



Industrial Dismantling Ltd

Project No: C1326

Issue: 1

Date: 07.03.24

Prepared by: D Blount

Date:07.03.24

Site Manager

**Approved by the Contractor's
Engineering Manager (CEM):**

Date

Engineering Manager
**Accepted on behalf of Network Rail /
Client:**

Accepted on behalf of the Network Rail,
Client Representative:

.....
(Print Name)

.....
(Signature)

.....
(Job Title)

**Work Package Plan
Stanhope road bridge demolition.**

Start Date: 06.05.24

Finish Date:24.05.24

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CONTENTS

1	Introduction	4
1.1	Brief outline of work methodology	4
1.2	Principal Contractor's delivery organisation	5
1.3	Resources	6
2	Working Together	7
2.1	At site communication	7
2.2	Contact details	7
2.3	Other parties involved with the package of work (interfaces details)	Error! Bookmark not defined.
3	Hazard Management	8
3.1	Work involving particular risks	8
3.2	Significant railway and construction risks	8
3.3	Lifesaving rules	Error! Bookmark not defined.
4	Environmental and Waste Management Arrangements	15
4.1	Environmental management arrangements	15
4.2	Waste management arrangements	15
5	Emergency Arrangements	16
5.1	Site emergency arrangements	16
5.1.1	First aid arrangements	16
5.1.2	Evacuation arrangements	17
5.1.3	Fire safety arrangements	17
5.1.4	Security arrangements	17
5.1.5	Summoning emergency services	17
5.1.6	Railway emergency (trains and electrical)	17
5.1.7	Asbestos	18
5.1.8	Utilities	18
6	Work Package Arrangements	19
6.1	Site Layout	19
6.2	Access and Egress	19
6.3	Welfare	19
6.4	Rail Traffic Management	19
6.5	Road Traffic Management	19
7	Hand Back Arrangements	20
7.1	Hand back arrangements	Error! Bookmark not defined.
	APPENDICES – Supporting information	20



1 Introduction

1.1 Brief outline of work methodology.

- Surveys carried out (Asbestos, Lead paint etc)
- Plant and equipment to be delivered to site, vehicles exceeding 3.5T to be FORS compliant.
- Vehicle movements overseen by banksman.
- Plant / equipment pre use checks to be carried out by operators.
- Visqueen and Navi mats to be installed to road utilizing 360° excavator with grab attachment / telehandler.
- Foot paths to have an additional layer of 200mm Polly blocks and 75mm Navi mats installed to protect services.
- Permit to dig to be issued by Client.
- De veg to be carried out by others prior.
- Excavator (20T / 38 T) to form ramp up to top of embankment / abutment.
- Excavator (20T) to clear bridge deck coverings (assumed loose fill only and no ballast)
- Parapet walls and pilasters to be removed via excavator fitted with grab attachment reducing walls down systematically pulling arising back onto the abutments.
- Utilizing a mini digger (3T) final clearance of the deck to be carried out
- Hot works permit issued by client with stipulations implemented.
- Utilizing oxy propane hot cutting, a hole to be cut through the trough deck to install running lines along the deck.
- Operative to don harnesses and clip onto running lines (max 2no per line)
- Operative to prep cut trough deck utilizing oxy propane cutting.
- Excavator fitted with load indicator to rig 1st section of troughing to be removed, 2no sets of brothers connected with 3m collar chains to cradle the section.
- Weight of section to be taken
- Working from bridge deck / MEWP operatives to carry out final cuts to section.
- Operatives to move clear.
- Excavator to lift deck section.
- The above to be repeated working from one end of the deck to the opposite end.
- Once the deck has been removed box cross beams to be removed.
- 38t excavator to be fitted with grab attachment.
- 38t excavator with grab attachment to secure beams.
- Operatives working from mewp to hot cut each end of the beam with a sit cut.
- Operative to move from the exclusion zone.
- Excavator to lift beam.
- The above to be repeated for each cross beam.
- 38t excavator to secure main outer beam
- Operatives to check bearings for any holding bolts and cut as required.
- Operatives to move from exclusion zone.
- Excavator to lift beam
- Above process to be repeated to second beam.
- Steel work to be set down in designated area, main beams to be sectioned into 3 to load into skips.
- Steel work to be loaded into EMR skips for removal of site, WTN completed prior to waste leaving site and copy issued to client.

**Abutments**

- Excavator to be fitted with hydraulic breaker.
- Excavator to break out the 1st section of arch to the rear of abutment face.
- Excavator to then reduce the front wall down systematically across width ensure the wall is kept reasonably level.
- Once c. 2m has been removed excavator to remove another section of arch to the rear and side walls.
- Embankment to the side and rear for the abutment to be excavated as required to facilitate the wall removal. Earth battered as per drawing.
- Front wall to be further systematically reduced.
- The above sequence to be repeated up to the rear wall (front wall to ground level, side and arch walls stepped @ 45° to full height rear wall).
- Rear wall to be systematically reduced as per the front abutment wall, side and arch walls to be reduce in sequence with rear wall, embankment to rear and side to also be excavated as the wall height is reduced.
- Brick work / concrete to be segregated as far as practically possible.
- Once all walls have been removed to ground level, excavator to reduce levels down to 500mm below existing road level.
- Arisings to be loaded into 8 wheel wagons as the works progress.
- Waste transfer notes to be completed prior to waste leaving site.
- Once abutments have been removed excavators fitted with buckets to re grade the remaining site area as per drawing / levels set out by client.
- Pond area to be regraded utilizing 3t mini digger due to adjacent trees.

1.1.2 The following tasks support this Work Package Plan:

Reference	Prepared by:	Task Briefing Sheet Title	Activity Start Date
TBS01	D Blount	Span removal	06.05.24
TBS02	D Blount	Abutment demolition & excavation	13.05.24

1.2 Principal Contractor's delivery organisation

1.2.1 The following individuals from the Principal Contractor's organisation will be involved during this work package:

Role	Name	Contact Number	
Project Manager	Hassan Soboh	07817 262454	hassan.soboh@milestoneinfra.co.uk



- .2.2 The following companies, specialist contractors and/or individuals will be involved during this work package:

Name and address of company, specialist contractor or individual, etc.	Work activity / Specialism	Point of contact details (name and telephone number)
<i>B&B Industrial Dismantling Ltd</i>	Dismantling / Asbestos removal	A Blount 07710312944 / D Blount 07891557960

1.3 Resources

- 1.3.1 The following resources will be used for this work package:

People

Number of People and their competence	Task
1 x Site manager (Client / B&B)	All
1 x Site Supervisor (Client / B&B)	All
2 x Machine drivers	All
2x opps	All

Plant, Equipment and Tools

Quantity of Plant, Equipment and Tools
38T excavator + Attachments
20T excavator + attachments
3T excavator + attachments
Tower scaffolds
Mewp. (nifty 12 or similar)
Dumper (9T)
12m telehandler.
2no running lines
Oxy propane burning gear

Materials

Quantity of Materials	
Various timber sections	Poly blocks
Pedestrian barriers.	Ply wood
Heras fence panels- client	Geotex
Petrol / 2 stroke oil	Navi mats
Oxygen bottles	Propane bottles
Spill kits	Bottle cages

**2 Working Together****2.1 At site communication**

- 2.1.1 HSEQ information including risks and controls will be defined in the induction briefing, which are given by the Site Supervisor prior to commencement of work. This includes the arrangements for maintenance and use of common equipment, in particular the access and egress.

All statutory information will be displayed at the site accommodation in accordance with the Client forms and policies.

Communication including safety related information for the project will be, by means of project HSEQ meetings, written safety briefs, bi-weekly toolbox talks, memos and publications.

All contact details are in the Health and Safety Plan and will be posted on the mess room wall.

2.2 Contact details.

- 2.2.1 The following are the main contacts for this work package:

Name	Role	Organisation	Contact details	Tick to confirm number works and has been tested
	Project Manager			
	Scheme Project Manager			
	Construction Manager			
Hassan Sobohg	Project manager	Milestone	07817 262454	
Andrew Blount	director	B&B	07710312944	
Mike Edwards	manager	B&B		

**3 Hazard Management****3.1 Work involving particular risks**

- 3.1.1 The work in this package does not involve any of the particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015.

Risk	When and where will the risk be present?	Permits Required	How will this risk be controlled?
Fall from height	Accessing and Works within building	Permit to demolish,	Working at height trained operatives. Running lines to be installed / inspected by Supervisor / manager. Max 2no opps per line. Harness and lanyard clipped on at all times upon open edge be formed though the deck. Mewps to be operated by IPAF t&C operatives. Pre use checks carried out on all access equipment / PPE.

3.2 Significant construction risks

- 3.2.1 The following are the significant railway and construction safety and health risks that apply during this work package:
- 3.2.1 Client shall manage the Hazard Log (or Hazard Record as defined in a Common Safety Method (CSM) for risk evaluation and assessment) during the construction phase of the project. This shall be reviewed and updated at regular intervals, or whenever there is a change that could impact the hazards and associated risks. The review shall be undertaken with input from the parties listed below.

Role	Name	Contact Number	
CEM			

Client shall update the list of significant construction health and safety risks based on the Hazard Log. These risks shall be communicated to all the relevant affected parties. Activities with risks to health & safety are considered at the Health & Safety Planning Meeting. The standard agenda includes a Risk Assessment Chart, which is used to indicate the activities and hazards anticipated.

Risk assessments detailed in the Pre-Tender Plan, together with Designers risk assessments (DRA's) and any further risk assessments deemed necessary, including those for activities carried out by other Contractors, shall be reviewed and approved for use by Client.

Significant risk work packages requiring client acceptance shall be identified at the Health and Safety Planning meeting, the output of which is included in this Construction Phase Plan

Safety Work Package Plans are prepared for activities with significant risk, and these will be briefed to site operatives and a record kept (*Method Statement Briefing Register*)



All persons attending site, whether visitors, employees or self-employed, will be informed of the risks together with the preventive and protective measures established, so that they understand what they need to do.

The identification and effective management of activities with risks to health & safety is planned, organised, controlled, monitored and reviewed at the 4-Weekly Health, Safety and Environmental Meetings.

Significant risks to health arising from site activities may include:

Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
Strike by moving plant	4	5	20	- Exclusion zones. - Machine controlled by bankman out side of exclusion zones. - CPCS / NPOR T&C operators - Pre use checks carried out to plant by operator. - Designated refuelling points - Plant parked in secure location with arms / masts lowered. - Engines switched off when not in use. - Plant to be fitted with mirrors / cameras etc.	2	5	10
Lifting operations	4	5	20	- Works carried out as per lift plan. - Excavator to be fitted with SWL indicator. - All lifting equipment to have certification present on site. - Supervisor to carry out visual inspection of equipment prior to use. - Exclusion zones.	1	5	5
Buried services	5	5	25	- Client to provide service location drawings and demark on site - Client to cat scan and issue permit to dig. - Excavation via excavator	2	5	10
Hazardous substances (Petrol etc)	2	5	10	- COSHH Assessment - Spill kits - Refuelling points - Relevant signage - Hygiene facilities. - Drip trays - Bunded fuel store	1	5	5



Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				- An inventory of all substances (e.g., gas oil, hydraulic oil etc) maintained with appropriate hazard information. - All operations which involve, or may involve, exposure to substances hazardous to health will be assessed and appropriate control measures will be taken where elimination or substitution of the hazardous substance is not possible. - All employees will be provided with comprehensible information and appropriate training on the nature of the hazardous substances.			
S,T and F	5	3	15	- Walking route set up and demarked. - PPE foot wear to be worn on site. - Good house keeping. - Adequate task lighting . - Workplace to be kept tidy and managed effectively. - Minimise build of materials/debris. - Restrict amount of water used to reduce dust. Limit spread of waste water/slurry. - Client to specify if any additional water control measures are required. - Designated access routes to be adhered to. - Protective footwear to be worn at all times. - Operative to demonstrate care and vigilance and not take unnecessary risks, especially on road embankments, near water, on contaminated sites, or any where else where the conditions heighten the risk.	3	2	6
Working with electrical equipment	3	3	9	- All electrical equipment, including portable equipment to be fit for purpose. - Operatives to be competent in the use of power tools.. - Exposure times to be adhered to for each piece of equipment. - Hav records to be kept as applicable. - Electrical equipment will be used and maintained in accordance with regulations. Electricity at work regulations 1989 apply.	2	2	4



Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				- All 110v equipment to hold a current pat test. - Checks to be made to ensure that the cable is not cut or damaged. If damaged, the tool to be exchanged or repaired by a competent person. - Provision and use of work equipment regulations 1998 (PUWER) regulations to be adhered to and it is to be ensured that the equipment is :- suitable for the intended use, safe for use, maintained in a safe condition and, inspected to ensure this remains the case. - Plant to only be used by competent people, accompanied by suitable safety measures, e.g. guards, markings, warnings and maintained in a safe condition. - Any inspection should be carried out by a competent person.			
Power Generation				110v/415v mains supply - keep cables to a minimum length and secure where possible. - Ensure Pat Tests are in date and maintain condition of cables/plugs/sockets. - All leads to be checked visually before use. - Ensure all equipment switched off prior to unplugging cables - Electricity at work regulations 1989 to apply. 240v Mains, all site equipment is 110 volt, therefore transformer required. - Locate transformer directly next to mains plug, use NO mains extension leads. Ensure Pat Tests are in date and maintain condition of cables/plugs/sockets. - All leads to be checked visually before use. - Electricity at work regulations 1989 to apply.	2	2	4
3 rd parties	2	3	6	- Works areas segregated. - Noise to be considered at all times – No shouting etc	1	2	2
Falling Materials	3	4	12	Exclusion zones	2	3	6



Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				- Demolition as per method statement - Trained and competent operatives. - Use of mechanical plant.			
Services	3	4	12	- Client to provide service drawings. - Services to the structure to be disconnected / isolated prior to B&B works – Certificates on site - Additional layer of mats & poly block to be installed on footpath to protect the services	2	4	8
3 rd parties	2	3	6	- Works areas segregated. - Noise to be considered at all times – No shouting etc - Traffic management of vehicles entering and exiting site. - Letter drop by client.	1	2	2
Un controlled collapse	3	5	15	- Works carried out as per method and sequence. - Install of temporary / new floor to form solid platform for works.	1	5	5
Sharps	3	4	12	- Initial search for sharps carried out - Gloves to be worn at all times. - Sharps not to be handled by operatives. - Any sharps found to be reported to site supervisor who will organise disposal in accordance with procedure. - Should any person on site be accidentally stuck by a needle and it is bleeding they should allow the injury to bleed while washing under water for 10 - 15 mins then report immediately to the Supervisor. - The Supervisor shall then arrange for the person in question to attend a Doctor / Hospital immediately. The needle should be brought to the casualty / Doctor as it will be required for identification of possible Blood Pathogenes etc.	1	4	4
Leptospirosis.	4	3	12	- All operatives will be warned of the dangers associated with contact with rats and other vermin. - Gloves will be worn at all times and operatives will be informed to avoid	2	3	6



Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				hand to mouth contact and eating and drinking is prohibited. - All cuts or open wounds should be covered to avoid infection. - A good level of hygiene facilities will be provided, so as site operatives can wash their hands in hot soapy water, drying towels will also be provided. - If the rodents become a problem, arrangements shall be made for a pest control organisation to be contacted and the vermin eradicated.			
Un even ground	3	4	12	- Employees to carry out visual inspection of area to assess the underfoot conditions. - Special care to be taken after rainfall, or in areas of heavy ground vegetation. - Most suitable access route to be taken to the site. Use access steps. - Safety footwear with good ankle support to be worn at all times.	1	4	4
waste	4	4	16	- All waste will be disposed of using registered and licensed contractors, prior to disposal and will be collected together in an appropriate skip. - Waste transfer notes to be complete prior to waste leaving site. - Current waste carriers license	1	4	4
Havs	5	4	20	- Trained employee - Do not exceed short work duration. - Accumulative exposure limit not to be exceeded - PPE, Anti vibration gloves, high impact goggles. - B&B to assess suppliers and products and purchase low vibration tools which are suitable for the work, efficient and of lower vibration. - Information to be provided on vibration magnitude and trigger times. - Hand held equipment to be fitted with a tag detailing magnitude and exposure times. - Method statements to include vibration data and exposure times.	2	4	8



Risk	Score		Total score	Control	Result		Total Result
	Probability	Severity			Probability	Severity	
				- Equipment to be maintained to manufacturers specification to avoid worsening vibration e.g. ensure rotating parts are checked for balance and replace if necessary keep tools sharp. Control work organisation, by job rotation. - Limit the time of exposure to vibration. - Avoid continuous periods of exposure, several shorter periods preferable. - Work to be planned to prevent operatives being exposed for periods which are long enough to put them in the high risk group (above the ELV). - When operating hand held plant with vibration magnitudes likely to be above the action level, operatives to complete a Daily Havs Exposure Record Sheet to allow monitoring of exposure levels and methods of work. - Operatives who are likely to or have been regularly exposed above the EAV (exposure action value) will be sent to a medical practitioner for assessment. - Operatives to be issued with and to wear PPE to keep warm and dry to encourage good blood circulation. - Gloves to be worn to keep hands warm, but not relied on to provide protection from vibration.			
High noise levels	2	4	8	- Noise to be reduced by engineering means wherever practicable, - Control of Noise at work regulations 2005 to apply - Where noise level is above the 1st action level, currently 80dB(A), hearing protection to be provided on request. - Where noise level is at or above the second action level, currently 85dB(A), appropriate PPE must be worn. - Operatives to be supplied and wear ear defenders to provide protection at 500-2000Hz frequency. Standard Noise Reduction (SNR) - 28-32dB - Approved to EN 352-2. - Client to mark area as ear protection zone and ensure other personnel wear ear protection.	1	4	4



4 Environmental and Waste Management Arrangements

4.1 Environmental management arrangements

- 4.1.1 All litter generated by operatives shall be put bagged and removed from site.
All plant will be in good working order and have an in-date certificate and copies of the certificate held in the project file.
Plant shall be positioned as to minimise the noise created.
All refuelling of plant shall be at the at refuelling point. Drip trays and plant nappy's to be used always. All waste fuel to be disposed of as hazardous waste

4.2 Waste management arrangements

- 4.2.1 No waste generated directly from the works will be left on site.

All waste generated by the works shall be removed as controlled waste.

All waste will be carried and disposed of by a licensed operator with all transport notes retained onsite for record purposes.



5 Emergency Arrangements

5.1 Site emergency arrangements

PREPLANNING

An Emergency Planning review shall be undertaken by Client to identify any issues, and an 'Emergency Response Pack' shall be made available with appropriate content to the activities being undertaken.

An emergency response pack shall be created to help ensure that remote works away from Office/Welfare, have sufficient information and materials to assist with dealing with an Emergency/crisis situation.

Each worksite shall ensure that the content is suitable to the site specifics in terms of work location, activities and the levels of risk identified in workplace assessments. However, the below is a guide to the minimum content:

Information (in waterproof document pouch)

Emergency contacts list (Site Manager primary call)

- Accidents & Incidents
- equipment locations
- hospital route and meeting point
- accident reporting procedure
- signaller / isolation details

Fire

- fire arrangements plan (local equipment, routes and muster points)

Other(s) as required

Environmental

- Spill kit location and content

5.1.1 First aid arrangements

- 5.1.1.1 In the event of a major injury, fire or other dangerous occurrence, the incident shall immediately be reported to the site office, where Client's Project / Site Manager or deputy shall assess further actions required including contacting the Emergency Services (999 or other number dependent on location), as per the Emergency Arrangements Plan.

Details (name, address and telephone number) of the nearest Accident and Emergency hospital and police station will be posted in a prominent position on site together with a map showing their location.

Contractors shall provide information about RIDDOR incidents to the Principal Contractor so that they can monitor compliance with health and safety law and, if necessary, review the arrangements for the management of health and safety.

This may be by reference to a particular accident reporting procedure. Any sub-contractor on site should comply with Network Rail or the contractor's accident/incident reporting arrangements. Incidents should also be reported to the Network Rail Investment Support Centre.



5.1.2 Evacuation arrangements

- 5.1.2.1 A muster point shall be established for any emergency evacuation situation. The use of airhorn shall be used to sound the alarm in an emergency, the signing in register will be used for roll-call.

If within MEWPS will require a rescue from height procedure.

5.1.3 Fire safety arrangements

- 5.1.3.1 A fire safety plan shall be based on the actual risk of fire present on the site. This will include measures to prevent a fire starting (e.g. control of hot works, smoking and refuelling activities), the method of raising the alarm with all people on site and any firefighting arrangements provided. The plan should also contain details about the need for any temporary fire alarm panels or connections to current fire alarm panels; also the need to locate fire alarm equipment (i.e. smoke or heat detectors) that might be affected during the construction phase.

5.1.4 Security arrangements

- 5.1.4.1 The site shall be secured by a fence line to prevent unauthorised access from members of the public. British Transport Police shall be advised of the works and the likely for work to attract unwelcome attention.

5.1.5 Summoning emergency services

- 5.1.5.1 In the event of a major injury, fire or other dangerous occurrence, the incident shall immediately be reported to the site office, where Client's Project / Site Manager or deputy shall assess further actions required including contacting the Emergency Services (999 or other number dependent on location), as per the Emergency Arrangements Plan. Details (name, address, and telephone number) of the nearest Accident and Emergency hospital and police station will be posted in a prominent position on site together with a map showing their location.

Contractors shall provide information about RIDDOR incidents to the Principal Contractor so that they can monitor compliance with health and safety law and, if necessary, review the arrangements for the management of health and safety.

Organisation	Details	Contact Number
Police	Emergency number	999
British Transport Police	Emergency number	0800 405040
Fire	Emergency number	999
Ambulance	Emergency number	999/112
Environment Agency	Emergency hotline	0800 807060
Health & Safety Executive	International House	0845 345 0055
BUPA	Emergency number	0800 163623
Gas (Transco)	Emergency number	0800 111 999
EDF Electricity	Emergency number	0800 783 8866
British Telecom	Emergency number	0800 917 3993
Emergency Spillage Call Out	Response Line	08700 73 77 66 73



5.1.6 Asbestos

- 5.1.7.1 if any suspect material is identified on site, works to cease, area made safe as far as practically possible, area segregated, client representative notified.

Utilities

- 5.1.8.1 In the case that any unexpected services are identified works will stop immediately, the site management team / Utilities coordinator must be notified immediately.

See Client services policy in appendices.



6 Work Package Arrangements

6.1 Site Layout



6.2 Access and Egress

6.2.1 The Authorised Access Point is as follows:

6.3 Welfare

Workers must have access to:

- toilets and hand basins, with soap and towels or a hand-dryer
- drinking water
- a place to store clothing (and somewhere to change if special clothing is worn for work)
- somewhere to rest and eat meals

6.4 Rail Traffic Management

6.4.1 N/A

6.5 Road Traffic Management

6.5.1 Traffic Management Plan (TMP) to be produced and communicated by client / PC. This shall be reviewed as a minimum weekly.



	Required Y / N	Permit Reference	Specific Arrangements & Limitations
Parking Arrangements:	Y	N/A	Site vehicles to be limited to the bare minimum & parked in a safe manner avoiding paths of other vehicles. Reverse Parking when possible
Traffic Management	Y		Client to be responsible for road and foot path closures required inclusive of any mitigation measures i.e fencing etc.

APPENDICES – Supporting information