0
Slice 24	167.4	168.06935	153.92233	322.25213	62.79478	0
Slice 25	171.62857	168.18359	152.80201	325.62905	64.472456	0
Slice 26	175.85714	168.50938	149.60693	324.27879	65.160662	0
Slice 27	180.08571	169.04921	144.31287	317.85622	64.739676	0
Slice 28	184.31429	169.80724	136.87889	306.00491	63.091808	0
Slice 29	188.54286	170.78952	127.24566	288.36853	60.106262	0
Slice 30	192.77143	172.00423	115.33298	264.59987	55.683436	0
Slice 31	197	173.46205	101.03612	234.36562	49.738055	0
Slice 32	201.22857	175.17669	84.220695	197.34463	42.200442	0
Slice 33	205.45714	177.16561	64.715296	153.21656	33.015054	0
Slice 34	209.68571	179.45117	42.300834	101.63711	22.135169	0
Slice 35	212.0948	180.85451	28.538307	194.10556	61.764221	0
Slice 36	214.41008	182.38727	47.572511	149.13686	37.888188	0
Slice 37	218.45103	185.26403	16.438573	83.702001	25.092361	0
Slice 38	221.07689	187.28714	-5.3005521	36.143763	13.483291	0

Slice 39	222.27043	188.283	-15.929837	12.582402	5.8115626	0

CONSTRUCTION METHODOLOGY AND MANAGEMENT PLAN

NOVEMBER 2019

DYNE HOUSE 3 & ISLAND SITE



BLUE SKY BUILDING

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APPENDIX | Falcon Tower Crane Quotation

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1.0 Executive Summary

Blue Sky Building was appointed to carry out a review of the construction programme and logistics for the refurbishment, part demolition and extension of the Dyne House 3 project, on behalf of Highgate School.

This report considers the programme and logistics impact of the project. These proposals can be considered as a Construction Management Plan for inclusion in the Planning Application Submission and subsequently to form the basis of detailed Plans by Contractors when appointed.

The Dyne House 3 project involves the extensive refurbishment of Dyne House and construction of a new extension, replacing the former gym and classroom buildings at the rear of the site. The site slopes steeply from west to east and north to south, and represents a considerable challenge in terms of design and construction logistics.

The project includes a smaller building on the Island Site opposite, linking into the existing Dyne House pedestrian tunnel and providing a new electrical substation and toilet facilities.

Programme Summary

Our Overall Summary Programme overleaf indicates a construction programme of 124 weeks or 31 months. Forecast durations are based on what we would consider a realistic delivery programme against which Highgate School might consider to add contingency in overall development planning terms, and set shorter targets when procuring the works.

A key point will be discovery and evaluation of unknowns as they arise. Refurbishment and structural adaption of buildings carries risks of additional or prolonged works due to unexpected finds. Building structures and services should be thoroughly explored and surveyed to the fullest possible extent that can be accommodated in the live environment before conclusion of designs.

Programme Periods

Our programme periods are based on the RIBA Stage 2 design currently available and will be subject to fluctuation as design develops. The programme period reflects the full closure of the main Dyne House site to school activities for the duration of the works, and recognises the logistical difficulties of the site.

Works to the Island Site are programmed at 56 weeks or 14 months. Criticality of start and completion of that part of the project has some flexibility.

General Deliveries

Pre-app discussions with Haringey have ruled out the use of Kingsley Place for delivery of materials and that is respected in our logistics proposals. Principle construction access will be from Southwood Lane to the front of the building and most deliveries will be able to enter the site for loading and offloading. Vehicle space is small and will be at a premium, calling for strong logistical management by the contractor. Discussion and agreements of deliveries using Southwood Lane should include both Haringey and TfL.

Plant access is allowable via Kingsley Place, although the steep, winding nature of the road and extensive resident's parking are an issue. Any use of the route will require careful management and forward planning.

Piling Design

We have had preliminary discussions with Expedition regarding the option of sheet piling and bored piling for the perimeter wall of the basement extension. Our logistics proposals concur with the Stage 2 report based on sheet piling which would be more manageable for site preparation. Bored piling would take place from the lower levels of basement, where a level and compacted piling mat will be easier to construct.

Cranage & Logistics

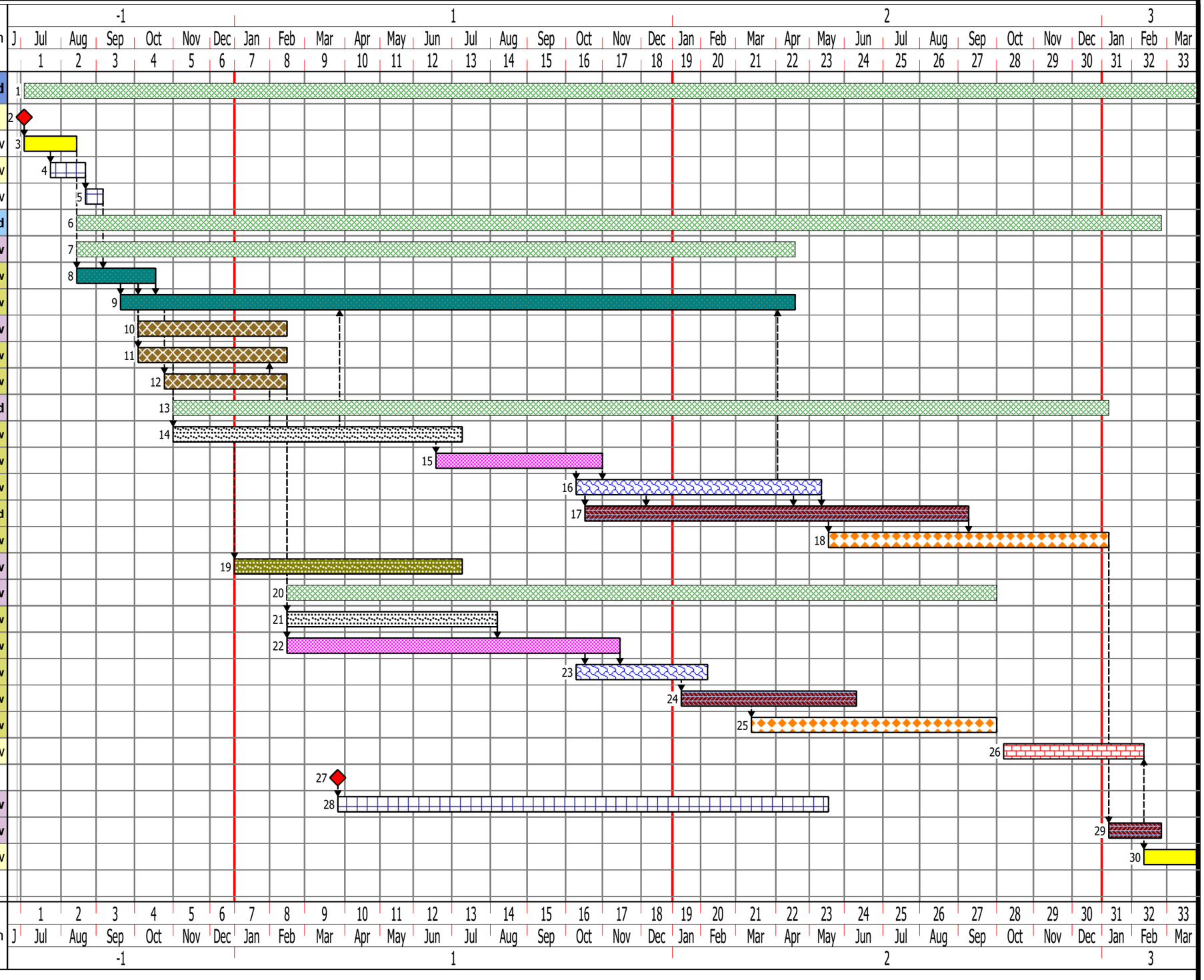
Our proposals include two luffing jib tower cranes to service the superstructure and envelope phases of construction. The proposals are supported by a budget quotation from Falcon Cranes which is included for information as an appendix. Tenderers should be encouraged to offer their own alternatives when bidding the project.

Please refer overleaf to the Summary Programme

Highgate School Dyne House 3

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Line	Name	Duration
1	**Highgate School Dyne House & Island Site**	**133w 4d**
2	Dyne House, Gym and Geography Close End of Yr	
3	School Decant Space	6w
4	R&D Asbestos Survey	4w
5	Asbestos Notice Period	2w
6	**Construction Programme**	**123w 4d**
7	**Enabling Works**	**82w**
8	**Early Works**	**9w**
9	**Scaffolds & Logistics**	**77w**
10	**Demolition**	**17w**
11	**Rear Buildings**	**17w**
12	**Dyne House Cladding Etc.**	**14w**
13	**Rear Extension**	**106w 4d**
14	**Substructure Rear Building**	**33w**
15	**Superstructure Rear Building**	**19w**
16	**Envelope Rear Extension**	**28w**
17	**Core Installations Rear Extension**	**43w 4d**
18	**Fit Out Rear Extension**	**32w**
19	**Sewer Diversion**	**26w**
20	**Dyne House & Auditorium**	**81w**
21	**Front Basement**	**24w**
22	**Dyne House Structural Work**	**38w**
23	**Envelope Dyne House & Auditorium**	**15w**
24	**Core Installations**	**20w**
25	**Fit Out Dyne House**	**28w**
26	External Works	16w
27	Term End	
28	**Island Site**	**56w**
29	**Close Out**	**6w**
30	School Decant and Running Up	6w



Build Stages

School · Key Milestone · Enabling Works · Fit Out · Substructure · 12 HO · Superstructure · Envelope · Services · Foul/SW Connect · Demolition · External Works

Programme :Highgate School Dyne House 3	Client: Highgate School	Notes: Draft for Discussion
Drawn by: TJC	Page: 1 of 1	Revision No. 0
		Revision Date: 01/11/2019

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2.0 Constraints

Location



The Dyne House site forms an integral part of the Senior School and is located on the east side of Southwood Lane and slopes steeply down from west to east. Most of the proposed works take place on that site of Southwood Lane with a smaller section of works on the Island Site. The Island Site is the main site of the senior school on the west side of Southwood Lane and the sites are linked by an existing pedestrian tunnel. The Dyne House site and the link tunnel will be completely closed to school operations for the duration of the works.

The steep slope of the site east to west, and to a lesser degree north to south makes for a difficult location regarding earth retention and accessibility for construction plant and materials movements. The retained Dyne House building virtually fills the width of the site frontage to Southwood Lane with just a narrow (small car width) ramp passing the southern elevation to a terrace car park beyond.

There is a small area of hardstanding between the building and back of pavement with crossovers to allow vehicle entry. The area currently includes some raised planters that limit access, although these are to be removed in the development proposed. There is also a tank below ground with uncertain loading capability which is also due to be removed.

Behind Dyne House and further down the slope of the site are the existing gym, pool and associated buildings that are to be demolished under these proposals. At the lowest level is the “parade ground”, an area of level hardstanding beyond the building line and accessible from Kingsley Place.

The Kingsley Place access is suitable for small vehicles only. A gate provides a direct point which is occasionally used for maintenance access to the school site. Undertakings have been given to Haringey and neighbours that the access will not be used for construction material deliveries and only for occasional plant.

Roads and Access Points

Southwood Lane serves the front of the site where vehicles can get off road onto the front hardstanding of Dyne House. It is a two-lane B road linking directly to the TLRN at its junction with the A1 Archway Road. Whilst it is heavily trafficked and includes stretches with parking bays it is navigable by all vehicles. It serves as a relief road or emergency bus route when closures occur around Highgate so TfL will have a strong interest in its use and will need to be party to any agreements for road closures (for crane erection).

The frontage to Dyne House includes telecoms manholes and cabinet, a post box and lamppost. Some temporary removal of those might be possible to improve access and reduce risk of damage.

Southwood Lane is also the only access route to the Island Site.

Kingsley Place which serves the lower level rear of the site is a residential, steep, narrow, winding street with parking bays on both sides. Even for occasional plant access it is difficult to navigate for all but the smallest vehicles.

We understand that Swept Path Analysis confirms that a full articulated vehicle can reach the site through Kingsley Place but that some street bollards would need to be removed to achieve it.



Southwood Lane Frontage



Kingsley Place entrance ramp as existing

Neighbours

The site is surrounded by mainly residential property and the school itself on the opposite side of Southwood Lane. One property, 16 Southwood lane, shares a party wall with Dyne House so would be particularly susceptible to construction noise during structural interventions to the retained building.



Pedestrians

Southwood Lane is not heavily trafficked by pedestrians, except for school use which will be limited to the west side during construction. Pavements both sides of the road should be kept open throughout the works with traffic marshalling and temporary barriers employed during vehicle movements and kerbside loading.

Concurrent Construction Projects

There are no large construction projects known to be proceeding in the area currently. The contractor will be required to keep local planning applications under review and to liaise with other contractors regarding logistics planning and delivery routes where appropriate. There are potential development sites on the south side of the Dyne House site, but no firm proposals have been made for those at present.

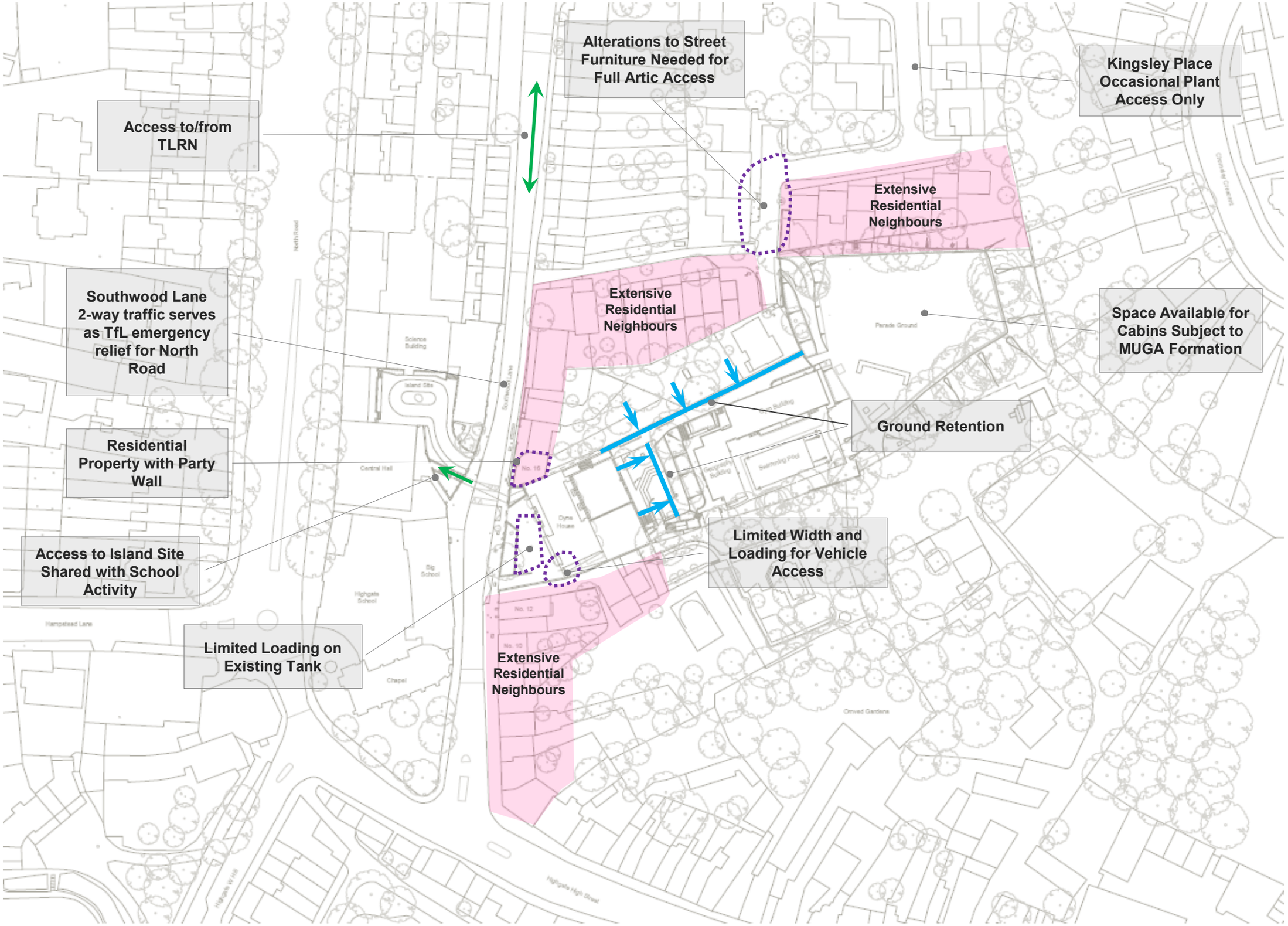
Existing Buildings

The structural frame of Dyne House is proposed to be retained, with some structural alteration. Its envelope and interior fittings will all be removed and the outbuildings behind it will be demolished in entirety. It is expected that normal levels of Asbestos Containing Materials will be present for buildings of this age, although much will have been removed under previous refurbishments. A full R&D survey will be undertaken when buildings are vacated.

Some of the structural characteristics of the buildings also remains subject to survey but it is intended that as much concrete and dense masonry as possible can be initially retained on site for construction of a piling platform.



Please refer overleaf to drawing BSB-DH-001 - Constraints



PROJECT:	Dyne House & Island Site		
CLIENT:	Highgate School Estate		
TITLE:	**Site Constraints**	**DRAWING NO.:**	BSB-DH-001
		REVISION NO. & DATE:	Rev 0 – 17/10/2019

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3.0 Logistics

Materials Deliveries and Cart Away

The efficient management of the site logistics will be vital to the success of the project. A key strategy of logistics for a construction project is to ensure that the products and materials arrive on site at the required time, in the quantities that are required, and that delivery and distribution can be managed efficiently. The same can be said for removal of volume materials including demolition waste and bulk excavation.

The Dyne House site offers some unique constraints on materials movements. The combined effect of the steeply sloping site and the retained building being close to the full width of the frontage call for a particularly well managed approach to construction logistics. Access for large components or multiple deliveries is constrained by the layout and the agreement made to use only the Southwood Lane frontage for materials movements. We understand that a logistics approach that minimises impact on neighbours is essential. The rear access from Kingsley Place has been considered for plant deliveries only.

We have proposed an approach to logistics that reflects the site constraints. The project will require a variety of equipment and methods as works proceed. Two tower cranes are envisaged to deal with the bulk movements through demolition and construction, augmented by hoists and small equipment through the early works and fit out stages.

Early Works

A key factor in making the early works stages as efficient as possible will be to open the site for fast clearance of waste as soon as possible. The frontage will provide good space for vehicle access and skips once the planters are removed and the underground tank is removed or strengthened. Early demolition would focus on removing some brickwork to maximise the width of the ramp to the terrace car park and knocking down the rear stair to make way for hoists.

The level change between the terrace and the garden below is a particular obstacle. We propose an external platform hoist, a skip hoist and a lifting beam (below) or be erected early in the programme for the movement of vegetation, demolition waste and excavated material toward the top of the site. Any plant for that location should be selected to allow entry via the southern ramp to the terrace and would be erected by spider crane pending erection of the tower cranes.







Crane Strategy

Two luffing jib cranes are proposed. The cranes are needed for site coverage to support construction of substructure, superstructure and envelope; and, to move materials from front to back of the site.

TC1 would be a luffing jib crane erected through the terrace area to the rear of Dyne House itself. Once the rooms below the terrace are certified clear of asbestos and live services a mini piling rig would be manoeuvred through the building to place mini piles for a crane base. An opening would also be cut through the terrace level for the mast. The crane we have selected has a 50m jib to allow a good reach for erection of the second crane and has a 3-tonne lifting capacity at full reach. That capacity is suitable for erecting the second crane and provides a good level of coverage for concrete frame construction and general material movements. If pre-cast panels form part of the envelope design, then a larger capacity would be needed. The crane has a luffing jib and a reduced out of service radius to ensure oversailing of neighbouring properties can be omitted by computer limiting.

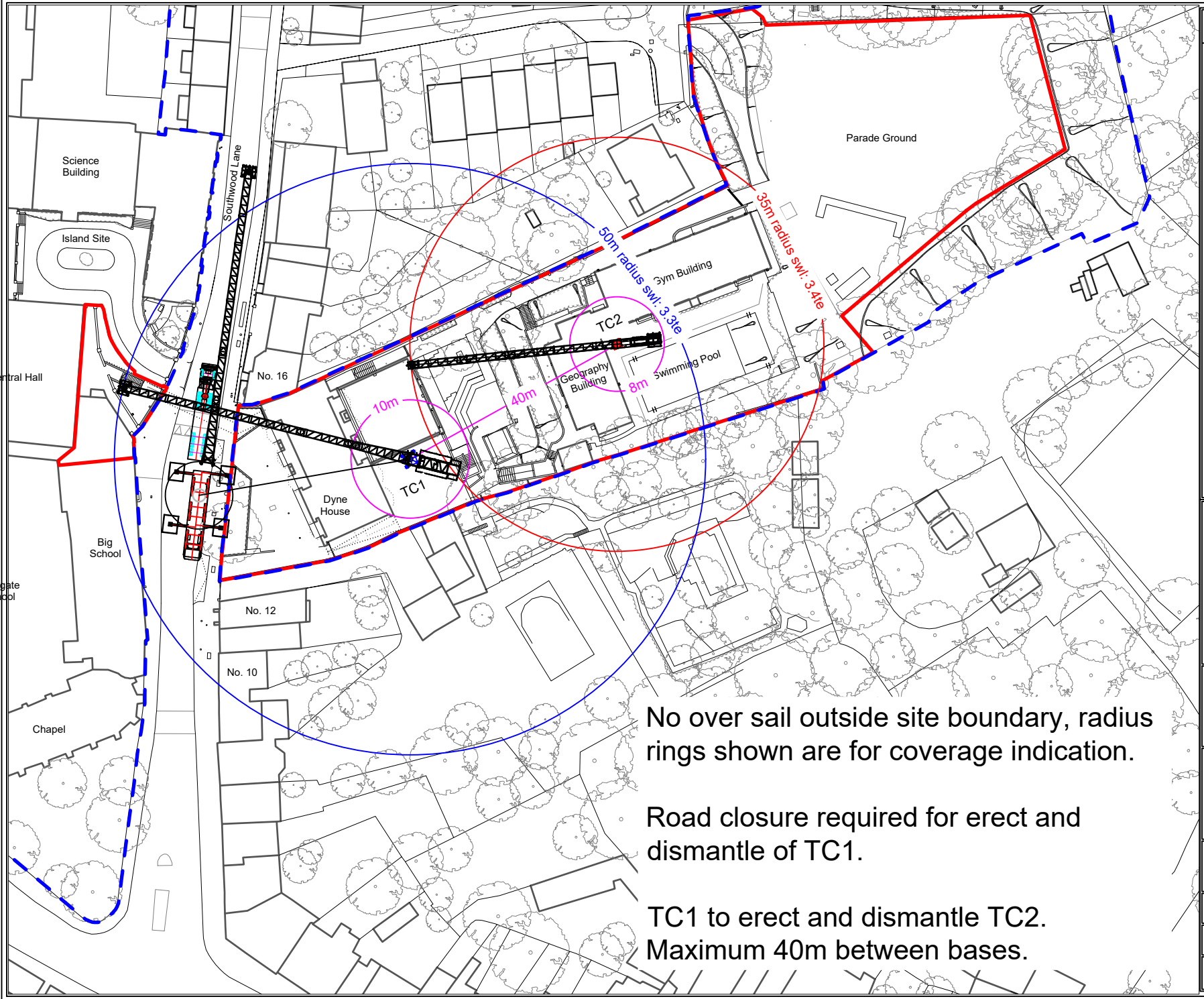
The first tower crane would be erected by mobile crane from Southwood Lane. The crane required to erect it needs a fly jib, so a 3-day road closure could be required (depending on the time of year and available hours of daylight for lifting).

TC2 is a similar crane but with a shorter jib (35m). It is located centrally to ensure that its out of service radius does not oversail neighbouring properties and lifting would be computer limited as for TC1. The crane would be erected by TC1, with a weekend road closure. Both cranes jibs would be assembled in Southwood Lane, so a carefully managed process needs to take place with agreement well in advance with Haringey, TfL and neighbours.

When planning multiple tower cranes for sites it is preferred that each crane has its own pick up point to make it fully efficient. Here there is unavoidably only one pick up point so there will be double handling of materials to the rear of the site.

The dismantle process would be a reverse procedure with TC2 removed by TC1 etc. A copy of Falcon Crane's estimated for the selected cranes is included as an appendix although alternative strategies and suppliers are available.

Crane Strategy Drawings – our crane strategy drawings titled 'Falcon SP226-01-10-19 TC & E&D Layout' and 'BSB-DH-005' are included overleaf.



No over sail outside site boundary, radius rings shown are for coverage indication.

Road closure required for erect and dismantle of TC1.

TC1 to erect and dismantle TC2.
Maximum 40m between bases.

This drawing is for reference only. Falcon Tower Crane Services Ltd accepts no responsibility or liability for any information contained within. All dimensions to be checked by site.

TC1 J208 luffing

50m jib
26,6m tower
Fixing angles

Reduced 10m out of service radius

TC2 J118 luffing

35m jib
20m tower
Fixing angles

9m out of service radius

FALCON TOWER CRANE SERVICES LTD

Shipdham Airfield Industrial Estate
Shipdham, Norfolk. IP25 7SD

Telephone: 01362 821048
Fax: 01362 821233
e-mail: falcon@falconcranes.co.uk

CLIENT: Blue sky Building

PROJECT: Highgate School

TITLE: TC & E&D layout

SCALE: To fit

DATE: 01.10.19

DRAWN BY: SP

DRAWING NO.: SP226-01-10.19

REV:

TC1 erected by mobile crane
from Southwood Lane.
2-3 day road closure.

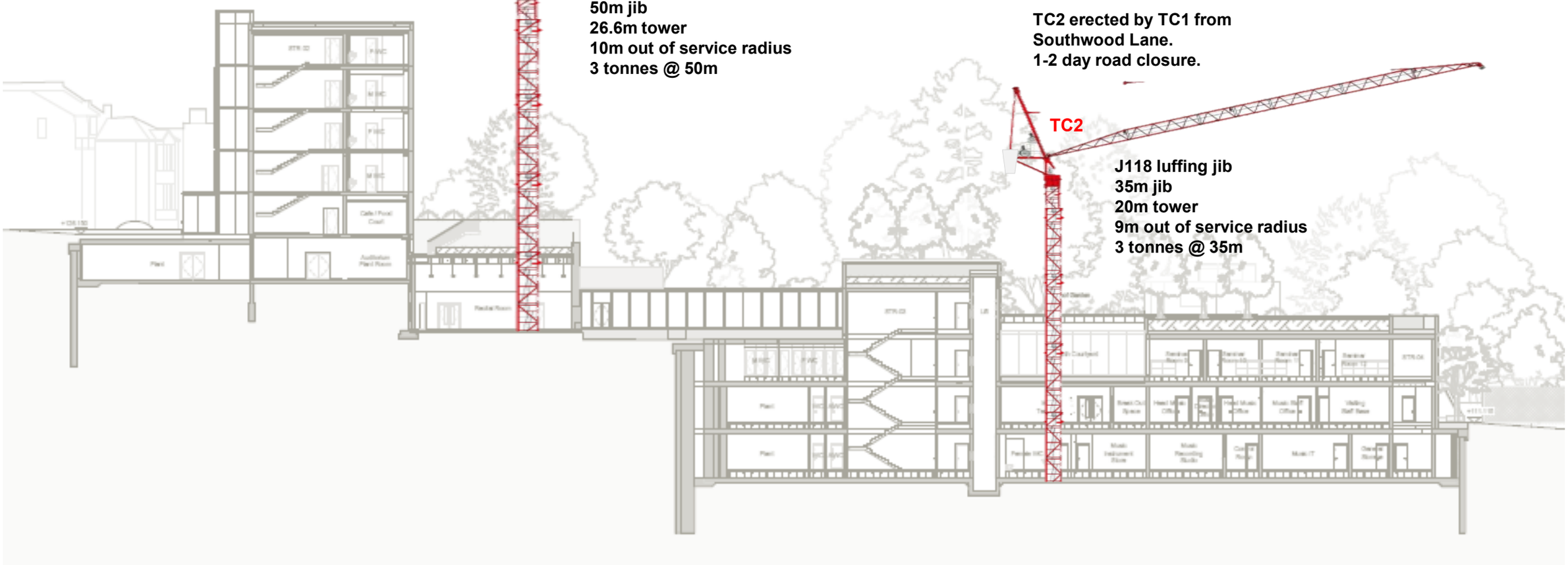
TC1

J208 luffing jib
50m jib
26.6m tower
10m out of service radius
3 tonnes @ 50m

TC2 erected by TC1 from
Southwood Lane.
1-2 day road closure.

TC2

J118 luffing jib
35m jib
20m tower
9m out of service radius
3 tonnes @ 35m



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PROJECT:	Dyne House & Island Site	**DRAWING NO.:**	BSB-DH-005
CLIENT:	Highgate School Estate	**REVISION NO. & DATE:**	Rev 0 – 22/10/2019
TITLE:	**Crane Strategy**		

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Conveyor Belts

Removal of waste material from stripping out and demolition and arisings from bulk excavation and piling will generally be labour intensive, using bins, mini dumpers and barrows to move materials up the site to skips located on the frontage. Conveyor belts could be used to assist movement.



Welfare

Welfare accommodation would initially be set up inside the vacated buildings until the rear gate and Kingsley Place can be made ready for delivery of cabins to the parade ground. Cabins would be sized for the minimum of disruption in transporting them into site and positioned to allow early progress on construction of the MUGA without having to re-site units.



Key Materials Movements – our table of key materials handling appears overleaf and summarises the preferred delivery methods for all key materials.

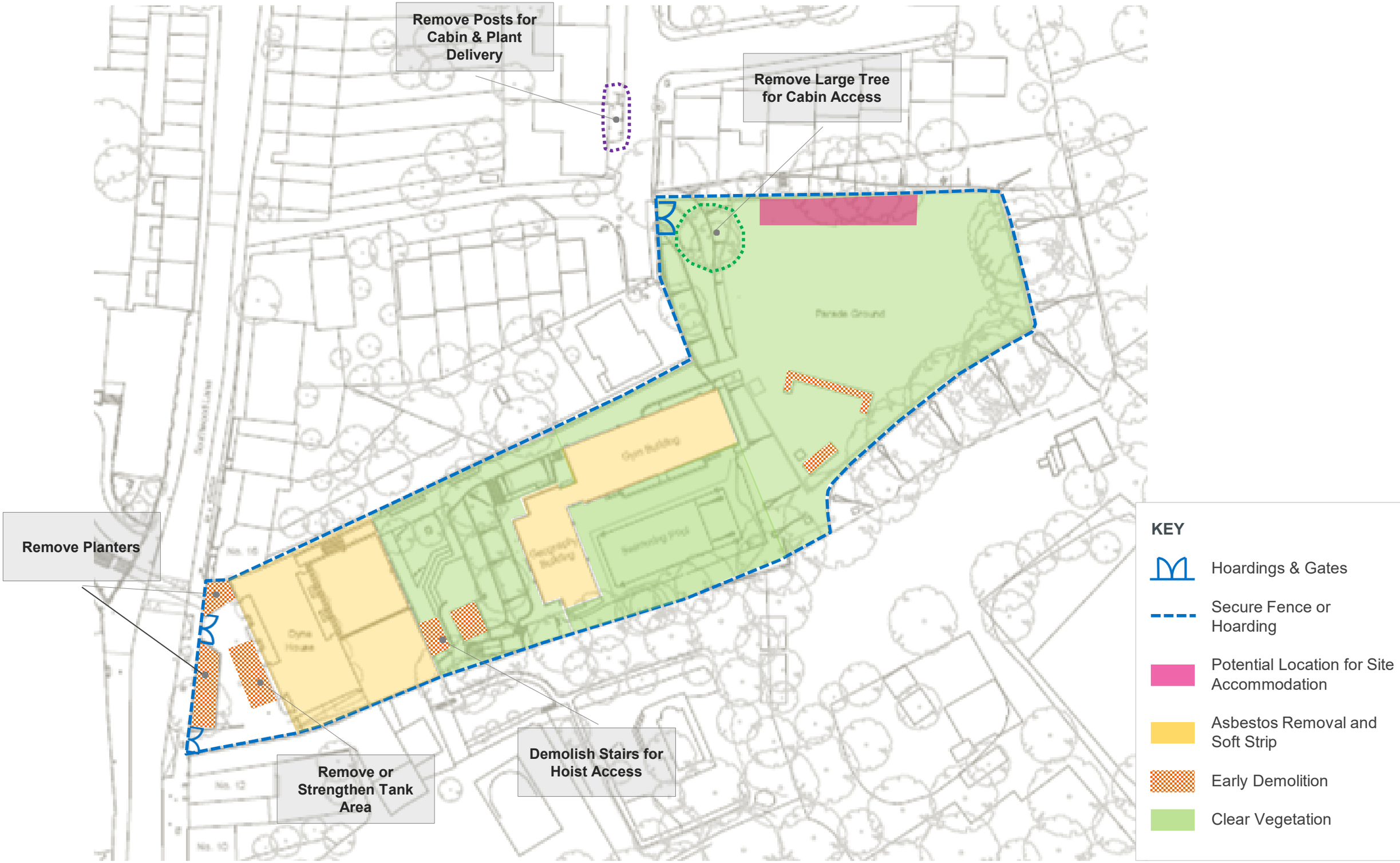
Key Materials Movements

Element	Number/ Type of delivery	Heaviest Lift	Key Constraints	Likely Method
Site Establishment				
Welfare	Cabins to Parade Ground/ New MUGA area	c 2 tonne	Permissible under the rules of use for Kingsley Place (as it's Construction Plant). Units may be of limited length due to the road itself and access is further restricted through the site gate until the large tree is removed and the entry ramp reconfigured.	Jackleg units, sized to negotiate Kingsley Place and the entry gate. Small mobile crane needed to offload and stack units. Welfare to initially be set up inside school buildings until site is prepared. Layout to allow completion of landscape works to MUGA.
Scaffolding	Multiple deliveries of tube and boards.	Small	Permissible under the rules of use for Kingsley Place (as it's Construction Plant). Deliveries needed to top and bottom of site.	Deliver and lift to compound on parade ground using Hiab. Distribute to rear of building by hand/ forklift/ pallet trolley. Deliver to frontage of Southwood Lane for Dyne House. Deliver to kerbside on Southwood Lane for Island Site.
Tower Crane	Occasional. Disruptive events.	Major lifts	Cranes can only be delivered and erected from Southwood Lane and will require weekend road closures for erect and dismantle. Southwood Lane is TfL emergency bus route and will require TfL agreement in addition to Haringey.	TC1 erected by large mobile crane from Southwood Lane. 3-day road closure needed (for configuration of mobile and fly jib due to long reach needed). TC1 will lift and erect TC2 from Southwood Lane. Reverse procedure for dismantling.
Hoists and Lifting Beam plant	Small plant and equipment delivery and erection	1 Tonne	Vehicle access limited to small vehicles.	Select initial equipment of suitable size to be delivered to terrace by small vehicle/ trolley and erect using small spider crane or winch. Larger hoist for vertical access to Dyne House to be erected by tower crane.
Asbestos unit (if required – subject to survey)	Trailer unit v. build inside	Small	Site access limits size and location of unit that can be delivered.	Check smallest trailer unit for access to terrace or create decontamination shower inside existing building. Don't place on frontage as that space is critical for wider use.
Demolition & Stripping Out				
Soft strip/ screeds & asbestos waste	Multiple moves of debris, timber and metal components, glass, general rubbish.	Small	The slope of the site restricts material movement.	Locate large roll on roll off skips on Southwood Lane frontage (after removal of planters). Move stripped materials by hand, powered trolley or bins with the assistance of platform hoist and hand fill skips.
Roof level materials	Multiple items of roof materials and debris.	Depends on structure	The slope of the site restricts material movement from the rear buildings. Bringing down from height for Dyne House.	Hand strip materials, send to ground via chute or empty riser for loading away by hand to skips for sorting and disposal off site.
Roof Plant	Items of HVAC plant, lift motors and switch panels at roof level	Up to ½ Tonne	Bulky items. Difficult to move vertically through the building.	Break down into manageable pieces for loading away via lifting beam to ground level or leave in position until TC available.
Facades	Multiple loads of masonry debris and windows	Small	The slope of the site restricts material movement from the rear buildings. Bringing down from height for Dyne House.	Lift robot breakers to upper levels using TC. Remove windows into floors. Drop to ground floor in empty riser or lift shaft. Load to skips on frontage. Lift large pre-cast elements to ground. Any suitable material to be transferred down the hill for crushing and use in piling mat.

Element	Number/ Type of delivery	Heaviest Lift	Key Constraints	Likely Method
Demolition & Stripping Out (cntd.)				
Rear superstructures	Multiple loads of masonry and concrete debris and rebar	Small	The slope of the site restricts material movement from the rear buildings.	Deliver small “city” crusher to parade ground and use with acoustic enclosure. Excavator with breaker attachment to demolish buildings. Suitable material to be crushed for use in piling mat. Unsuitable debris and rebar to be lifted by crane and skip to waiting skips at frontage.
Concrete Ground slabs and pool	Multiple loads of concrete debris and rebar	Small	The slope of the site restricts material movement from the rear buildings.	Keep slabs in position initially to help stabilise site while the first sheet piling is done. Break out slabs with excavator and crush as above.
New Sub-Structure				
Sheet piling/ Bored Piling	Rig for boring, sheet piler then multiple deliveries of sheets, concrete and rebar plus removal of muck away	Small/ numerous	Site access slope and dimensions limit size of rig, size of excavator for spoil, crane for servicing piling	Restricted access rig needed for piling, delivered from Kingsley Place. Sheet piling machine delivered to frontage and lifted by TC. TC to service piling. Pump concrete from front. Conveyors and skip hoist for muck away to skip in site access.
Propping	Heavy propping	Up to 1 tonne	Slope of site and front access limitations	Temporary works design to carefully consider size of propping and handling method. Largest components to be delivered to front for TC lifting.
Excavation	Constant volume earth moving	Medium	Slope of site and lorry movements	Load material by TC and skip to waiting skips or tippers on frontage.
New floors - concrete	Multiple slab pours	Formwork & rebar	All deliveries to frontage with limited space	Ready mix concrete delivered to site frontage for placement via static pump and boom. Formwork and re-bar delivered to frontage for TC offloading and placement.
Island Site	Multiple small deliveries	I Tonne	Limited access and site space, close proximity to live school areas.	Manage deliveries to suit timetable. Use visiting mobile cranes in school down time or small spider crane within site boundary.
New Superstructure				
New concrete frame	Formwork, rebar and concrete	Multiple.	All deliveries to frontage with limited space	Ready mix concrete delivered to site frontage for placement via static pump and boom. Formwork and re-bar delivered to frontage for TC offloading and placement.
Scaffold	Traditional scaffold as access and edge protection	Multiple	All deliveries to frontage with limited space	Deliver to front for TC offloading.
Stairs	Consider design for best materials handling	Stairs need to be small components or in-situ concrete	All deliveries to frontage with limited space	Traditional formwork and pumped concrete in-situ stairs. If precast units are proposed, then size of cranes may need to be increased
Larger components	Steelwork? Framing? Prefabricated enclosures?	Limited opportunities	All deliveries to frontage with limited space	Design for traditional methods and components within TC capacity

Element	Number/ Type of delivery	Heaviest Lift	Key Constraints	Likely Method
Building Envelope				
Perimeter wall inner skin	Consider Metsec, or similar panelised skin	Multiple lightweight	All deliveries to frontage with limited space	Deliver to front for TC offloading.
Brickwork & internal block work	Multiple deliveries	Small/ Medium	All deliveries to frontage with limited space	Deliver to front for TC offloading.
Roofing Materials	Multiple deliveries	Small/ Medium	All deliveries to frontage with limited space	Deliver to front for TC offloading.
Panelised cladding & glass	Multiple deliveries	Mostly medium but large glass units to some location	All deliveries to frontage with limited space. Crane limitations to be considered when sizing glass panels (including future replacements)	Deliver to front for TC offloading.
Windows,	Multiple deliveries	Small/ Medium	All deliveries to frontage with limited space	Deliver to frontage on rigid lorry for TC offloading.
Mortar	Daily deliveries of ready mixed mortar tubs during blockwork and brickwork operations	Small	All deliveries to frontage with limited space	Delivery by small vehicle for distribution by TC and platform hoist
M&E Plant / Fit Out				
Plant & Switchgear to basement	Several large deliveries	> 1 Tonne	All deliveries to frontage with limited space. Access to plant spaces gets progressively more restricted with site progress.	Consider programme and lead in to ensure plant can be delivered and placed at the optimum time, when the TC is still in place. Plant to be sized for best handling, including plant replacement strategy.
Switchgear to Island	New switch panels	< 1 Tonne	Limited access and site space, close proximity to live school areas.	Panels to be designed in sections to suit accessibility to site. Offload by Hiab at kerbside, move by forklift and install.
Lifts	New lifts to install. Multiple deliveries including long pieces	Medium. 1-2 tonnes max	All deliveries to frontage with limited space	Design in sections that can be offloaded by Hiab and distributed by lifting beam and platform hoist.
Plant	Plant to roof	Small	All deliveries to frontage with limited space	Ensure delivery before TC is dismantled.
Internal fitting out/ general materials	Plasterboard, M&E components, flooring, ceiling, kitchens, bathrooms, etc. Multiple deliveries.	Small	All deliveries to frontage with limited space	Deliver by small vehicle directly into site for distribution by pallet truck and platform hoist. Use hoist and cranes as far as possible. Load out floors as early as possible and subject to weathertight conditions to make full use of the external platform hoist or TC. Keep platform hoist until permanent lifts are available – then allow beneficial use.

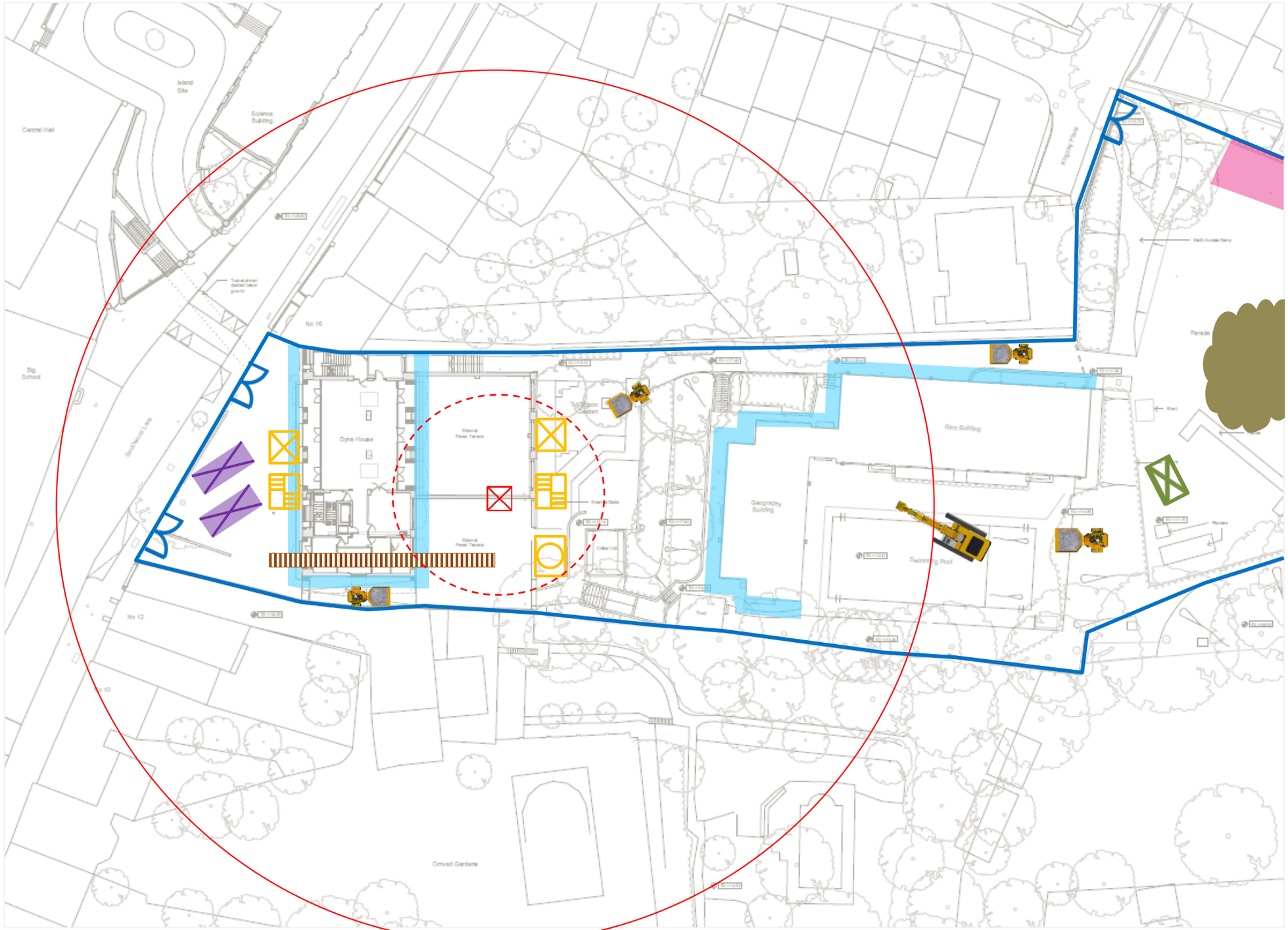
Logistics Plans – please refer overleaf to the Site Logistics Plans.



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PROJECT:	Dyne House & Island Site
CLIENT:	Highgate School Estate
TITLE:	**Early Works**
DRAWING NO.:	BSB-DH-002
REVISION NO. & DATE:	Rev 0 – 17/10/2019

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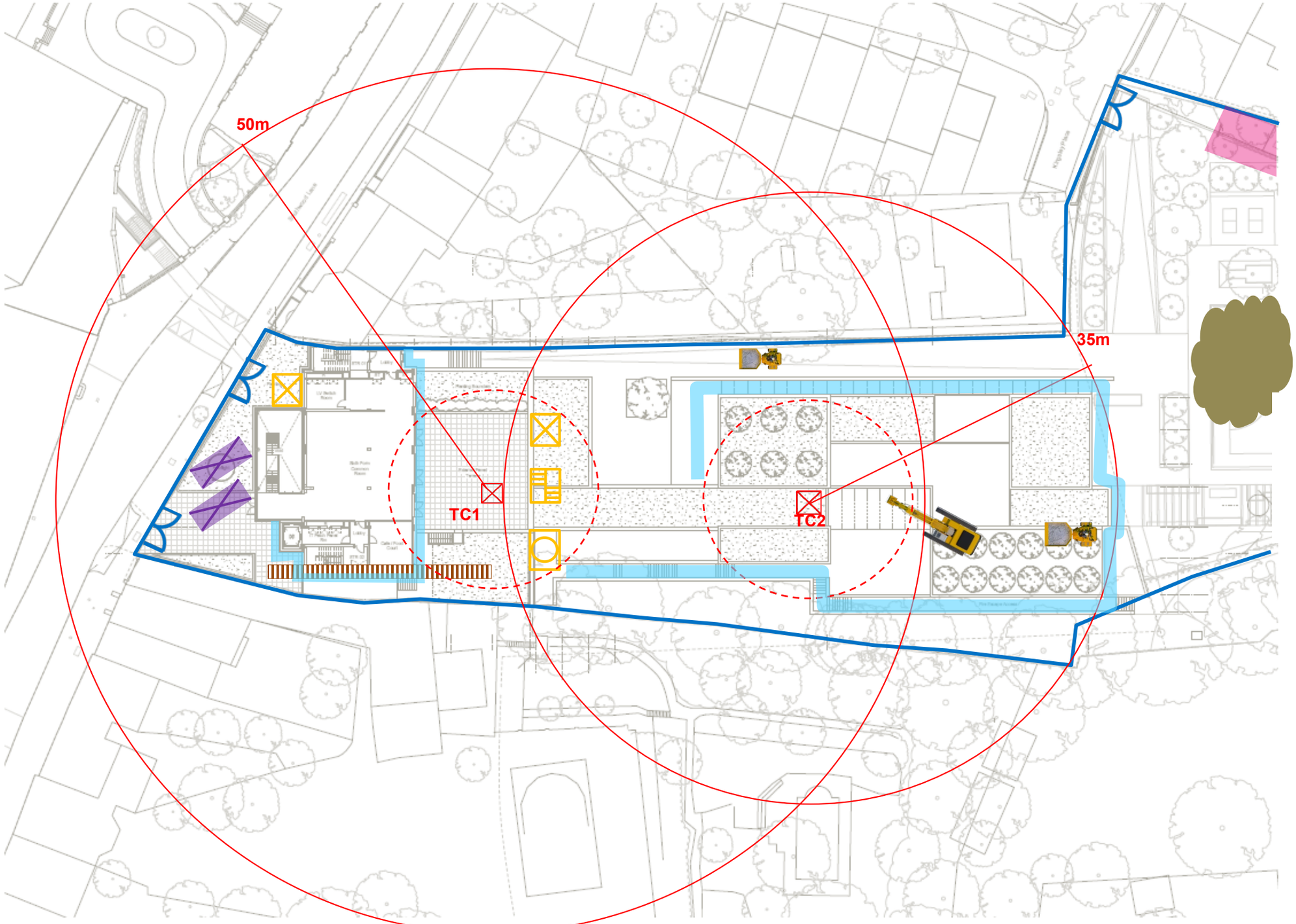
KEY

- Hoardings & Gates
- Site Accommodation
- Demolition Scaffold/ Screen
- Luffing Tower Crane
- Out of Service Radius
- Stair
- Platform Hoist
- Muck Away Hoist
- Crusher
- Crushed Material Stock Pile
- Conveyor
- Skip Locations

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PROJECT:	Dyne House & Island Site
CLIENT:	Highgate School Estate
TITLE:	**Demolition Logistics Plan**
DRAWING NO.:	BSB-DH-003
REVISION NO. & DATE:	Rev 0 – 22/10/2019

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KEY

- Hoardings & Gates
- Site Accommodation
- Scaffold/ Screen
- Luffing Tower Crane
- Out of Service Radius
- Stair
- Platform Hoist
- Muck Away Hoist
- Crushed Material Stock Pile
- Conveyor
- Skip Locations

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PROJECT:	Dyne House & Island Site		
CLIENT:	Highgate School Estate		
TITLE:	**Superstructure & Envelope**	**DRAWING NO.:**	BSB-DH-004
		REVISION NO. & DATE:	Rev 0 – 22/10/2019

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4.0 Programme

Early Works

We have assumed that the best time to vacate Dyne House and the rear buildings would be at the end of a school year so have shown decant and start of construction commencing through the summer holiday. The school will need some time to decant school property before handing over spaces to the contractor. If possible, the decant and handover can happen in stages to allow the most efficient start up. Prior to start the contractor would have a mobilisation period during which permissions and arrangements should be put in place with Haringey and TfL, and neighbourhood liaison should take place to provide detail to neighbours on how the works will be executed.

Early enabling works will include making the site safe and secure with solid secure hoardings and gates onto Southwood Lane. Street furniture and comms cabinets would be removed subject to approvals and the existing crossovers improved or widened if required. Raised planters to the forecourt would be removed to improve access and the underground tank either lifted and backfilled, or strengthened to allow road loading on its lid whichever the contractor finds most practical.

From Kingsley Place enabling works to allow cabins and plant to access the parade ground should happen early. This will include temporary removal of bollards in the public realm (subject to approval) and the widening of the school gate and vehicle ramp. The tree that blocks the entrance way should be felled at this stage.

A solid timber hoarding and gates should be erected to replace the fence at Kingsley Place to screen the working area from residential property and to assist in the containment of noise and dust. Existing boundary fences to the remainder of the site should be inspected in the mobilisation period and replaced or strengthened as appropriate.

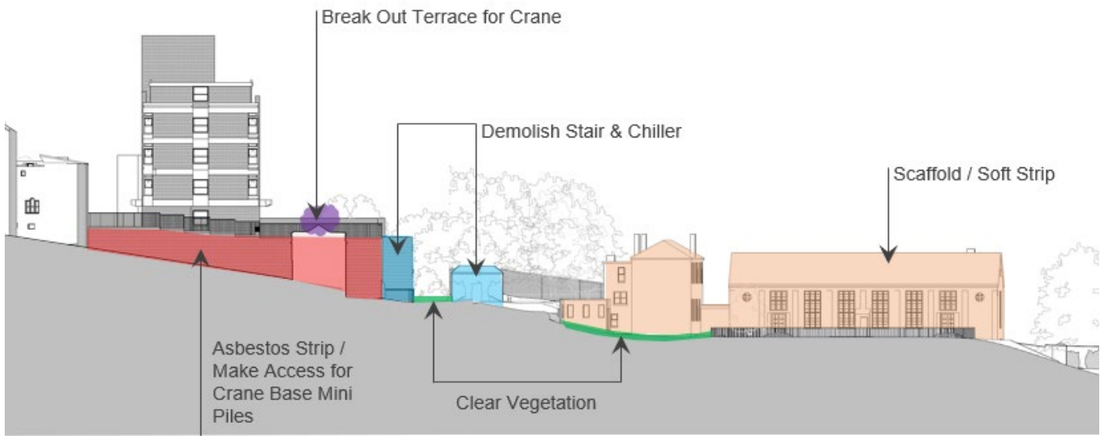
Site accommodation would initially be established inside existing buildings while the rear gate and parade ground is made ready to receive them. Site services for the works should involve taking power and water supplies from existing services in the vicinity (in preference to using generators and bowsers). A Refurbishment & Demolition Asbestos Survey would be undertaken as soon as practical.

Stripping Out and Logistics

The first key focus areas of stripping out and demolition are to make the site workable with plant installed to move materials out. The south ramp should be widened by removing non load bearing brickwork. The rear external stairs would be demolished to make way for mechanical hoists. A route through the building to be broken out to allow a mini piling rig to access the proposed location for TC1 to undertake temporary works.

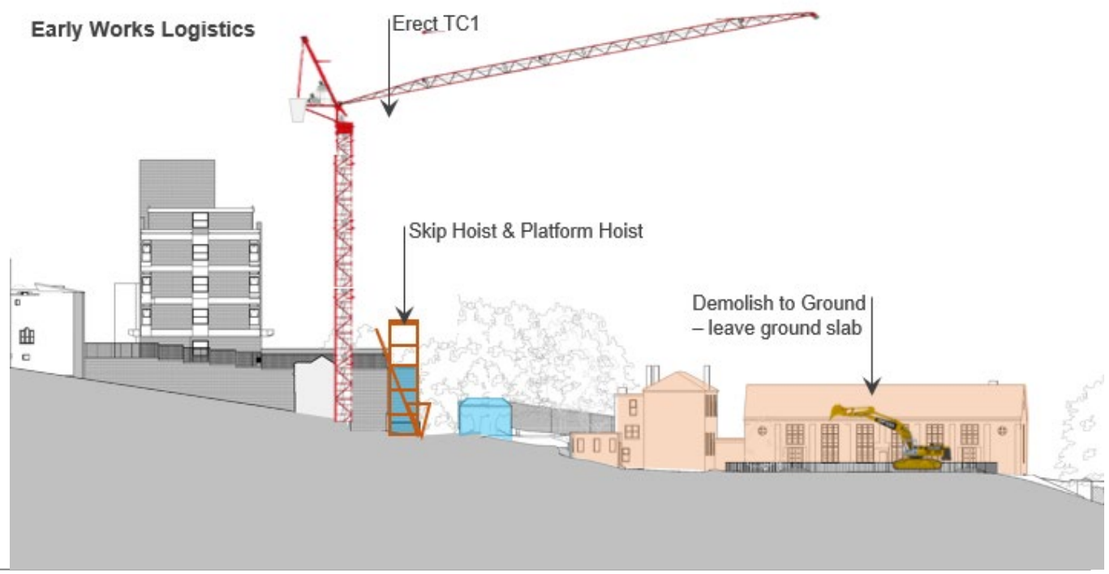
Once hoists and the first tower crane are in position stripping out of the buildings can proceed in earnest, together with clearance of the external areas of vegetation and redundant fixtures fittings and hardstandings. As the insides of buildings are stripped, mostly by hand, waste materials will be carried up the site by powered barrow, mini dumper or crane hook as appropriate. Scaffolds will be erected to the rear buildings and Dyne House to allow the stripping of windows, roofs and external plant. Scaffolds would be clad externally in Monarflex sheet to help limit dust and noise breakout.

Early Works

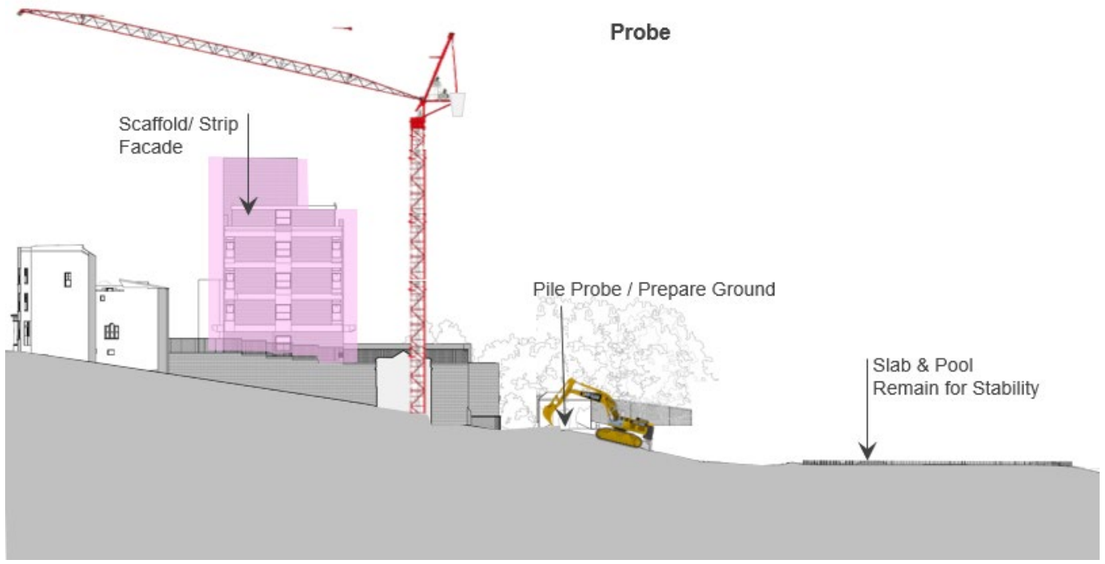


Demolition

When soft strip and logistics provision is complete the hard demolition of the rear buildings can proceed. The buildings will initially be demolished down to ground level with the concrete ground structure and pool left in place to provide stability to the upper levels of the site.



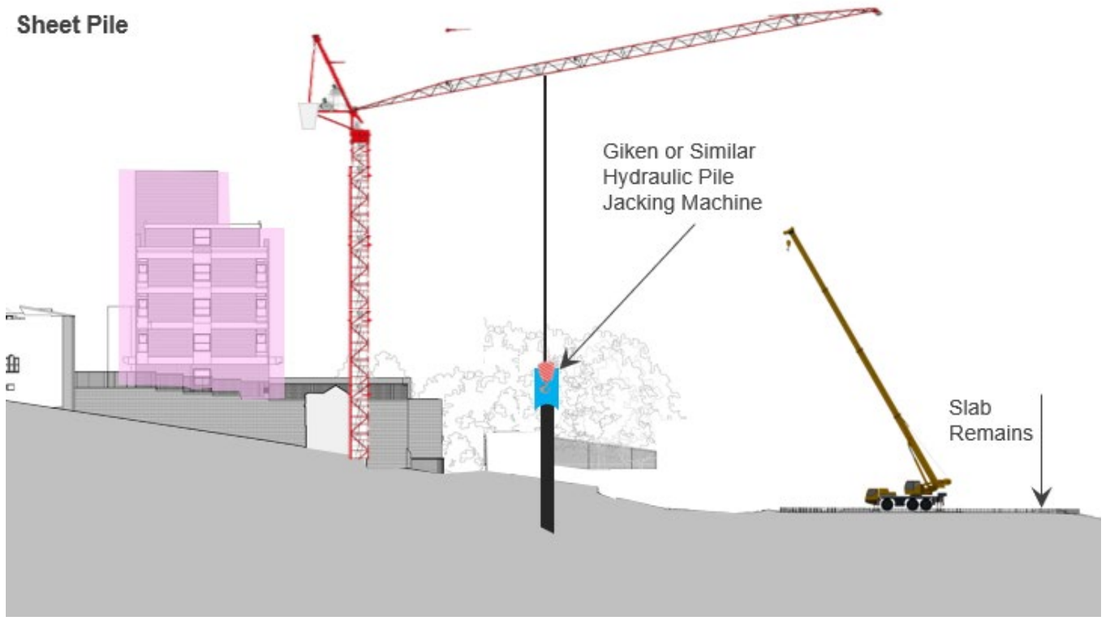
Waste arising from hard demolition, including concrete and dense masonry will be crushed on site and stockpiled for use in piling mat construction. Rebar will be separated from the concrete debris and removed as scrap for recycling. When the rear site is cleared demolition focus will switch to the facades and roof of Dyne House while ground preparation and pile probing is undertaken for the top level of the new rear extension.

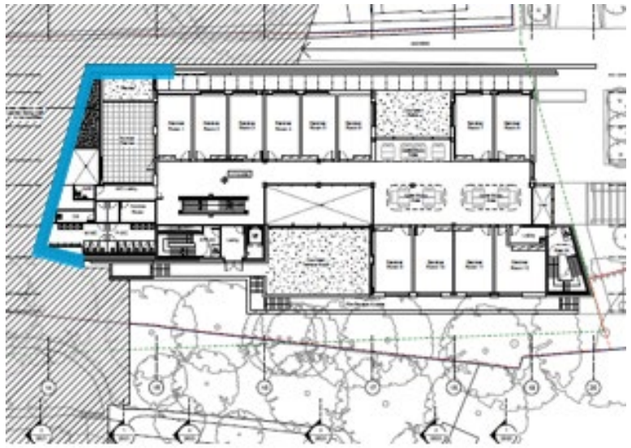


Sheet Piling

Sheet piling would ideally be carried out using a hydraulic pile jacking machine as manufactured by Giken or similar. The machine would be supported by either the tower crane or a small mobile crane and once initial piles are in will “walk” along the piles already placed. Piling in this way negates the need for a level piling mat for a traditional piling rig which would be difficult to achieve and would require temporary ground retention for the top level of piling.

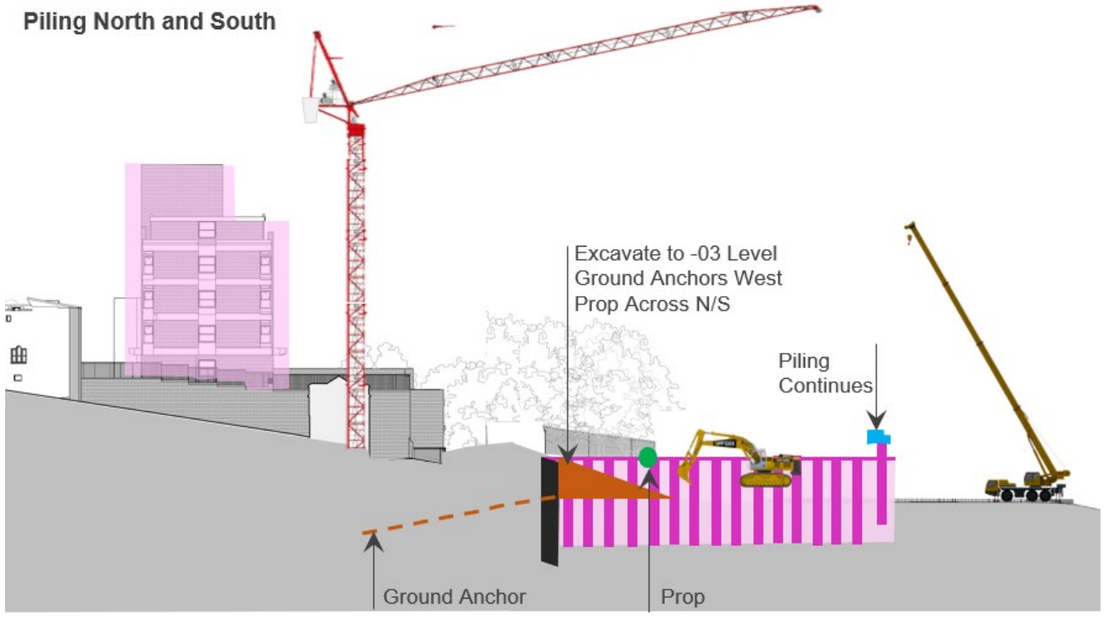




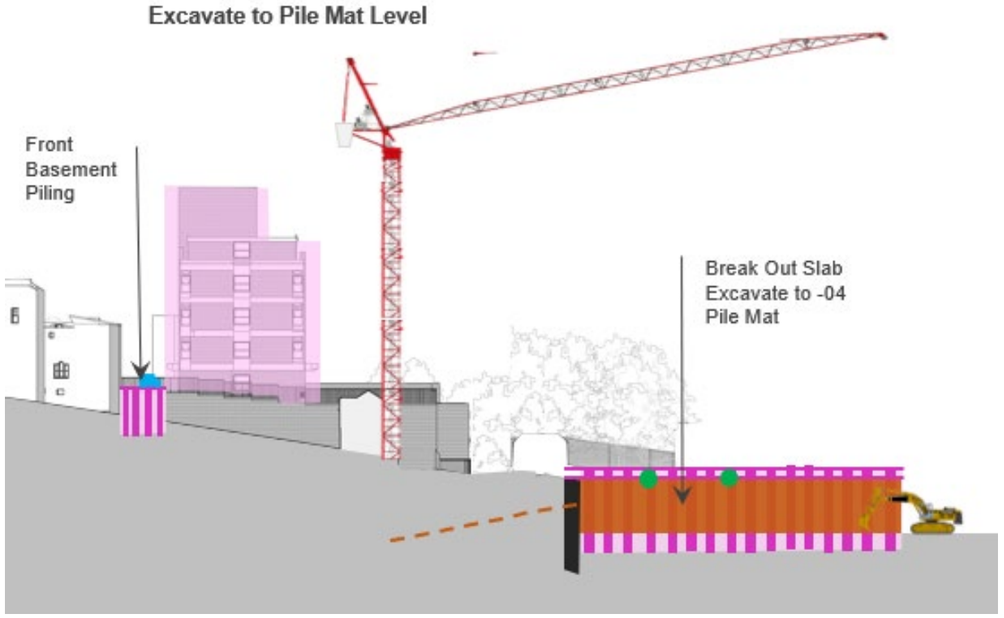


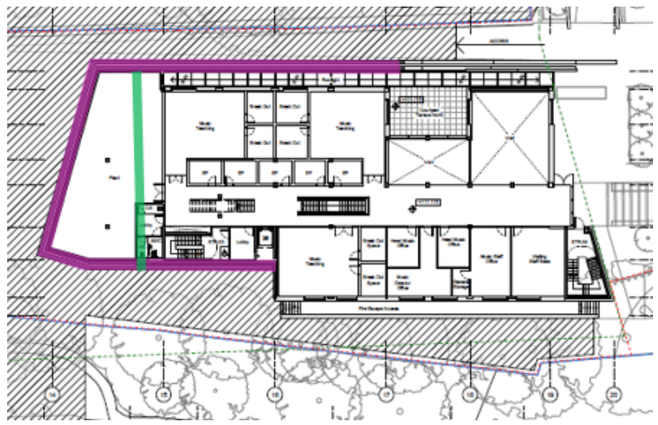
If possible (subject to ground conditions and temporary works design), the west elevation of sheet piled wall would be supported with ground anchors inserted below the level of the existing and proposed Thames sewer. Ground anchors would be wholly within school’s property so should not require agreement beyond Thames Water.

When the West wall piling is in place the north and south elevations would proceed using the same piling technique. Edges of the remaining ground slabs or hardstanding may need to be removed as work proceeds but as much slab as possible would be left in position until perimeter piling is complete.



With sheet piling sufficiently advanced the remaining ground slabs and pool will be broken out and temporary propping introduced in accordance with temporary works design. Bulk excavation arisings will be lifted by crane and skip to waiting tippers at the front of the building. Excavation will proceed down to around level -04 and a piling platform laid using compacted demolition arisings, augmented with additional imported material if required.



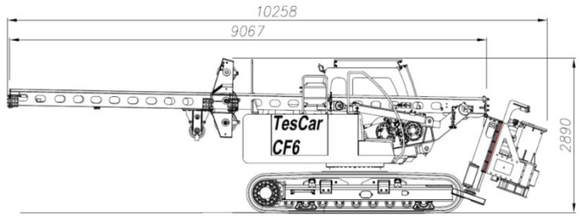




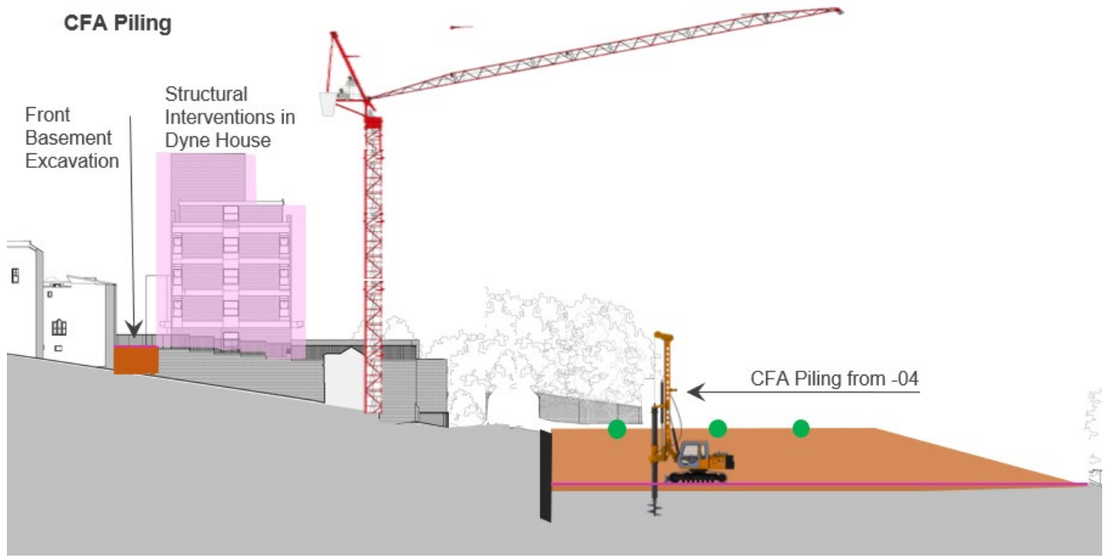
Load Bearing Piles

By undertaking load bearing piles at the lower level (rather than at an earlier stage) the piling platform can be constructed without the need for temporary earth retention. To pile from this level requires a restricted access rig that can be moved between propping zones which will need to be carefully designed to fulfil propping duties and to allow piling to proceed. We have identified the Tescar CF6 Rig as suitable for site access from Kingsley Place, able to produce 650mm diameter CFA piles and having a two-section mast for manoeuvrability.

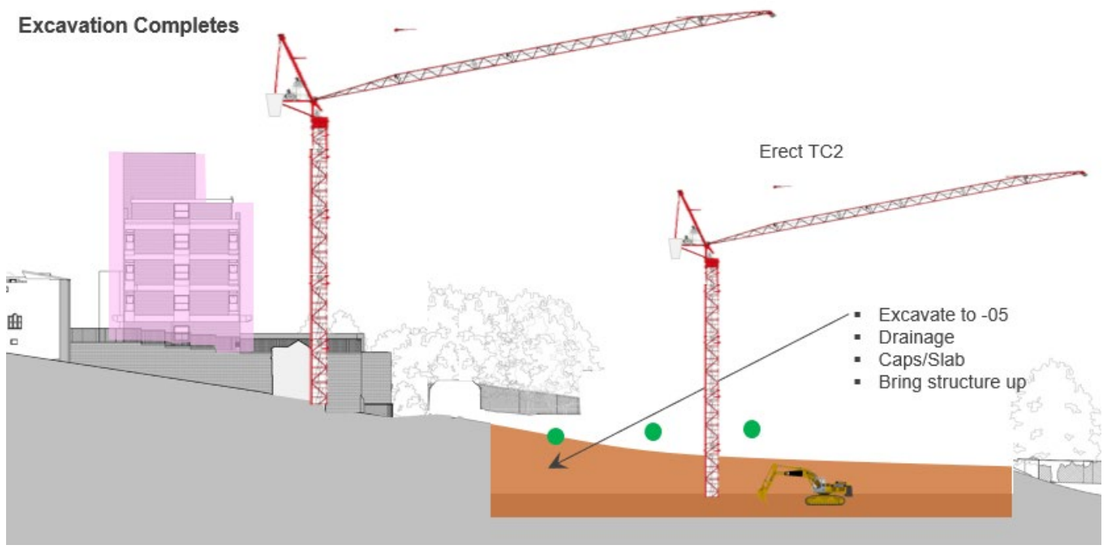




Piling will be carried out with the support of the tower crane or a small mobile to the east of the site. Arisings will be lifted by crane and skip to waiting tippers on the frontage and concrete pumped through the retained building. Early piles would include temporary piles for construction of the second tower crane base.



When the excavation approaches the lowest level of formation for -05 the second tower crane will be erected, providing further support for the onward construction of the rear structure.



Parallel Operations

As the critical piling and excavation of the rear basement extension proceed parallel operations will include:

Sewer Diversion

When sheet piling is complete and stable to the upper, west side of the basement the diversion of the Thames Water sewer can progress. Small plant and equipment would be lifted into position by crane or driven up the north side of the site from the parade ground below. The works will be services by TC1.

Structural Interventions

Dyne house will be stripped back to bare structure and the re-working of the structural core can then take place. Temporary bracing may be needed while new structure is inserted to replace the existing structural core. When the new structure is stable the roof structure can proceed. The works will be undertaken inside a screened scaffold to limit dust and noise escape.

Front Basement

The piling, excavation and construction of the front basement will be phased to ensure stability of the adjacent retained building and to maintain an off road area for deliveries and muck away lorries. We envisage that this can be achieved by using a top down approach to the ground slab. The sequence of construction would therefore be:

- Break out and pile probe perimeter (in sections, keeping vehicle access available)
- Remove tank and backfill (if not completed in early works)
- Pile the perimeter (sheet or contiguous)
- LB piles with plunge columns in centre.
- Cast 50% of ground level slab onto perimeter piles and plunge columns.
- Use new slab as loading area. Break out and excavate other half of space down to -01 formation level, mining under new ground slab,
- Prepare and cast -01 slab to whole area
- Cast liner walls, columns and walls up to 00 level
- Shutter and cast remaining 50% of slab.

Superstructure

When the piling and bulk excavation is complete to the rear extension the formation at level -05 can be prepared with under slab drainage pile caps and tanking ready for slab casting. The rear structure will then continue to rise using traditional RC concrete techniques to construct columns, slabs, walls and liner walls. The works will be services by the tower cranes with concrete being pumped from the frontage.

The new front extension to Dyne House will be constructed to a similar programme using similar techniques, serviced by TC1. The steel roof structure will follow completion of the front extension.

The link structure that joins the front and rear elements of the site at level -02 would be the last piece of structure constructed and will be built in conjunction with the façade and window works.

Building Envelope

The facades of both buildings will be constructed to similar programmes. We see the inner skin as best constructed using a Metsec (or similar) SFS system constructed with windows sealed into it in order to secure the earliest watertight date for internal fitting out to proceed. The design includes some large glazed units the delivery of which will need to be carefully planned for handling. Consideration should also be given to future glass replacement strategy.

Brickwork is likely to be traditionally hand laid from external scaffolds. Mortar should be delivered daily in premixed tubs for consistency, distributed round the site by tower crane or hoist.

As the envelope trades near completion the tower cranes will be removed, and the structure made good and weathered. As much use should be made of them to distribute fit out and external works materials before they are gone.

Fitting Out

We have allowed a fit-out cycle of up to 22 weeks per floor for the larger floors of the rear extension and shorter cycles for smaller footprints where they occur. Plant installations should be planned to make good use of the tower cranes while in position, then risers and horizontal services distribution would follow, generally working away from the plant areas.

External platform hoists will serve as material distribution for fitting out after removal of the tower cranes. Permanent lifts should be targeted for early completion and beneficial use, allowing external hoists to be removed and facades completed.

External Works

Hard and soft landscaping will be completed as facades complete and scaffolds are removed. Material distribution would benefit from as much use of the tower cranes as possible before removal. The construction of the MUGA to the parade ground area will potentially involve bulk material movements in and out of the site, which should be planned to take place while cranes and plant are in position and not left to the late stages.

Island Site

The Island site programme is thought to be flexible and should be planned around when power is required for Dyne House or other school projects, and to make economic use of resources engaged on Dyne House main works. The works can only use small plant given the location and size of site and will be more susceptible to school timetable management due to the access position.

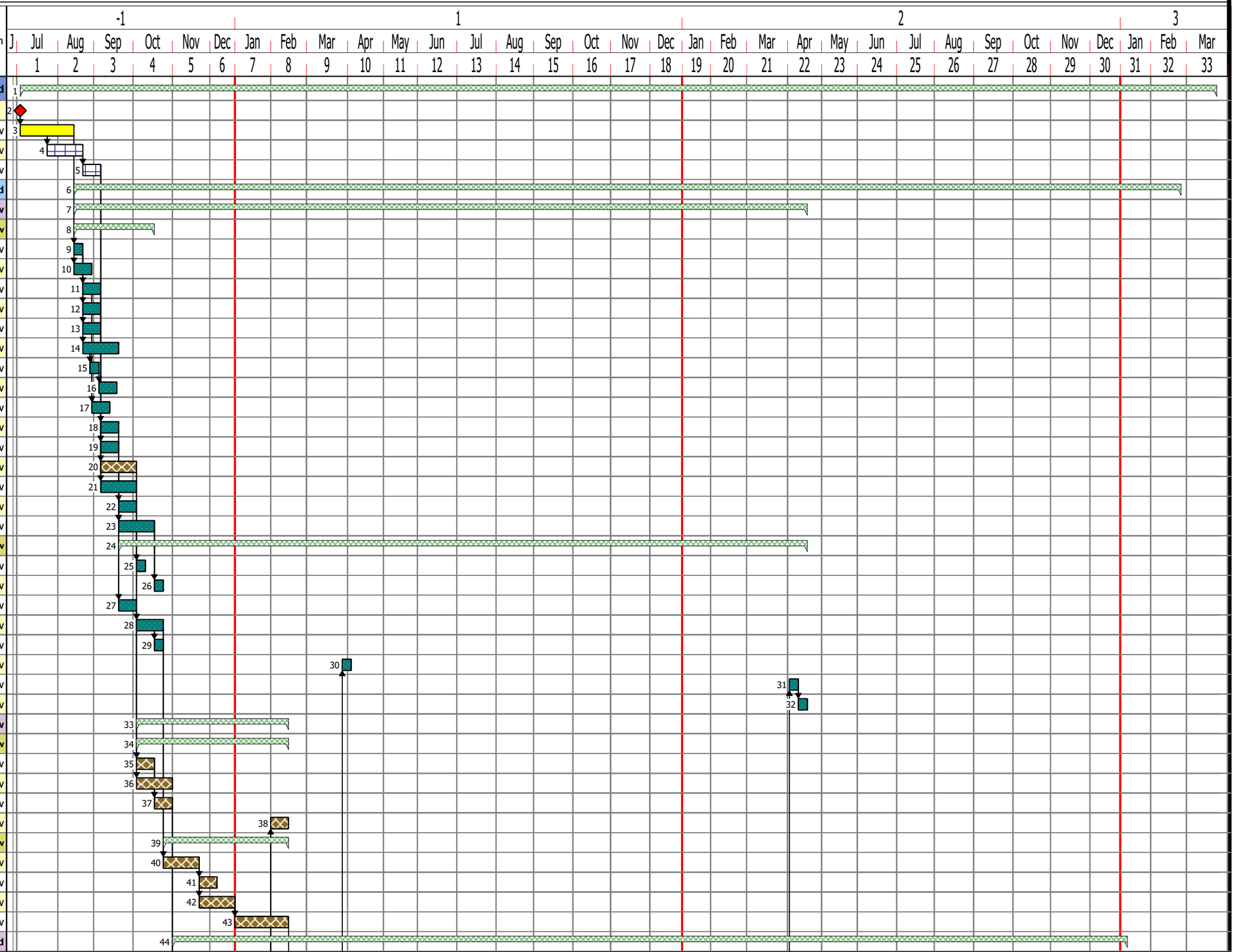
Our programme assumes an Easter Holiday start, ensuring that power is available for Dyne House completion and commissioning the following year.

Construction Programme – please refer overleaf to the Construction Programme.

Highgate School Dyne House 3

BLUE SKY BUILDING

Line	Name	Duration
1	**Highgate School Dyne House & Island Site**	**133w 4d**
2	Dyne House, Gym and Geography Close End of Yr	
3	School Decant Space	6w
4	R&D Asbestos Survey	4w
5	Asbestos Notice Period	2w
6	**Construction Programme**	**123w 4d**
7	**Enabling Works**	**82w**
8	**Early Works**	**9w**
9	Establish Site	1w
10	Make Safe Services	2w
11	Erect Hoardings & Gates	2w
12	Install temporary services	2w
13	Remove Street Furniture (Subject to licence)	2w
14	Check and Improve Perimeter Fence	4w
15	Remove Large Tree, rear gate	1w
16	Set up site office and welfare	2w
17	Clear Planters	2w
18	Break Out Tank & Backfill	2w
19	Demolish Brickwork to widen terrace access	2w
20	Initial Soft strip internally	4w
21	Clear Vegetation across the site	4w
22	Demolish Ext Stairs and Chiller Enclosure	2w
23	TC Enabling Works and Base	4w
24	**Scaffolds & Logistics**	**77w**
25	Hoists/ Conveyors to Terrace	1w
26	Erect TC1	1w
27	Demolition Scaffolds Rear Buildings	2w
28	Demolition Scaffold Dyne House	3w
29	Hoists/ Conveyors to Dyne House Front	1w
30	Erect TC2	1w
31	Remove TC2	1w
32	Remove TC1	1w
33	**Demolition**	**17w**
34	**Rear Buildings**	**17w**
35	Strip Windows Floors and Roofs to Rear Bldgs	2w
36	Soft strip internally Dyne House	4w
37	Demolish Gym and Geography to ground	2w
38	Break Out Ground slabs	2w
39	**Dyne House**	**14w**
40	Strip Windows and Roof, Dyne House	4w
41	Demolish roof structure	2w
42	Demolish South side cantilevers	4w
43	Strip Cladding	6w
44	**Rear Extension**	**106w 4d**



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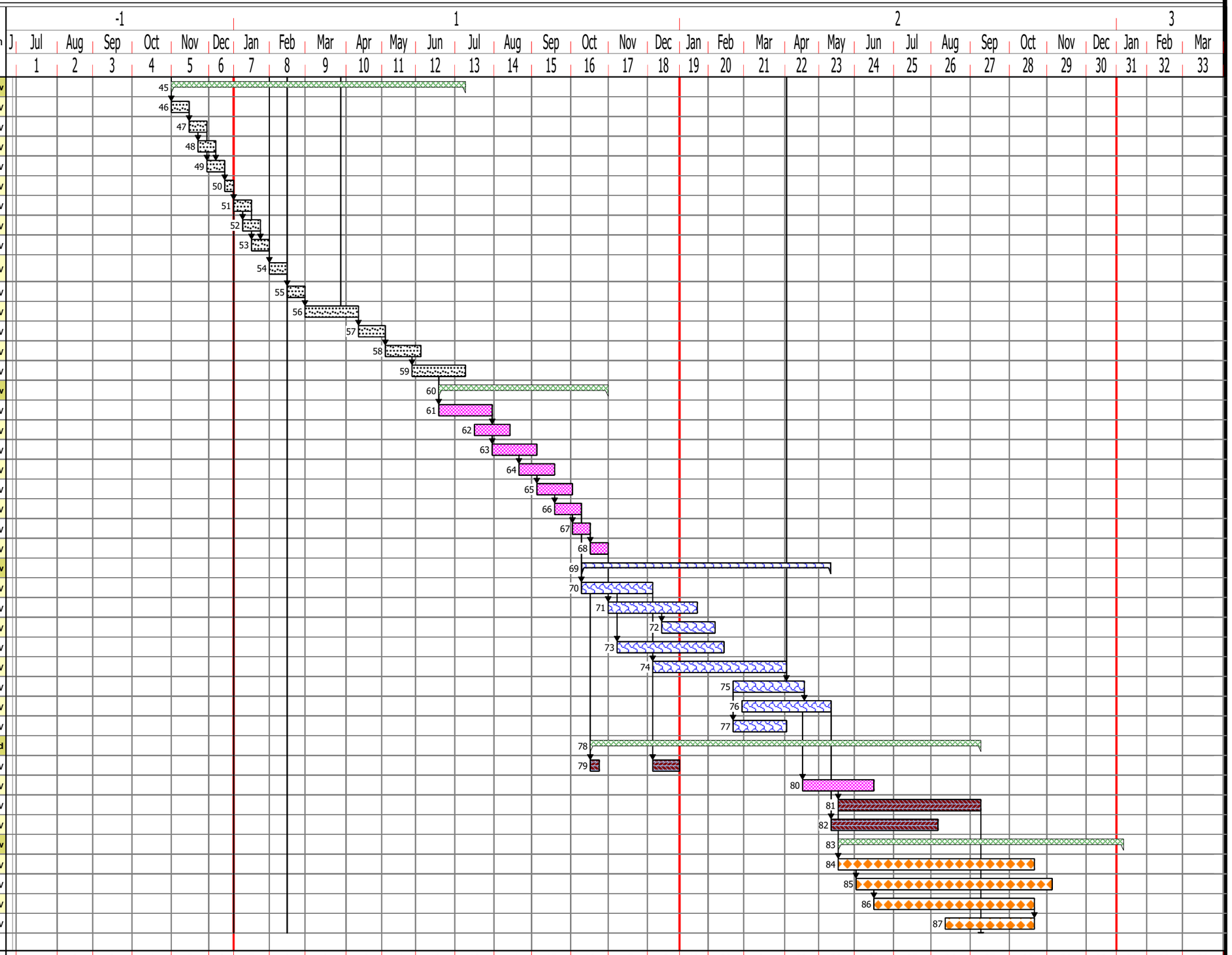
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Highgate School Dyne House 3

BLUE SKY BUILDING

Line	Name	Duration
45	**Substructure Rear Building**	33w
46	Probe/ Prepare for west wall sheet pile	2w
47	Sheet Pile west wall and returns	2w
48	Capping Beam	2w
49	Ground Anchors and Props	2w
50	Reduce level (c 1 storey) prepare mat	1w
51	Sheet Pile next stage N&S	2w
52	Capping Beam	2w
53	Prop	2w
54	Break Out Pool and Ground Slabs Reduce Level	2w
55	Piling Mat	2w
56	LB Piles and remaining Perimeter	6w
57	Remove Piling Mat and Excavate to formation	3w
58	Below Ground Drainage	4w
59	Pile Caps/ Basement Slab -05	6w
60	**Superstructure Rear Building**	19w
61	Walls & Columns -05 to -04	6w
62	Slab. Level -04	4w
63	Walls & Columns -04 to -03	5w
64	Slab. Level -03	4w
65	Walls & Columns -03 to -02	4w
66	Slab. Level -02	3w
67	Columns -02 to -01	2w
68	Slab. Level -01	2w
69	**Envelope Rear Extension**	28w
70	SFS Façade inner skin/ windows -04	8w
71	SFS Façade inner skin/ windows -03	10w
72	SFS Façade inner skin/ windows -02	6w
73	Brickwork -04	12w
74	Brickwork -03	15w
75	Brickwork -02	8w
76	Roof Finishes	10w
77	Build/ Clad Link Building	6w
78	**Core Installations Rear Extension**	43w 4d
79	Plant	4w
80	Riser Walls	8w
81	Risers, M&E First Fix	16w
82	Lift Installation	12w
83	**Fit Out Rear Extension**	32w
84	Fit Out -05	22w
85	Fit Out -04	22w
86	Fit Out -03	18w
87	Fit Out -02	10w



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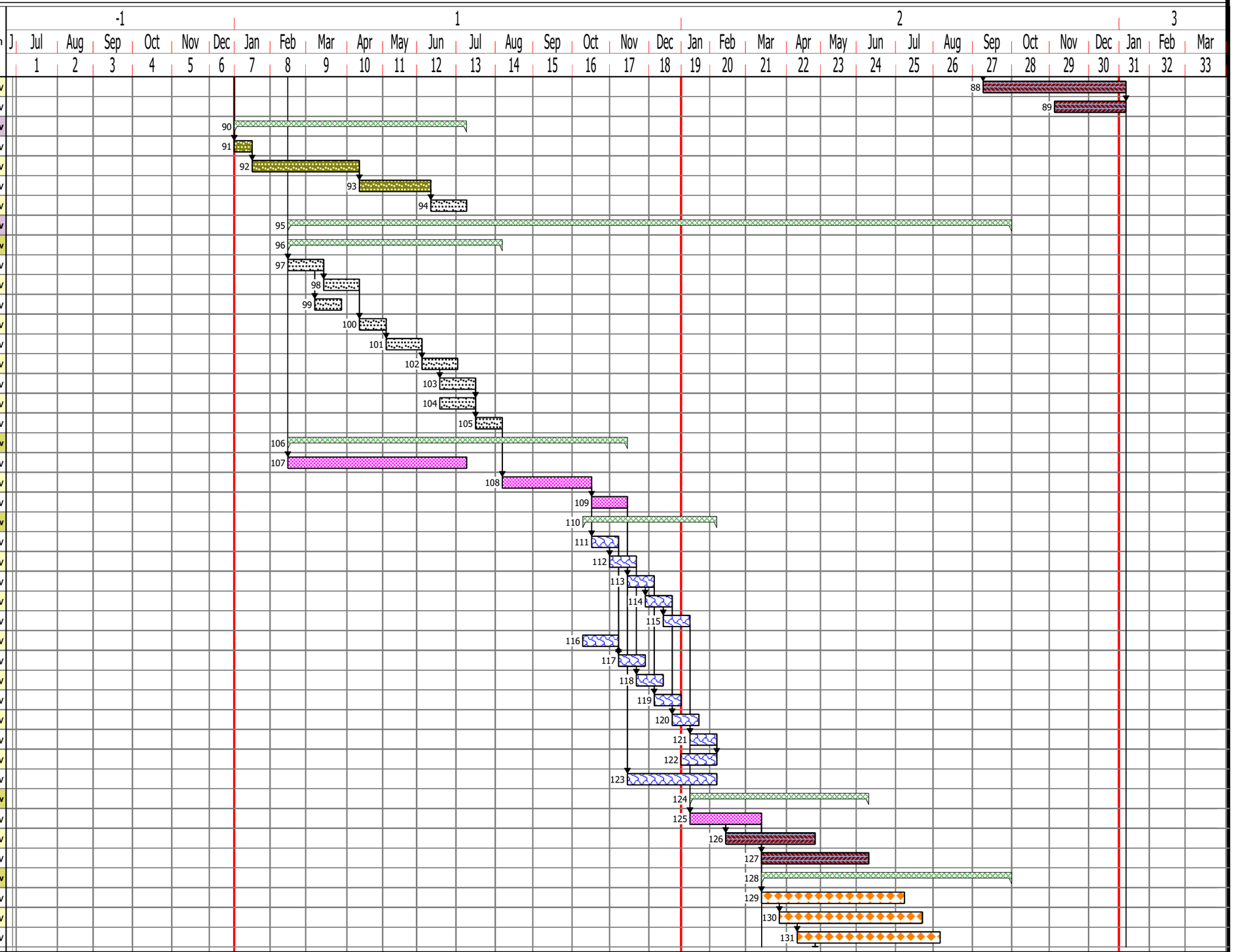
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Highgate School Dyne House 3

BLUE SKY BUILDING
founded on excellence

Line	Name	Duration
88	Commissioning	16w
89	Final Commissioning/ Setting to Work	8w
90	**Sewer Diversion**	**26w**
91	Stabilise Ground/ Prep	2w
92	Sink new manholes	12w
93	Excavate/ Realign Sewer	8w
94	Mini Pile/ Foundations for Link	4w
95	**Dyne House & Auditorium**	**81w**
96	**Front Basement**	**24w**
97	Pile Probe/ Pile North half	4w
98	Pile Probe/ Pile South Half	4w
99	LB Piles & Plunge Columns	3w
100	Prep/ Cast Slab South	3w
101	Excavate to -01 (c10 wagons/day)	4w
102	Prep/ Cast -01 slab	4w
103	Liner walls	4w
104	Waterproofing	4w
105	Formwork/ Cast Slab North	3w
106	**Dyne House Structural Work**	**38w**
107	Structural Interventions to Cores	20w
108	Front Extension Frame and Slabs	10w
109	Roof Structure	4w
110	**Envelope Dyne House & Auditorium**	**15w**
111	SFS Façade inner skin/ windows 00	3w
112	SFS Façade inner skin/ windows 01	3w
113	SFS Façade inner skin/ windows 02	3w
114	SFS Façade inner skin/ windows 03	3w
115	SFS Façade inner skin/ windows 04	3w
116	Brickwork -02/-01/00 Auditorium making good	4w
117	Brickwork 00	3w
118	Brickwork 01	3w
119	Brickwork 02	3w
120	Brickwork 03	3w
121	Brickwork 04	3w
122	Glass/ Cladding Frontage	4w
123	Roof Finishes/PV	10w
124	**Core Installations**	**20w**
125	Riser Walls	8w
126	Risers, M&E First Fix	10w
127	Lift Installation	12w
128	**Fit Out Dyne House**	**28w**
129	Fit Out 04	16w
130	Fit Out 03	16w
131	Fit Out 02	16w



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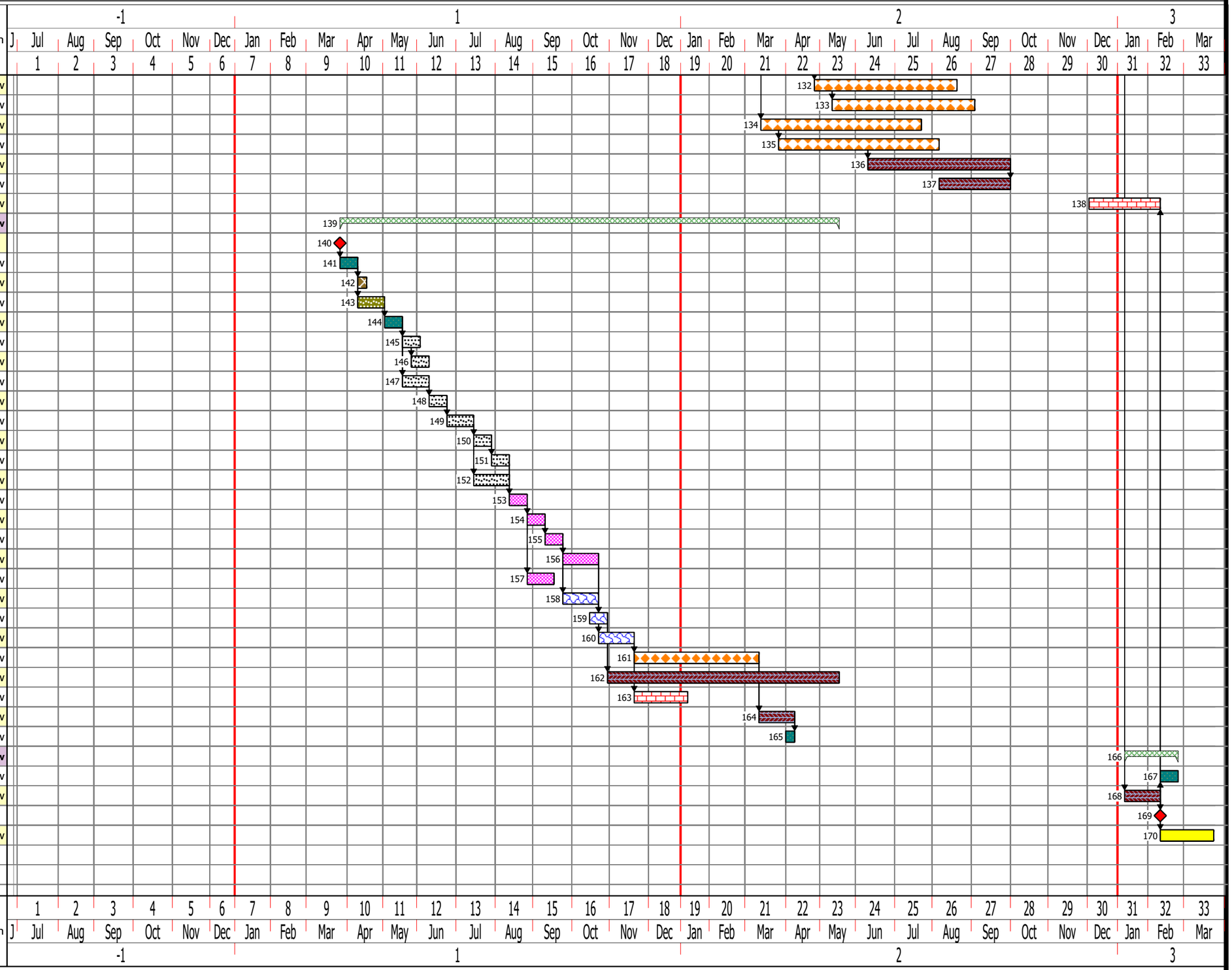
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Highgate School Dyne House 3

BLUE SKY BUILDING

Line	Name	Duration
132	Fit Out 01	16w
133	Fit Out 00	16w
134	Fit Out -01	18w
135	Fit Out -02	18w
136	Commissioning	16w
137	Final Commissioning/ Setting to Work	8w
138	External Works	8w
139	**Island Site**	**56w**
140	Term End	
141	Establish Site. Hoardings & Isolations	2w
142	Demolition	1w
143	Drain Diversion	3w
144	Pile Probe/ Mat	2w
145	Sheet Pile	2w
146	LB Piles	2w
147	Capping Beam/ Prop	3w
148	Excavation	2w
149	Below slab drainage/ slab preparation	3w
150	-01 Slab	2w
151	RC Walls and columns to Gnd	2w
152	Tunnel Connection	4w
153	00 Slab	2w
154	RC Cols, walls, stair	2w
155	Level 01 slab	2w
156	Glulam and roof decks at 01 and 02	4w
157	Internal liner wall -01	3w
158	Above Ground Brickwork	4w
159	Doors, external joinery	2w
160	Roof Finishes and paving	4w
161	Fit out -01 Toilets	14w
162	Fit Out 00 Substation & Switchroom	26w
163	Reinstate External Wall and Landscape	6w
164	Commissioning & Inspections	4w
165	Clear Site	1w
166	**Close Out**	**6w**
167	Clear Site	2w
168	Whole Building Commission/ Setting to work	4w
169	Practical Completion	
170	School Decant and Running Up	6w



Build Stages

School | Enabling Works | Substructure | Superstructure | Envelope | Services | Foul/SW Connect | Demolition | External Works | Key Milestone | Fit-out | Fit Out | 12 HO

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5.0 Risks and Mitigation

KEY RISKS / ISSUES	MITIGATION
Substructure	
Basement perimeter and foundation design (sheet and CFA piles) and rig access to the site	Piling specialist input at an early stage to ensure the design is matched to a rig size and methodology that works with the site access
Excavation plant and accessibility for excavation of	Provide multiple materials handling methods for peak movements – crane and skip, hoists, conveyors.
Temporary works loadings for ground retention	Establish loading constraints with Engineer prior to tender returns. Ensure tenderers have a workable solution in their returns.
Below ground services delay substructure construction	Early identification of works required with intrusive surveys undertaken as necessary and TW approvals.
Superstructure	
Structural interventions to the existing Dyne House building could extend the programme	Early intrusive structural investigations to inform the design and methodology.
Construction approach requires considered methodology and cranage plan. Supply chain appreciation needed or risk of extended programme	Ensure clarity of site constraints in tender documents.
General	
Full consideration of on-site, school and public health and safety at all stages of planning and execution.	Detailed risk analysis of site operations.
A strategy to minimise disruption to the school, local environment and adjoining properties/ owners.	Positive approach to neighbours – newsletters/site talks.
A methodology to secure the highest quality.	Samples/mock-ups prepared in advance and signed off.
Full consideration of both site and public health and safety at all stages of planning and execution	Detailed risk analysis of site operations
A realistic preconstruction period which provides the best input to the Client and Design Team	Ensure strategic programme and procurement route allows sufficient time to coordinate all aspects of the project
Provide above industry average facilities for the workforce	Make the site attractive to the workforce. Attract best tradesmen
Safe segregation of M&E services between site and occupied school areas (for the Island Site Works in particular)	Early surveys and identification of services. Safe system of work throughout demolition and construction phases.
Multiple phases could be procured singly, for economy of scale but subsequent delays between phases could then be expensive	Consider procurement routes and include cost options or escape routes from contracts

KEY RISKS / ISSUES	MITIGATION
Logistics / LBH & Neighbours	
Demolition and piling impact for noise and general disruption to neighbours and school functions.	Contractor to ensure environmental monitoring is in place and a robust demolition plan is agreed with LBH and neighbours.
Works to other school projects overruns or clashes leading to delays or pressure on temporary classrooms	Early alignment of programmes. Contingency plan for late works.
Hours of Work conflict between LBH, neighbours and school.	Beware conflicting desires for noisy work times. Contractor to ensure pre-agreement before finalising programme.
Gate accesses not agreed	Consider alternative access strategies and potential alternative methodologies as a contingency plan.
Welfare location clashes with MUGA construction	Make a contingency plan for the project that meets programme strategy and dates
Oversailing agreements restrict crane operations	Review crane positions and make early approaches to neighbours if required
School Access impacted by construction of Island Site works	Early agreement of delivery strategy with school and regular review with contractors
Continuity of Building Services to school and neighbouring property.	Ensure before services are terminated that all systems l are truly separated and will continue to function.
Construction deliveries too disruptive or dangerous to ongoing school activities and movements	Agree vehicle slots for school use separately to contractor. Agree phased parameters of closing in hoardings with due attention to CDM requirements.

6.0 Traffic Management

TfL may want to see detailed evidence of how construction traffic will be managed at Planning stage and afterwards, given the importance of Southwood Lane as a bus relief road for the centre of Highgate. They may request an Outline Construction Logistics Plan (CLP) with the application and/ or will Condition a requirement for more detailed versions when contractors are appointed and before site works start.

Access routes

TfL prefer that construction traffic uses the TLRN (Red Routes) as far as possible to get to sites. Southwood Lane links with the TLRN at the A1 Archway Road although southbound traffic can't turn right there, so vehicles will approach via North Hill or Southwood Avenue as shown on the right. Vehicles leaving site will re-join the TLRN directly from Southwood Lane.

Undertakings have been given in pre-app discussions to minimise the use of Kingsley Place with all materials being delivered or removed from Southwood Lane. Only essential plant deliveries will be made to the rear of the site via Kingsley Place.

Access routes to and from the site to be used by heavy goods vehicles (HGVs) will be agreed with TfL and Haringey Borough Council prior to initiation of the demolition and construction programme, to minimise disruption to the road and pedestrian network. At this stage we don't know which direction specific traffic will approach from but that will become clearer once the materials are better known and ultimately when a contractor is able to place supply orders.

The logistics approach in this document uses as little kerbside loading as possible. Vehicles approaching arriving at site would turn directly into site for loading and unloading. All movements would be under the control of marshals throughout.

Vehicle Management

The number of lorry movements, hours of operation and any lorry holding areas will need to be agreed in advance with TfL and Haringey Borough Council.

Where possible all delivery and waste removal vehicles should be planned to be between the hours of 09.30 and 15.30 hours to avoid the peak periods.

No vehicle waiting will be permitted in neighbouring streets. Vehicles will only deliver in accordance with their allocated slot, booked through a Delivery Management System.

Delivery companies and suppliers will be required to be registered with FORS. CLOCS compliance will be a contract requirement.

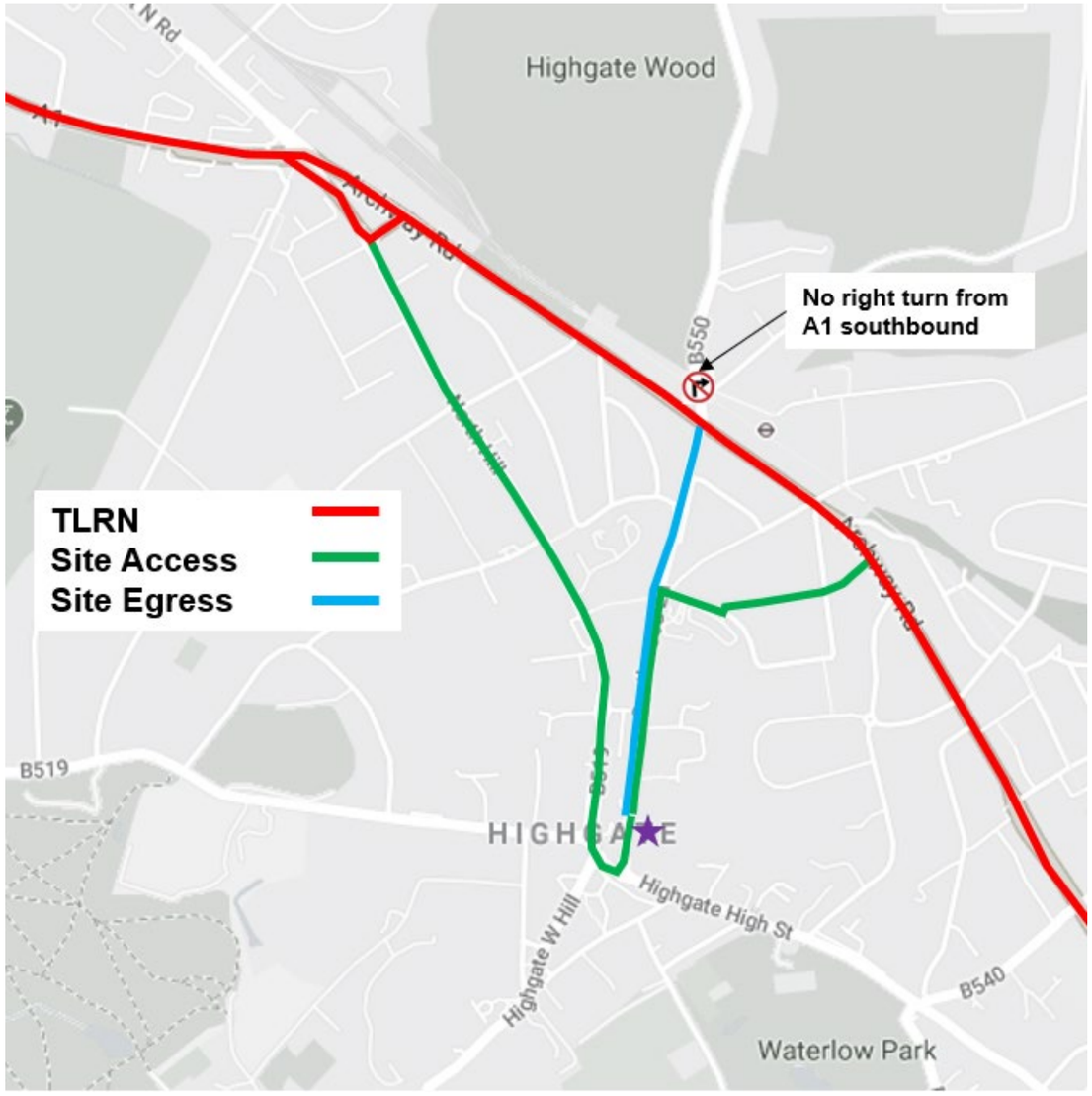
Copies of registration documents for regular / repeat vehicles will be held on site and will be available for inspection.

All suppliers should be notified of the requirement in supply orders and a log of vehicles held on site. Non-compliant vehicles should not be permitted entry.

Operatives Journeys to Work

Operatives should be encouraged to come to work by public transport or cycle. No parking will be permitted on site for operatives or staff.

Bike parking and showers should be provided on site



7.0 Waste Management

Site Waste Management

The Contractor will use working methods that minimise waste. Any waste arising from the site will be properly categorised and dealt with in accordance with appropriate legislation.

Opportunities for re-using or recycling construction or demolition waste should be explored and implemented.

The Contractor will carry out the works in such a way that, as far as is reasonably practicable, the amount of spoil and waste (including groundwater, production water and run-off) to be disposed of is minimised.

The disposal of all waste or other materials removed from the Site will be in accordance with the requirements of the Environment Agency, Control of Pollution Act (COPA), 1974, Environment Act 1995, Special Waste Regulations 1996, Duty of Care Regulations 1991 and the Waste Management Regulations 2011.

In general, and in accordance with the principles of the UK Government's 'Waste Strategy 2010', a principal aim during demolition and construction will be to reduce the amount of waste generated and exported from the Development site.

This approach complies with the waste hierarchy whereby the intention is first to minimise, then to treat at source or compact and, finally, to dispose of off-site as necessary. All relevant Contractors will be required to investigate opportunities to minimise and reduce waste generation, such as:

- Agreements with material suppliers to reduce the amount of packaging or to participate in a packaging take-back scheme.
- Implementation of a 'just-in-time' material delivery system to avoid materials being stockpiled, which increases the risk of their damage and disposal as waste.
- Attention to material quantity requirements to avoid over- ordering and generation of waste materials.
- Re-use of materials wherever feasible (e.g. re-use of crushed concrete from demolition for the piling platform; re-use of excavated soil for landscaping).
- The Government has set broad targets of the use of reclaimed aggregate, and in keeping with best practice, Contractors will be required to maximise the proportion of materials recycled.
- Segregation of waste at source.
- Re-use and recycling of materials off-site where re-use on- site is not practical (e.g. through use of an off-site waste segregation facility and re-sale for direct re-use or re- processing). Our expectations in this regard are shown in the table opposite.

The Contractor's CEMP is to include the full environmental management requirements and Site Waste Management Plan.

Material	Target	Probable Location
Architectural salvage	100% re-used	Several architectural salvage companies in London.
Metals	100% recycled	Every effort will be made to recycle these materials on site with any surplus being taken to waste transfer station.
Hardcore (brick/block/concrete etc.)	100% recycled	To be crushed on site and reused in the piling mat and used as inert fill after removal from site.
Excavated material/clay etc.	100% recycled	100% processed for re-use as fill (subject to analysis).
Timber	Up to 85% re-used The amount re-used will depend on the material	We will attempt to salvage any re-usable timber for hoardings, battening, shuttering etc. for possible use on site with the balance being retained by the Contractor.
Mixed waste	The amount recycled will depend on the material	An absolute minimum will remain for transport to landfill.
Asbestos	100% landfill	Taken to a licensed site.

8.0 Noise & Dust Mitigation

The Contractor will monitor and control levels of noise and vibration from the site.

Measures for reducing such levels are set out of this section. A prior approval via Section 61 of the Control of Pollution Act 1974 is proposed.

Noise Control

The Contractor's environmental team will undertake a noise assessment using noise-predicting software that projects noise levels at adjoining properties based on the emissions made by specific equipment. This noise assessment will be carried out in accordance with BS5228-1: 2009+A1: 2014 'Code of Practice for noise and vibration on construction and open sites'.

This assessment allows the Contractor to select the most appropriate plant, methodology and controls to minimise disruptions of buildings at close proximity of the adjacent structures (sensitive receptors) and in particular the neighbouring residents, during the demolition and structural work phases.

Noise levels will be monitored by the Contractor during the course of the works. Haringey Borough Council shall be given access to all noise readings if required as soon as they become available.

Although the noise levels to be included in a formal agreement between the Contractor and Haringey Borough Council are the maximum to be allowed, at sensitive locations the Contractor will be requested to achieve, where practicable, noise levels lower than the specified limits.

Noise Control Provisions – Screens and Scaffolds

Throughout the demolition and structural stages all works will take place behind an encapsulation scaffold clad in fire rated Monarflex sheeting (or similar). The encapsulation scaffold provides the following benefits during the demolition construction stages of the works:

- It acts as a visual screen hiding the on-going works.
- Dust arising will be contained.
- With the use of the sheeting, (and the addition of acoustic blankets near particularly sensitive locations) noise is contained.

The encapsulation scaffolding will be erected before any of the demolition works commence. The scaffold will then be struck progressively in line with the demolition sequence, remaining one lift above the working floor throughout the demolition works.

Vibration Control

The measures taken to reduce the acoustics of these operations will assist in mitigating the effects of vibration on neighbours, their property and the existing building to be retained.

A digital seismograph measuring device will be used to measure the amount of vibration produced during these works. Where elevated levels are recorded the source will be investigated and, where possible, alternative techniques employed to reduce the levels.

The Contractor will comply with the vibration levels established by agreement with Haringey Borough Council.



Monarflex Encapsulation Scaffold

Air Quality

The Contractors will, as far as reasonably practical, seek to control and limit emissions to the atmosphere in terms of gaseous and particulate pollutants from tools and equipment used on site and dust from construction activities.

The site activities will be assessed for the control of dust & emissions during construction & demolition. The contractors must submit a statement to Haringey Borough Council for approval identifying proposed dust control measures before work starts. Special precautions must be taken when materials containing asbestos are encountered.

Throughout the project, the Contractor will ensure the following:

- Where potential dust producing activities are taking place, the screens remain in position. This will include all demolition, piling, excavation and structural works.
- There is no burning of waste materials on site.
- There is an adequate water supply on the site.
- Disposal of run-off water from dust suppression activities and cleaning is in accordance with the appropriate legal requirements.
- All dust control equipment is maintained in good condition and record maintenance activities.
- Strip inside of the building before any demolition of the structure and envelope.
- Site hoarding, barriers and scaffolding are kept clean.
- Loading of material into lorries within designated loading area.
- If necessary, clean public road and pavement using wet sweeping methods.
- All vehicles carrying loose or potentially dusty material to or from the site are fully sheeted.
- Minimise the amount of demolished or excavated material held on site.
- Sheet, seal or damp down unavoidable stockpiles and skips of material held at site, where required.
- Avoid double handling of material wherever reasonably practicable.
- Ensure water suppression is used during demolition operations.
- Use enclosed rubble chutes and conveyors where reasonably practicable or use water to suppress dust emissions from such equipment.
- Sheet or otherwise enclose loaded bins and skips.
- Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.
- Use prefabrication of goods and materials to reduce the need for grinding, sawing and cutting on site wherever reasonably practicable.
- Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction.
- The engines of all vehicles delivering to site are not left running unnecessarily to prevent exhaust.
- That conveyor equipment will be well maintained, with regular servicing and maintenance carried out.
- The Contractors will ensure that dust monitoring will be carried out during potential dust producing activities. The assessment will look at the dust raising potential of construction activities proximity to potential receptors and the duration of construction activities at each location.
- No materials produced as a result of the site development or clearance shall be burned on site.

APPENDIX

Falcon Tower Crane Quotation



THE LARGEST INDEPENDENT CRANE HIRER IN THE UK

FALCON TOWER CRANE SERVICES LTD

Shipdham Airfield Industrial Estate
Shipdham
Thetford, Norfolk IP25 7SD
Telephone: (01362) 821048
Fax: (01362) 821233

Quotation No. E.15081	Date: 01st October 2019
For The Attention of: Tim Cole Blue Sky Building Ltd 35 Duke Street, London, W1U 1LH	Your Contact: Steve Paxman- 07917638706 paxmancranes@gmail.com Tel: 0207 8315950 Email: timcole@blueskybuilding.com

Contract: Highgate School

We are pleased to provide this quotation and trust that we have covered all aspects of your requirements. Please contact us should you require further information/clarification.

Crane Specification – TC1

Tower Crane Manufacturer/Model/Type:	Jaso J208	Luffing Jib – fitted with a park radius device giving an out of service radius of 10 metres	
Lifting:	3,300kgs @ 50 metres	Jib Length: 50 metres – single fall operation	
	Max lift - 6,000kgs @ 35 metres		
Tower Height:	26.6 metres	Given Building Height: 24 metres	
Base Type:	Fixing angles		
Insurance Value of Crane:	£350,000.00		
3 Phase Power Supply Requirements: A clean independent earth to be provided for lightning protection. Please see point 19 in the T&C's.	Hoist Motor: Slew Motor: Luffing/Trolley Motor: Starting Current: Running Current:	1 x 44.1kw 2 x 5.5kw 1 x 44.1kw 169 155	frequency converter control motor frequency converter control motor frequency converter control motor Amps Per Phase (3 Phase) Amps Per Phase (3 Phase)
Mains and generator power supply requirements:	Mains Power Supply: Generator Power Supply:	124kva 200kva	

Prices are based on a hire period of TBC weeks – Commencing: 2020

Tower crane hire per week. 50 hours Monday – Friday - Minimum of 10 hours per day: Tower crane excess hours charge per hour:	£ 2,500.00 £ 50.00
Tower crane operator hire per week. 50 hours Monday – Friday: Minimum of 10 hours per day Midweek excess hours charge per hour:	£ 1,395.00 £ 43.00
Operator Saturday overtime rate per hour: Operator Sunday/Bank Holiday overtime rate per hour: Minimum charge of 8 hours for weekends and Bank Holidays.	£ 43.00 £ 43.00
Fixing angles delivered to site: Delivery of fixing angles by HIAB if required – off loading only	£ 5,000.00 £ 650.00
Tower crane transportation, erecting and testing – midweek rate: Supplement for weekend erection: Tower crane dismantling and removal – midweek rate: Supplement for weekend dismantle: Council Permits/Traffic Management/Road Closure: Independent inspection – 1st visit upon completion of erection – thereafter at 6 monthly intervals - price per visit:	£17,800.00 £ 1,650.00 £17,350.00 £ 1,650.00 £TBC £ 750.00

Erection costs were calculated with the mobile crane standing within 36 metres of the crane base and lifting over 0 metres obstruction. Dismantling costs were calculated with the mobile crane standing within 36 metres of the crane base and lifting over 20 metres obstruction. Erection and dismantling radii are not qualified and subject to confirmation by site survey. Two days have been allowed for the mobile crane for both the erection and dismantling operations. Standard out of service is 19 metres, this is reduced to 10 metres when fitted with a park radius device. This increases base loadings and is an additional cost option. Please seek advice. Self drive not available. Client to protect pavement and clear area for mobile crane to rig. ***PLEASE NOTE; All fixing angles should be checked for damage upon delivery. They should also be checked to ensure that all dimensions are correct prior to casting in situ.***

We would also draw your attention to the Terms and Conditions reference the hiring of the crane and provision of power requirements by site.

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Crane Specification – TC2			
Tower Crane Manufacturer/Model/Type:	Jaso J118	Luffing Jib – standard out of service is 8 metres	
Lifting:	3,400kgs @ 35 metres	Jib Length: 35 metres – 4 fall operation	
	Max lift – 6,000kgs @ 20 metres		
Tower Height:	20 metres	Given Building Height: 24 metres	
Base Type:	Fixing angles		
Insurance Value of Crane:	£200,000.00		
3 Phase Power Supply Requirements: A clean independent earth to be provided for lightning protection. Please see point 19 in the T&C's.	Hoist Motor: Slew Motor: Luffing/Trolley Motor: Starting Current: Running Current:	1 x 24.2kw 1 x 5.5kw 1 x 15kw 81.6 73.6	frequency converter control motor frequency converter control motor frequency converter control motor Amps Per Phase (3 Phase) Amps Per Phase (3 Phase)
Mains and generator power supply requirements:	Mains Power Supply: Generator Power Supply:	56kva 100kva	

Prices are based on a hire period of TBC weeks – Commencing: 2020		
Tower crane hire per week. 50 hours Monday – Friday - Minimum of 10 hours per day: Tower crane excess hours charge per hour:	£ 28.00	£ 1,400.00
Tower crane operator hire per week. 50 hours Monday – Friday: Minimum of 10 hours per day Midweek excess hours charge per hour:	£ 43.00	£ 1,395.00
Operator Saturday overtime rate per hour: Operator Sunday/Bank Holiday overtime rate per hour: Minimum charge of 8 hours for weekends and Bank Holidays.	£ 43.00 £ 43.00	
Fixing angles delivered to site: Delivery of fixing angles by HIAB if required – off loading only		£ 4,750.00 £ 650.00
Tower crane transportation, erecting and testing – midweek rate: Supplement for weekend erection:	£ 1,650.00	£ 5,800.00
Tower crane dismantling and removal – midweek rate: Supplement for weekend dismantle:	£ 1,650.00	£ 5,350.00
Council Permits/Traffic Management/Road Closure:	£TBC	
Independent inspection – 1st visit upon completion of erection – thereafter at 6 monthly intervals - price per visit:		£ 750.00

Erection costs were calculated with TC1 and operator to FTCS paid for by customer standing within 40 metres of the crane base and lifting over 0 metres obstruction. Dismantling costs were calculated with the TC1 and operator to FTCS paid for by customer standing within 40 metres of the crane base and lifting over 0 metres obstruction. Erection and dismantling radii are not qualified and subject to confirmation by site survey.
Self drive not available. Max distance between TC1 & TC2 bases is to be 40 metres.
PLEASE NOTE; All fixing angles should be checked for damage upon delivery. They should also be checked to ensure that all dimensions are correct prior to casting in situ.
We would also draw your attention to the Terms and Conditions reference the hiring of the crane and provision of power requirements by site.

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Tower Crane Additional Options – Prices Per Crane *Please note all lump sum hire items are payable at commencement of hire. Minimum charge of one week hire for all other ancillaries*	
Obstruction lights – lump sum hire – hard wired:	£ 900.00
Obstruction lights – battery back-up option – rental per week:	£ 50.00
Obstruction lights – solar powered option – rental per week:	£ 50.00
200 Candela aircraft warning lights – lump sum hire – hard wired:	£ 1,200.00
2000 Candela aircraft warning light – lump sum hire x per light:	£ 1,500.00
Anti-collision/Zoning System Installation charge per system:	£ 1,500.00
Anti-collision/Zoning System Hire per week per system – 1 system required per crane:	£ 150.00
Supply + Installation of 1 x illuminated sign - fitted at time of crane erection:	£ 1,900.00
Digital Sign – 3m x1m fitted to the ballast – Pen drive included – rental per week	£ 100.00
Digital Sign – 2m x1m fitted to the handrails – Pen drive included – rental per week	£ 80.00
Additional pen drives – purchase price:	£ 350.00
Supply + installation of 4 x floodlights – fitted at time of crane erection – not maintained - lump sum hire:	£ 1,000.00
Standard 6.7te chain pack rental per week:	£ 50.00
Skip – rental per week:	£ 20.00
Sale of webbing slings per pair:	£ 50.00
Brickforks rental per week:	£ 25.00
Sale of Safety Net:	£ 120.00
FTCS remote anemometer – rental per week:	£ 40.00
Anti-climb protection – lump sum hire – fitted at time of crane erection:	£ 1,500.00
Rescue from height training and kit:	£ 3,800.00
Hook camera rental per week:	£ 250.00
Stretcher cage rental per week:	£ 35.00
Budget Road closure cost – each operation:	£ 7,500.00
200kva generator + fuel tank rental per 50 hour week – 10 hours per day minimum.	£ 280.00
Generator excess hours charged at	£ 5.60 per hour
100kva generator + fuel tank rental per 50 hour week – 10 hours per day minimum.	£ 165.00
Generator excess hours charged at	£ 3.30 per hour
Delivery/Collection of generator and tank: (each way):	£ 250.00
Fuel per litre, fuel monitoring and management:	£ 0.75
Generator adaption box for ancillaries – lump sum hire:	£ 500.00
Spreader mats for the mobile crane – each way – (if required):	Included up to 10/m2
Relief Operator / Slinger / Signaller are all as per above operator rates:	

Terms and Conditions of Hire

1. Offer
This offer is valid for 30 days from the date of this offer and will be subject to availability and a site inspection prior to delivery.

2. CPA Conditions
All Falcon Tower Crane Services Limited plant is hired under the CPA Model Conditions for the Hiring of Plant (2011) including the supplementary Conditions Applicable to Tower cranes – copies available upon request.

3. Terms of Payment
All invoices rendered by the Owner to the Hirer shall be payable within 30 days of the invoice date unless expressly agreed otherwise in writing by the Owner. If any invoice rendered by the Owner remains unpaid after 30 days or as otherwise agreed as described above, all other invoices rendered by the Owner to the Hirer shall become immediately due and payable without further demand. These are our normal payment terms and are subject to a suitable credit check.

4. Tower Crane Base – All Types – Design
The design of the actual base is the responsibility of the client unless specifically agreed by All Falcon Tower Crane Services Limited to the contrary at the time of tendering.

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5. Tower Crane Base – Fixed
Site management are to liaise with All Falcon Tower Crane Services Limited regarding the delivery date of any expendable crane base giving at least 14 days notice. The positioning and fixing of these items is the responsibility of the client as well as the offloading of them from our transport. Your attention is particularly drawn to the fact that these angles are heavy and some means of mechanical lifting may well be needed to handle them. It is the responsibility of site to ensure that the base is correctly positioned and to ensure sure it is plumb and level +/-2mm.

6. Tower Crane Base – Travelling
In the case of rail mounted tower cranes, it is the responsibility of site to ensure the off-loading and laying of rail track on the prepared base ensuring that the track is levelled and within gauge tolerances of +/-4mm.

7. Tower Crane Base – Cruciform
In the case of cruciform base mounted tower cranes, the deviation from level should not exceed +/- 4mm measured between any two base corner plates. If shims are required, these can be supplied by All Falcon Tower Crane Services Limited
at an agreed extra cost.

8. Tower Crane Mast Sections
Please note that it is the responsibility of the client to ensure that the mast sections of the crane remain in a reasonable condition and free from concrete and any other construction materials during the hire period. Should the mast sections be returned in a contaminated state, All Falcon Tower Crane Services Limited Ltd reserve the right to charge for the cleaning of, and if necessary, the repainting of the affected sections.

9. Erection/Dismantle Requirements
Power must be available in a fused isolator box supplied by the client on the day of erection adjacent to the crane base.

It is the responsibility of the site to ensure that there is adequate hard standing provided to support the outrigger loadings of the mobile crane used for erection and dismantle. The hirer is to make suitable preparation so that the ground on which the mobile crane and transport will travel or on which it will work is substantial enough to support the forces imposed on it by the wheels and jacks of the plant. These forces will be given to the site prior to the commencement of our works and written confirmation that the above preparation has been done must be confirmed to this office

As a result of the Metropolitan Police's new restriction on the movement of mobile cranes within the London area it should be noted that access to site must be provided before 06.00 on the morning of an erection or dismantling operation and permission to move the crane off site at the end of the day must be given after 20.00 hrs at night . If access or egress is not allowed within these time periods then a full day's charge for the mobile crane will be levied if, effectively, the crane is "trapped" on site as a result of the new regulations.

All major site works and deliveries must be kept to a minimum during the erection and dismantling operations and confined to areas outside of the erection/dismantling exclusion zone.

Transport, erection and dismantling prices are based on standard weekday working with clear access to within 10 metres of the base of the tower crane unless otherwise stated within the crane specification/pricing section. All rates quoted assume that there are no environmental restrictions imposed on the working hours for the mobile cranes, labour and transport. Any such restrictions must be notified to this office in writing. Unless specifically stated within the crane specification/pricing section, one day for the mobile crane has been allowed for erection and dismantling purposes.

Please be aware that should site wish to cancel either the erection or dismantling of the tower crane, we will require 48 hours' notice to avoid any charges for late cancellation of transportation and mobile craneage. This will need to be sent to the office in writing clearly stating reasons for cancellation. Please note that emailed notification is perfectly acceptable in this instance. Should the 48 hour notice period not be adhered to, please be advised that there will be cancellation charges applied.

10. Ancillary Equipment
If required, we can supply any/all of the quoted ancillary items under the heading of "Tower Crane Additional Options".

11. Operator and Labour Information
Unless otherwise stated, operator bonus payments have not been included in this quote, with these being solely at the discretion of the site. Should an operator's bonus be included on their weekly timesheet, we will add a 17.5% surcharge to cover Employers NIC charges.
Operator minimum working hours are chargeable as follows
Monday – Friday – 10 hours per day
Weekends and Bank holidays – 8 hours per day minimum

12. Bank Holidays
Only the machine rate will apply during statutory holiday periods.

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13. Road Closures, Traffic Management Fees, Traffic Marshall Costs and Associated Licences
No allowance has been made for council permit fees or traffic management fees unless otherwise specified. Road closures will usually require a minimum of 6 weeks notice to the local authority concerned. We may not yet have had the opportunity to visit site, and will need to be advised should the mobile crane be required to stand on the public highway.

14. Delays
Please refer to the CPA Conditions for details of idle time while working. Delays that occur during erection and dismantling that are beyond our control will be charged at day work rates unless otherwise specified. Inclement weather conditions are classed as being beyond our control.

15. Hire Period
Should the hire period fail to meet the original minimum hire period quoted for, we will reserve the right to review the machine rate and may back date charges from when hire commenced, including changes to the original erection and dismantling costs. Furthermore, if the hire period exceeds 8 weeks over the originally stated duration, we will also reserve the right to review all charges. If an extension of the original hire period is required, this request must be made in writing to this office at least 8 weeks prior to the end of the original agreed hire period. Such requests will be dealt with as quickly as possible.

16. Off hire Notice
Please be advised that as per your CPA agreement, if your crane is **not** subject to a road closure or traffic management, we require one weeks' notice for off-hiring. We would like to point out that this does ***not*** guarantee a dismantle date within this period. Dismantle dates are subject to labour availability and would need to be booked at least 8 weeks in advance for mid-week dates and possibly even earlier should a weekend date be required.

17. Notice of Termination of Hire
For the purposes of clarity and not withstanding the notice period outlined in the main contract, it should be clearly understood that the required period for the termination of hire will depend on any impediment regarding access to the tower crane. For example, if a road closure is required then the necessary notice for the termination of hire will reflect the amount of notice required to effect the closure.

18. Regulations
The crane is hired on the understanding that it will be used strictly in accordance with the requirements of the Construction Lifting Operation and Lifting Equipment Regulations (LOLER) 1998.

19. Hirer to Provide

- A suitable certificated base foundation designed to the relevant British Standard, including all works, labour and material.
- Clear and suitable access, plus hard standing for mobile cranes and transport.
- A 3 phase power supply to the base of the machine, terminating in a switched fused isolator to be available on day 1 of our operations.
- Please note that the crane will require an industrial, motor-rated specification, variable RCD protective device with a range from 0-300ma minimum with a time delay variation of 0-0.5 seconds.
- A clean independent earth for the purposes of lightning protection, is to provided at the base of the crane and must not exceed 10ohms of resistance to earth. This should be flexible and of suitable length, terminated with a M12 crimp for attachment to the base of the tower on the first day of erection.
- All risks insurance cover.

Steve Paxman

Steve Paxman
Sales Director
Falcon Tower Crane Services Limited

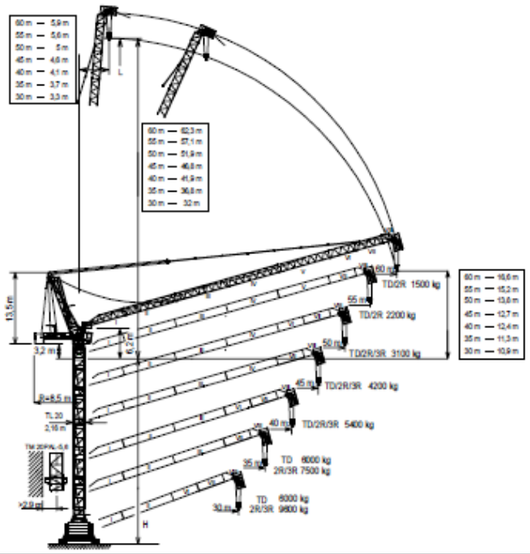
FCH0005

GRUA TORRE / *TOWER CRANE*
GRUE A TOUR / БАШЕННЫЙ КРАН /
KULE VINÇ / رافعة برجية

J208PA

CE EN 14439 C25

UNE-EN-ISO 9001



H = Máxima altura de torre sin arriostrar (m). / *Maximum tower height without fastening (m).* / *Hauteur maximale de tour sans ancrage (m).* / *Максимальная высота башни без крепления (м).* / *Desteksiz maksimum kule yüksekliği (m)* / أقصى ارتفاع للبرج بدون ربط (م)

*Tramo pluma I / Jib section I	207.40.000	AL 20	153.21.800
*Tramo pluma II / Jib section II	207.41.000	AS 20	160.21.010
*Tramo pluma III / Jib section III	207.42.000	ASR 20	160.21.200
*Tramo pluma IV / Jib section IV	207.43.000	TL 20	153.31.000
*Tramo pluma V / Jib section V	207.44.500	TL 20-5,6	204.31.400
*Tramo pluma VI / Jib section VI	207.44.000	TS 20-5,6	204.31.200
*Tramo pluma VII / Jib section VII	207.45.000	TS 20-5,6A	204.31.500
**Punta pluma VIII/ Jib end VIII	207.46.000	TSR 20-5,6	204.31.000
BU 6-20-5,6H	166.20.000	TSR 20-5,6A	204.31.300
BSI 8-20-5,6H	166.20.200	TM 20PAL-5,6	166.35.500
ABH 100	201.23.000		

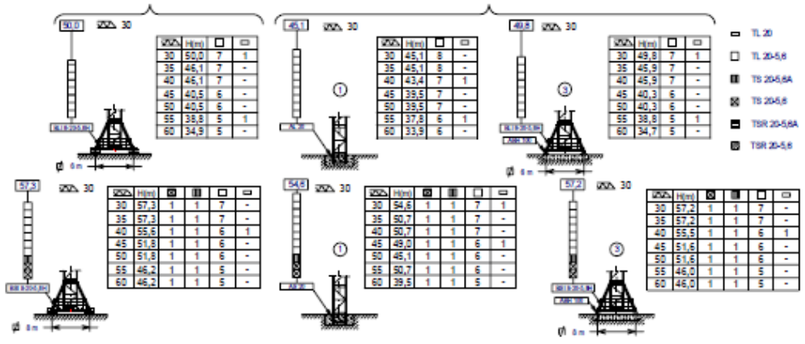
* Tramo pluma / Jib section / Tronçon de flèche / Секция стрелы / Bom bölümü / أجزاء الذراع

** Punta de pluma / Jib end / Pointe de flèche / Конец стрелы / Bom ucu / مقدمة الذراع

(H) TRASLACIÓN / TRAVELLING / TRASLATION / ПЕРЕМЕЩЕНИЕ / RAY YÜRÜYÜŞLÜ / متحركة

(H) ESTACIONARIA / STATIONARY / STATIONNAIRE / СТАЦИОНАРНОЕ СОСТОЯНИЕ / SABİT / ثابتة

TD/2R/3R



JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L. FEM 1005 – C25

Fecha / Date: 04-07-2013

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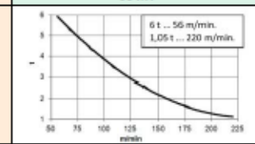
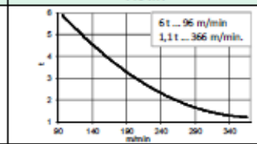
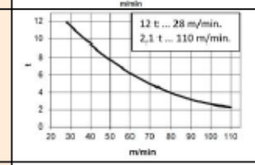
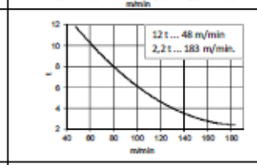
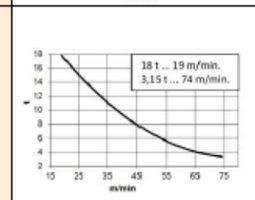
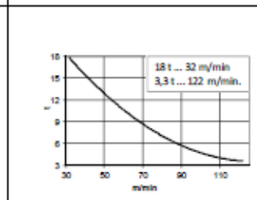
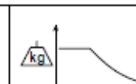
CARGAS / *LOADS* / CHARGES / НАГРУЗКИ / YÜKLER / الأحمال — **J208PA**

TD/2R/3R [t] — Cargas máximas / *Maximum loads* / *Charges maximales* / *Максимальные нагрузки* / *Maksimum yük* / أقصى حمولة

TD/2R/3R - 6t/12t/18t

[m]	Alcance del gancho [m] / *Hook reach [m]* / Portée du crochet (m) / Радиус действия крюка (m) / Kancanın yüksekliği (m) / مدى الخطاف 60	55	50	45	40	35	30	25	20	TD 6t @...[m]	2R 12t @...[m]	3R 18t @...[m]
60	1,5	2,2	3,0	3,9	5,2	6,6	8,6	11,4	12,0	37,1	24,2	
55	——	2,2	3,0	3,9	5,2	6,6	8,6	11,4	12,0	37,1	24,2	
50	——	——	3,1	4,1	5,3	6,7	8,7	11,5	15,6	37,4	24,3	17,9
45	——	——	——	4,2	5,4	6,8	8,8	11,5	15,6	37,8	24,3	17,9
40	——	——	——	——	5,4	6,8	8,8	11,5	15,6	37,8	24,3	17,9
35	——	——	——	——	——	7,5	9,5	12,2	16,4	35,0	25,4	18,5
30	——	——	——	——	——	——	9,6	12,3	16,4	30,0	25,5	18,5

CARACTERISTICAS DE MECANISMOS / *MECHANISMS FEATURES* / CARACTÉRISTIQUES DES MÉCANISMES / ХАРАКТЕРИСТИКИ МЕХАНИЗМОВ / MEKANİZMALARIN ÖZELLİKLERİ / الخصائص الآلية — **J208PA**

*opcional *optionel *en option *onları *opsiyonel *اختياري	EC88110VF 65 kW	*EC150185VF 110 kW	TG2020VF 2x7,3 kW	OG1507V 2x5,5 kW	EP6015VF 44,1 kW	TH2006 15 kW
			0...20 m/min	0...0,2 0,2...0,35 0,35...0,7 m/min sl/min	1,5 min	0,6 m/min
			400V 50Hz $P_{TOTAL(EC88110VF + OG1507VF + EP6016VF)}$ = 120,1 kW $P_{TOTAL(EC150186VF + OG1507VF + EP6016VF)}$ = 165,1 kW			
			 H ≤ TD 568m 2R 284m 3R 189m 			

JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L. FEM 1005 – C25

Fecha / Date: 04-07-2013

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LISTA DE EMBARQUE / PACKING LIST / LISTE DE COLISAGE / СПИСОК ПОСТАВКИ / ÇEKİ LİSTESİ / قائمة التحميل — J208PA

DENOMINACIÓN / DENOMINATION / DÉSIGNATION / НАЗВАНИЕ / AÇIKLAMA / اسم		L [m]	A [m]	H [m]	P / W [kg]
Torre inferior / *Lower tower / Tour inférieure / Нижняя башня* / *Alt kule* / البرج السفلي	TLI20-5,6	5,886	2,306	2,357	4235
	TSI20-5,6	5,966	2,328	2,390	5390
	TSRI20-5,6	5,990	2,257	2,257	6562
Torre / *Tower / Tour / Башня / Kule* / برج	TL20	4,175	2,201	2,281	2095
	TL20-5,6	5,886	2,306	2,357	2938
	TS20-5,6	5,966	2,328	2,390	3604
	TSR20-5,6	5,990	2,257	2,257	4262
	TSR20-5,6A	5,926	2,388	2,325	3637
	TS20-5,6A	5,978	2,381	2,331	4221
Torre asiento pista, base punta torre y orientación / Slewing table, tower head base and slewing mechanism / Tour pivot + base du porte-flèche + mécanisme d'orientation / Сиденье площадки + основание верхней секции башни + поворотный механизм / Döner tabla+kule kafa bölümü tabanı+mekanizma / برج وحدة الدوارن + قاعدة رأس البرج + آلية الدوران		6,970	2,550	3,057	9500
Estructura punta de torre sin base / Tower head structure without base / Structure de porte-flèche sans base / Структура верхней секции башни без основания / Tabansız kule başının yapısı / هيكل راس البرج بدون قاعدة		11,58	1,910	2,033	5470
Tramo de pluma / *Jib section / Tronçon de flèche / Секция стрелы / Bom bölümü* / أجزاء الذراع	(I)	9,180	2,040	1,765	1585
	(II)	10,160	1,266	1,565	1410
	(III)	10,160	1,266	1,565	1340
	(IV)	10,160	1,266	1,565	1190
	(V)	10,160	1,266	1,565	1000
	(VI)	5,270	1,266	1,565	580
	(VII)	5,270	1,266	1,610	770
Punta de pluma / *Jib end / Pointe de flèche / Конец стрелы / Bom ucu* / مقدمة الذراع		3,420	1,560	3,585	856
Polipasto / *Hook assembly / Palan / Полиспаст / Kanca takımı* / بكرة		0,910	0,350	1,370	455
Tirante sostén pluma / *Jib support tie / Tirant de flèche / Растяжка поддержки стрелы / Kol destek bağları* / مشد دعامة الذراع		5,000	0,360	0,450	1232
Estructura contrapluma / *Counterjib structure* / Structure de contre-flèche / Структура противовесной консоли /Denge kolunun yapısı / هيكل الذراع المعاكس		7,110	1,875	0,540	1145
Contrapluma con mecanismos / *Counterjib with mechanisms* /Contre-flèche avec mécanismes / Противовесная консоль с механизмами / Mekanizmalı denge kolu / الذراع المعاكس مع الآليات		7,110	2,230	1,819	9200
Plataforma y cabina / *Platform and cabin / Plateforme et cabine / Платформа и кабина / Platform ve kabin* / منصة وكابينة		3,440	1,810	2,416	856
Mecanismos / *Mechanisms / Mécanismes de / Механизмы / Mekanizmalar* / آليات كهربائية	Elevación carga / *Hoisting / levage de charge / Подъем груза / Yük kaldırma* / رافع الحمولة	1,919	2,110	1,540	3830
	Elevación pluma / *Luffing / Relevage de flèche / Подъем стрелы / Yük kaldırma ve indirme* / رافع الذراع	1,948	2,170	1,400	3250
Transporte torre de montaje/ Jacking cage transport / Transport de tour de montage / Транспортировка монтажной башни / Kaldırma kafesinin taşınması / نقل برج التركيب	TM 20PAL-5,6	9,550	2,070	2,520	5,690

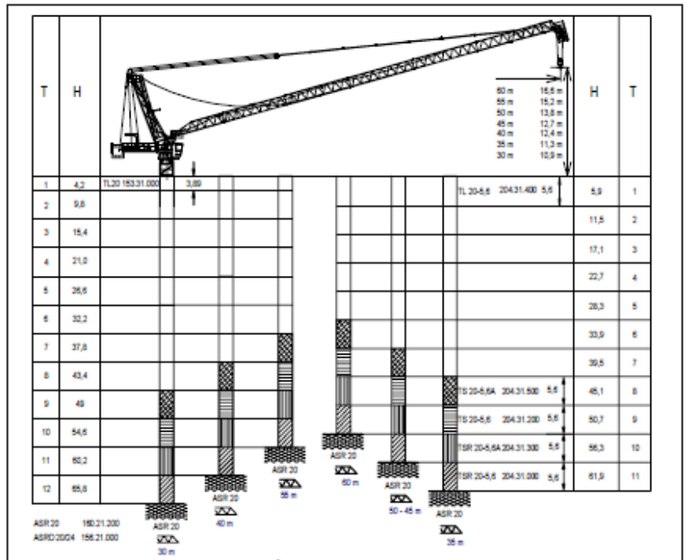
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Fecha / Date: 04-07-2013

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COMPOSICIONES DE TORRE / *TOWER COMPOSITIONS* — J208PA

COMPOSITIONS DE LA TOUR / КОНСТРУКЦИЯ БАШНИ / KULE KOMPOZİSYONLARI / مكونات البرج

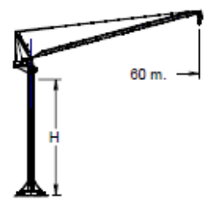


T: Torre / *Tower / Tour / Башни / Kuleler* / أبراج

H: Altura / *Height / Hauteur / Высота / Yükseklik* / ارتفاع

Otras configuraciones de torre / Other tower configuration / Autres configurations / Прочие конфигурации / Diğer konfigürasyonlar / مكونات أخرى

Transporte / Transport / Transport / Транспортировка / Taşıma / نقل



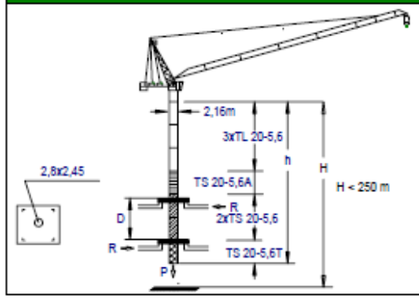
7x

7x HIGH CUBE 40'

FLAT RACK 40'

1x Ancho 2,4m wide

TREPADO / *CLIMBING* / TÉLESCOPAGE / ЛЕСТНИЦА / TIRMANMA / التسلق — J208PA



h_{max}: TS 20-5,6T + 2xTS 20-5,6 + TS 20-5,6A+ 3xTL 20-5,6

60 m.	▶	■
h (m)	39,2	
D (m)	15,6 - 19	
P (KN)	1025	905
Rmax (KN)	247	498

Trepado interno / Internal climbing. / Télescopage intérieur / Внутренняя лестница / Bina içi tırmanma / التسلق الداخلي

Viento fuera de servicio / Out of service wind / Vitesse du vent hors service / Ветровая нагрузка в покое / Rüzgar devre dışı / الريح خارج الخدمة

Consultar / Consult / Nous consulter / Консультируйтесь / Danışınız / الرجوع إلى

▶ En servicio / In service / En service / В работе / Devrede / في الخدمة

■ Fuera de servicio / Out of service / Hors service / В покое / Devre dışı / خارج الخدمة

JASO EQUIPOS DE OBRAS Y CONSTRUCCIONES, S.L.

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Fax. +34 943 - 18 70 20
E-mail: jaso@jaso.com
http://www.jaso.com

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DELEGACION / *DELEGATION*

Fecha / Date: 04-07-2013

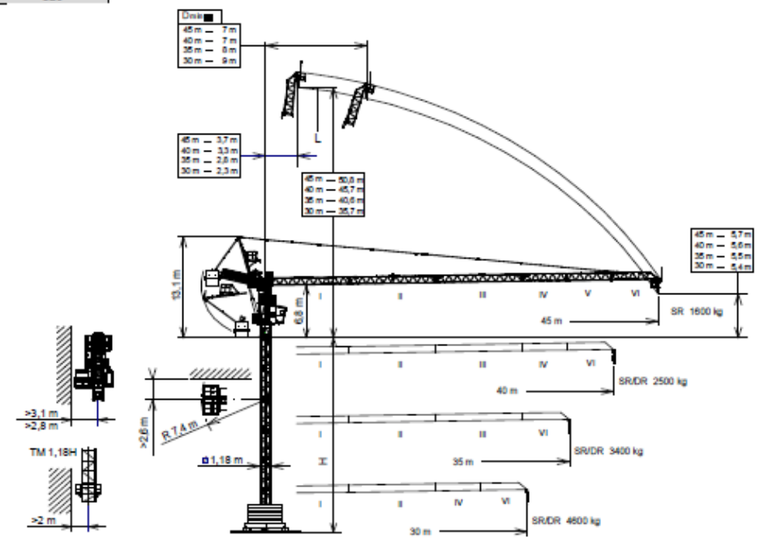
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GRUA TORRE / *TOWER CRANE*
GRUE A TOUR / БАШЕННЫЙ КРАН /
KULE VINÇ / رافعة برجية

J118HPA

CE EN 14439 C25

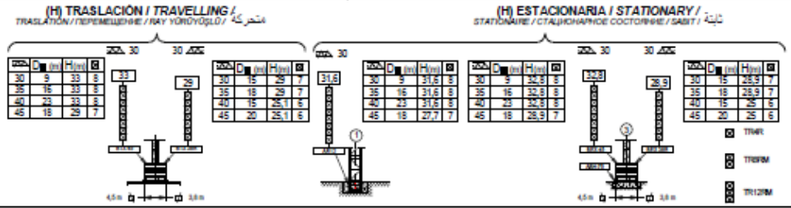
UNE-EN-ISO 9001



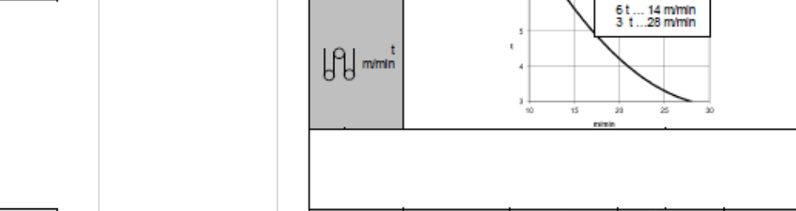
H	Máxima altura de torre sin arriostrar (m). *Maximum tower height without fastening (m). Hauteur maximale de tour sans ancrage (m).*Максимальная высота башни без крепления (м). Desteksiz maksimum kule yüksekliği (m) أقصى ارتفاع للبرج بدون ربط (م)
$D_{\blacksquare}$	Distancias fuera de servicio dependen de la altura de la torre / *Out of service distance depend on tower height / Distances hors service dépendent de la hauteur de la tour / Расстояние в нерабочем состоянии от высотной башни / Odległość devre dışı zależy od wysokości wieży*

H ($D_{\blacksquare}$)

(H) TRASLACIÓN / *TRAVELLING* / TRASLATION / ПЕРЕМЕЩЕНИЕ / RAY YÜRÜYÜŞLÜ / متحركة

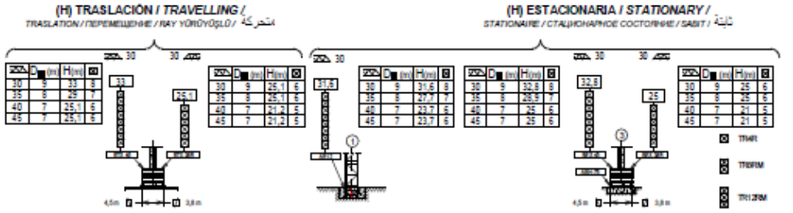


(H) ESTACIONARIA / *STATIONARY* / STATIONNAIRE / СТАЦИОНАРНОЕ СОСТОЯНИЕ / SABİT / ثابتة

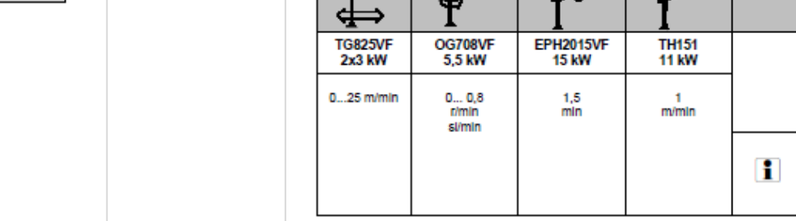


H ($D_{min\blacksquare}$)

(H) TRASLACIÓN / *TRAVELLING* / TRASLATION / ПЕРЕМЕЩЕНИЕ / RAY YÜRÜYÜŞLÜ / متحركة



(H) ESTACIONARIA / *STATIONARY* / STATIONNAIRE / СТАЦИОНАРНОЕ СОСТОЯНИЕ / SABİT / ثابتة



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CARGAS / *LOADS* / *CHARGES* / *НАГРУЗКИ* / *YÜKLER* / الأحمال — **J118HPA**

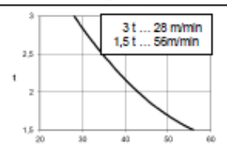
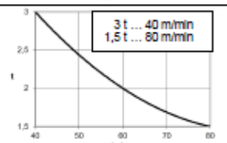
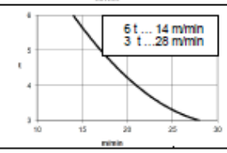
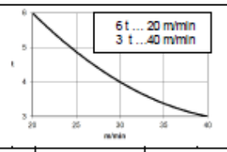
SR / DR (kg)

	DR 6000 kg @ (m)	SR 3000 kg @ (m)	Alcance del gancho [m] / *Hook reach [m]* / *Portée du crochet (m)* /*Радиус действия крюка (m)* *Kancanın yüksekliği (m)* / مدى الخطاف					
			20	25	30	35	40	45
45 m	33,1		3000	3000	3000	2780	2235	1600
40 m	37,3		3000	3000	3000	3000	2500	—
35 m	22,7	35	3000/6000	3000/5435	3000/4425	3000/3400	—	—
30 m	25,1	30	3000/6000	3000/6000	3000/4600	—	—	—

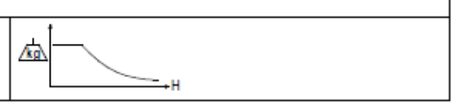
	DR 5000 kg @ (m)	SR 2500 kg @ (m)	Alcance del gancho [m] / *Hook reach [m]* / *Portée du crochet (m)* /*Радиус действия крюка (m)* *Kancanın yüksekliği (m)* / مدى الخطاف				
			20	25	30	35	40
40 m	24,7	40	5000	4940	4030	3315	2500

CARACTERISTICAS DE MECANISMOS / *MECHANISMS FEATURES* — **J118HPA**
***CARACTÉRISTIQUES DES MÉCANISMES / ХАРАКТЕРИСТИКИ МЕХАНИЗМОВ / MEKANİZMALARIN ÖZELLİKLERİ* / الخصائص الآلية**

*opcional / *optional / *en option / *опция / *opsiyonel / *اختياري

	EC2556VF 18,4 kW	*EC3380VF 24,2 kW
t m/min		
t m/min		
		H ≤ SR 452 m DR 226 m

TG825VF 2x3 kW	OG708VF 5,5 kW	EPH2015VF 15 kW	TH151 11 kW	400V 50Hz
0...25 m/min	0... 0,8 r/min s/min	1,5 min	1 m/min	$P_{TOTAL(EC2556VF + OG708VF + EPH2016VF)}$ = 38,9 kW $P_{TOTAL(*EC3380VF + OG708VF + EPH2016VF)}$ = *44,7 kW



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LISTA DE EMBARQUE / *PACKING LIST* / *LISTE DE COLISAGE* / *СПИСОК ПОСТАВКИ* / *ÇEKİ LİSTESİ* / قائمة التحميل — J118HPA

DENOMINACIÓN / *DENOMINATION* / *DÉSIGNATION* / *НАЗВАНИЕ* / *AÇIKLAMA* / اسم		L [m]	A [m]	H [m]	P / W [kg]
Torre / *Tower* / *Tour* / *Башня* / *Kule* / برج	TR8RM	8,070	1,190	1,190	2575
	TR12RM	12,010	1,190	1,190	3715
	TR4R	4,15	1,190	1,190	1430
Torre asiento pista + base punta de torre + orientación *Slewing table + tower head base + slewing mechanism* *Tour pivot + base du porte-flèche + mécanisme d'orientation* *Сиденье площадки + основание верхней секции башни + поворотный механизм* Göbek +*kule kafa bölümü tabanı+mekanizma* / برج وحدة الدوران + قاعدة رأس البرج + آلية الدوران		2,900	1,710	1,900	3.000
Conjunto asiento pista, punta de torre, orientación y elevación *Slewing table assembly, tower head, slewing and hoisting mechanism* *Groupe pivot + porte-flèche + mécanisme d'orientation + de levage* *Сиденье площадки + верхняя секция башни + поворотный механизм + подъемный механизм* Göbek +*kulenin kafa bölümü+mekanizma+vinç kulesi* مجموعة وحدة الدوران + رأس البرج + آلية الدوران + آلية الرفع		8,450	1,750	2,450	8.000
Tramo de pluma / *Jib section* / *Tronçon de flèche* / *Секция стрелы* / *Bom bölümü* / أجزاء الذراع	[I]	10,230	0,990	1,075	1.195
	[II]	10,165	0,860	1,065	870
	[III]	10,155	0,860	1,050	630
	[IV]	5,265	0,860	1,050	320
	[V]	5,265	0,845	1,045	290
	[VI]	5,705	0,865	1,057	410
Punta de pluma / *Jib end* / *Pointe de flèche* / *Конец стрелы* / *Bom ucu* / مقدمة الذراع		0,820	0,550	0,685	90
Mecanismo elevación carga / *Hoisting mechanism* / *Mécanisme de levage*/ *подъемный механизм* / *Vinç kulesi* / آلية الرفع		1,430	1,060	0,800	810
Punta de torre + *Elevación carga* / *Tower head + hoisting mechanism* *Porte-flèche + mécanisme de levage* / *Верхняя секция башни + подъемный механизм* *Kulenin kafa bölümü* + *Vinç kulesi* / رأس البرج + آلية الرف		6,100	1,500	2,455	5.000
Elevación pluma con plataforma / *Luffing mech + platform* / *Relevage de flèche + plateform* + *Подъем стрелы + Платформа* + *Yük kaldırma ve indirme + Platform* / رافع الذراع + كابينة *Cilindro hidráulico* / *Hydraulic cylinder* / *Cylindre hydraulique* /		2,700	1,180	2,23	1.130
		3,380	0,620	0,,535	1.350
Polipasto / *Hook assembly* / *Palan* / *Полиспаст* / *Kanca takımı* / بكرة Gancho / *Hook*		0,635	0,235	1,175	220
Tirante sostén pluma / *Jib support tie* / *Tirant de flèche* / *Растяжка поддержки стрелы* / *Kol destek bağları* / مشد دعامة الذراع		6,260	0,360	0,350	685
Contrapluma con plataformas / *Counterjib with platforms* *Contre-flèche avec plateformes* / *Противовесная консоль с платформами* / *Platformlu kuyruk* / الذراع المقابل مع المنصة		4,600	1,700	1,600	1.900
Parte superior *Top part*		5,500	1,260	0,650	750
Plataforma y cabina / *Platform and cabin* / *Plateforme et cabine* *Платформа и кабина* / *Platform ve kabin* / منصة وكابينة		3,500	2,070	2,425	1.100
Contrapeso / *Counterweight* / *Contrepoids* / *Противовес* / *Denge ağırlığı* / اوزان معكسة		1,486	0,600	2,125	4.100
		1,486	0,600	0,905	1.650
Lastre / *Ballast* / *Lest* / *Балласт* / *Alt ağırlık taşları* / ثقل		4,000	0,340	1,300	4.100
Estructura torre de montaje / *Jacking cage structure* / *Structure de tour de montage* / *Структура монтажной башни* / *Kaldırma kafesi yapısı* / هيكل برج التركيب	TM 1.18H	7,14	1,76	1,71	3300

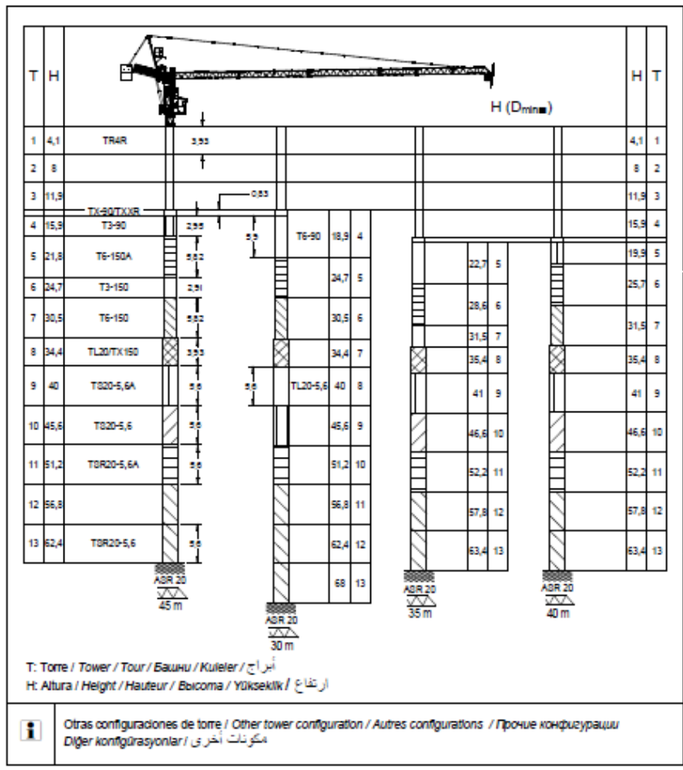
Fecha / *Date*: **20/01/2016**

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COMPOSICIONES DE TORRE / *TOWER COMPOSITIONS* — **J118HPA**

***COMPOSITIONS DE LA TOUR* / *КОНСТРУКЦИЯ БАШНИ* / *KULE KOMPOZİSYONLARI* / مكونات البرج**

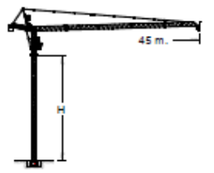


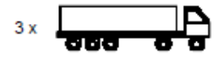
T: Torre / *Tower* / *Tour* / *Башни* / *Kuleler* / أبراج

H: Altura / *Height* / *Hauteur* / *Высота* / *Yükseklik* / ارتفاع

Otras configuraciones de torre / *Other tower configuration* / *Autres configurations* / *Прочие конфигурации* / *Diğer konfigürasyonlar* / مكونات أخرى

Transporte / *Transport* / *Transport* / *Транспортировка* / *Taşıma* / نقل





4 x HIGH CUBE 40'

- Viento fuera de servicio / *Out of service wind* / *Vitesse du vent hors service* / *Ветровая нагрузка в покое* / *Rüzgar devre dışı* / الريح خارج الخدمة
- Consultar / *Consult* / *Nous consulter* / *Консультируйтесь* / *Danışınız* / الرجوع إلى
- ▶ En servicio / *In service* / *En service* / *В работе* / *Devrede* / في الخدمة
- ■ Fuera de servicio / *Out of service* / *Hors service* / *В покое* / *Devre dışı* / خارج الخدمة
- D■ Distancia fuera de servicio / *Out of service distance* / *Distance hors service* / *Расстояние В покое* / *Odległość devre dışı* / الخدمة خارج المسافة

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DELEGACION / *DEALER*

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Construction Plant-hire Association

MODEL CONDITIONS FOR THE HIRING OF PLANT

(With effect from July 2011)

These conditions are not to be used for consumer contracts.
A consumer contract is a contract entered into with a person acting in their own capacity and not for or on behalf of any business or trade entity.

1. DEFINITIONS

(a) The "Contract" is the Contract between the Owner and the Hirer for the hire of Plant, which incorporates the Offer and is governed by these conditions.
(b) The "Hire Period" shall commence from the time when the Plant leaves the Owner's depot or place where last employed and shall continue until the Plant is received back at the Owner's named depot or other agreed location. For the avoidance of doubt the Hire Period includes the time Plant is left on site during a Holiday Period.
(c) The "Hirer" is the Company, firm, person, Corporation or public authority taking the Owner's Plant on hire and includes their successors or personal representatives.
(d) "Holiday Period" covers any cessation of work over Easter, Christmas and the New Year, as well as any other Bank or Public holidays.
(e) "Offer" is the Owner's offer to hire the Plant to the Hirer which will include details of the Plant to be hired, the Hire Period, relevant hire rates and charges and any supplementary conditions to be incorporated into the Contract.
(f) The "Owner" is the Company, firm or person letting the Plant on hire and includes their successors, assignees or personal representatives.
(g) "Plant" covers all classes of Plant, or replacement Plant, machinery, vehicles, equipment, accessories, and any ancillary items, vehicles or equipment therefor, which the Owner agrees to hire to the Hirer, or anything which is supplied by the Owner to effect the hire, and anything supplied by the Owner for the safe operation and routine inspection and maintenance of the Plant.
(h) A "Working Day" shall be from 8.00 am to 4.30 pm, Monday to Thursday, and 8.00 am to 3.30 pm, on Friday allowing a half-hour lunch break each day, unless otherwise specified in the Contract.
(i) A "Working Week" covers the period from 8.00 am on Monday to 3.30 pm on Friday, unless otherwise specified in the Contract.

2. EXTENT OF CONTRACT

No terms, conditions or warranties other than as specifically set forth in the Offer shall be deemed to be incorporated or to form part of the Contract or shall otherwise govern the relationship between the Owner and the Hirer in relation to the hire of any particular Plant pursuant to the Offer. This excludes all other terms or conditions which the Hirer may seek to apply under any order or acknowledgement or acceptance or similar document and supersedes all prior negotiations, representations or agreements, whether written or oral unless and to the extent that they are expressly accepted in writing and signed by the Owner. The Owner and the Hirer do not intend that any of the terms of the Contract will be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person not a party to the Contract, except that a person who is a successor to or an assignee of the rights of the Owner is deemed to become a party to the Contract after the date of succession or assignment (as the case may be).

3. ACCEPTANCE OF PLANT

Acceptance of the Plant on site implies acceptance of all terms and conditions herein unless otherwise previously agreed in writing.

4. UNLOADING AND LOADING

The Hirer shall be responsible for the unobstructed access and egress and, unless otherwise agreed in writing, for unloading and loading of the Plant at the site, and any personnel supplied by the Owner for such unloading and / or loading shall be deemed to be under the direction and control of the Hirer. Such personnel shall for all purposes in connection with their employment in the unloading and / or loading of the Plant be regarded as the servants or agents of the Hirer (but without prejudice to any of the provisions of clause 13) who shall be solely responsible for all claims arising in connection with unloading and / or loading of the Plant by, or with the assistance of, such personnel.

5. DELIVERY IN GOOD ORDER AND MAINTENANCE: INSPECTION REPORTS

(a) Unless notification in writing to the contrary is received by the Owner from the Hirer in the case of Plant supplied with an operator within four working days, and in the case of Plant supplied without an operator within three working days, of the Plant being delivered to the site, the Plant shall be deemed to be in good order, save for either an inherent fault or a fault not ascertainable by reasonable examination, in accordance with terms of the Contract and to the Hirer's satisfaction, provided that where the Plant requires to be erected on site, the periods stated above shall be calculated from the date of completed erection of Plant. The Hirer shall be responsible for the safe keeping of the Plant, its use in a workmanlike manner within the manufacturer's rated capacity and in accordance with the manufacturer's and / or the Owner's recommendations, and its return on the completion of the Hire Period in equal good order (fair wear and tear excepted).
(b) The Hirer shall at all times when hiring Plant without the Owner's operator or driver take all reasonable steps to keep himself acquainted with the state and condition of the Plant. If such Plant is continued at work or in use in an unsafe and unsatisfactory state or environment, the Hirer shall be solely responsible for any damage, loss, cost, expense or accidents whether directly or indirectly arising therefrom.
(c) Any inspection report required under the relevant legislation, or a copy thereof, shall be supplied by the Owner, if requested by the Hirer, and returned on completion of the Hire Period.

6. SERVICING AND INSPECTION

The Hirer shall at all reasonable times allow the Owner, his agents or his insurers to have access to the Plant to inspect, test, adjust, repair or replace the same. So far as reasonably practicable the Hirer shall allow such access during the Working Day.

7. GROUND AND SITE CONDITIONS

(a) The Hirer is deemed to have knowledge of the site or the property or land where the Plant is to be delivered and the Hirer warrants that the condition of the site or place of delivery of the Plant is suitable for the use of such Plant.
(b) If, in the opinion of the Hirer, the ground (including any private access road or track) is soft or unsuitable for the Plant to work on, travel over, be transported over, be erected or dismantled on without timbers or equivalent support, the Hirer shall supply and lay suitable timbers or equivalent support in a suitable position for the Plant to travel over, work on, be transported over, be erected or dismantled on, including for the purpose of delivery and collection.
(c) Any timber or other material supplied by the Owner is provided solely to assist the Hirer under their duties within clause 7(b) and expressly not to relieve him of his legal, regulatory or contractual obligations to ensure adequate stability of the Plant.
(d) The Hirer is responsible for the protection of, and liable for any damage to, any underground, surface or above ground services and utilities including, but not limited to cables, ducts, water pipes and gas lines, and any pavements, bridges, tunnels and roadways on or adjacent to the site and the Hirer shall liaise as necessary and comply with all requirements of the relevant statutory authority or similar body.

8. HANDLING OF PLANT

a) When a driver or operator or any person is supplied by the Owner with the Plant, the Owner shall supply a person competent in operating the Plant or for such purpose for which the person is supplied and such person shall be under the direction and control of the Hirer. Such drivers or operators or persons shall for all purposes in connection with their employment in the working of the Plant be regarded as the servants or agents of the Hirer (but without prejudice to any of the provisions of clause 13) and the Hirer shall be solely responsible for all claims arising in connection with the operation of the Plant by the said drivers / operators / persons.
(b) The Hirer shall not allow any other person to operate such Plant without the Owner's prior written consent.
(c) Such drivers or operators or persons shall not operate any other plant or machinery or undertake work other than that for which they are supplied by the Owner unless previously agreed in writing between the Owner and the Hirer.

9. BREAKDOWN, REPAIRS AND ADJUSTMENT

(a) Any breakdown or the unsatisfactory working of or damage to any part of the Plant must be notified immediately to the Owner, and confirmed in writing. Any claim for breakdown time will only be considered from the time and date at which written notification is received and acknowledged by the Owner.
(b) Full allowance for the hire charges set out in the Offer will be made to the Hirer for any stoppage due to breakdown of the Plant caused by the development of either an inherent fault or a fault not ascertainable by reasonable examination or fair wear and tear and for all stoppages for normal running repairs in accordance with the terms of the Contract.
(c) The Hirer shall not (except for the changing of any tyre and repair of punctures), repair, modify or alter the Plant without the prior written permission of the Owner. The changing of any tyre and repair of punctures are however the responsibility of the Hirer who should arrange for them to be changed / repaired. The Hirer is responsible for all costs incurred in the changing or replacement of any tyre (which must be of an equivalent specification) as approved by the Owner and for the repair of any puncture.
(d) The Hirer shall be responsible for all expense involved arising from any breakdown, unsatisfactory working of or damage to any part of the Plant due to the Hirer's negligence, misdirection or misuse of the Plant, whether by the Hirer or his servants, and for the payment of hire at the idle time rate as defined in clause 25, during the period the Plant is necessarily idle due to such breakdown, unsatisfactory working or damage. The Hirer is responsible for the cost of spares and / or repairs due to theft, loss or vandalism of the Plant. The Owner will be responsible for the cost of repairs, inclusive of the cost of spares, to the Plant involved in breakdown from all other causes.

10. OTHER STOPPAGES

No claims will be admitted (other than those allowed for under "Breakdown" (clause 9) or for "Idle Time" (clause 25), as herein provided), for stoppages through causes outside the Owner's control, including but not limited to bad weather and / or ground conditions nor shall the Owner be responsible for the cost or expense of recovering any Plant from soft or unsuitable ground, or a hazardous environment. For the avoidance of doubt, the Hirer shall be responsible for the cost and expense of recovering any Plant from soft or unsuitable ground or a hazardous environment.

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11. LOSS OF OTHER PLANT DUE TO BREAKDOWN

Each item of Plant specified in the Contract is hired as a separate unit and the breakdown or stoppage of one or more units or vehicles (whether the property of the Owner or otherwise) through any cause whatsoever, shall not entitle the Hirer to compensation or allowance for the loss of working time by any other unit or units of Plant working in conjunction therewith, provided that where two or more items of Plant are expressly hired together as a unit, such items shall be deemed to be one unit for the purpose of breakdown.

12. LIMITATION OF LIABILITY

Except for liability on the part of the Owner which is expressly provided for in the Contract (including these clauses):
(a) the Owner shall have no liability or responsibility for any loss, or damage of whatever nature due to or arising through any cause beyond his reasonable control;
(b) the Owner shall have no liability or responsibility, whether by way of indemnity or by reason of any breach of the Contract, breach of statutory duty or misrepresentation or by reason of the commission of any tort (including but not limited to negligence) in connection with the hire, for any of the Hirer's loss of profit, loss of use of the Plant or any other asset or facility, loss of production or productivity, loss of contracts with any third party, liabilities of whatever nature to any third party, and / or any other financial or economic loss or indirect or consequential loss or damage of whatever nature; and
(c) whenever the Contract (including these clauses) provides that any allowance is to be made against hire charges, such allowance shall be the Hirer's sole and exclusive remedy in respect of the circumstances giving rise to the allowance, and such remedy shall be limited to the amount of hire charges which would otherwise be or become due if the allowance in question had not been made.
(d) For the avoidance of doubt, nothing in these conditions limits or seeks to exclude the Owner's liability for claims of death or personal injury caused by the Owner's negligence, fraud or for any other liability for which it is not permitted to seek to limit or exclude by operation of law.

13. HIRER'S RESPONSIBILITY FOR LOSS AND DAMAGE

(a) For the avoidance of doubt it is hereby declared and agreed that nothing in this clause affects the operation of clauses 4, 5, 8 and 9 of these conditions.
(b) For the duration of the Hire Period (which for the avoidance of doubt includes the time Plant is left on site during a Holiday Period) the Hirer shall, subject to the provisions referred to in sub paragraph (a) make good to the Owner all loss of or damage to the Plant from whatever cause the same may arise, fair wear and tear excepted, and except as provided in clause 9 herein, and shall also fully and completely indemnify the Owner and any personnel supplied by the Owner in respect of all claims by any person whatsoever for injury to person or property caused by or in connection with or arising out of the storage, transit, transport, unloading, loading or use of the Plant during the continuance of the Hire Period, and in connection therewith, whether arising under statute or common law. In the event of loss of or damage to the Plant, hire charges shall be continued at idle time rates as defined in clause 25 until the settlement has been agreed. Payment of the settlement must be made within 21 calendar days of the date of the agreement or idle time charges can be reinstated from the date of that agreement. Should idle time charges be re-instated, the agreed settlement figure remains payable in full.
(c) Notwithstanding the above the Hirer shall not be responsible for damage, loss or injury:
(i) prior to delivery of any Plant to the site (or, where the site is not immediately adjacent to a highway maintainable at the public expense, prior to its leaving such highway) where the Plant is in transit by transport of the Owner or as otherwise arranged by the Owner,
(ii) during the erection and / or dismantling of any Plant where such Plant requires to be completely erected / dismantled on site, provided always that such erection / dismantling is under the exclusive control of the Owner or his agent,
(iii) after the Plant has been removed from the site and is in transit on a highway maintainable at the public expense (or where the site is not immediately adjacent to a highway maintainable at the public expense after it has joined such highway) to the Owner by transport of the Owner or as otherwise arranged by the Owner,
(iv) where the Plant is travelling to or from a site on a highway maintainable at the public expense (or, where the site is not immediately adjacent to a highway maintainable at the public expense, prior to its leaving or after its joining such highway) under its own power with a driver supplied by the Owner.

14. NOTICE OF ACCIDENTS

If the Plant is involved in any accident resulting in injury to persons or damage to property, immediate notification must be given by the Hirer to the Owner by telephone and confirmed in writing to the Owner no later than 24 hours after such telephone notification. In relation to any claim in respect of which the Hirer is not bound to fully indemnify the Owner, no admission of liability, offer, promise of payment or indemnity shall be made by the Hirer without the Owner's prior written permission.

15. RE-HIRING ETC.

Neither the Plant nor any part thereof shall be re-hired, sub-let, or lent to any third party without the prior written permission of the Owner.

16. CHANGE OF SITE

The Plant shall not be moved from the site to which it was delivered or consigned without the prior written permission of the Owner.

17. RETURN OF PLANT FOR REPAIRS

If during the Hire Period the Owner decides that urgent repairs to the Plant are necessary then he may arrange for such repairs to be carried out on site or at any location of his nomination. In the event that urgent repairs to the Plant are necessary the Owner shall be obliged to replace the Plant with similar Plant if available, the Owner (but without prejudice to any of the provisions of clauses 9 and / or 13) paying all transport charges involved. In the event of the Owner being unable to replace the Plant he shall be entitled to terminate the Contract forthwith (but without prejudice to any of the provisions of clauses 9 and / or 13) by giving written notice to the Hirer. If such termination occurs:
(a) within three months from the commencement of the Hire Period, the Owner (but without prejudice to any of the provisions of clauses 9 and / or 13) shall pay all transport charges involved, or,
(b) more than three months from the commencement of the Hire Period, the Owner (but without prejudice to any of the provisions of clauses 9 and / or 13) shall be liable only for the cost of reloading and return transport.

18. BASIS OF CHARGING

(a) The Hirer shall render to the Owner for each Working Week an accurate statement of the number of hours the Plant has worked each day. When any personnel, operator or driver is supplied by the Owner, the Hirer shall sign their time record sheets. The signature of the Hirer's representative shall bind the Hirer to accept the hours shown on the time records sheets.
(b) Full allowance will be made for breakdown periods resulting from mechanical or electrical faults or absence of driver or operator supplied by the Owner except where breakdown is due to acts or omissions of third parties and / or the Hirer's misuse, misdirection or negligence, subject however to the provisions of clause 8 of these conditions.
(c) Breakdown time in respect of such periods shall be allowed for not more than the Working Day less the actual hours worked.
(d) Plant shall be hired out either:
(i) for a stated minimum number of hours per Working Day or per Working Week or,
(ii) without any qualification as to minimum hours. Odd days at the beginning and at the end of the Hire Period shall be charged pro rata.
(e) Stoppages due to changing of tyres and repairs to punctures will be chargeable as working time up to a maximum of 2 hours for any one stoppage and any excess will be charged for at the appropriate idle time rates.
(f) In the case of Plant which is required to be dismantled for the purpose of transportation, if the Owner agrees to a modification of the hire charge for the period required for assembling on site and dismantling upon completion of the Hire Period, such modification of the hire charge and the Hire Period for which it shall apply shall be stated in the Offer / Contract.

19. PLANT HIRED ON A DAILY BASIS WITHOUT QUALIFICATION AS TO HOURS

The full daily rate will be charged on a daily basis irrespective of the hours worked except in the case of breakdown for which the Owner is responsible, when the actual hours worked will be charged pro rata of the average Working Day. No hire charge shall be made for Saturday and / or Sunday unless the Plant is actually worked.

20. PLANT HIRED BY THE WEEK OR MONTH WITHOUT QUALIFICATION AS TO HOURS

The weekly or monthly rate shall be charged irrespective of the number of hours worked, except in the case of breakdown for which the Owner is responsible when an allowance pro rata of the agreed weekly rate or pro rata of the agreed monthly rate will be made for each full Working Day broken down calculated to the nearest half Working Day.

21. PLANT HIRED BY THE WEEK OR THE HOUR FOR A MINIMUM OF 39 HOURS PER WEEK

The full hire for the minimum period in the Contract will be charged and an additional pro rata charge will be made for hours worked in excess of such minimum period. Allowance will be made for breakdowns up to 8 hours except on Fridays when the allowance will be up to 7 hours providing always that where the actual hours worked are in excess of the minimum period less breakdown time, the actual hours worked shall be chargeable. Idle time for this purpose shall be treated as actual working time. The minimum Working Week of 39 hours shall be reduced by 8 hours Monday to Thursday and 7 hours Friday for each Holiday Period occurring in such Working Week, provided that the Plant is not in use during such Holiday Period.

22. "ALL-IN" RATES

Where "All-In" rates are charged by agreement the minimum period shall be as defined in the Contract and in accordance with the hire rates and terms contained therein, subject to the provisions of clause 26.

23. COMMENCEMENT AND TERMINATION OF CONTRACT (TRANSPORT OF PLANT)

(a) The Hire Period shall commence from the time when the Plant leaves the Owner's depot or place where last employed and shall continue until the Plant is received back at the Owner's named depot or other agreed location but an allowance shall be made of not more than one day's hire charge each way for travelling time. If the Plant is used on the day of travelling, full hire rates shall be paid for the period of use on that day. If more than one day is properly and unavoidably occupied in transporting the Plant, a hire charge at idle time rates shall be payable for such extra time, provided that where Plant is hired for a total period of less than one Working Week, the full hire rate shall be paid from the date of despatch to the date of return to the Owner's named depot or other agreed location.
(b) If the Plant is not made available for collection as agreed between the parties, such Plant shall be deemed with immediate effect to be placed back on hire. The Hirer shall be responsible for the safekeeping of the Plant in accordance with clause 13, and for all the reasonable costs and expenses incurred by the Owner in seeking to collect such Plant.
(c) Upon the completion of the Hire Period, the Hirer shall clean and where necessary, decontaminate the Plant. All fuel and contaminates will be removed from bunds, storage tanks and bowsers. The Hirer shall be liable for any costs, liabilities and expenses incurred by the Owner should the Hirer fail to comply with this clause.

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24. HIRER'S LIABILITY DURING THE NOTICE OF TERMINATION OF CONTRACT

a) Where the Hire Period is indeterminate or having been defined becomes indeterminate the Contract shall be terminable by seven days notice in writing given by either party to the other except in cases where the Plant has been lost or damaged. Notwithstanding that the Owner may have agreed to accept less than 7 days notice of termination, the Hirer's obligations under clause 13 shall continue until the Plant is returned to the Owner in accordance with clause 31 or until the Owner has collected the Plant within the 7 days following the acceptance of short notice. Oral notice given by the Hirer to the Owner's driver or operator shall not be deemed to constitute compliance with the provisions of this clause.

b) Without prejudice to clause 24(a), should the Hirer fail to make the Plant available for collection by the Owner before the end of the 7 day notice, the Hirer's obligations under clause 13 shall continue for a further 3 days or until such time as the Plant is made available for collection and the Owner has collected the Plant. For the avoidance of doubt, where the Hirer gives a notice pursuant to clause 24(a) but subsequently and with the consent of the Owner, withdraws such notice, the obligations of clause 13 shall continue to apply and the requirements of clause 24 will apply to any later termination of the Contract.

c) If the Hirer terminates the Contract before the Hire Period commences, then the Hirer is liable for all reasonable costs and charges incurred by the Owner or to which the Owner is committed at the time of termination.

25. IDLE TIME

When the Plant is prevented from working for a complete Working Week, the hire charges shall be two thirds of the hire rate or such other idle time rate as is agreed in writing by the Owner for the period during which the Plant is not in use. If the Plant works for any time during the Working Day then the whole of that Working Day shall be charged as working time. In any case no period less than one Working Day shall be reckoned as idle time save for as provided for in clause 18(e). Where an "All-In" rate is charged, idle time is calculated on the machine element only. Full rate will be charged for the operator.

26. WAGES AND OTHER CHARGEABLE ITEMS RELATING TO DRIVERS AND OPERATORS OF PLANT

All chargeable items shall be paid by the Hirer at the rates set out in the Contract save that any subsequent increases before and / or during the Hire Period arising from awards under any wage agreements and / or from increases in the Owner's statutory contribution shall be charged as additions at cost by the Owner and shall be admitted and paid by the Hirer.

27. TRAVELLING TIME AND FARES

Travelling time, fares and similar expenses for drivers, operators and any person supplied by the Owner, incurred at the beginning and end of the Hire Period and where appropriate return fare of the driver, operator and any person supplied by the Owner to his home will be chargeable at cost. No charge shall be made by the Owner for any such expenses incurred by other employees of the Owner for the purpose of servicing, repair or maintenance of Plant, unless necessitated by the Hirer's negligence, misdirection or misuse of the Plant.

28. FUEL, OIL AND GREASE

Fuel, oil and grease shall, when supplied by the Owner, be charged at net cost or an agreed estimate of net cost, and when supplied by the Hirer, shall be of a grade or type specified by the Owner. The Hirer shall be solely responsible for all damages, losses, costs and expenses incurred by the Owner if the Hirer uses the wrong fuel, oil or grease.

29. SHARPENING OF DRILLS/STEELS ETC.

The cost of re-sharpening or replacement of drill bits, blades and other ancillary items shall be borne by the Hirer.

30. OWNER'S NAME PLATES

The Hirer shall not remove, deface or cover up the Owner's name plate or mark on the Plant indicating that it is his property, without the prior written permission of the Owner.

31. TRANSPORT

The Hirer shall pay the cost of and if required by the Owner, arrange transport of, the Plant from the Owner's depot or other agreed location to the site and return to the Owner's named depot or other agreed location on completion of the Hire Period.

32. GOVERNMENT REGULATIONS

a) The Hirer will be responsible for compliance with relevant regulations issued by the Government or Local Authorities, including regulations under the Environmental Acts, Factories Acts, Health and Safety at Work, etc. Act and observance of the Road Traffic Acts should they apply, including the cost of road fund licences and any insurances made necessary thereby, save that if and during such time as the Plant is travelling, whether for full or part journey from Owner to site and site to Owner under its own power with a driver supplied by the Owner, the Owner and not the Hirer shall be responsible as aforesaid.

b) The Hirer shall indemnify the Owner against any charges or fines that the Owner may become liable for as a result of the operation of the Plant during the Hire Period.

33. PROTECTION OF OWNER'S RIGHTS

(a) The Hirer shall not re-hire, sell, mortgage, charge, pledge, part with possession of or otherwise deal with the Plant except as provided under clause 15 and shall protect the same against distress, execution or seizure and shall indemnify the Owner against all losses, damage, costs, charges and expenses arising as a direct result of any failure to observe and perform this condition except in the event of Government requisition.

(b) The Owner may terminate the Contract forthwith by written notice to the Hirer if one or more of the following events occur:

(i) The Hirer defaults in punctual payment of any sum due to the Owner for hire of Plant or other charges payable pursuant to these conditions;

(ii) The Hirer fails to observe and perform the terms and conditions of the Contract;

(iii) The Hirer suffers, or the Owner reasonably believes that the Hirer shall suffer, any distress or execution to be levied against him;

(iv) The Hirer makes or proposes to make any arrangement with his creditors or becomes insolvent within the meaning of Section 113 of the Housing Grants, Construction and Regeneration Act 1996 or any amendment or re-enactment thereof for the time being in force; or

(v) The Hirer does or causes to be done or permit or suffer any act or thing whereby the Owner's rights in the Plant may be prejudiced or put into jeopardy.

(c) In the event of termination under sub-paragraph (b) above:

(i) The Hirer must give the Owner or his agents, immediate unobstructed access to recover the Plant.

(ii) The Owner shall be entitled to claim the hire charges outstanding as at the date of termination of the hire under this clause and return transport charges under clause 31.

(d) The rights under sub-paragraph (b) and (c) above:

(i) May be exercised notwithstanding that the Owner may have waived some previous default or matter of the same or a like nature.

(ii) Shall not affect the Owner's right to claim damages for breach of Contract or recover any sums due under the Contract as a debt.

(e) If the Hirer does not make payment of a sum by the final date on which payment is due to be made, the Owner has the right to suspend performance of its obligations under the Contract. The right to suspend may not be exercised without first giving to the Hirer at least 7 days notice in writing of the Owner's intention to suspend performance, stating the ground or grounds on which the Owner intends to suspend performance. The right to suspend performance will cease when the Hirer makes payment in full of the amount due.

34. CHANGES IN NORMAL WORKING WEEK

The foregoing provisions have been framed upon the basis of the Hirer working a 5-day week of 39 hours; it is hereby agreed that in the event of:

(a) there being any agreed change in the normal weekly hours in the industry in which the Hirer is engaged or,

(b) the Contract being made with reference to a 5 day week of other than 39 hours.

Clauses 1(h) and (i), 18(c) and (d), 20 and (in regard to breakdown allowance and reduction for statutory holidays) 21 shall be deemed to be modified conformably and in the event of an alteration in the normal weekly working hours in the said industry the "Hire Rates and Terms" of Plant hired for a minimum weekly or daily period shall be varied pro rata.

35. DISPUTE RESOLUTION

(a) If the site is situated within the United Kingdom, then the court whose jurisdiction covers the site will have exclusive jurisdiction and interpretation of the law for this Contract. If the original site is not situated within the United Kingdom, then the relevant jurisdiction and interpretation of the law of the Contract will be governed by the country where the Owner's head office is located.

(b) Both parties to the Contract have a right to refer any difference or dispute arising under or in connection with the Contract to adjudication and the procedure set out in Part 1 of the Scheme for Construction Contracts (England and Wales) Regulations 1998 (or any amendment or re-enactment thereof for the time being in force) will apply. The person (if any) specified in the Contract to act as adjudicator may be named in the Offer. The specified nominating body to select adjudicators shall be the Construction Plant-hire Association acting by its President or Chief Executive for the time being. .

(c) The Owner and the Hirer shall comply forthwith with any decision of the adjudicator, and shall submit to summary judgment and enforcement (and / or, under Scots law, shall consent to a motion for summary decree and submit to enforcement) in respect of all such decisions; in each case, without any defence, set-off, counterclaim, abatement or deduction. Where, under Scots law, the Owner, the Hirer, or the adjudicator, wishes to register a decision of the adjudicator for execution in the Books of Council and Session, any other party shall, on being requested to do so, forthwith consent to such registration by subscribing the decision before a witness.

36. LATE PAYMENTS

The Owner reserves the right to charge the Hirer for the late payment of any outstanding invoices under the Late Payment of Commercial Debts (Interest) Act 1998, or any subsequent legislation.

37. SEVERABILITY

If any of these clauses are held to be unlawful, void or unenforceable, then that clause will be deemed severable and will not affect the validity and enforceability of the remaining clauses, to the extent permitted by law.

Copies of these Model Conditions are available (on bulk order from CPA) only to Subscribing members of The Construction Plant-hire Association.
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SUPPLEMENTARY CONDITIONS APPLICABLE TO TOWER CRANES 2012

TO BE READ IN CONJUNCTION WITH THE CPA MODEL CONDITIONS FOR THE HIRING OF PLANT (2011)

EXPLANATORY NOTE: The purpose of these Supplementary Conditions is, partly, to raise awareness of the Hirer's responsibilities under the British Standard Code of Practice 7121 for the Safe Use of Tower Cranes ("BS 7121") and partly to define contractually the extent of the Owner's and Hirer's responsibilities as between themselves. BS 7121 makes it clear that the Hirer is in overall control of the lifting operation, and is responsible for providing a suitably trained and experienced "appointed person" to ensure the adequate planning and supervision of the operation. When provided, the Owner's responsibility is limited to providing competent personnel, and a crane that is properly maintained, inspected, thoroughly examined, tested where necessary, and certificated.

For the avoidance of doubt, when the hire is subject to the CPA's Model Conditions for the Hiring of Plant 2011 ("CPA Model Conditions"), the Owner is not a specialist sub-contractor and/or sub-contractor of the Hirer. The Owner will supply Plant pursuant to the CPA Model Conditions together with these Supplementary Conditions to form the Contract between the Owner and the Hirer.

1. DEFINITIONS AND INTERPRETATION

1.1 These Supplementary Conditions are applicable to Tower Cranes only and shall be referred to as the "Supplementary Conditions".

1.2 Unless the context suggests otherwise words and terms in these Supplementary Conditions shall have the same meaning as in the CPA Model Conditions.

1.3 If any conflict shall appear between any provisions of the Supplementary Conditions and the provisions of the CPA Model Conditions then the former shall prevail.

RESPONSIBILITIES OF THE HIRER

2. PLANNING, SUPERVISING, CO-ORDINATING, SLINGING AND HANDLING

2.1 In order to comply with the requirements of the Lifting Operations and Lifting Equipment Regulations 1998 (SI 1998 No. 2307) and BS 7121, the Hirer is responsible for planning, supervising, co-ordinating and controlling the lifting operations, including the preparation and distribution of risk assessments, method statements and for the safe slinging of the goods to be lifted or handled.

2.2 If advice or information is sought from and given by any person supplied by the Owner, the Hirer understands and accepts that such advice or information is given without responsibility and does not relieve or reduce the Hirer's requirement to make his own independent assessment as outlined in clause 2.1 above.

2.3 When we provide any personnel including a, crane co-ordinator, slinger, signaller or crane operator (as defined in BS 7121-5), all such personnel will work under the direction and control of the Hirer's Appointed Person, in accordance with Clause 8 of the CPA Model Conditions for the Hiring of Plant (2011).

2.4 The Hirer is responsible for ensuring, that the tower crane operative carries out the daily / weekly checks to the tower crane and to notify any defects to the Owner and

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take appropriate action on his findings. The Hirer is also responsible for the completion and retention of records and compliance with all Health and Safety legislation and regulations at all times. The cost of carrying out the daily / weekly checks will remain the responsibility of the Hirer.

2.5 The Hirer is required to ensure that the Tower Crane's Thorough Examination Certificate is registered on the Health and Safety Executive's Register. The Owner may assist in registering the Certificate on behalf of the Hirer for a small fee.

2.6 The Hirer must ensure that the tower crane operative is supervised whilst ascending and descending the tower crane to ensure that the operative ascends and/or descends the tower crane safely and without harm. The Hirer must also ensure that the tower crane operative leaves the site safely at the end of each Working Day.

2.7 During times of darkness or limited daylight, the Hirer must ensure that the tower crane operative has adequate lighting to safely ascend and/or descend the tower crane.

3. INSURANCE

The Hirer shall take out and maintain insurance against any and all liabilities the Hirer may incur under the Contract. The Owner reserves the right at any reasonable time to require confirmation that the Hirer is complying with its insurance obligations.

4. SUPPLY OF ALTERNATIVE CRANE

In the event that the Contract specifies a particular type of crane, the Owner reserves the right to supply a suitable alternative crane to that specified subject to prior acceptance by the Hirer. Acceptance of the crane on site shall be deemed to be acceptance of the variation of the Contract by the Hirer in respect of the crane supplied and the Owner shall have no liability to the Hirer in respect of that variation.

5. PROVISION OF LIFTING ACCESSORIES

If requested and specified by the Hirer in advance, the crane will be provided with specific certified lifting accessories, subject to availability and at additional cost. The Owner accepts no responsibility for any costs, losses or expenses incurred or delay caused should the lifting accessories prove unsuitable.

6. GROUND AND SITE CONDITIONS

Without prejudice to clause 7 of the CPA Model Conditions:

6.1 The Hirer shall be fully liable to the Owner for any damage to the tower crane or any Plant required for the erection, servicing, adjusting, modifying and dismantling of the tower crane or any associated equipment for the tower crane caused by ground and site conditions and shall indemnify the Owner and hold the Owner harmless against any liability, expense, loss or damage caused by ground and site conditions.

6.2 The Hirer will ensure that a suitable base is prepared prior to the delivery of the tower crane, subject to site discussion between the Owner and the Hirer. Otherwise, the Hirer shall ensure and confirm that the foundation on which the tower crane is situated is level, and able to withstand the forces that the tower crane exerts and is in keeping with all current Health and Safety legislation and regulations, and within the manufacturer's recommendations / drawings for the type of tower crane being hired. The design of any base or foundation will be checked in accordance with Category 2 of

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Table 1 of BS 5975 - Code of practice for temporary works procedures and permissible stress design of falsework.

7. TRAVELLING, ERECTION AND DISMANTLING

7.1 The hire charge will begin once the crane has been erected, tested and commissioned, provided that the appropriate entries have been completed and signed in the site's statutory register. Hire charges will continue until the crane is off-hired by agreement with the Owner provided always sufficient written notice has been received from the Hirer to the Owner.

7.2 Insofar as the Hirer's use of the tower crane will require any licence, permission or authorisation from any private or public body or government or Local Authority or the giving of notice for any such licence, permission or authorisation, the giving of any such notice shall be the entire responsibility of the Hirer, who must ensure that sufficient notice is given to the Owner to guarantee compliance with the relevant regulations. This responsibility extends to ensure that the site is kept clear of all obstructions and that if required, traffic management arrangements are set up and operated correctly. Where the Owner is required to obtain a licence, permission or authorisation to supply traffic management on the Hirer's behalf the Hirer shall indemnify the Owner against any costs and/or expenses incurred by the Owner in doing so.

7.3 The Owner will charge the Hirer for any time incurred whilst erecting, dismantling, modifying, adjusting or moving the tower crane, including re-testing, and service inspections, for the duration of the Contract. The Hirer shall ensure that the Crane Operator fully assists the Owner or the Owner's representative(s) during the service inspection(s). The Hirer shall also allow the Owner, or any representative(s) of the Owner and their vehicle(s), free and unrestricted access to the tower crane and any associated equipment and to all areas of their operation.

7.4 The Hirer will not attempt to adjust or modify the tower crane or the attachments thereto without prior express written permission of the Owner. If there is a need for the Owner's representative to ensure safe adjustment, modification or movement of the tower crane, any reasonable costs incurred by the Owner in so doing will be charged to the Hirer.

7.5 The Hirer will clear all debris and site rubbish surrounding the tower crane and associated equipment prior to dismantling of the tower crane. Any reasonable costs incurred by the Owner due to the default of the Hirer in failing to clear all debris and site rubbish will be chargeable to the Hirer.

7.6 Any costs incurred by the Owner as a result of delays or cancellation by any cause beyond the Owner's reasonable control including but not limited to inclement weather, aborted road closures, ground conditions, access / egress in the planned area of operations, or industrial action on site during the erection, alteration or dismantling of the tower crane and associated equipment will be charged in full to the Hirer.

7.7 Subject to Clause 25 of the CPA Model Conditions, the Hirer shall be liable to the Owner for the agreed fees and charges regardless of any change in the Hirer's circumstances or the circumstances affecting the use to which the Hirer intends or intended to put the tower crane to, and any decision to accept a cancellation or variation of the Contract in any respect shall be at the Owner's full and entire discretion.

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7.8 The Owner shall be given the necessary notice from the Hirer prior to erecting or dismantling the tower crane and associated equipment or any alterations thereto.

8. EXCLUSION ZONES

8.1 The Hirer will create and maintain an exclusion zone at no cost to the Owner, whilst the tower crane is either being erected, serviced, adjusted, modified or dismantled. During this time, the Hirer will be solely responsible for preventing any unauthorised personnel from entering the exclusion zone. Should the Hirer fail to comply with this requirement, the Hirer will be solely liable for any loss or damage or injury to persons or property and to costs sustained by the Owner as a result of suspension of works arising from the failure to maintain the area.

8.2 The Hirer will receive written confirmation of the agreed area of the exclusion zone from the Owner, a reasonable period prior to the tower crane being erected, serviced, adjusted, modified or dismantled.

9. POWER SUPPLY

9.1 If an electric power supply is required, the Hirer will be responsible for the cost of providing the correct power supply for the type of tower crane being hired to the base of the tower crane or close by, prior to the arrival of the tower crane. The power supply will terminate in a suitably sized Switch Fused Isolator (SFI), at the Hirer's cost, and will remain available until the tower crane has been completely dismantled.

9.2 The Owner will be responsible for connecting the power supply to the tower crane from the Hirer's SFI, ensuring it is of the required size for the crane's requirements. Unless otherwise agreed, when the tower crane is not in use, the Hirer will ensure that the power supply is properly isolated.

10. HOLIDAY PERIODS

It is the responsibility of the Hirer to ensure the safekeeping of all Plant hired which is not returned to the Owner before the start of any Holiday Period. The Hirer will be charged for the crane during the Holiday Periods in accordance with the terms of the Contract. If an operator works during this period, then the Hirer will be charged for the operator too.

11. MINIMUM HIRE PERIOD

The Hirer will hire the tower crane for a minimum period as stated on the Contract. The Owner reserves the right to charge the Hirer the balance of the Contract, should the hire be terminated earlier than contractually agreed.

RESPONSIBILITIES OF THE OWNER

12. LIMITATIONS OF LIABILITY

Without prejudice to the terms of Clause 12 of the CPA Model Conditions, the Owner shall have no liability to the Hirer in respect of any damage, including but not limited, to:

12.1 any goods or other things being moved by the tower crane;

12.2 any surface or subsurface features such as underground services;

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12.3 any above ground structures, including any overhead cables, overhanging or protruding things which might result from the travelling, positioning or working of the tower crane or any associated equipment.

13. COMPETENCE

If the Owner provides an operator with the tower crane, Clause 8 of the CPA Model Conditions will apply and the operator will be deemed to have the appropriate qualifications, training and experience to operate the Plant.

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