



Havant Thicket Reservoir – Main Pipeline works

HTR-WAB-PI-ZZ-RP-W-0018_Site Compound Details

15th May 2026

Rev: S4.P02

For Approval

Ward & Burke Construction Limited,
25-26, Ivor Place,
Marylebone, London,
NW1 6HR

PH: +44 2045 871240
Email: info@wardandburke.com

Issue and Revision Record

Havant Thicket Reservoir – Main Pipeline Works

Document Title: Site Compound Details
Project Number: C725
Client Project Number: HTR

Client: Portsmouth Water Limited
Project Location: Meyrick Road, Havant, PO9 1NR

Rev	Date	Originator	Checker	Approver	Description
P01	04/09/25	T. Foster	B. Phillips	B. Curran	Initial Release
C01	10/12/25	T. Foster	B. Phillips	B. Curran	Revised to Construction Issue
P02	15/05/26	T. Foster	B. Phillips	B. Curran	Updated for S278 TA, P2/W3

Document Status: S4
Document Reference: HTR-WAB-PI-ZZ-RP-W-0018

Information Class: Standard

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

Ward and Burke Construction Limited accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.

Contents

Issue and Revision Record	2
1 Introduction	4
1.1 Works Background	4
1.2 Scope of Document	5
2 Site Compound Details.....	7
2.1 Site Compound W2 and P2 Working Area/Haul Road	7
2.1.1 Location of Plant / Compounds / Storage Facilities.....	7
2.1.2 External Appearances	7
2.1.3 Boundary Treatments and Acoustic Screening.....	7
2.1.4 Service and Delivery Times	8
2.1.5 Acoustic Screening and Plant Insulation.....	8
2.1.6 Site Contacts	8
2.1.7 Reinstatement Works along Boundary.....	9
2.1.8 Generator Proposals	9
2.2 Site Compound W3	10
2.2.1 Location of Plant / Compounds / Storage Facilities.....	10
2.2.2 External Appearances	10
2.2.3 Boundary Treatments and Acoustic Screening.....	10
2.2.4 Service and Delivery Times	10
2.2.5 Acoustic Screening and Plant Insulation.....	11
2.2.6 Site Contacts	11
2.2.7 Reinstatement Works along Boundary.....	11
2.2.8 Generator Proposals	11
2.3 Site Compound W4	12
2.4 Site Compound ED.....	12
2.5 Site Compound W5	12
2.6 Site Compound W6	12
2.7 Site Compound W7	12
2.8 Site Compound W8	12
Appendix A: Site Compound Layouts	13
Appendix B: Reinstatement Plans	14

1 Introduction

The objective of the Havant Thicket Reservoir Project is to provide a new resource to supply drinking water in the water-stressed Southeast of England while maximising the community and environmental benefits of a new raw water reservoir. Ward and Burke Construction Limited (WBCL) have been appointed by Portsmouth Water Limited (PW) to design, construct, and commission a new pipeline connecting Bedhampton Pumping Station to Havant Thicket Reservoir, including an emergency discharge structure at the Hermitage Stream, culvert upgrades and an Under Track Crossing.

1.1 Works Background

Portsmouth Water has outlined seven strategic drivers for this project to ensure continued focus on meeting the Project's objectives.

These project drivers are:

- **Quality:** Quality in procurement, design and delivery to deliver an exemplary project to serve Customers in the short, medium and long term,
- **Timeliness:** In service and operating by 2029 to support a major bulk transfer to Southern Water,
- **Innovation:** Develop best practices in the largest new reservoir project in the southeast for decades. Capture learning from companies working in partnership to deliver better value for Customers,
- **Flexibility:** Create a project that offers multiple uses and enables Portsmouth Water to be a strategic water supplier for the South over the medium and long term,
- **Responsibility:** Realise and build upon our health, safety and well-being goals,
- **Connectivity:** Positive connection for all stakeholders – Customers, the local community, regulators, staff, contractors, shareholders, commercial partners, environmental groups and individuals with a passion for the environment, and
- **Environment:** A positive contribution to local and internationally important habitats. Direct support for the Government's objective to reduce the damaging abstraction of water from rivers.

1.2 Scope of Document

This document includes the following items:

- Work Area Site Details
- Site Compound Layout Drawings
- Reinstatement Plan Drawings

This document is required to discharge Condition 33 of permission reference HBC APP/24/00405. The requirements of this Conditions and where within this document the requirements are addressed are set out in Table 1.1 below.

Table 1.1 – Condition 33 of APP/24/00405

Condition 33 – Details of Works Area/Compounds	
<p><i>Notwithstanding the details provided with the works areas Works Area Summary (ref HTR-WAB-PI-ZZ-TN-W-0006 Rev P03) the following details shall be provided prior to works commencing at each compound works area location:</i></p> <ul style="list-style-type: none"> <i>i. Location of plant and compounds and other storage facilities.</i> <i>ii. Details of the external appearance of welfare, site offices, facilities including location of windows.</i> <i>iii. Details of boundary treatments and temporary and site specific acoustic screening.</i> <i>iv. Details of service and delivery times.</i> <i>v. Details of acoustic screening and plant insulation including generators</i> <i>vi. Details of named site contact at the works location.</i> <i>vii. Reinstatement works along boundary and screen planting.</i> <i>viii. Details of any generators, their operational requirements.</i> <p><i>The development shall be carried out in accordance with the approved details and retained thereafter.</i></p> <p><i>Reasons: In the interest of residential amenity, air quality and appearance and character of the area. To accord with policies DM10 & CS15 (Havant Borough Local Plan (Core Strategy) 2011), and the National Planning Policy Framework (2024).</i></p>	
Detail	Where addressed
Location of plant and compounds and other storage facilities	Section 2.1.1
Details of the external appearance of welfare, site offices, facilities including location of windows	Section 2.1.2
Details of boundary treatments and temporary and site-specific acoustic screening	Section 2.1.3
Details of service and delivery times	Section 2.1.4
Details of acoustic screening and plant insulation including generators	Section 2.1.5
Details of named site contact at the works location	Section 2.1.6
Reinstatement works along boundary and screen planting	Section 2.1.7
Details of any generators, their operational requirements	Section 2.1.8

The relevant phase/s of the condition (listed in Table 1.1) this document revision seeks to address are specified in Table 1.2 below. Previously discharged phases of the condition, as well as those to be discharged in future submissions, are also listed.

Table 1.2 – Phase Submission Checklist

Phase Ref	Elements Covered	Discharge in this Submission
1	Pipeline Section P0 [FUW] (Bedhampton, associated infra.)	
2a	Pipeline Section P0 [WAB] Shaft W1 works (ex. Shaft)	
2b	Pipeline Sections P1/P2 Shafts W2/W3	✓
3	Pipeline Sections P3/P4 Shafts W3/W4/ED	
4	Pipeline Sections P5/P6 Shafts ED/W5/W6	
5	Pipeline Sections P7/P8 Shafts W6/W7/W8	
6	Pipeline Section P9	
7	Pipeline Section P10 [FUW] (Reservoir, associated infra.)	
8	Purbrook Way Culvert	
9	Dunsbury Way Culvert	
10	Middle Park Way Culvert	
N/A	Shaft W1 (<i>subject of separate Reserved Matters Application APP/24/00204 linked to original outline planning permission APP/20/00991</i>)	✓ (Previously Discharged)

2 Site Compound Details

This section will set out the relevant details for each separate site compound area along the pipeline route, to meet the requirements of Condition 33 as set out in Table 1.1. These details are further to those listed within the Works Area Summary document (HTR-WAB-PI-ZZ-TN-W-0006).

2.1 Site Compound W2 and P2 Working Area/Haul Road

2.1.1 Location of Plant / Compounds / Storage Facilities

The site compound area for Shaft W2 is located within Bedhampton, Havant, in Hampshire. Shaft W2 is located in the southwestern corner of the Havant playing fields, closest to Fraser Road. The site will only be accessed by both pedestrians and site traffic via Hooks Farm Way.

Typical plant within the compound will include a ~100t crane, ~30t excavator, shaft sinking equipment, tunnelling separation plant, and miscellaneous tunnelling equipment. An indicative layout of plant positions and designated storage areas can be found within Appendix A: Site Compound Layouts. Site vehicles and tipper wagons will move within the site, as will any excavators in use.

Access arrangements are as follows:

Table 2.1 – Access Summary

Works Area:	Shaft W2 – Havant Rugby Football Club
Adjacent Road/s:	Hooks Farm Way, Hooks Lane, Fraser Road
Access Via:	Hooks Farm Way
Entrance what3words:	///shaped.fried.dull

2.1.2 External Appearances

A combined site welfare and site office area is to be in place at the northeastern corner of the Shaft W2 compound. 4Nr. site cabins (approx. 6m long x 2.5m wide) are to be double stacked (two stacks of two), with a height of approximately 5.5m tall when together. A set of stairs are to be installed at each stack to provide access to the upper cabin.

Site cabins are to be a neutral colour. An example arrangement can be seen in Appendix A: Site Compound Layouts.

External site hoarding 2.4m in height is to be installed around the compound perimeter, and so ground level site cabin windows are all to be used. The upper cabin windows facing towards residential properties are not to be used. The typical layout and use of these upper windows can be seen in Appendix A: Site Compound Layouts.

2.1.3 Boundary Treatments and Acoustic Screening

The W2 shaft compound area is to be bound on all sides by solid site hoarding, to a height of 2.4 meters. The western boundary of the proposed haul road is also to be hoarded along its length. The hoarding shall be constructed from solid, imperforate panels with a minimum mass of 10 kg/m². The edges and joints between panels will be sealed to ensure full acoustic integrity.

The schools (Bidbury Infant and Junior School and St Thomas More's Catholic School) and residential properties to the south and west of the site compound and sections of the haul road have been identified as noise-sensitive locations. The site hoarding towards these receptors is to be enhanced to achieve a mass not less than 17 kg/m².

A vehicle entrance gate will be present at the northern end of the site compound, leading onto the haul road across the playing fields towards Hooks Farm Way.

The P2 open-cut section of the pipeline is not enclosed by hoarding on either side. The western and northern boundary of the haul road (west of the open-cut works) will be hoarded. Mobile noise barriers shall be used around the boundary of active open-cut works during construction to break the line of sight between the noise sources and schools. Where necessary, additional fixed acoustic barriers shall also be provided to achieve effective noise control.

2.1.4 Service and Delivery Times

The majority of vehicle movements will occur before and after peak hours as site working hours are 08:00-18:00 (07:30-08:00 pre-start briefings). HGV deliveries will avoid peak times 08:00-09:00 & 17:00-18:00. Deliveries will also avoid peak times 12:00-13:00 on Saturdays.

Nearby school pick-up and drop-off times are as follows:

- Bidbury Infant and Junior School (08:40 and 15:10)
- St Thomas More's Catholic School (08:45 and 15:15)

HGV deliveries are not to travel to site in a 1-hour window around these times (between 08:10-09:15 & 14:40-15:45).

2.1.5 Acoustic Screening and Plant Insulation

As per Section 2.1.3, the full shaft compound area is to be bound on all sides by solid site hoarding, to a height of 2.4 meters.

The tunnelling separation plant is to be fitted with external acoustic barriers to reduce the noise impact during operations, especially during the required period of 24-hour working when completing the P1 Under Track Crossing (UTX) works beneath the railway.

All generators within the compound are to be surrounded with acoustic barriers on all sides during use.

No plant attachments are expected to be used within the W2 compound area that require specific acoustic shrouding during use. This will be reviewed if the use of such attachments (excavator mounted breakers etc.) is required. Further details of BPM relating to mitigating the effects of noise for all activities can be found within HTR-WAB-PI-ZZ-RP-W-0015_S61 Construction Noise & Vibration Assessment.

2.1.6 Site Contacts

The following personnel are to be used as the named site contacts for the W2 works area:

Table 2.2 – W2 Site Contacts

Name	Role	Phone	Email
Brien Curran	Project Manager	07739 324048	brien.curran@wardandburke.com
Thomas Foster	Site Agent	07784 231394	thomas.foster@wardandburke.com
Tamar Helen	Site Engineer	07743 938052	tamar.helen@wardandburke.com
PJ Keane	Site Foreman	07739 324049	-

2.1.7 Reinstatement Works along Boundary

Upon completion of the works, the site compound and haul road boundary hoarding is to be removed completely, and the area reinstated. Reinstatement works are to be carried out in accordance with drawing HTR-ATK-PL-XX-DR-L-0002, included within Appendix B: Reinstatement Plans.

Screen planting is not proposed to be used at this location.

2.1.8 Generator Proposals

A generator will be required at the welfare/office set-up in the northeastern corner of the site compound area, and will be operational only during site working hours.

The tunnelling separation plant is to have a containerised (approx. 6m x 2.5m) generator at the eastern boundary of the compound, to be operational during all tunnelling works. This will be required to operate 24 hours a day during tunnelling works when completing the P1 Under Track Crossing (UTX) works beneath the railway.

An auxiliary generator (3m x 1.5m) is to be located at the southeastern boundary of the compound, and is to be operated during site working hours.

Indicative locations of these generators can be found in Appendix A: Site Compound Layouts.

2.2 Site Compound W3

2.2.1 Location of Plant / Compounds / Storage Facilities

The site compound area for Shaft W3 is located within Bedhampton, Havant, in Hampshire. Shaft W3 is located in the northeastern corner of the Havant playing fields, closest to Hooks Farm Way and Harestock Road. The site will only be accessed by both pedestrians and site traffic via Hooks Farm Way.

Typical plant within the compound will include a ~100t crane, ~30t excavator, and appropriate shaft sinking equipment. An indicative layout of the compound area and designated storage areas can be found within Appendix A: Site Compound Layouts. Site vehicles and tipper wagons will move within the site, as will any excavators in use.

Access arrangements are as follows:

Table 2.3 – Access Summary

Works Area:	Shaft W3 – Havant Rugby Football Club
Adjacent Road/s:	Hooks Farm Way, Hooks Lane, Harestock Road
Access Via:	Hooks Farm Way
Entrance what3words:	///shaped.fried.dull

2.2.2 External Appearances

A combined site welfare and site office is to be in place at the southern boundary of the Shaft W3 compound, consisting of 1Nr. site cabin (approx. 6m long x 2.5m wide).

Site cabins are to be a neutral colour. An example arrangement can be seen in Appendix A: Site Compound Layouts.

External site hoarding 2.4m in height is to be installed around the compound perimeter. Ground level site cabins are to be in place and so all windows can be used, with no line of sight to residential properties or area outside of the works areas. The typical layout of these cabins can be seen in the W3 Site Compound Layout in Appendix A: Site Compound Layouts.

2.2.3 Boundary Treatments and Acoustic Screening

The W3 shaft compound area is to be bound on all sides by solid site hoarding, to a height of 2.4 meters. The hoarding shall be constructed from solid, imperforate panels with a minimum mass of 10 kg/m². The edges and joints between panels will be sealed to ensure full acoustic integrity.

The residential properties to the north and east of the site compound have been identified as noise-sensitive locations. The site hoarding towards these receptors is to be enhanced to achieve a mass not less than 17 kg/m².

A vehicle entrance gate will be present at both the northern end of the site compound and the northeastern, leading directly onto Hooks Farm way, as well as leading east onto the haul road across the playing fields towards the Shaft W2 compound respectively.

2.2.4 Service and Delivery Times

The majority of vehicle movements will occur before and after peak hours as site working hours are 08:00-18:00 (07:30-08:00 pre-start briefings). HGV deliveries will avoid peak times 08:00-09:00 & 17:00-18:00. Deliveries will also avoid peak times 12:00-13:00 on Saturdays.

Nearby school pick-up and drop-off times are as follows:

- c. Bidbury Infant and Junior School (08:40 and 15:10)
- d. St Thomas More's Catholic School (08:45 and 15:15)

HGV deliveries are not to travel to site in a 1-hour window around these times (between 08:10-09:15 & 14:40-15:45).

2.2.5 Acoustic Screening and Plant Insulation

As per Section 2.2.3, the full shaft compound area is to be bound on all sides by solid site hoarding, to a height of 2.4 meters.

All generators within the compound are to be surrounded with acoustic barriers on all sides during use.

No plant attachments are expected to be used within the W3 compound area that require specific acoustic shrouding during use. This will be reviewed if the use of such attachments (excavator mounted breakers etc.) is required. Further details of BPM relating to mitigating the effects of noise for all activities can be found within HTR-WAB-PI-ZZ-RP-W-0015_S61 Construction Noise & Vibration Assessment.

2.2.6 Site Contacts

The following personnel are to be used as the named site contacts for the W3 works area:

Table 2.4 – W3 Site Contacts

Name	Role	Phone	Email
Brien Curran	Project Manager	07739 324048	brien.curran@wardandburke.com
Thomas Foster	Site Agent	07784 231394	thomas.foster@wardandburke.com
Tamar Helen	Site Engineer	07743 938052	tamar.helen@wardandburke.com
PJ Keane	Site Foreman	07739 324049	-

2.2.7 Reinstatement Works along Boundary

Upon completion of the works, the site compound boundary hoarding is to be removed completely, and the area reinstated. Reinstatement works are to be carried out in accordance with drawing HTR-ATK-PL-XX-DR-L-0003, included within Appendix B: Reinstatement Plans.

Screen planting is not proposed to be used at this location.

2.2.8 Generator Proposals

An integrated generator will be required at the welfare/office set-up at the southern boundary of the site compound area, and will be operational only during site working hours.

An auxiliary generator (3m x 1.5m) is to be located at the eastern boundary of the compound, and is to be operated during site working hours. This is to be surrounded with acoustic barriers when in use to minimise impacts to nearby receptors.

Indicative locations of this welfare unit (with integrated generator) and auxiliary generator can be found in the W3 Site Compound Layout in Appendix A: Site Compound Layouts.

2.3 Site Compound W4

To be included in later revision.

2.4 Site Compound ED

To be included in later revision.

2.5 Site Compound W5

To be included in later revision.

2.6 Site Compound W6

To be included in later revision.

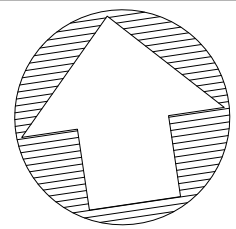
2.7 Site Compound W7

To be included in later revision.

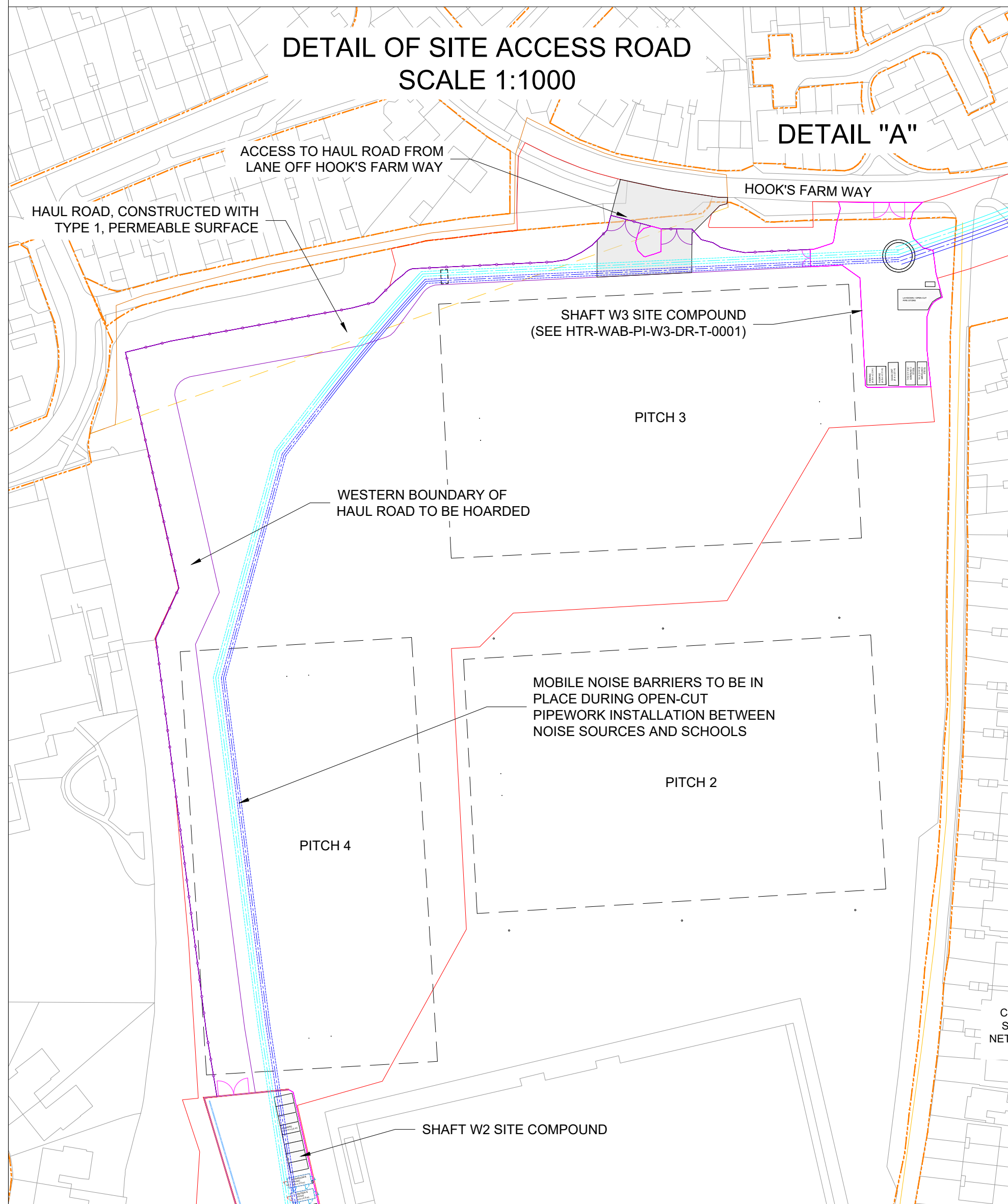
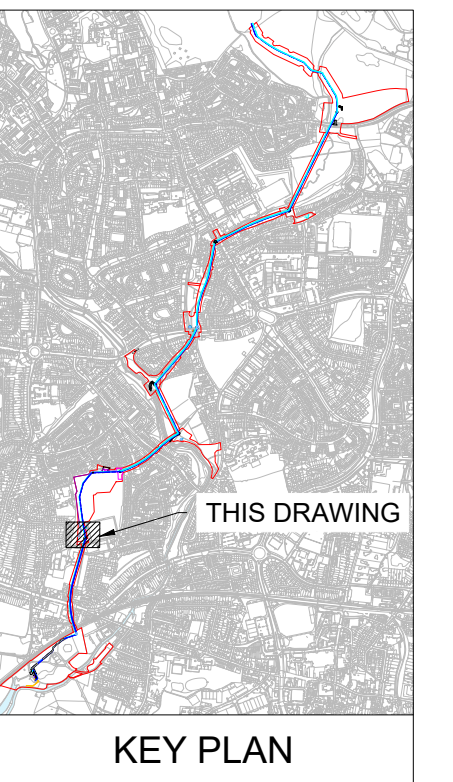
2.8 Site Compound W8

To be included in later revision.

Appendix A: Site Compound Layouts

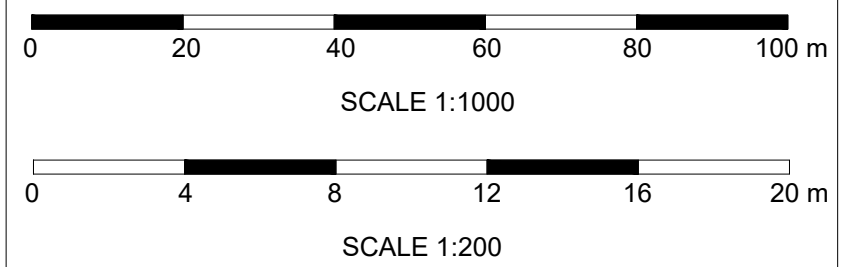


DETAIL A
SCALE 1:200



- Notes:
1. THE TEMPORARY SITE COMPOUND SHOWN IS FOR CONSTRUCTION OF SHAFT W2 AND SECTION P1 PIPELINES.
 2. FOR TEMPORARY SITE AREAS FOR CONSTRUCTION SECTION P2 OPEN CUT PIPELINES SEE HTR-WAB-PI-P2-DR-T-0002.
 3. FOR REINSTATEMENT SEE DRAWINGS: HTR-ATK-PL-XX-DR-L-0002 & HTR-ATK-PL-XX-DR-L-0003
 4. FOR ACCESS DETAIL SEE DRAWING: HTR-WAB-ZZ-ZZ-T-0004

- LEGEND:
- FILL PIPELINE
 - RETURN PIPELINE
 - CONSTRUCTION SITE HOARDING
 - ENHANCED SITE HOARDING / NOISE BARRIER
 - SITE FENCING
 - REDLINE BOUNDARY
 - SURFACE WATER DRAINAGE
 - RUGBY PITCH BOUNDARY
 - PUBLIC RIGHT OF WAY
 - PUBLIC RIGHT OF WAY CLOSURE
 - PROPOSED PUBLIC RIGHT OF WAY DIVERSION
 - FOOTPATH CLOSURE
 - PROPOSED FOOTPATH DIVERSION
 - HIGHWAYS MANAGED LAND BOUNDARY.
 - ROOT PROTECTION MATTING
 - CATEGORY A TREE
 - CATEGORY B TREE
 - CATEGORY U TREE
 - CATEGORY C TREE
 - ROOT PROTECTION AREA (RPA)



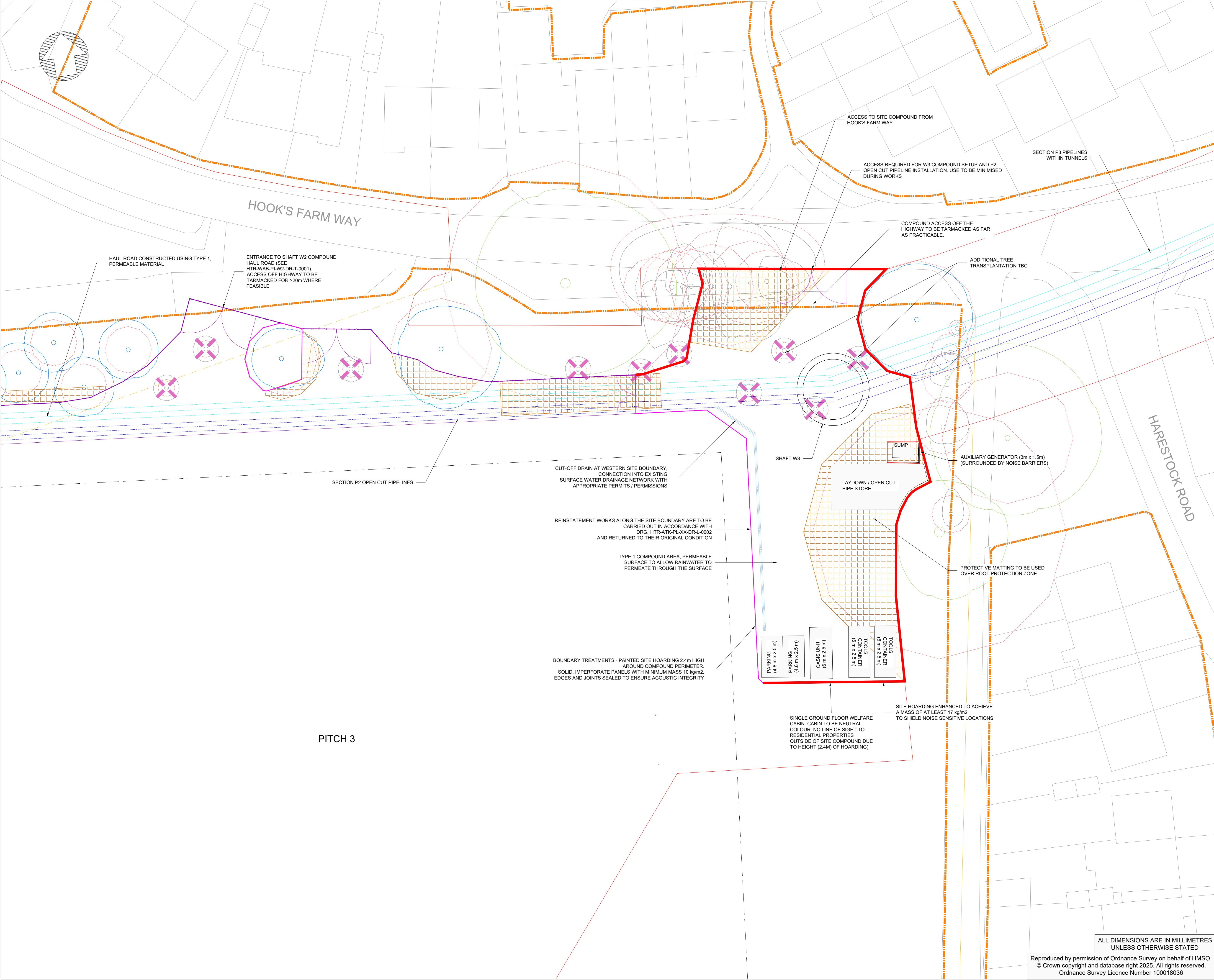
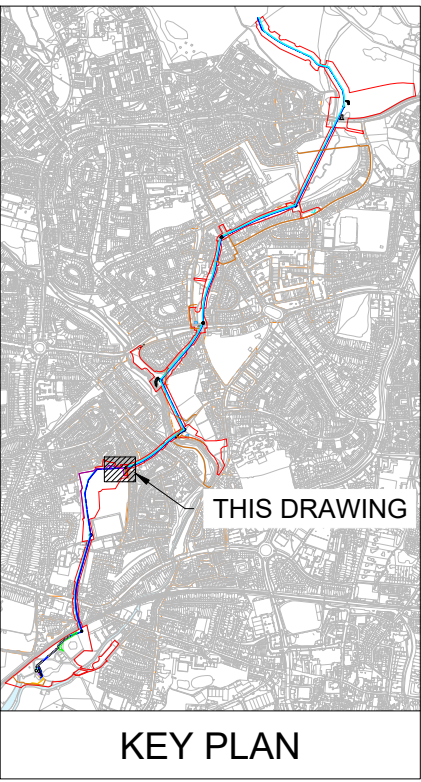
P08 A4	CK	TF	BC	FOR CONSTRUCTION APPROVAL	13/10/25
P07 A4	AS	BP	BC	FOR CONSTRUCTION APPROVAL	01/08/25
P06 A4	JT	BP	BC	MODIFICATION OF P2 PIPELINE ROUTE	13/09/24
Rev	Dm	Ckd	Apv	Description	Date
	By	By	By		

WARD & BURKE

Drawing Suitability:	FOR CONSTRUCTION APPROVAL	Status:	A4
Contractors Drawing Number:	HTR-WAB-PI-W2-DR-T-0001		
Telephone: Havant (023) 9249 9888 Fax: Havant (023) 9245 3632 Websites: www.portsmouthwater.co.uk Registered Office: PO Box 8 West Street Havant Hampshire PO9 1LG REGISTERED IN ENGLAND No. 2536455			
Date: 28/07/2025	Scale: 1:200	Sheet: 01 of 01	Sheet Size: A1
Project Title:	HAVANT THICKET RESERVOIR		
Drawing Title:	BEDHAMPTON TO HTR PIPELINE SHAFT W2 SITE COMPOUND LAYOUT		
Portsmouth Water Drawing Number:		Rev:	P08

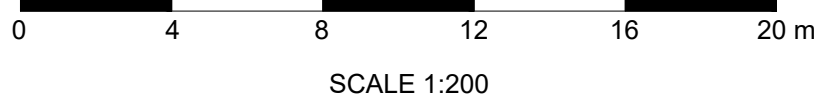
ALL DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE STATED

Reproduced by permission of Ordnance Survey on behalf of HMSO.
© Crown copyright and database right 2025. All rights reserved.
Ordnance Survey Licence Number 100018036



- Notes:
1. THE TEMPORARY SITE COMPOUND SHOWN IS FOR CONSTRUCTION OF SHAFT W3 AND SECTION P3 PIPELINES.
 2. FOR TEMPORARY SITE AREAS FOR CONSTRUCTION SECTION P2 OPEN CUT PIPELINES SEE HTR-WAB-PI-P2-DR-T-0002.
 3. TEMPORARY NETTING TO BE INSTALLED ALONG COMPOUND BOUNDARY AT PITCH 3 IF REQUIRED TO PREVENT BALLS ENTERING COMPOUND.
 4. REINSTATEMENT TO LTN1/20 AND HCC TG10 STANDARDS. SEE DRAWING HTR-ATK-PL-XX-DR-L-0003

- LEGEND
- FILL PIPELINE
 - RETURN PIPELINE
 - CONSTRUCTION SITE HOARDING
 - ENHANCED SITE HOARDING / NOISE BARRIER
 - SITE FENCING
 - SURFACE WATER DRAINAGE
 - REDLINE BOUNDARY
 - RUGBY PITCH BOUNDARY
 - PUBLIC RIGHT OF WAY
 - PUBLIC RIGHT OF WAY CLOSURE
 - PROPOSED PUBLIC RIGHT OF WAY DIVERSION
 - FOOTPATH CLOSURE
 - PROPOSED FOOTPATH DIVERSION
 - HIGHWAYS MANAGED LAND BOUNDARY
 - CATEGORY A TREE
 - CATEGORY B TREE
 - CATEGORY U TREE
 - CATEGORY C TREE
 - ROOT PROTECTION AREA
 - TREE TO BE TRANSPLANTED
 - TREE REMOVAL TO FACILITATE WORKS
 - ROOT PROTECTION MATTING



P08	CK	TF	BC	FOR CONSTRUCTION APPROVAL	13/10/25
P07	AS	BP	BC	REVISED PLANNING VERSION	01/08/25
P06	BP	BP	BC	REVISED PLANNING VERSION	30/10/24
Rev	Dm	Ckd	Apv	Description	Date

WARD & BURKE

Drawing Suitability:	Status:
FOR CONSTRUCTION APPROVAL	A4
Contractors Drawing Number:	
HTR-WAB-PI-W3-DR-T-0001	

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455



Date:	Scale:	Sheet:	Sheet Size:
30/10/24	1:200	01 of 01	A1

Project Title:	HAVANT THICKET RESERVOIR
----------------	--------------------------

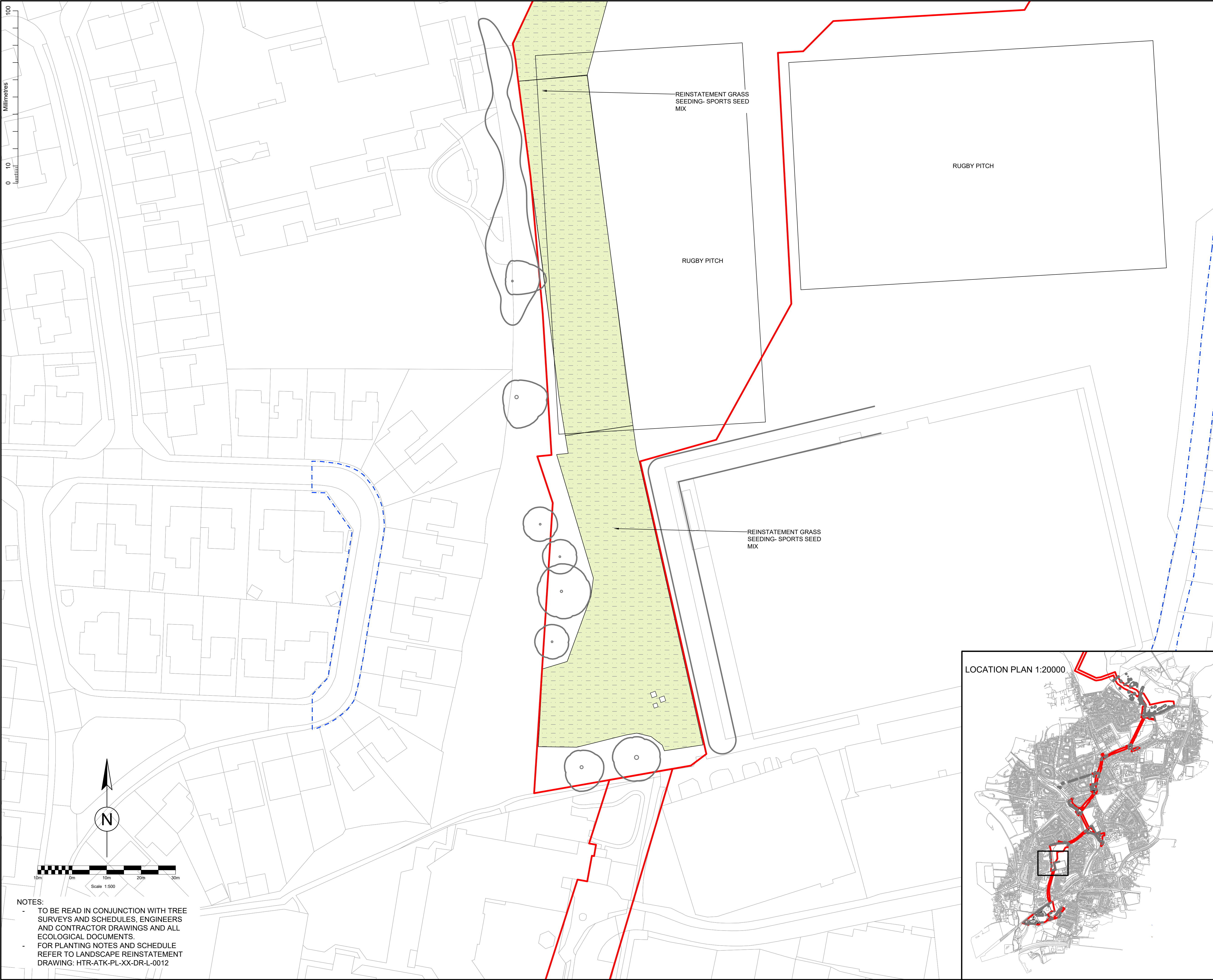
Drawing Title:	BEDHAMPTON TO HTR PIPELINE SHAFT W3 SITE COMPOUND LAYOUT
----------------	--

Portsmouth Water Drawing Number:	Rev:
	P08

ALL DIMENSIONS ARE IN MILLIMETRES
UNLESS OTHERWISE STATED

Reproduced by permission of Ordnance Survey on behalf of HMSO.
© Crown copyright and database right 2025. All rights reserved.
Ordnance Survey Licence Number 100018036

Appendix B: Reinstatement Plans



KEY

APPLICATION BOUNDARY

HIGHWAY BOUNDARY

TREES

EXISTING TREES TO BE RETAINED

PROPOSED TREES

MIXED SPECIES STANDARDS & FEATHERS

(EXACT PLANTING LOCATIONS TO BE CONFIRMED WITH HBC)

Ac = Acer campestre (Field Maple)

Ag = Alnus glutinosa (Alder)

Bpn = Betula pendula (Silver Birch)

Cm = Crataegus monogyna (Hawthorn)

Pn = Prunus avium (Wild Cherry)

Qr = Quercus robur (Oak)

Sa = Sorbus aucuparia (Rowan)

Sc = Salix caprea (Goat Willow)

Sf = Salix fragilis (Crack Willow)

Tc = Tilia cordata (Small leaved Lime)

TRANSLOCATED TREES

EXISTING TREES TO BE TRANSLOCATED

TO NEW PLANTING POSITION AS PER

ARBORICULTURAL METHOD AND

SPECIFICATION. NOTE FINAL PLANTING

LOCATIONS TO BE AGREED WITH HBC

GRASSLAND (PROPOSED)

AMENITY GRASS

G4 MODIFIED GRASSLAND, TO BE SEEDED

WITH AMENITY GRASS SEED MIXTURE

SPORTS GRASS

G4 MODIFIED GRASSLAND, TO BE SEEDED

WITH SPORTS GRASS SEED MIXTURE.

(AGRONOMY REPORT TO BE UNDERTAKEN TO

ESTABLISH THE EXISTING CONDITION OF THE SURFACE

AND CONFIRM THE PROPOSED REINSTATEMENT

RETURNS THE SURFACE TO THE SAME LEVEL)

SPECIES-RICH GRASS

G3C OTHER NEUTRAL GRASSLAND, TO BE

SEEDED WITH A SPECIES-RICH MEADOW

MIXTURE

SPECIES-RICH GRASS

G3C OTHER NEUTRAL GRASSLAND, TO BE

SEEDED USING A GREEN HAY METHOD, HAY

TO BE CUT FROM EXISTING GRASSLAND ON

SITE. AS PER ECOLOGISTS METHOD AND

INSTRUCTIONS

NATURAL REGENERATION

G3C OTHER NEUTRAL GRASSLAND, TOPSOIL

TO BE STRIPPED AND REINSTATED POST

WORKS. AREA TO NATURALLY REGENERATE

FROM SEED BANK IN SOIL & GRASSLAND

NEAR BY. ALTERNATIVELY TO BE SEEDED

WITH LOCALLY HARVESTED SEED, AS PER

ECOLOGISTS METHOD AND INSTRUCTIONS

TURF REMOVAL & REINSTATEMENT

G3C OTHER NEUTRAL GRASSLAND, TURF TO

BE STRIPPED AND STORED ON SITE, THEN

REINSTATED POST WORKS. AS PER

ECOLOGISTS METHOD AND INSTRUCTIONS

PLANTING (PROPOSED)

BROADLEAF WOODLAND

W1G OTHER BROADLEAVED WOODLAND,

PLANTING MIX OF TRANSPLANTS, FEATHERS

AND STANDARDS

WET WOODLAND

W1D WET WOODLAND, PLANTING MIX OF

TRANSPLANTS, FEATHERS AND STANDARDS,

TO BE UNDER PLANTED WITH PLUG GROUND

FLORA

MIXED SCRUB

H3H MIXED SCRUB, PLANTING MIX OF

TRANSPLANTS, WITH SOME FEATHERED AND

STANDARD TREES

DORMOUSE SCRUB

H3H MIXED SCRUB, PLANTING MIX OF

TRANSPLANTS, WITH SOME FEATHERED AND

STANDARD TREES

NATIVE HEDGE

H2A5 SPECIES-RICH NATIVE HEDGEROW,

PLANTING OF TRANSPLANTS TO GIVE >5

SPECIES PER 30M SECTION.

P07

JS

DB

DB

JF

BNG UPDATE

25/02/25

P06

JS

DB

DB

JF

UPDATED TO LATEST LAYOUTS

15/11/24

P05

JS

DB

DB

JF

HIGHWAY BOUNDARY ADDED

04/11/24

P04

JS

DB

DB

JF

UPDATED TO COMMENTS

08/08/24

P03

JS

DB

DB

JF

UPDATED TO COMMENTS

22/05/24

P02

JS

DB

DB

JF

UPDATED TO COMMENTS

15/05/24

Rev.

Stat

Dr

By

Ckd

By

Rev

By

Auth

By

Description

Date

AtkinsRéal

Two Chamberlain Square

Birmingham

West Midlands

B3 3AX

Tel: +44 (0)121 483 5757

Fax:

www.atkinsrealis.com

© AtkinsRéal (2024)

Drawing Suitability:

FOR INFORMATION

Status:

S2

Contractors Drawing Number:

HTR

-ATK- PL- XX -DR- L-

0002

Project

Originator

Volume

Location

Type

Role

Number

Telephone: Havant (023) 9249 9888

Fax: Havant (023) 9245 3632

Website: www.portsmouthwater.co.uk

Registered Office: PO Box 8 West Street

Havant Hampshire PO9 1LG

REGISTERED IN ENGLAND No. 2536455

Portsmouth Water

Project Ref. No:

HTR

Sheet:

2 of 12

Scale:

1:500

Sheet Size:

A1

Project Title:

HAVANT THICKET RESERVOIR

PIPELINE APPLICATION

Drawing Title:

LANDSCAPE

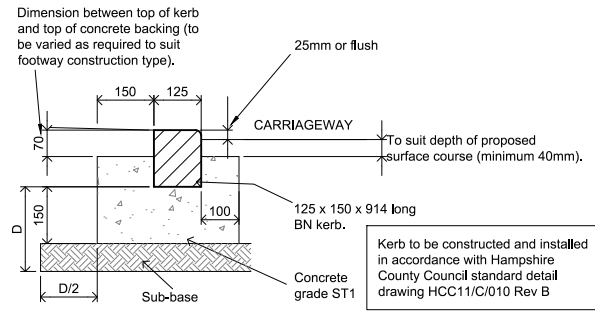
REINSTATEMENT PLAN

Portsmouth Water Drawing Number:

Rev:

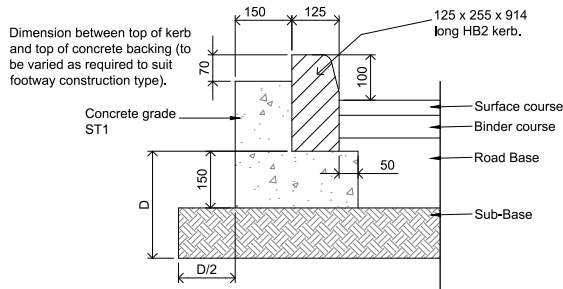
P07

Appendix C: S278 Technical Drawings



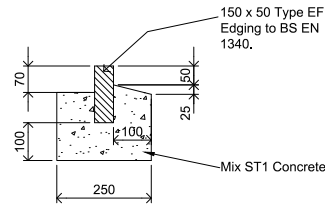
BN KERB DETAIL KERB TYPE PC3 (25 UPSTAND) KERB TYPE PC4 (FLUSH)

(Scale 1:10)



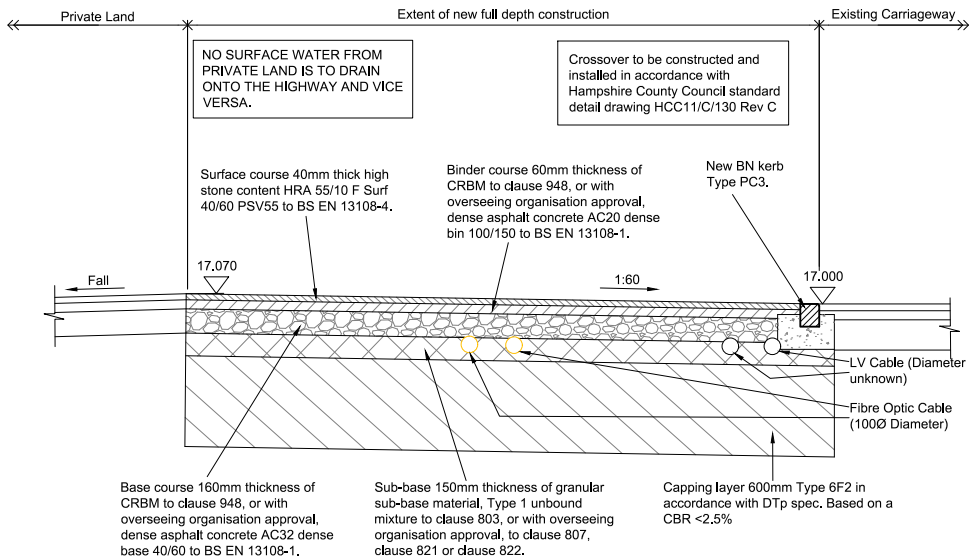
HB2 KERB DETAIL TYPE PC1

(Scale 1:10)



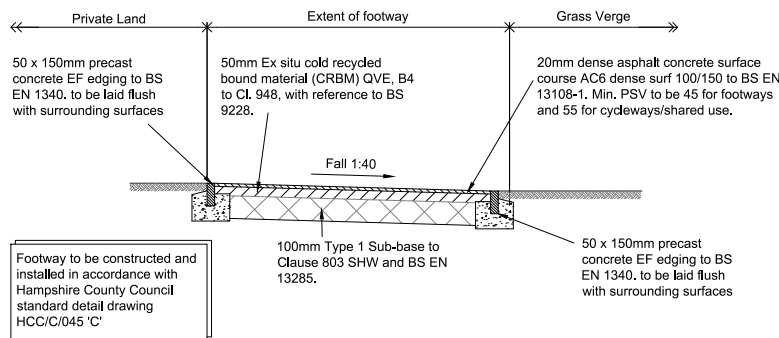
EF EDGING DETAIL

(Scale 1:10)



SECTION A - A

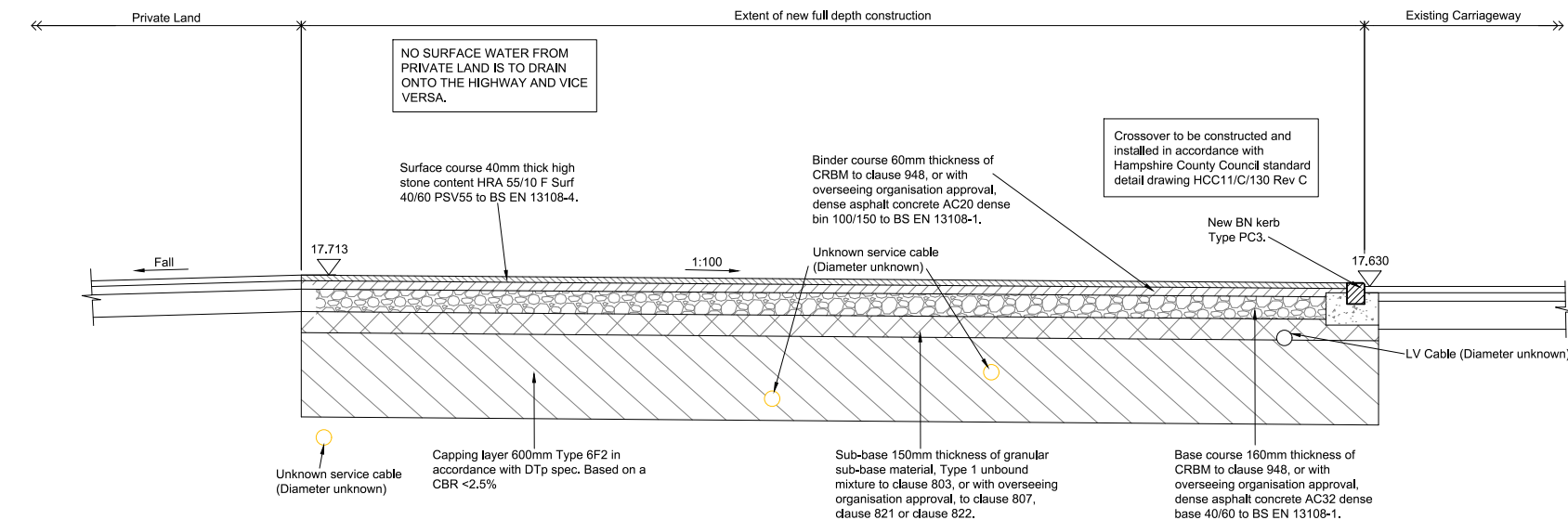
(Scale 1:25)



TYPICAL SECTION THROUGH REINSTATED FOOTWAY TYPE 1A

(Scale 1:25)

Grass seed mix for reinstated verge.	
DFL Seeds	PM 25 Gro-slow
Limagrain	PM 25R Gro-slow plus
Boston Seeds	PM 120 Slow growth
Barenburg	MM16
	Low maintenance grass seed
	e9 Mow saver



SECTION B - B

(Scale 1:25)

CBR	Minimum Capping Thickness	Minimum Sub-Base Thickness
Less than <2.5%	600mm	150mm
2.5-5.0%	-	350mm
5.0-15.0%	350mm	150mm
15.0-30.0%	-	225mm
Greater than >30.0%	-	150mm

MINIMUM SUB-GRADE AND CAPPING THICKNESS - TABLE 1

Notes

HIGHWAY WORKS NOTES

- For details of ground conditions refer to the relevant ground investigation report for the site. The Engineer shall be immediately notified of any variations to the reported ground conditions.
- The Contractor is to supply a full method statement for the traffic management and control of pedestrian routes. To be submitted and approved by the Highway Authority.
- The contractor shall undertake a condition survey of the existing Highway, footpaths and boundaries within the extent of the proposed highway works. Any damage caused by the Contractor to be made good to the Engineers and Highway Authority requirements.
- Services locations shown are approximate. Additional services may be located within the vicinity of the works in addition to those shown on the drawing.
- The contractor shall locate, identify and protect all existing services prior to the commencement of the works. Protective measures shall be undertaken in accordance with the utility providers requirements.
- The contractor is to ensure that the site area is secure at all times to prevent unauthorised access.
- The Contractor shall work within any planning or Highway Authority restriction with regard to working hours, noise regulations and any other limitations that may apply.
- The Contractor shall allow full and free access to the works for the Local Authority, Highway Authority and Drainage Authority personnel for the purpose of inspecting the works.
- All highway works are to be undertaken in accordance with the requirements of the Specification for Highway Works and the Local Authority Design Guide.
- Prior to importation of fill materials, a representative sample, together with a grading certificate shall be delivered to site for inspection by the Engineer.
- Following acceptance, imported material shall be laid and compacted, according to its classification, in accordance with the requirements of the Specification for Highway Works.
- All materials within 450mm of the finished road levels to be non-frost susceptible.
- Limestone or Basalt aggregate will not be permitted in the wearing course.
- All CBR testing of sub-formation, formation and testing of construction materials is to be undertaken in accordance with the Local Authority and the Engineers requirements. Testing to be undertaken by a NAMAS approved geotechnical laboratory.
- All obstructions, old foundations etc. shall be removed and backfilled with Type 1 granular material.
- All formations shall be proof rolled and any subsequent soft spots excavated and backfilled with Type 1 granular material.
- Any damage caused to existing footways, roads or other third party property to be made good to the Engineers Requirements.
- All drainage works are to be undertaken in accordance with sewers for adoption (latest edition).
- Existing manhole and chamber covers to be raised or lowered to suit proposed levels.
- Cover levels shown are approximate, Contractor to position covers level with adjacent proposed levels.
- Any disused pipes, must be filled with well-graded granular fill. Well-graded granular material must also be used for the infill of isolated pockets such as old sumps or basement voids. Redundant pipes or ducts under the carriageway must be removed if they lie within a depth of 1.0m below the formation, or they show evidence of collapse.

PRELIMINARY - NOT FOR CONSTRUCTION

P02 Preliminary	Updated following comments from HCC.	JRM	JRM	JRM	20.02.26
Rev.	Amendment	JRM	JRM	JRM	07.02.26
Project		Dirn	Chkd	Appd	Date

Havant Thicket Reservoir
Bedhampton to HTR Pipeline
Temporary Access for Shafts 2 and 3
Drawing

Section and Details

Client
Ward & Burke

	Civil and SuDS Solutions Limited Martin House, 19 Southdown Road, Carshalton, Surrey, SM5 4LT T +44 07475 758188 E jm@caass-limited.co.uk
--	--

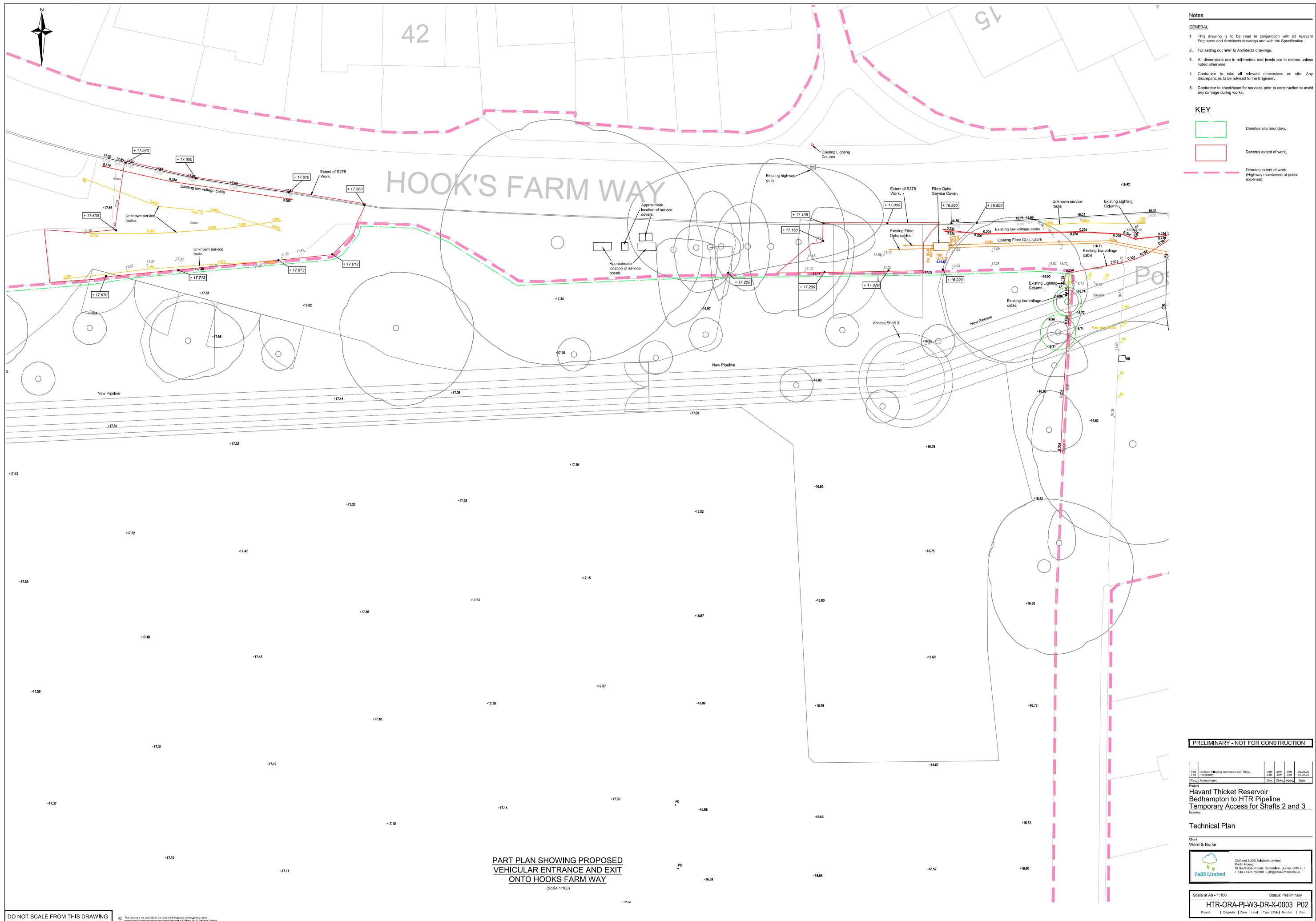
Scale at A1 - 1:As Indicated Status: Preliminary

HTR-ORA-PI-W3-DR-X-0001 P02

Project | Originator | Zone | Level | Type | Role | Number | Rev.

DO NOT SCALE FROM THIS DRAWING

This drawing is the copyright of Civil and SuDS Solutions Limited. It may not be reproduced or amended without the written approval of Civil and SuDS Solutions Limited.



Notes

GENERAL

1. This drawing is to be read in conjunction with all relevant Engineers and Architects drawings and with the Specification.
2. For setting out refer to Architects drawings.
3. All dimensions are in millimetres and levels are in metres unless noted otherwise.
4. Contractor to take all relevant dimensions on site. Any discrepancies to be advised to the Engineer.
5. Contractor to check/scan for services prior to construction to avoid any damage during works.

KEY

- Denotes site boundary.
- Denotes extent of work.
- Denotes extent of work (highway maintained at public expense).

PRELIMINARY - NOT FOR CONSTRUCTION

PI02	Updated following comments from HCC.	JRM	JRM	JRM	20.02.20
PI01	Preliminary	JRM	JRM	JRM	07.02.20
Drawn	Approved/checked	Drawn	Checked	Approved	Date

Project
Havant Thicket Reservoir
Bedhampton to HTR Pipeline
Temporary Access for Shafts 2 and 3
Drawing

Technical Plan

Client
Ward & Burke



Scale at A0 - 1:100

Status: Preliminary

HTR-ORA-PI-W3-DR-X-0003 P02
Project | Originator | Zone | Level | Type | Date | Number | Rev.

DO NOT SCALE FROM THIS DRAWING

This drawing is the copyright of CaSS Limited. It may not be reproduced or amended without the written approval of CaSS Limited.

PART PLAN SHOWING PROPOSED
VEHICULAR ENTRANCE AND EXIT
ONTO HOOKS FARM WAY
(Scale 1:100)

