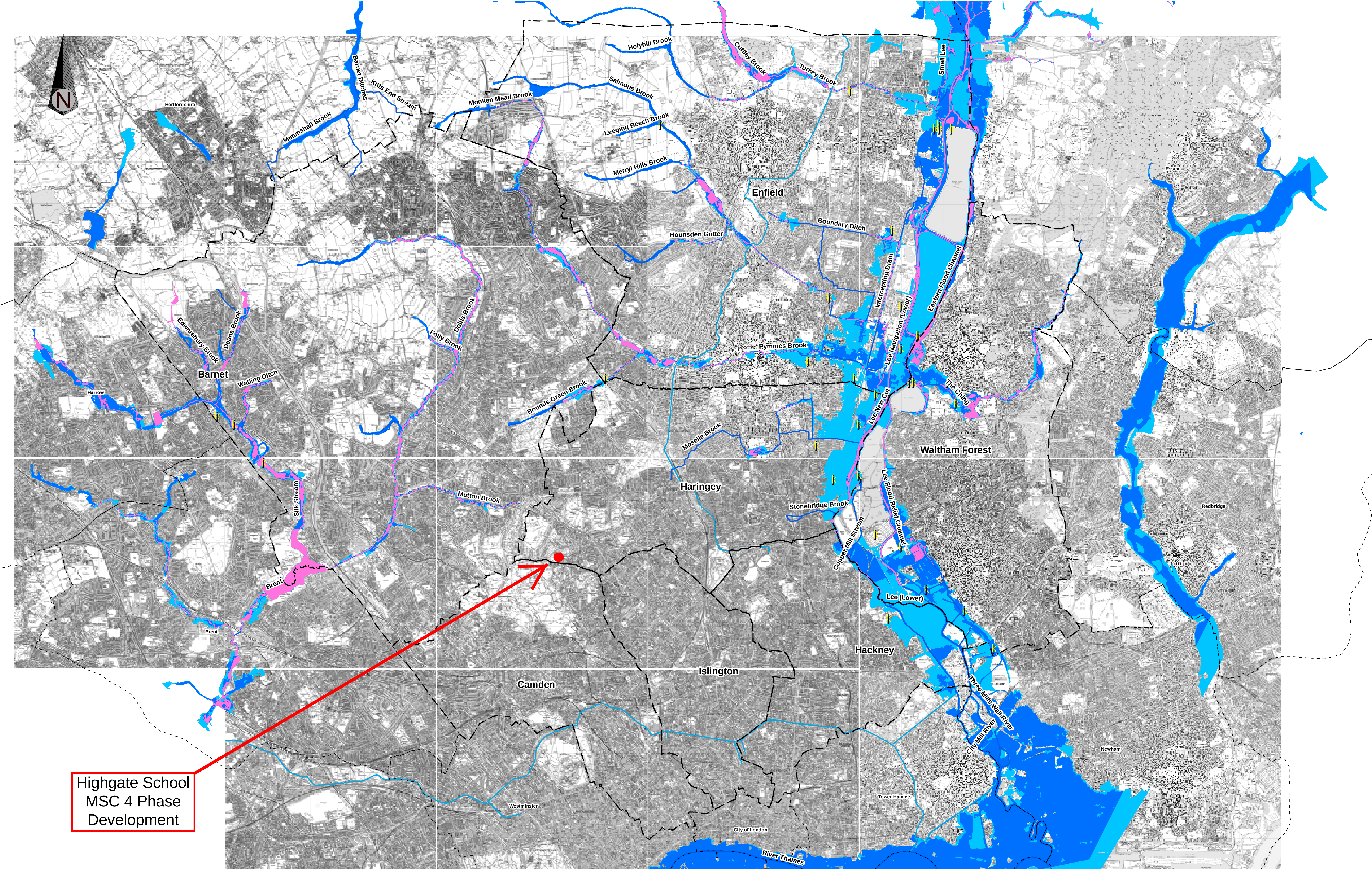




Legend

- Infrastructure in Flood Plain
- Canals
- Watercourses
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b
- Borough Boundaries

Flood Zone 1 = Non-coloured areas

All design, comments and recommendations are done so on behalf of Mouchel Parkman and no individual responsibility is taken or implied in anyway, by relieving and acting on this information you, the client or any third party, are accepting that no individual is personally liable in contract, tort or breach of statutory duty (including negligence).

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Data Origin
Infrastructure data collated and plotted by Mouchel. All data excluding the borough boundaries were provided by the EA.

		Client North London Waste Plan	
		Project North London Strategic Flood Risk Assessment	
Purpose Information		Drawing Title Map 24: Infrastructure at Risk of Flooding	
Drawn Date	SL 07/09/08	Checked Date	KR 07/09/08
Approved Date	FP 07/09/08		
Draft	Scale (at A1 size) 1:40,000		Issuing Office Sutton Coldfield
Issue			Telephone 0121 355 8949
		Drawing Number 722586/008	Rev C

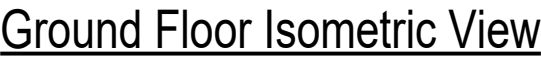
Appendix B

**Pringuer-James Consulting Engineers
Basement Impact Assessment**

Preliminary Drawings



	Denotes boundary line
	10mm thk movement joint
	350mm thk RC raft slab on 50mm thk blinding
W1	200mm thk RC lining wall
W2	Denotes 350mm thk RC retaining wall
W3	430mm thk brickwork wall
MP	Masonry Piers, possibly reinforced
	Assumed Ø450mm CFA contiguous piles @ 600mm c/c by piling specialist



For General Notes refer to PJCE drawing L11234-22-215

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres.

Any discrepancies noted on site are to be reported to the engineer immediately.

-	15.03.19	KK	TF	Issued for Information
Rev	Date	Drawn	Chk	Amendment

PRINGUER- JAMES
CONSULTING ENGINEERS

Overseas House, Elm Grove, London, SW19 4HE

Phone/Fax : 020 8940 4159

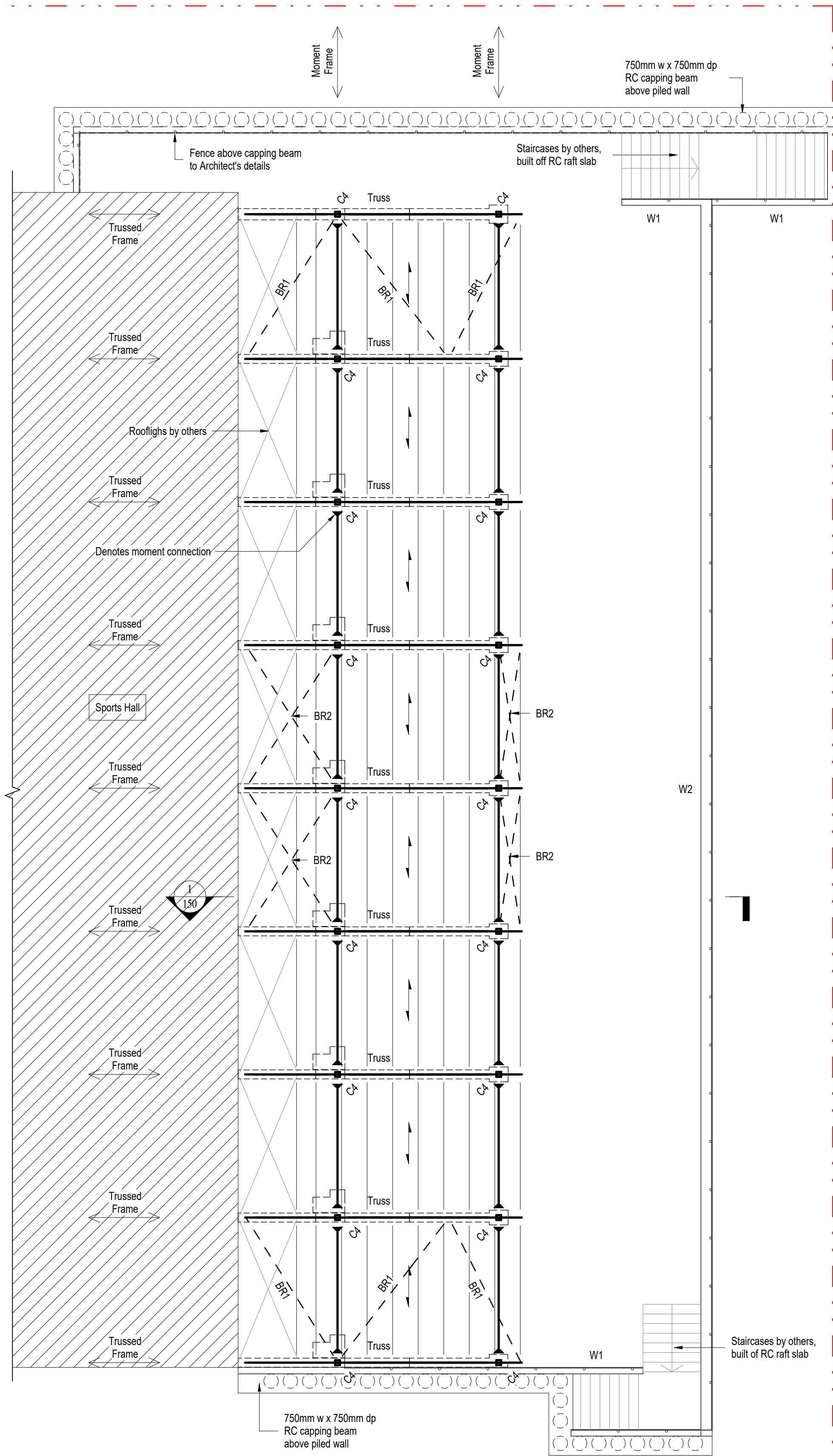
Email : mail@pjce.com Website : www.pjce.com

HIGHGATE SCHOOL

FIVES COURT PHASE 2A

GENERAL ARRANGEMENT OF GROUND FLOOR

INFORMATION		
Date:	As indicated@ A1	Date: 15.03.19
Drawn: KK	Engineer: TF	Checked: SPJ
Drawing No:		Revision:
L2384-PJC-P2A-00-DR-S-110 -		

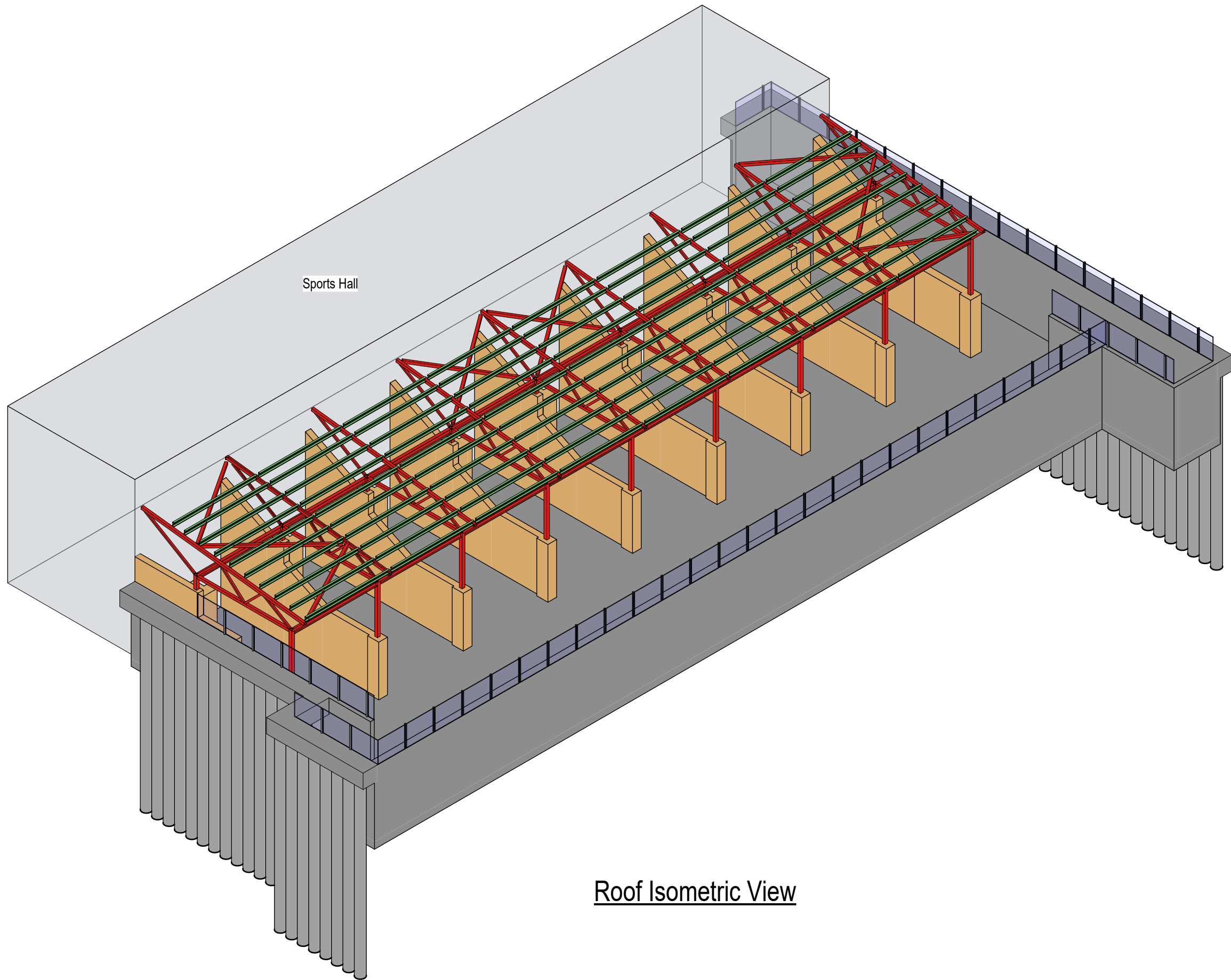


Roof
(Scale 1:100)

Legend:

- Denotes boundary line
- Denotes steel beams. Size TBC
- W1 200mm thk RC lining wall
- W2 Denotes 350mm thk RC retaining wall
- ↔ Metal purlins & crinkly tin decking to support green roof
- BR1 Denotes horizontal roof bracing @ top chord level
- BR2 Longitudinal vertical bracing (Angled from top to bottom chord)
- Assumed Ø450mm CFA contiguous piles @ 600mm c/c by piling specialist

Fives Court Steel Column Schedule					
Column Ref.	Type	Grade	Axial (kN)	Moment (kN-m)	Comments
C4	SHS150x150x10	S355			



Roof Isometric View

For General Notes refer to PJCE drawing L11234-22-215

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres.

Any discrepancies noted on site are to be reported to the engineer immediately.

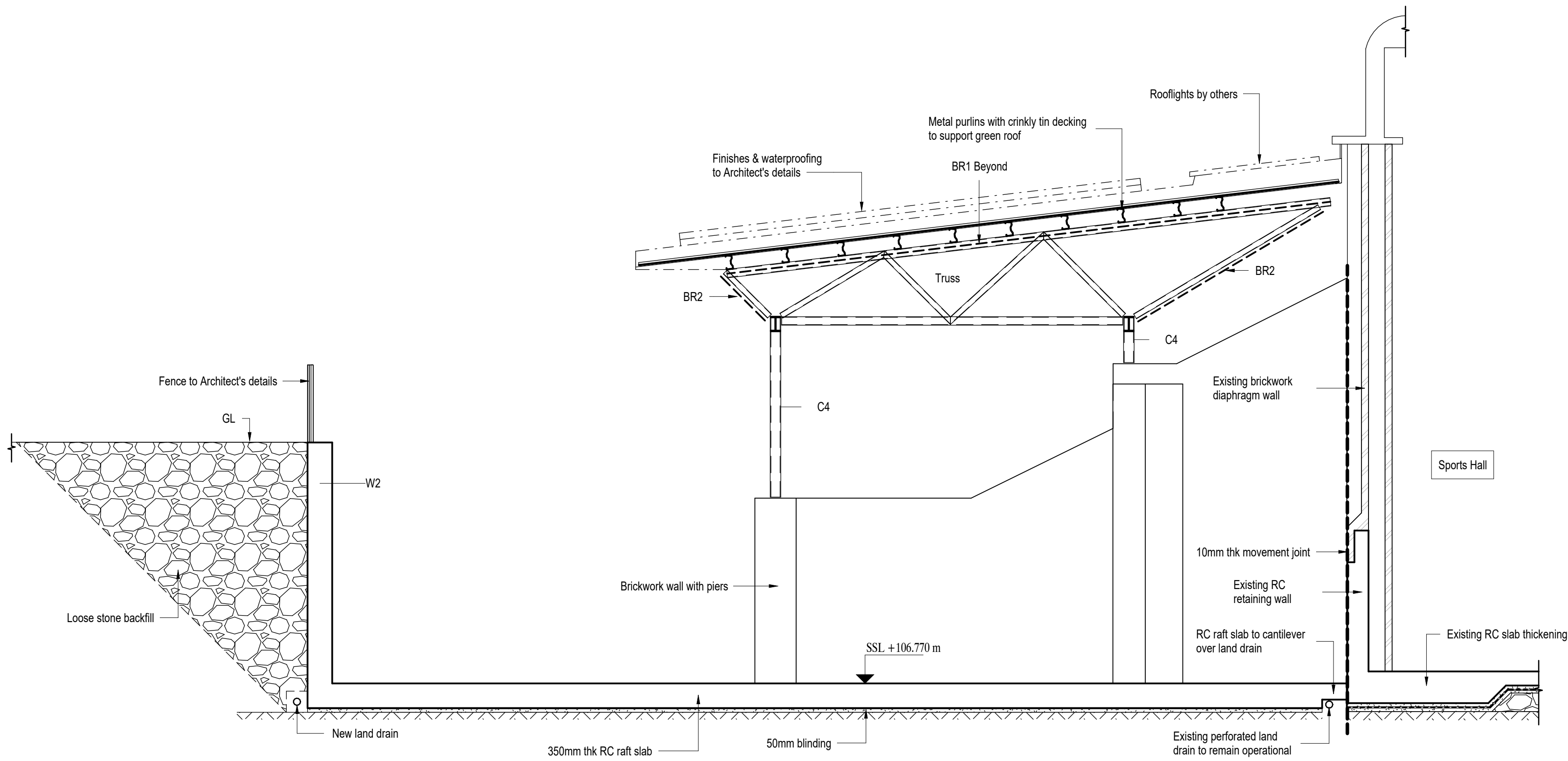
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Rev	Date	Drawn	Chk	Amendment
PRINGUER- JAMES CONSULTING ENGINEERS				
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Phone/Fax : 020 8940 4159				
Email : mail@pjce.com Website : www.pjce.com				

HIGHGATE SCHOOL

FIVES COURT PHASE 2A

GENERAL ARRANGEMENT OF ROOF

status:				INFORMATION	
scale:		As indicated@ A1		Date: 15.03.19	
Drawn: KK		Engineer: TF		Checked: SPJ	
Drawing No:				Revision:	
L2384-PJC-P2A-01-DR-S-111 -					



Section 1-1
(Scale 1 : 50)

For General Notes refer to PJCE drawing L11234-22-215

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Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres.

Any discrepancies noted on site are to be reported to the engineer immediately.

-	15.03.19	KK	TF	Issued for Information
Rev	Date	Drawn	Chk	Amendment

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Overseas House, Elm Grove, London, SW19 4HE

Phone/Fax : 020 8940 4159

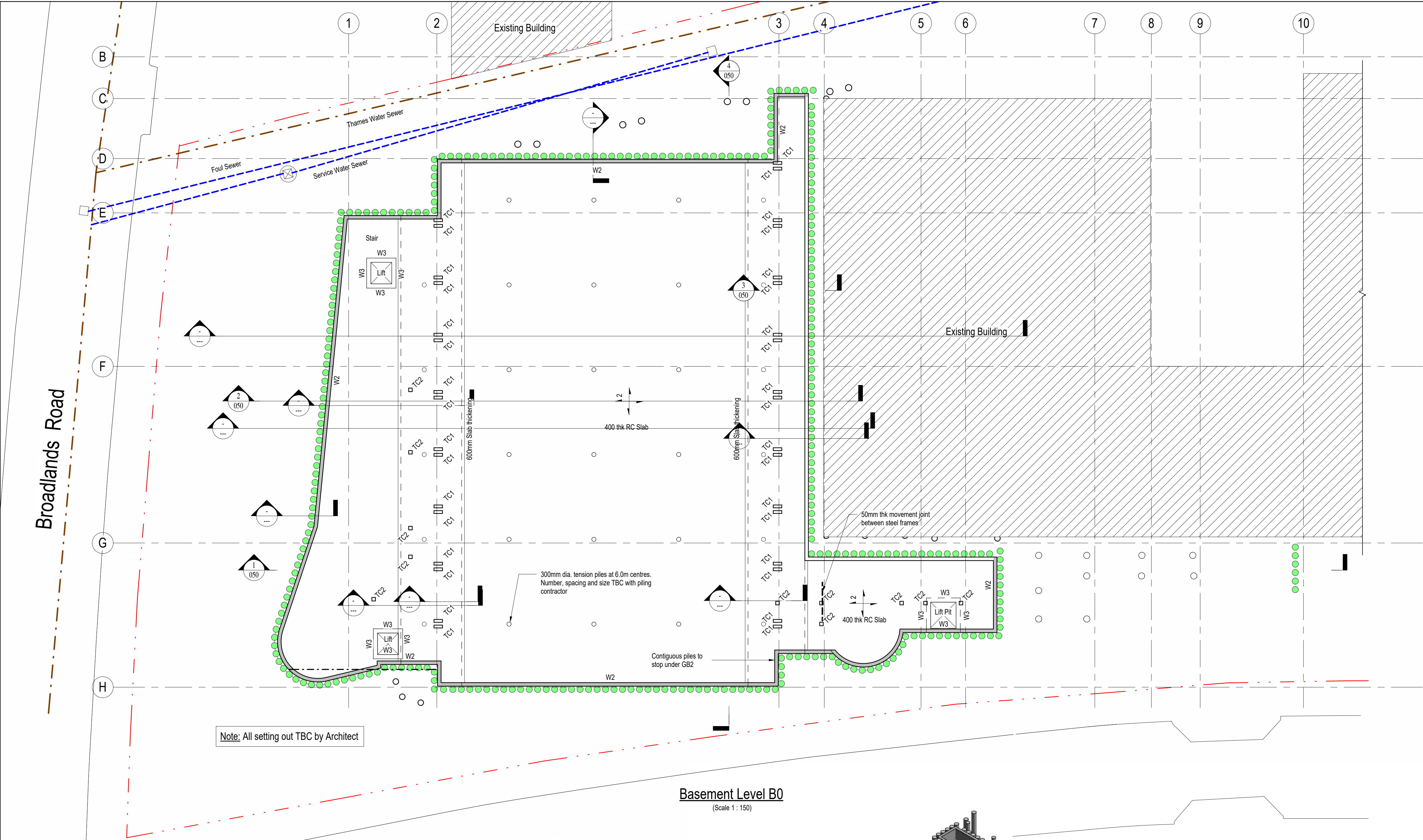
Email : mail@pjce.com Website : www.pjce.com

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FIVES COURT PHASE 2A

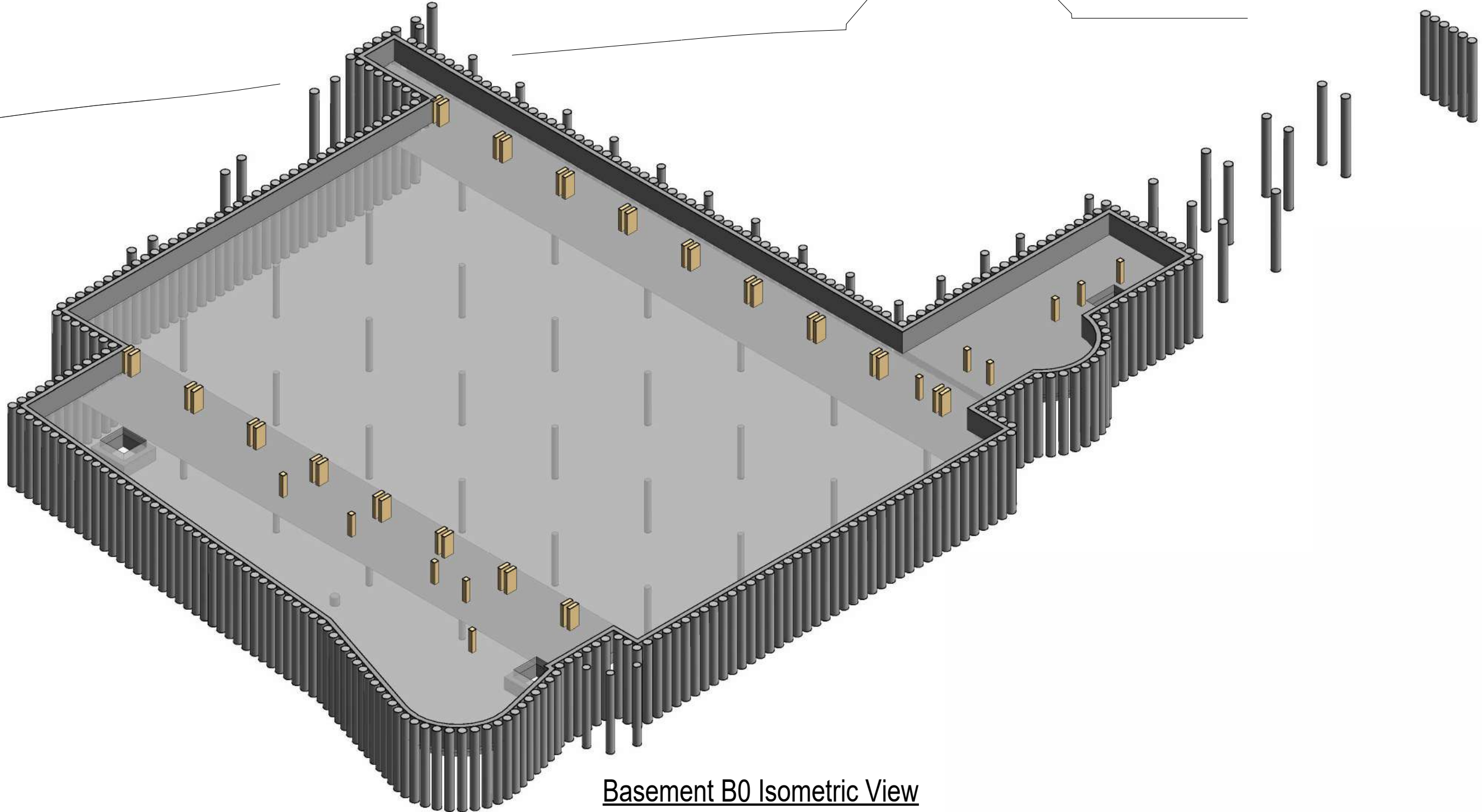
DETAIL SECTIONS SHEET 2

Status: INFORMATION			
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Drawn: KK	Engineer: TF	Checked: SPJ	
Drawing No: L2384-PJC-P2A-XX-DR-S-150 -			Revision:



- Legend:**
- Denotes boundary line
 - 100x100x10 continuous RSA for support of edge anchored into lining wall with Hilti M16 HIT-V rods (8.8) @ 400mm c/c using HY-200 resin
 - Denotes steel beams. Size TBC
 - movement joint
 - BR Diagonal steel bracing
 - 300mm thk RC ground bearing slab on 50mm thk blinding
 - CLT1 160mm Deep CLT flooring
 - W1 200mm thk RC lining wall
 - W2 250mm thk RC lining wall
 - W3 300mm thk RC wall
 - Assumed Ø450mm CFA contiguous piles @ 600mm c/c by piling specialist

TC Timber Column Schedule		
Column Ref.	Type	Grade
TC1	200 x 600	Wood - Glulam GL28c
TC2	250 x 250	Wood - Glulam GL28c



Basement B0 Isometric View

For General Notes refer to PJCE drawing L11234-22-215

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

Do not scale from any Structural Engineers drawing. All dimensions are in millimetres and levels in metres.

Any discrepancies noted on site are to be reported to the engineer immediately.

Work In Progress

Issue Date / Time : 17/06/2022 14:56:59

This is not a formal drawing issue and as such may contain un-coordinated or incomplete information. Full drawing issue to follow

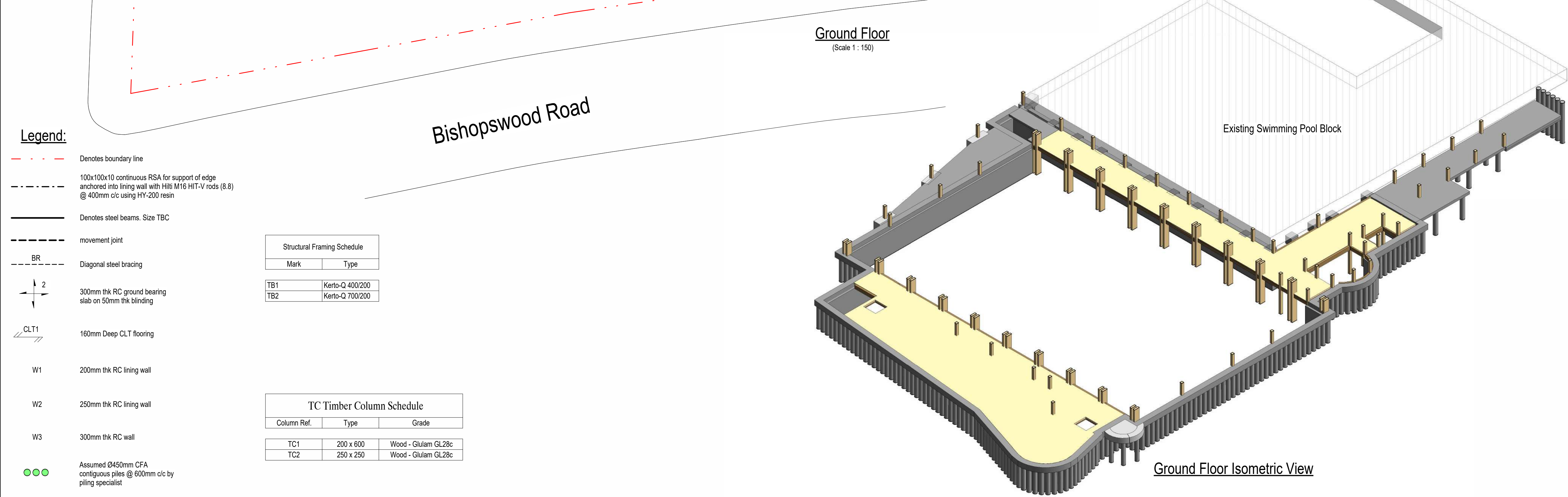
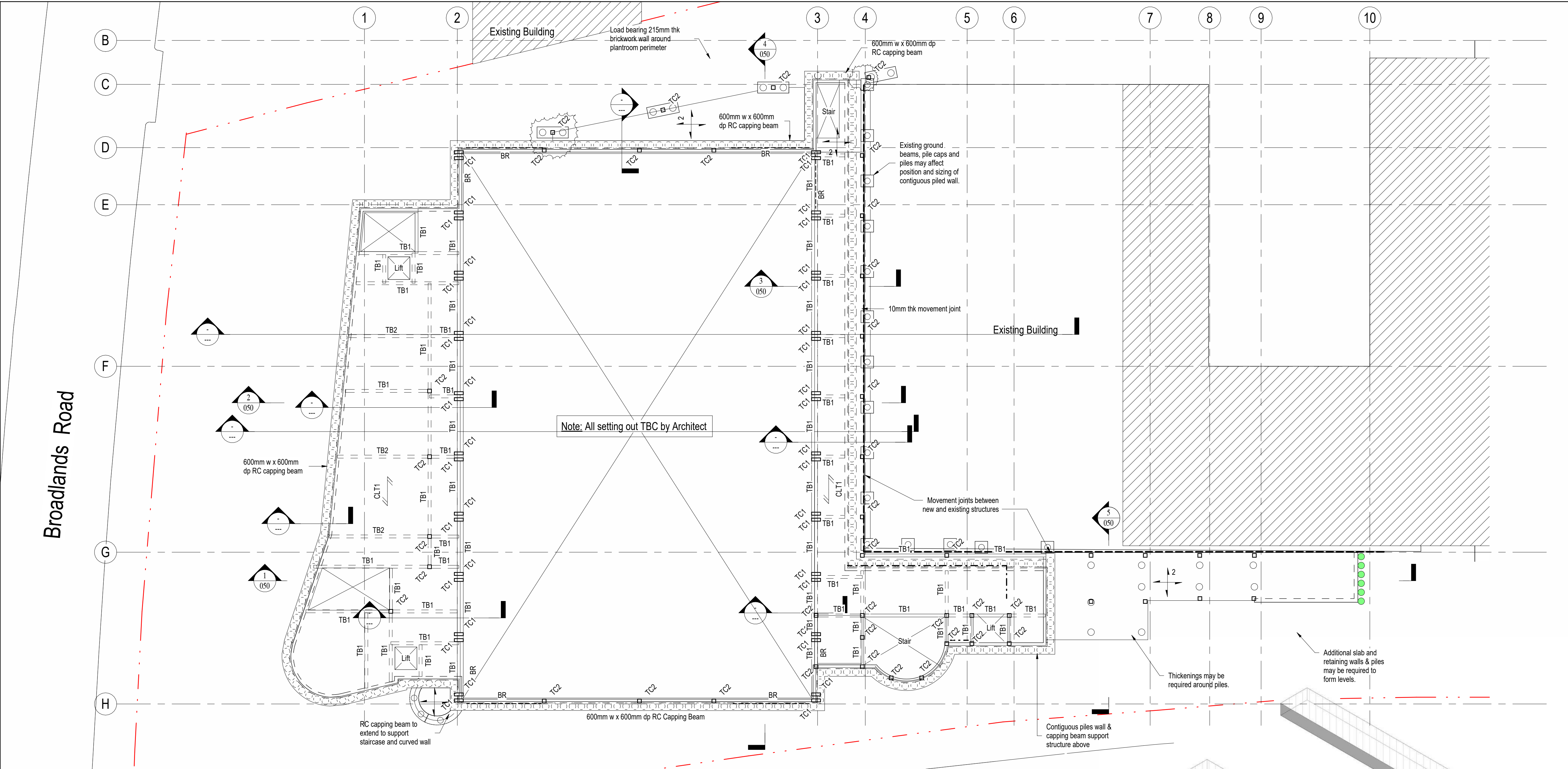
01	??.06.22	AGM	GB	Issued for Information
-	15.03.19	KK	TF	Issued for Information
Rev	Date	Drawn	Chk	Amendment
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Overseas House, Elm Grove, London, SW19 4HE				
Phone/Fax : 020 8940 4159				
Email : mail@pjce.com Website : www.pjce.com				

HIGHGATE SCHOOL

SPORTS HALL PHASE 2B

GENERAL ARRANGEMENT OF BASEMENT B0

Status: INFORMATION			
Scale:	1 : 150@ A1	Date:	15.03.19
Drawn:	KK	Engineer:	TF
Drawing No:	L2384-PJC-P2B-B0-DR-S-00901		
Revision:			



- Legend:**
- Denotes boundary line
 - 100x100x10 continuous RSA for support of edge anchored into lining wall with Hilti M16 HIT-V rods (8.8) @ 400mm c/c using HY-200 resin
 - Denotes steel beams. Size TBC
 - movement joint
 - BR Diagonal steel bracing
 - CLT1 160mm Deep CLT flooring
 - W1 200mm thk RC lining wall
 - W2 250mm thk RC lining wall
 - W3 300mm thk RC wall
 - Assumed Ø450mm CFA contiguous piles @ 600mm c/c by piling specialist

Structural Framing Schedule		
Mark	Type	
TB1	Kerto-Q 400/200	
TB2	Kerto-Q 700/200	

TC Timber Column Schedule		
Column Ref.	Type	Grade
TC1	200 x 600	Wood - Glulam GL28c
TC2	250 x 250	Wood - Glulam GL28c

For General Notes refer to PJCE drawing L11234-22-215

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

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Work In Progress

Issue Date / Time : 17/06/2022 14:57:04

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01	??.06.22	AGM	GB	Issued for Information
-	15.03.19	KK	TF	Issued for Information
Rev	Date	Drawn	Chk	Amendment

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Overseas House, Elm Grove, London, SW19 4HE

Phone/Fax : 020 8940 4159

Email : mail@pjce.com Website : www.pjce.com

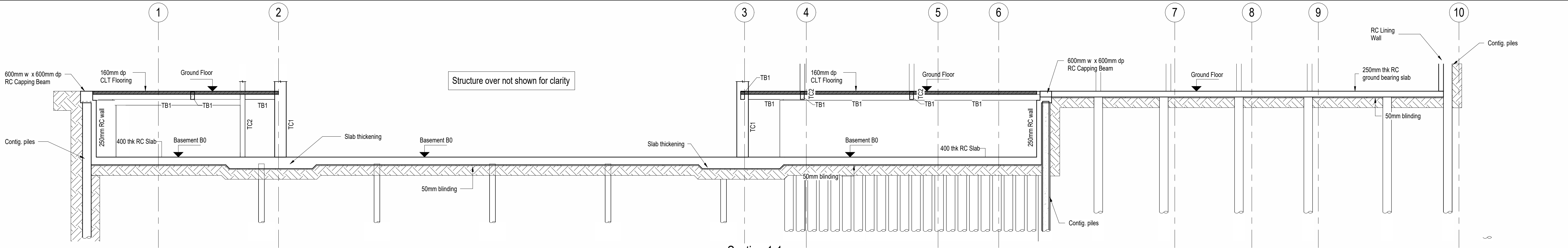
HIGHGATE SCHOOL

SPORTS HALL PHASE 2B

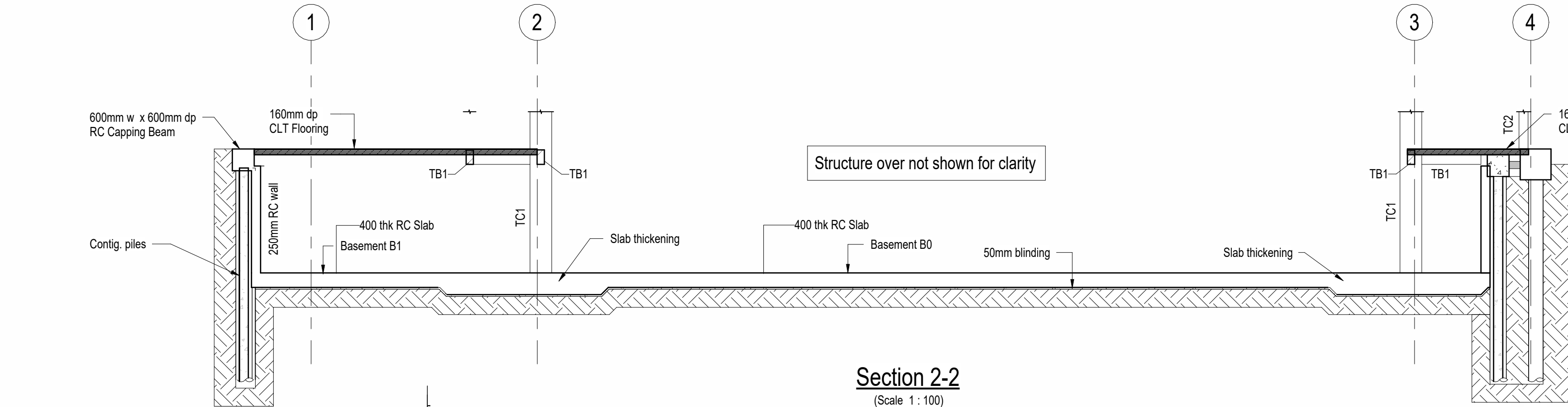
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Status: **INFORMATION**

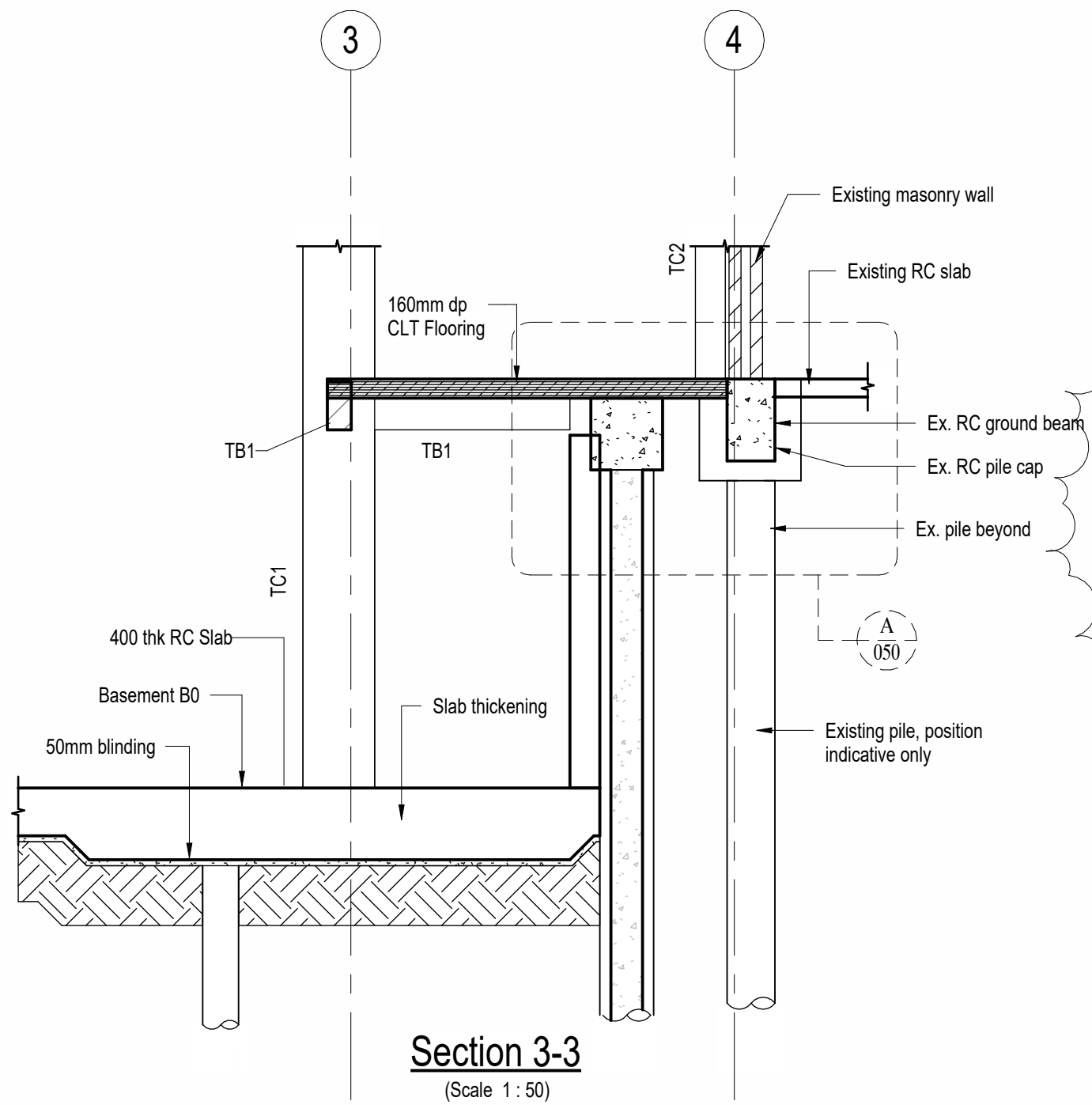
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Drawn: KK	Engineer: TF
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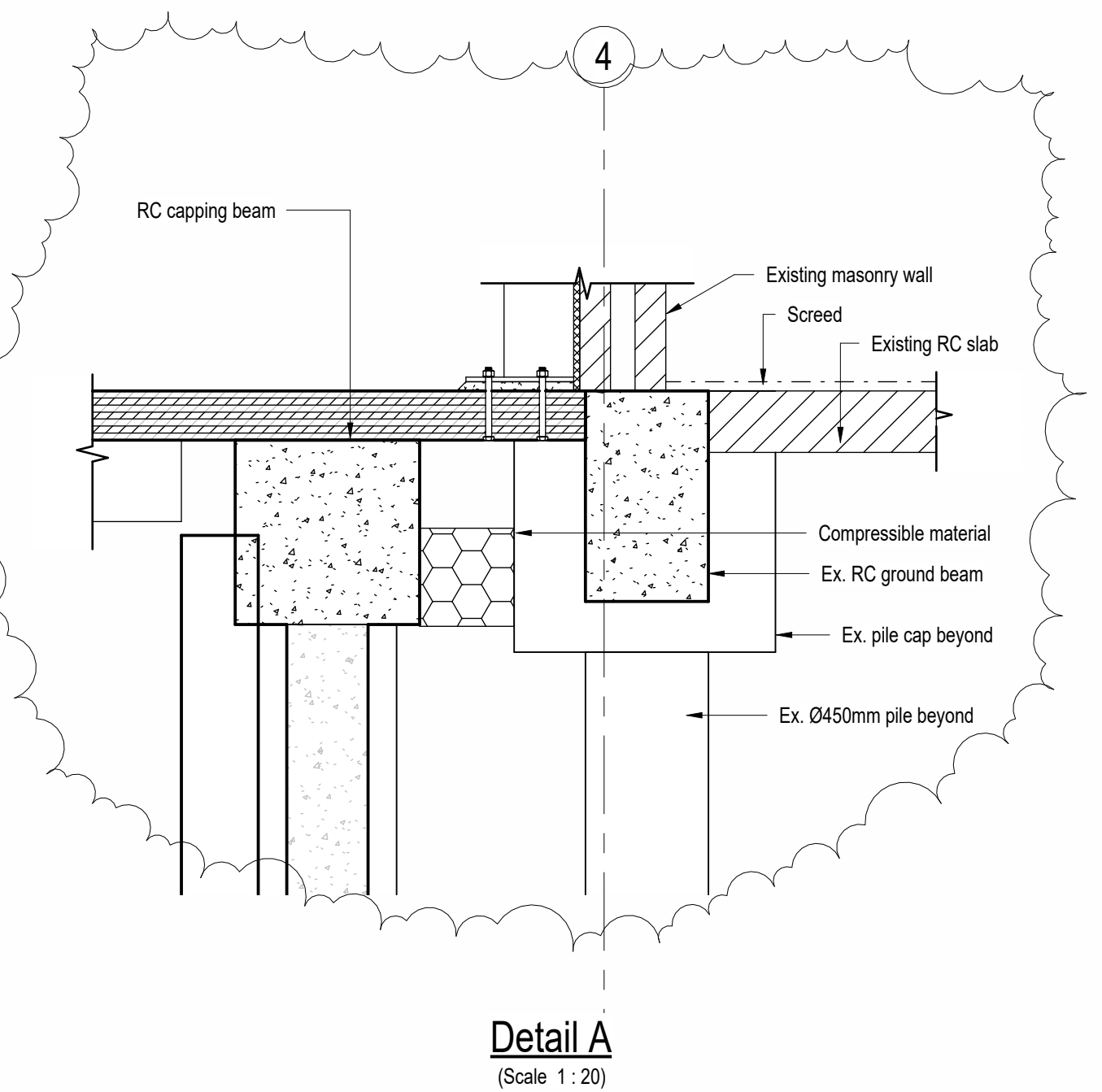
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(Scale 1 : 100)



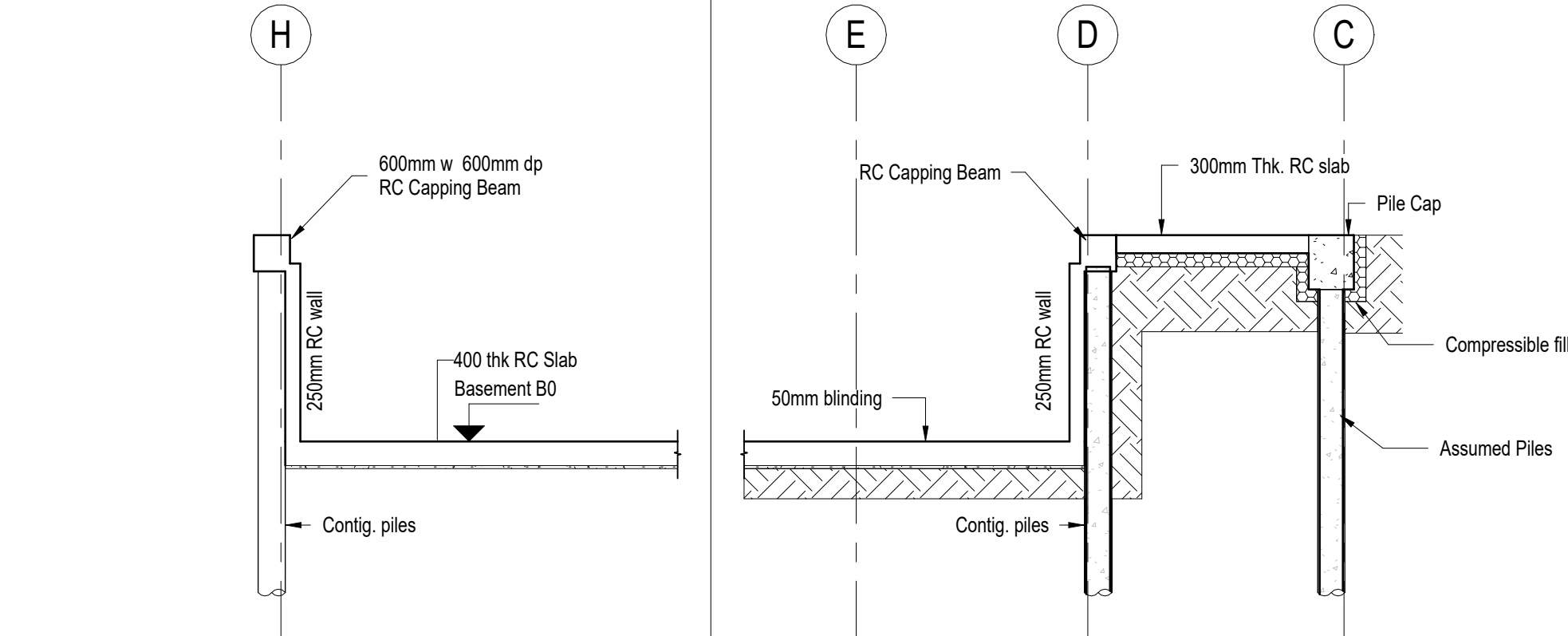
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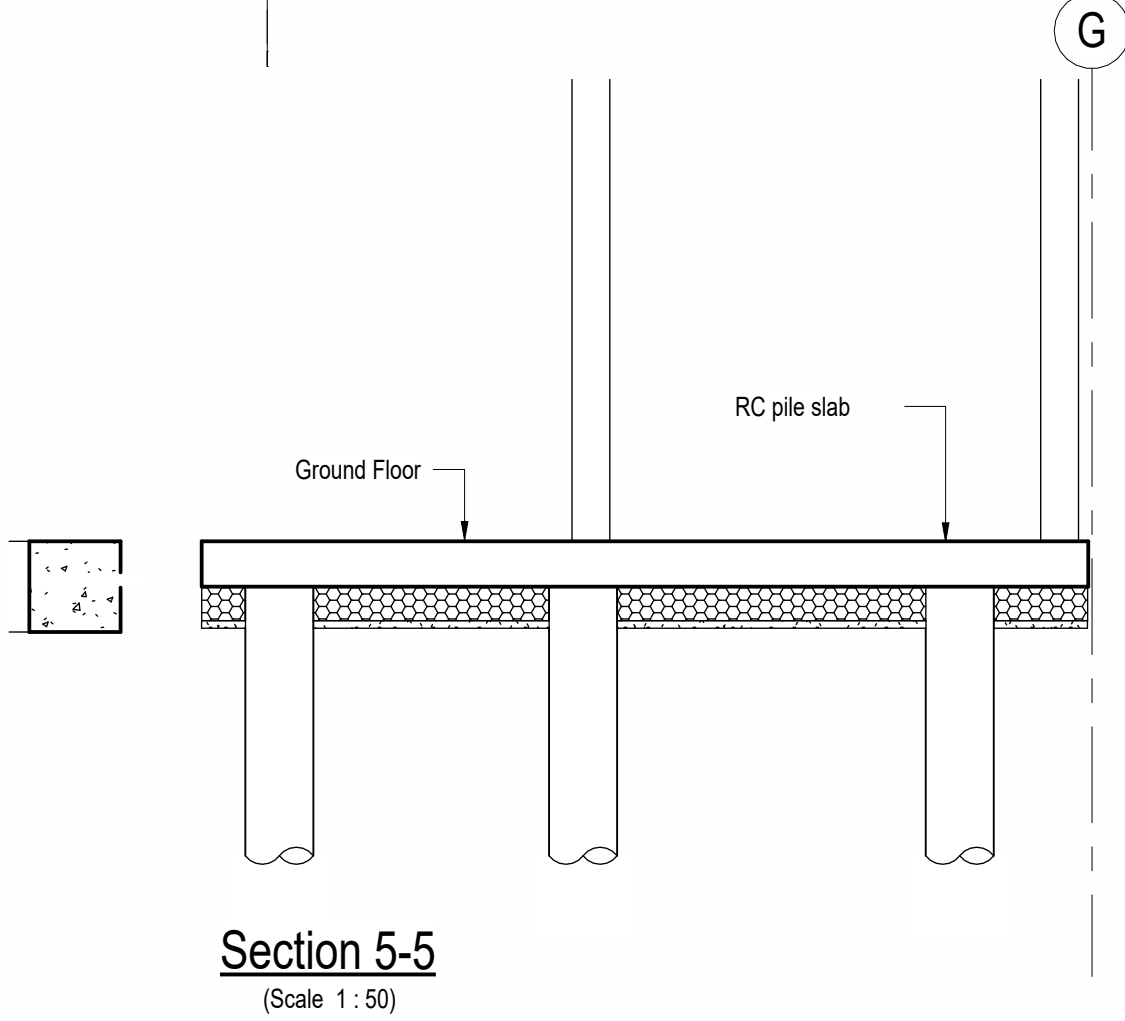
Section 3-3
(Scale 1 : 50)



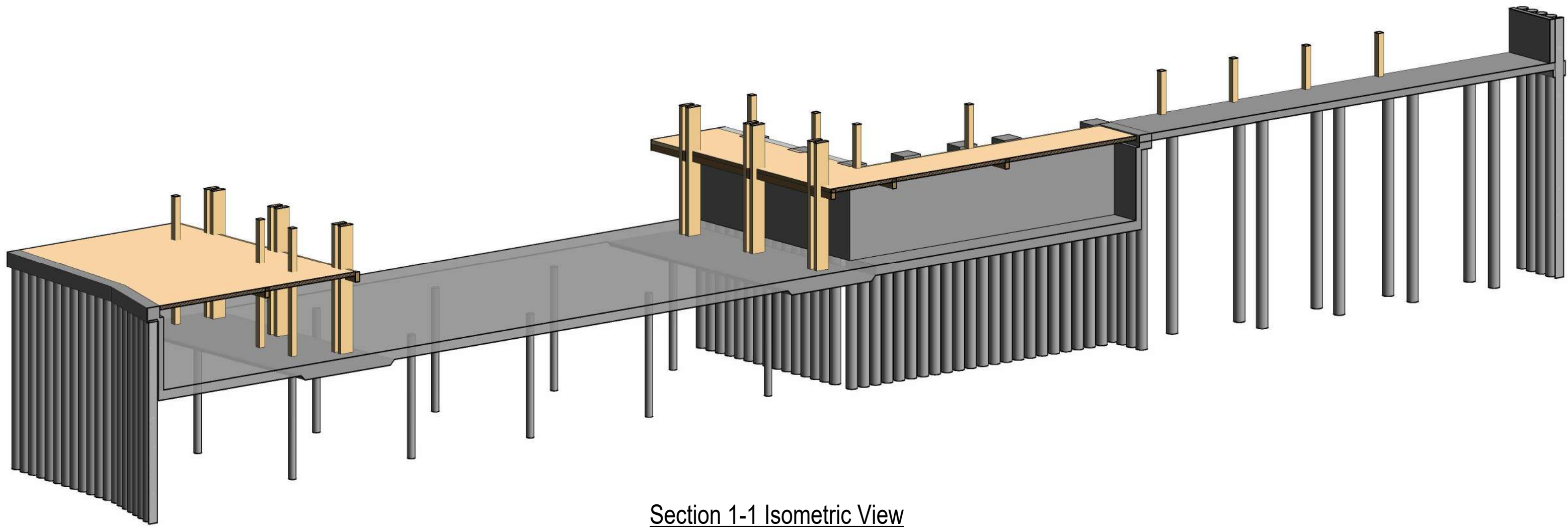
Detail A
(Scale 1 : 20)



Section 4-4
(Scale 1 : 100)



Section 5-5
(Scale 1 : 50)



Section 1-1 Isometric View

For General Notes refer to PJCE drawing L11234-22-215

All Structural Engineering drawings are to be read with the specification and with all relevant Architects drawings and specifications.

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Any discrepancies noted on site are to be reported to the engineer immediately.

01	30.06.2022	GB	GB	Issued for Information
-	15.03.2019	KK	TF	Issued for Information
Rev	Date	Drawn	Chk	Amendment

PRINGUER- JAMES
CONSULTING ENGINEERS
Overseas House, Elm Grove, London, SW19 4HE
Phone/Fax : 020 8940 4159
Email : mail@pjce.com Website : www.pjce.com

HIGHGATE SCHOOL
SPORTS HALL PHASE 2B
BASEMENT SECTIONS 1

Scale:	As indicated@ A1	Date:	15.03.19
Drawn:	KK	Engineer:	TF
Checked:	SPJ		
Status:	INFORMATION		
Project Code - Originator - Volume - Level - Type - Role - Number			Revision:
L2384-PJC-P2B-XX-DR-S-050			01

Appendix C

**Pringuer-James Consulting Engineers
Basement Impact Assessment**

Borehole Data from Investigations

Mallinson Sports Centre, Highgate School						Borehole No: BH1		
Site & Location: Bishopswood Road, London N6 4PH								
Client: Highgate School				Coordinates: 527947E, 187718N		Sheet 1 of 2		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.10mOD		Report No: 9916/JRCB		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 05/01/16 BH/casing diameter: 150mm	B	0.50	N=6 N ₆₀ =7	0.60	108.50		MADE GROUND: topsoil over soft brown/grey silty gravelly clay with brick and glass fragments and occasional roots	
	E	0.50						
	B	1.00						
	SPT/S	1.50	N=12 N ₆₀ =14	4.00	105.10		Soft, locally firm, brown/orange and pale grey mottled slightly silty CLAY with occasional partings of silty fine sand	
	D	1.50						
	D	2.00						
	U	2.50	N=23 N ₆₀ =27	10.00	99.10		Soft to firm becoming stiff dark grey silty CLAY with occasional to frequent partings of pale grey fine sand.	
	D	2.00						
	D	2.00						
	U	2.50	N=25 N ₆₀ =29					
	D	3.00						
	D	3.00						
Water inflow at 2.90m depth: - rose to 2.40m (20 mins) - sealed at 5.40m	SPT/S	3.50	N=25 N ₆₀ =29					
	D	3.50						
	D	3.50						
	U	4.50	N=25 N ₆₀ =29					
	D	4.00						
	D	4.00						
	U	4.50	N=25 N ₆₀ =29					
	D	5.00						
	D	5.00						
	U	5.50	N=25 N ₆₀ =29					
	D	5.50						
	D	5.50						
BH cased to 6.00m	SPT/S	6.00	N=25 N ₆₀ =29					
	D	6.00						
	D	6.00						
	U	7.50	N=25 N ₆₀ =29					
	D	6.75						
	D	6.75						
	U	7.50	N=25 N ₆₀ =29					
	D	7.50						
	D	7.50						
	U	8.00	N=25 N ₆₀ =29					
	D	8.00						
	D	8.00						
	U	8.50	N=25 N ₆₀ =29					
	D	8.50						
	D	8.50						
	SPT/S	9.00	N=25 N ₆₀ =29					
	D	9.00						
	D	9.00						
	U	9.75	N=25 N ₆₀ =29					
	D	9.75						
	D	9.75						
Continued on next sheet								
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub SPT/S = split spoon SPT/C = solid cone HV = Hand Vane [kPa] PP = Pocket Penetrometer [kg/cm²] PID = Photo Ionisation Detector [ppmv] * = full SPT penetration not achieved - see summary sheet								Borehole type: Cable Percussion
Remarks: a) Approximate coordinates interpolated from public domain data b0 Monitoring pipe (50mm ID) installed to 6.00m; slotted from 1.00m to 6.00m with gravel response zone								Borehole No: BH1
								Soil Consultants

Mallinson Sports Centre, Highgate School						Borehole No: BH1			
Site & Location: Bishopswood Road, London N6 4PH									
Client: Highgate School				Coordinates: 527947E, 187718N		Sheet 2 of 2			
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.10mOD		Report No: 9916/JRCB			
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation	
	Type	Depth (m)		Depth (m)	Level (m)				
End of shift: 05/01/16 BH depth: 12.00m Casing depth: 6.00m Water depth pm: dry BH continued: 06/01/16 Water depth am: 2.00m Water inflow at 13.00 depth: - rose to 12.80m (20 mins) - not sealed BH complete: 06/01/2016 BH depth: 20.00m Water depth: 7.30m	U	10.50	N=28 N ₆₀ =33			Stiff to very stiff grey silty CLAY with partings of pale grey silty fine sand and occasional shell fragments		11	
	D	11.00							
	D	11.50							
	SPT/S	12.00							
	D	12.00							
	D	12.75	N=32 N ₆₀ =38			generally becoming fissured below about 14.00m		12	
	U	13.50							
	D	14.00							
	D	14.50							
	SPT/S	15.00							
	D	15.00	N=37 N ₆₀ =43			generally becoming silty and slightly sandy with frequent silt partings and scattered shell fragments		15	
	D	15.75							
	U	16.50							
	D	17.00							
	D	17.50							
	SPT/S	18.00						18	
	D	18.00							
	D	18.75							
	U	19.50							
	D	20.00							
				20.00	89.10	End of borehole at 20.00m			20
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub SPT/S = split spoon SPT/C = solid cone HV = Hand Vane [kPa] PP = Pocket Penetrometer [kg/cm²] PID = Photo Ionisation Detector [ppmv] * = full SPT penetration not achieved - see summary sheet									
Remarks: a) Approximate coordinates interpolated from public domain data b0 Monitoring pipe (50mm ID) installed to 6.00m; slotted from 1.00m to 6.00m with gravel response zone									
Borehole type: Cable Percussion									
Borehole No: BH1									



SoilConsultants

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS1		
Client: Highgate School				Coordinates: 527890E, 187800N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +105.75mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018							Grass over TOPSOIL. Occasional live roots.	
BH diameter 90mm GL to 1m, reducing with depth	D	0.30		0.20	105.55		MADE GROUND: dark grey black ashy slightly silty sandy gravel. Gravel is fine to coarse, angular to subrounded clinker and brick. Occasional ash pockets.	
	D	0.50		0.45	105.30			
	HV	0.50	50	0.60	105.15		MADE GROUND: firm brown mottled grey brown slightly silty slightly gravelly clay. Gravel is fine to medium angular to subrounded flint and brick. Rare ash pockets and rare live roots. Slight organic odour.	
	HV	0.65	60					
	D	0.70					Firm locally soft orange brown and blue grey silty sandy CLAY with rare flint gravel. Occasional partings and lenses of silt and sand. Rare pockets of clayey silt.	
	D	0.85						
	HV	0.85	50					
	D	0.95						
	HV	0.95	55					
	D	1.00						
Water seepage at about 1.00m	SPT/S	1.00	N=8					
	D	1.30						
	HV	1.30	40					
	HV	1.50	40					
	D	1.60						
	HV	1.70	44					
	D	1.90		1.85	103.90		Orange brown mottled grey clayey silty GRAVEL / gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint. Firm locally soft orange brown and brown silty sandy CLAY. Occasional partings and lenses of silt and sand. Rare pockets of clayey silt.	
	HV	1.95	44	2.00	103.75			
	D	2.00	N=7					
	D	2.30						
No recovery from 4.00m to 4.50m	HV	2.50	35					
	D	2.60						
	HV	2.80	60					
	D	2.95						
	D	3.00						
	SPT/S	3.00	N=8					
	D	3.30						
	HV	3.30	45					
	D	3.60						
	HV	3.60	50					
HV	3.80	50	3.80	101.95		Firm dark grey sandy silty to very silty CLAY with occasional silt and sand partings.		
D	3.90					becoming slightly sandy below about 4.00m		
D	4.00	N=11						
SPT/S	4.00							
BH complete: 17/12/2018 BH depth: 5.45m Water depth: dry 35mm ID monitoring pipe installed to 5.00m	D	4.60					rare shells at about 4.60m	
	D	4.80						
	HV	4.80	70					
	D	5.00						
	SPT/S	5.00	N=18					
				5.45	100.30		End of hole at 5.45m	
	Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet							
	Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)							
	Borehole type: Dynamic Sampler Borehole No: WS1							

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS2		
Client: Highgate School				Coordinates: 527878E, 187783N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +106.70mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018							MADE GROUND: asphalt.	
Water inflow at about 0.30m to 1.00m (fast) BH diameter 90mm GL to 1m, reducing with depth	D	0.20		0.15	106.55		MADE GROUND dark grey mottled black ashy slightly silty gravel. Gravel is fine to coarse, angular to subrounded clinker and brick.	
	D	0.35		0.30	106.40			
	HV	0.35	38	0.40	106.30		MADE GROUND: soft locally very soft brown mottled green grey slightly sandy silty clay. Rare brick fragments. Slight organic odour.	
	D	0.50						
	HV	0.50	30	0.60	106.10		MADE GROUND: soft dark brown mottled grey brown slightly sandy silty clay / clayey silt. Rare brick, flint and clinker gravel. Rare ash. Slight organic odour.	
	D	0.65						
	HV	0.70	30				Soft becoming firm brown and blue grey mottled orange brown silty CLAY. Rare flint gravel.	
	D	0.85						
	HV	0.95	40					
	D	1.00						
No recovery from 2.00m to 2.30m	SPT/S	1.00	N=8					
	HV	1.25	50	1.30	105.40		Soft to firm orange brown mottled blue grey slightly sandy silty CLAY. Rare partings of silt and sand.	
	D	1.30						
	HV	1.45	40				rare gravel below about 1.75m.	
	HV	1.55	38					
	D	1.60					Loose pale grey and orange brown clayey silty GRAVEL / gravelly CLAY. Gravel is fine to coarse angular to subrounded flint. Rare sand.	
	HV	1.75	40					
	D	1.90		1.85	104.85		Soft locally firm brown mottled orange brown and blue grey silty sandy CLAY. Occasional partings of silt and sand.	
	D	2.00	N=7					
	SPT/S	2.00						
No recovery from 4.00m to 4.70m				2.30	104.40			
	D	2.50					Firm becoming stiff dark grey silty sandy CLAY. Occasional silt and sand partings.	
	D	2.70						
	HV	2.50	20					
	HV	2.70	35					
	D	2.75						
	D	2.95						
	HV	2.95	42					
	D	3.00						
	SPT/S	3.00	N=11					
BH complete: 17/12/2018 BH depth: 5.45m Water depth: dry 35mm ID monitoring pipe installed to 5.00m	D	3.40						
	D	3.60						
	HV	3.65	30					
	D	3.95		3.90	102.80		End of hole at 5.45m	
	D	4.00						
	SPT/S	4.00	N=13					
	HV	4.00	58					
	D	4.80						
	D	5.00	N=17					
	SPT/S							
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								
Borehole type: Dynamic Sampler								
Borehole No: WS2								

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS3		
Client: Highgate School				Coordinates: 527973E, 187731N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.25mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018				0.20	109.05		Grass over TOPSOIL. Occasional live roots.	
BH diameter 90mm GL to 1m, reducing with depth	D	0.40					MADE GROUND: dark brown / dark grey slightly clayey, slightly silty gravel. Gravel is fine to coarse, angular to subrounded igneous rock and flint.	
	HV	0.60	20	0.60	108.65		MADE GROUND: soft becoming firm dark grey brown and brown grey slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to subrounded flint, brick, igneous rock and clinker. Slight organic odour. <i>becoming dark green grey below about 0.85m.</i>	
	D	0.65						
	HV	0.80	45					
	D	0.90						
	D	1.00					Firm orange brown and blue grey slightly sandy silty CLAY with rare flint gravel. Occasional partings of silt and sand. <i>becoming sandy below about 1.40m.</i>	
	SPT/S	1.00	N=8	1.10	108.15			
	HV	1.20	55					
	D	1.30						
		HV	1.40	65				
	D	1.60		1.80	107.45		Orange brown and blue grey slightly silty gravelly CLAY / clayey GRAVEL. Gravel is fine to coarse, angular to rounded flint. Soft to firm orange brown and blue grey silty to very silty sandy to very sandy CLAY. Occasional partings and pockets of clayey silt and sand.	
	HV	1.70	65					
	D	1.90		2.00	107.25			
	D	2.00	N=8					
Water seepage at about 2.20m to 2.25m; sand lense	HV	2.20	35					
	D	2.30						
	D	2.60					<i>locally grades to very clayey sand below about 2.70m.</i>	
	D	2.90						
	HV	2.90	36					
No recovery from 3.00m to 3.45m	D	3.00						
Water inflow at about 3.00m to 3.50m (fast)	SPT/S	3.00	N=12					
	D	3.60						
	HV	3.60	40					
	D	3.80		3.80	105.45		Firm dark grey silty sandy CLAY. Rare silt and sand partings.	
	HV	3.90	40					
	D	4.00						
No recovery from 4.00m to 4.70m	SPT/S	4.00	N=12					
	D	4.80						
	HV	4.80	55					
	D	5.00						
	SPT/S	5.00	N=14					
BH complete: 17/12/2018				5.45	103.80		End of hole at 5.45m	
BH depth: 5.45m								
Water depth: 3.50m								
35mm ID monitoring pipe installed to 5.00m								
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampler
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS3

Site & Location: Mallinson Sports Centre, Highgate School, Bishopswood Road, London N6 4PH						Borehole No: WS4		
Client: Highgate School				Coordinates: 527960E, 187718N		Sheet 1 of 1		
Engineer: Pringuer-James Consulting Engineers Ltd				Ground Level: +109.70mOD		Report No: 9916A/MR		
Progress & Observations	Samples & Tests		Field Test Results	Strata		Legend	Strata Descriptions	Backfill / Installation
	Type	Depth (m)		Depth (m)	Level (m)			
BH commenced: 17/12/2018							Grass over TOPSOIL. Occasional live roots.	
BH diameter 90mm GL to 1m, reducing with depth	HV	0.25	30	0.20	109.50		MADE GROUND: soft dark brown / dark grey slightly gravelly silty clay. Gravel is fine to coarse angular to subrounded flint, brick, concrete, quartzite and glass. Locally slightly sandy.	
	D	0.30						
	D	0.50						
	HV	0.50	30					
	D	0.70						
	D	0.90		0.85	108.85		MADE GROUND: firm dark green grey silty to very silty clay with rare gravel-sized brick and clinker. Firm orange brown and blue grey slightly sandy silty CLAY with rare flint gravel. Rare parting of silt and sand.	
	HV	0.90	60	1.00	108.70			
	SPT/S	1.00	N=8					
	HV	1.20	65					
	D	1.30						
Water inflow at about 3.00m to 3.50m (fast)	HV	1.50	45				Loose to medium dense orange brown mottled dark orange brown very clayey GRAVEL / gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint.	
	D	1.60						
	HV	1.85	46					
	D	1.90		2.00	107.70			
	D	2.00	N=10					
	SPT/S	2.00					Soft locally firm orange brown mottled brown and blue grey sandy silty to very silty CLAY. Occasional partings of silt and sand.	
	D	2.20		2.35	107.35			
	D	2.50						
	HV	2.50	30					
	HV	2.70	35					
BH complete: 17/12/2018 BH depth: 5.00m, no recovery between 4.45m to 5.00m Water depth: 3.50m 35mm ID monitoring pipe installed to 4.00m	D	2.80	30				Firm dark grey slightly sandy to sandy silty CLAY. Rare partings of silt and sand.	
	HV	2.90	30					
	D	3.00	N=15					
	SPT/S	3.00						
	D	3.20						
	D	3.50		3.60	106.10		End of hole at 5.00m	
	HV	3.60	45					
	D	3.80	42					
	HV	3.80						
	D	4.00	N=14					
SPT/S	4.00							
Key: U = Undisturbed B = Bulk D = Small disturbed W = Water ES = glass jar & plastic tub E = glass jar SPT/S = split spoon SPT/C = solid cone PP = Pocket Penetrometer [kg/cm²] HV = Hand Vane [kPa] PID = Photo Ionisation Detector [ppm - Isobutylene Equivalent, PhoCheck Tiger, 10.6eV lamp] * = full SPT penetration not achieved - see summary sheet								Borehole type: Dynamic Sampler
Remarks: Approximate coordinates and ground levels interpolated from Existing Site & Services Layout (Jan 2016, Dwg No. 13849/JV/1)								Borehole No: WS4

