

M25 junction 28 improvement scheme

TR010029

2.8 Engineering drawings and sections

APFP Regulation 5(2)(o) and Regulation 6(2)
Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M25 junction 28 scheme Development Consent Order 202[x]

2.8 ENGINEERING DRAWINGS AND SECTIONS

| | |
|--|---|
| Regulation Number: | Regulation 5(2)(o) and Regulation 6(2)(a) and 6(2)(b) |
| Planning Inspectorate Scheme Reference: | TR010029 |
| Application Document Reference: | TR010029/APP/2.8 |
| Author: | M25 junction 28 improvement scheme project team, Highways England |

| Version | Date | Status of Version |
|----------------|-------------|--------------------------|
| 0 | May 2020 | Application issue |

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1. Introduction

- 1.1.1 Highways England (the “Applicant”) has applied to the Secretary of State for a Development Consent (“DCO”) to authorise a scheme for alterations to the M25 junction 28 (the “Scheme”). The application is submitted to the Planning Inspectorate (the “Inspectorate”) in accordance with section 37 of the Planning Act 2008 (the “2008 Act”).
- 1.1.2 This document comprises part of the suite of application documents and is submitted in compliance with Regulations 5(2)(o), 6(2)(a) and 6(2)(b) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, which require:
- 5(2)(o) ‘any other plans, drawings and sections necessary to describe the proposals for which development is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping’.*
- 6(2) ‘If the application is for highway related development or for the construction or alteration of a railway, it must be accompanied by section drawings to suitable horizontal and vertical scales, which show, by reference to Ordnance Survey or Chart datum*
- (a) the levels of the proposed works, including in particular and where relevant*
- (i) ground levels;*
 - (ii) the height of every proposed bridge, viaduct, aqueduct, embankment and elevated guideway;*
 - (iii) the depth of every proposed cutting and tunnel;*
 - (iv) the levels of the bed of any tidal waters or inland waterway in which it is proposed that any works should be situated;*
 - (v) the height of every structure or device (including a cable, but not catenary and related equipment) intended to be erected above, on or below the surface of, or on or beneath the bed of tidal waters or an inland waterway; and*
 - (vi) drainage outfall details for highways.*
- (b) a cross section of every intended tunnel and any altered gradient of a carriageway or a way forming part of a guided transport system on either side of every level crossing, bridge, tunnel or underpass which would carry the carriageway or way or through which it would pass.’*
- 1.1.3 This document should be read alongside and is informed by other application documents, in particular, Schedule 1 to the draft DCO (application document TR010029/APP/3.1) (which lists the works for which consent is sought) and the Works plans (application document TR010029/APP/2.3) and the Scheme layout plans (application document TR010029/APP/2.7).

2. Schedule of plans included in this application document

| Document title | Document number | Version |
|--|------------------|---------|
| Engineering sections Typical cross sections key plan Regulations 5(2)(o) and 6(2) | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Section location plan Sheet 1 of 4 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Section location plan Sheet 2 of 4 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Section location plan Sheet 3 of 4 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Section location plan Sheet 4 of 4 | TR010029/APP/2.8 | 0 |
| Engineering sections Typical cross sections Regulations 5(2)(o) and 6(2) Sheet 1 of 6 | TR010029/APP/2.8 | 0 |
| Engineering sections Typical cross sections Regulations 5(2)(o) and 6(2) Sheet 2 of 6 | TR010029/APP/2.8 | 0 |
| Engineering sections Typical cross sections Regulations 5(2) and 6(2) Sheet 3 of 6 | TR010029/APP/2.8 | 0 |
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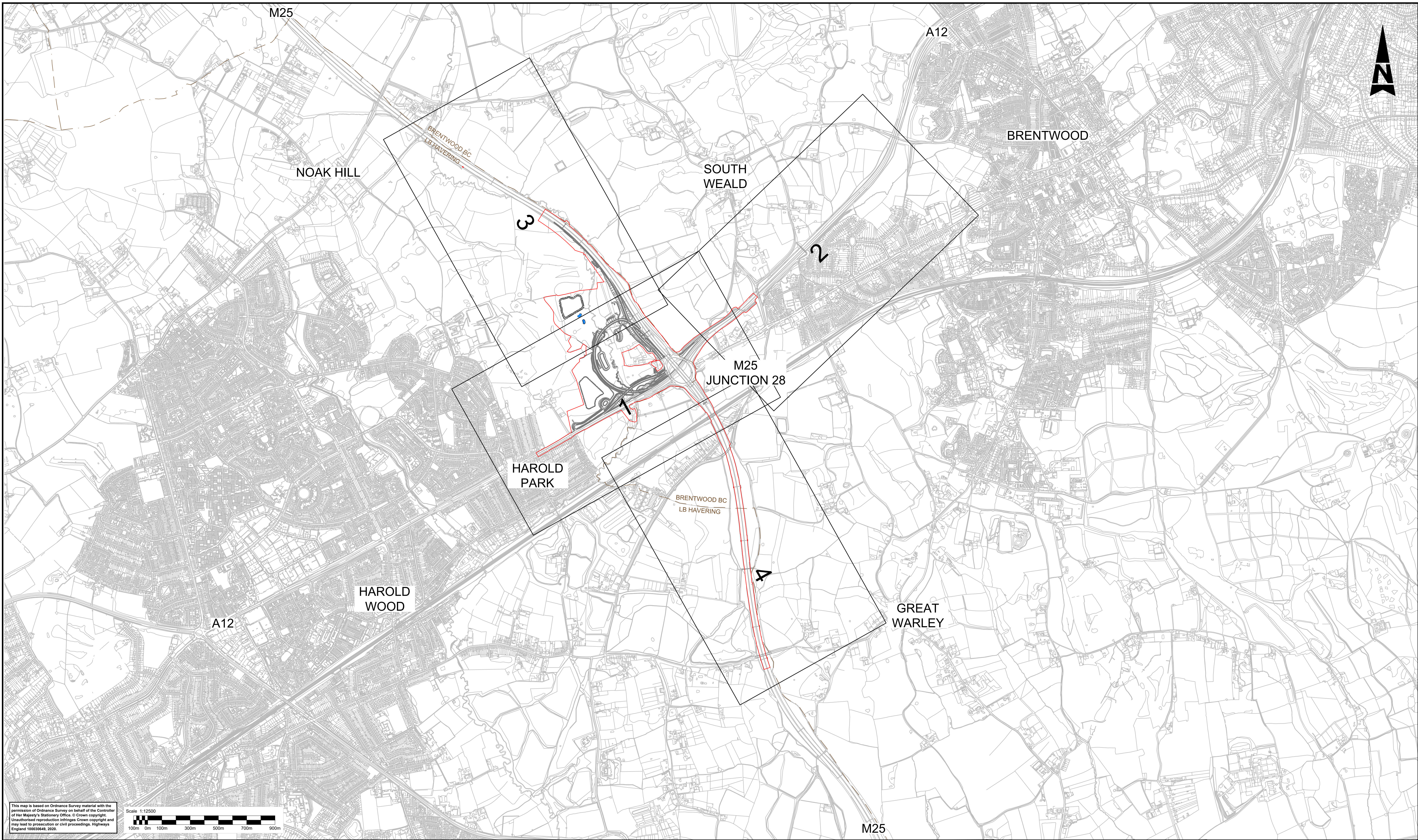
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| Typical cross sections Regulations 5(2)(o) and 6(2) Sheet 5 of 6 | | |
| Engineering sections Typical cross sections Regulations 5(2)(o) and 6(2) Sheet 6 of 6 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Key plans | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 1 of 4 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 2 of 4 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 3 of 4 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2)(b) Sheet 4 of 4 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 1 of 10 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 2 of 10 | TR010029/APP/2.8 | 0 |
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| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 7 of 10 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 8 of 10 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 9 of 10 | TR010029/APP/2.8 | 0 |
| Longitudinal section Regulations 5(2)(o) and 6(2) Sheet 10 of 10 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Alder Wood bridge Sheet 1 of 10 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Duck Wood bridge Sheet 2 of 10 | TR010029/APP/2.8 | 0 |
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| Engineering sections Regulations 5(2)(o) and 6(2) Maylands bridge Sheet 5 of 10 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Proposed ads cantilever gantry at CH 530 Sheet 6 of 10 | TR010029/APP/2.8 | 0 |
| Engineering sections Regulations 5(2)(o) and 6(2) Gantry at CH 740 Sheet 7 of 10 | TR010029/APP/2.8 | 0 |

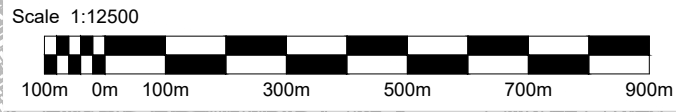
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| Engineering sections Regulations 5(2)(o) and 6(2) Gantry at CH 1806 Sheet 8 of 10 | TR010029/APP/2.8 | 0 |
| Engineering section Regulations 5(2)(o) and 6(2) Typical headwall Sheet 9 of 10 | TR010029/APP/2.8 | 0 |
| Engineering section Regulations 5(2)(o) and 6(2) Typical headwall Sheet 10 of 10 | TR010029/APP/2.8 | 0 |

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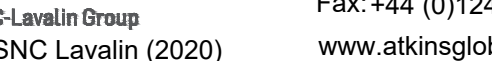
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— LOCAL AUTHORITY BOUNDARY

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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title | | |
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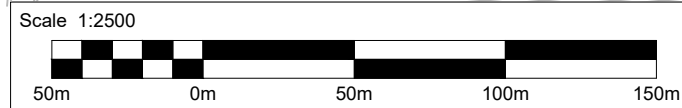
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FOR CONTINUATION REFER TO SHEET 3

FOR CONTINUATION REFER TO SHEET 2

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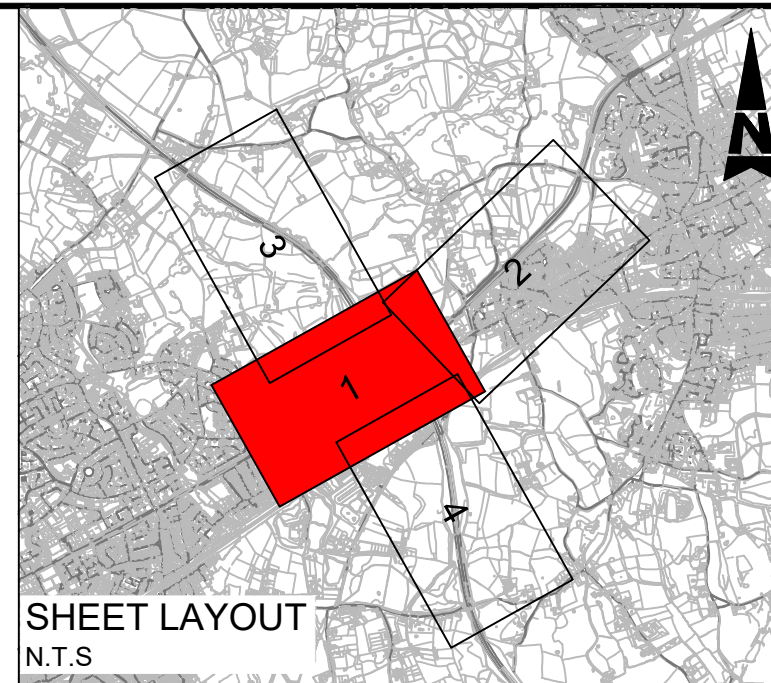


NOTES:



- All dimensions are in metres unless otherwise stated.
- Do not scale from this drawing.
- For cross sections details refer to the following sheets.
A-A - Sheet 1 of 6
B-B - Sheet 1 of 6
C-C - Sheet 2 of 6
D-D - Sheet 2 of 6
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N-N - Sheet 5 of 6
O-O - Sheet 6 of 6
P-P - Sheet 6 of 6

KEY :

- Development Consent Order (DCO) boundary
- Proposed boundary
- Existing bridge
- Proposed bridge
- Proposed retaining wall
- Typical cross-section
- Proposed pre-earthwork ditch
- Realigned watercourse

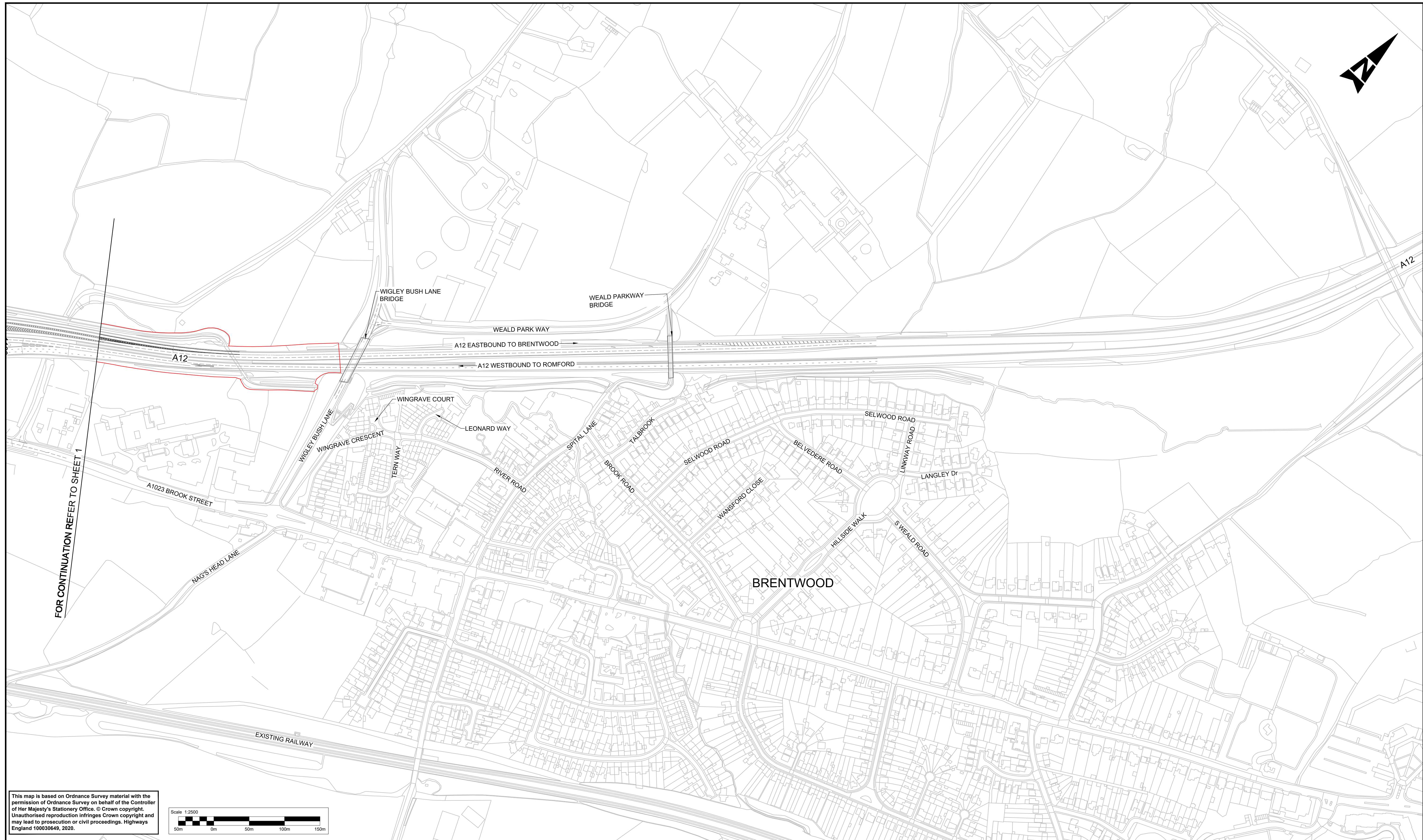


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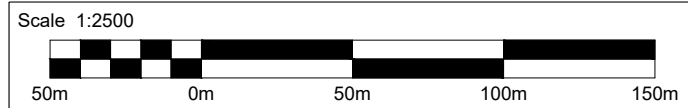
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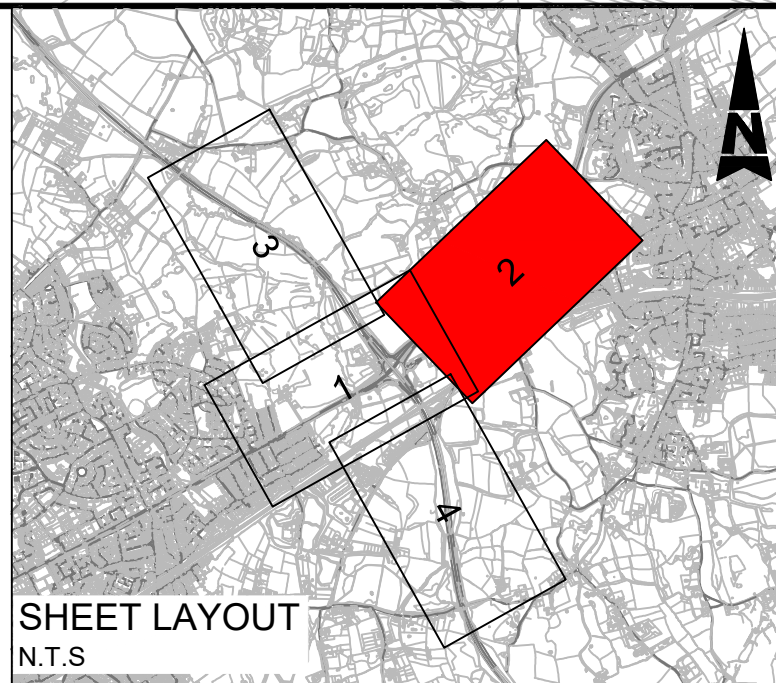


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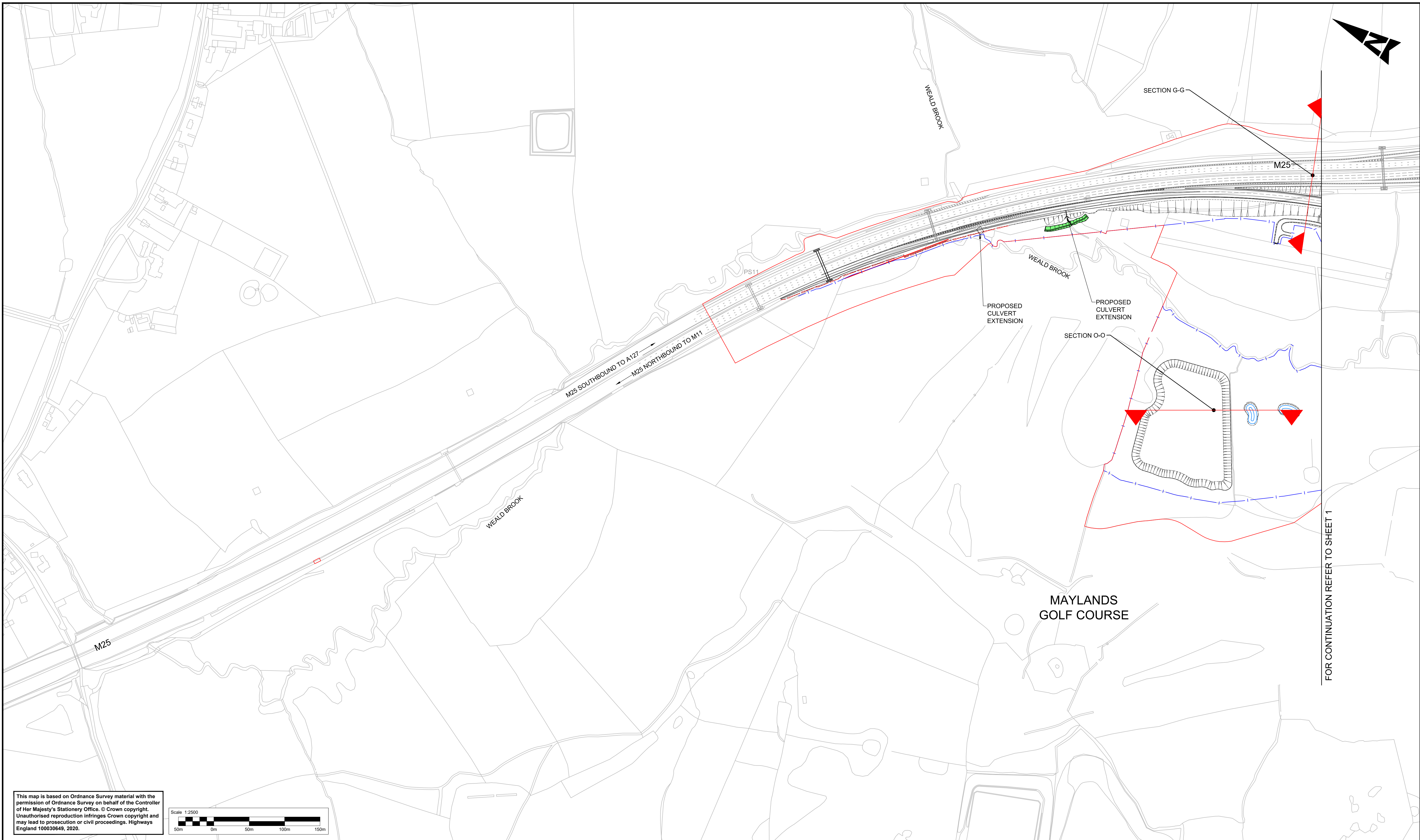


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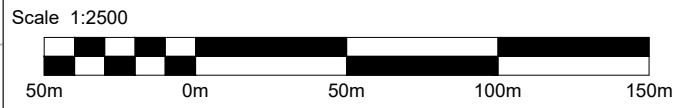
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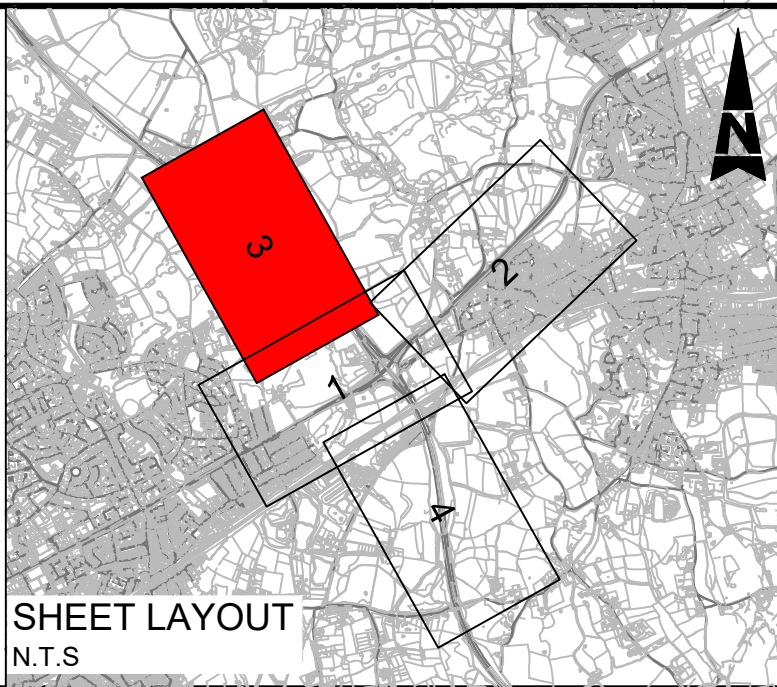


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- Typical cross-section
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- Realigned watercourse



| Description | | | | | | |
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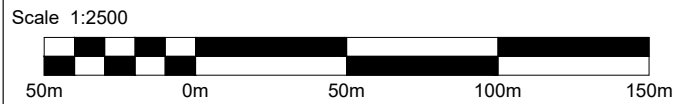
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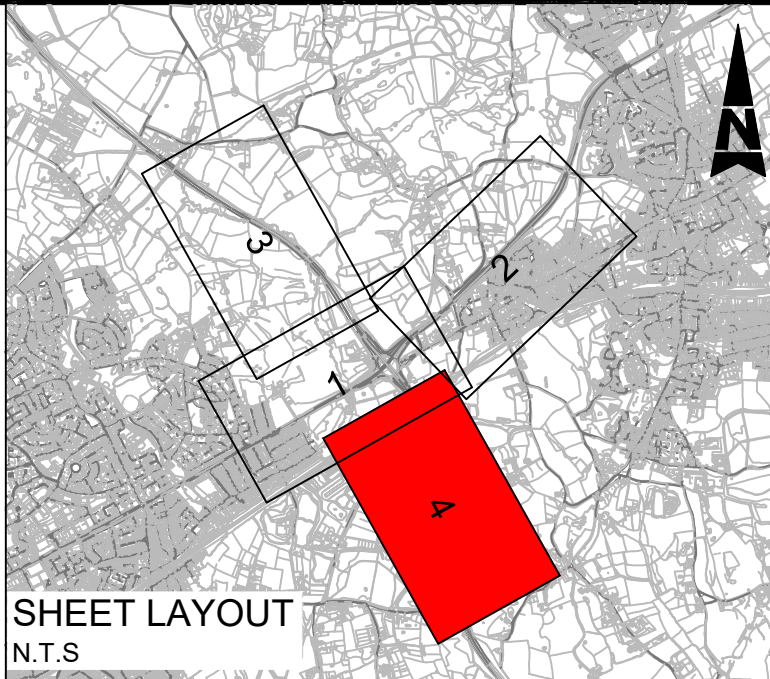


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KEY :

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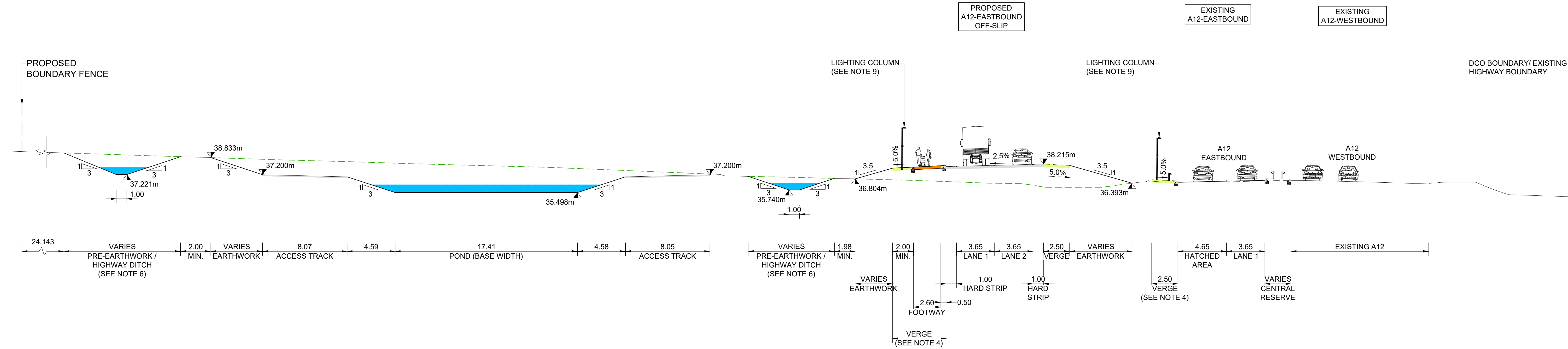
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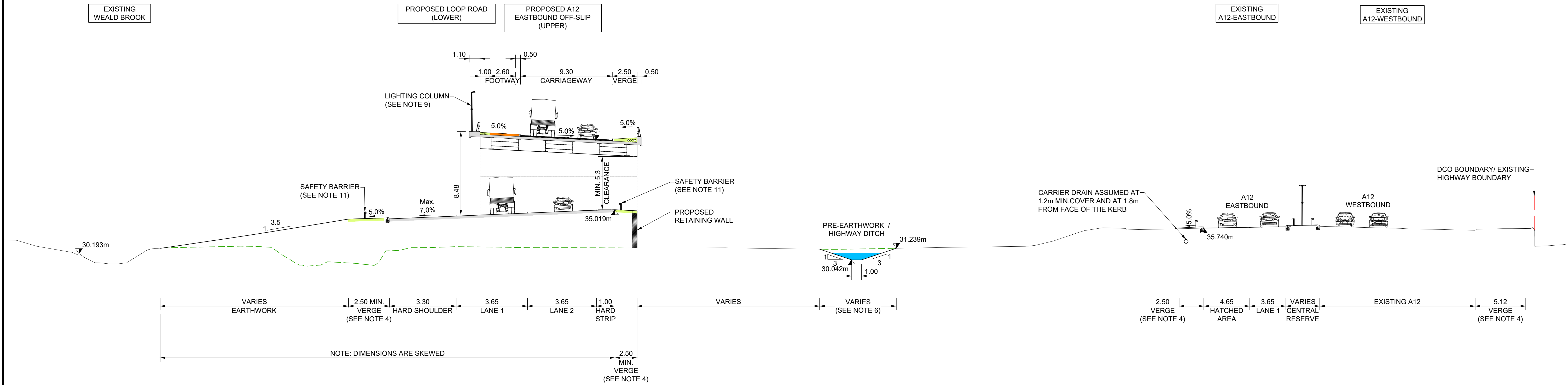
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| | | | | |
| Client Working on behalf of  highways england | | Drawing Number | | Rev. |
| | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: 1:2500 | Original Size: A1 | |

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PROPOSED CROSS-SECTION OF A12 EASTBOUND OFF-SLIP ROAD AT CHAINAGE 260
SECTION A-A
Scale 1:200



PROPOSED CROSS-SECTION OF A12 EASTBOUND OFF-SLIP ROAD AT CHAINAGE 430
SECTION B-B
Scale 1:200

- NOTES:**
- All dimensions are in metres unless otherwise stated.
 - Refer to Works Plans (Application document reference TR010029/APP/2.3).
 - Cross falls shown are typical.
 - Verge width dimensions will vary to accommodate utilities and road furniture wherever required.
 - Road furniture and protective works are indicative only. All vehicle restraint systems to be confirmed.
 - Drainage details shown are indicative only.
 - Kerbs location to be decided based on drainage requirements wherever necessary.
 - Bridge elements shown are indicative only.
 - Lighting columns shown are indicative only.
 - Utilities plant not shown.
 - Safety barrier type shown is indicative and subject to design development.
 - Existing dimensions are approximate / indicative only.

KEY:

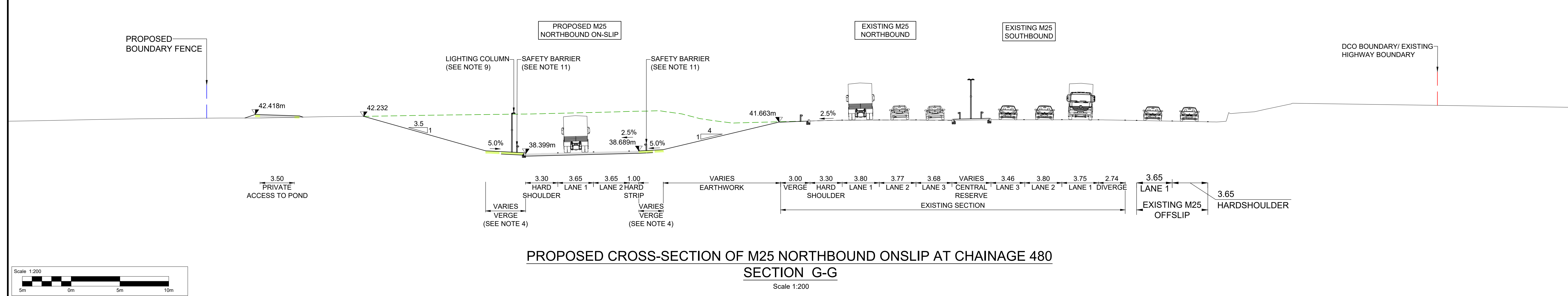
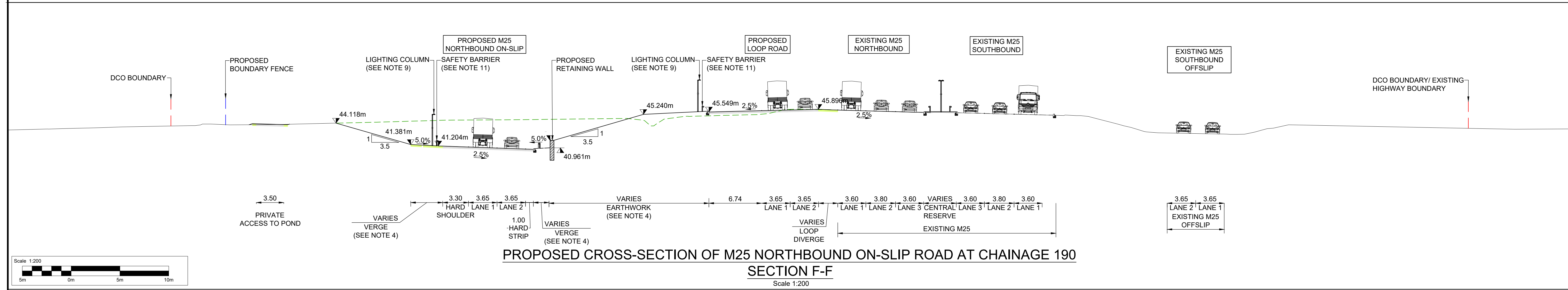
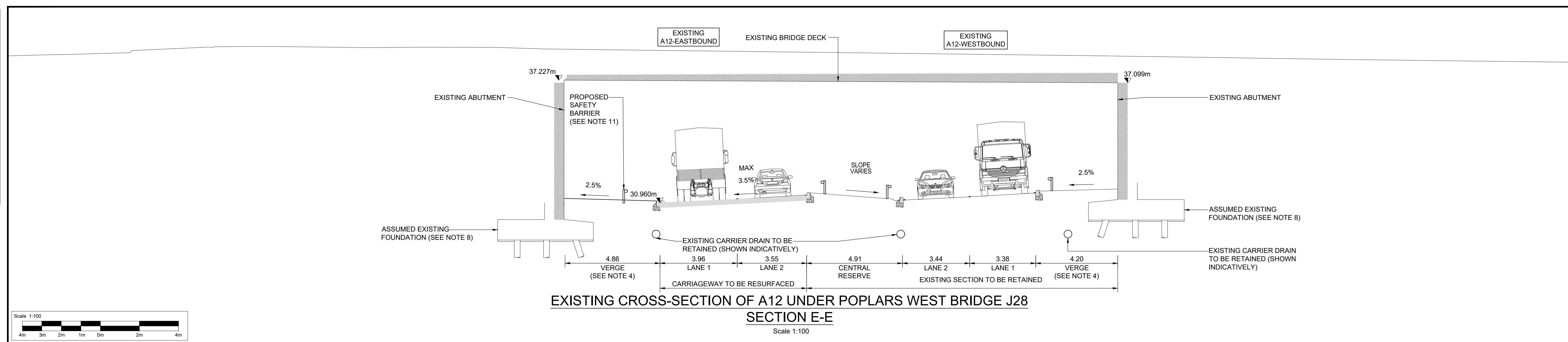
- Proposed verge
- Proposed carriageway/access
- Proposed footway
- Proposed ditch/watercourse
- Existing ground level to be modified
- DCO boundary/ Existing highway boundary
- Proposed boundary fence

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | | | |
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| | | ENGINEERING SECTIONS TYPICAL CROSS SECTIONS REGULATION 5(2)(o) AND 6(2) SHEET 1 OF 6 | | | | |
| Client | | Drawing Number | | Rev. | | |
| Working on behalf of | | TR010029/APP/2.8 | | 0 | | |
| HE PIN: HE551519 | | Scale: AS SHOWN | Original Size: A1 | | | |

DO NOT SCALE

100
0 10
Millimetres



NOTES:

- All dimensions are in metres unless otherwise stated.
- Refer to Works Plans (Application document reference TR010029/APP/2.3).
- Cross falls shown are typical.
- Verge width dimensions will vary to accommodate utilities and road furniture wherever required.
- Road furniture and protective works are indicative only. All vehicle restraint systems to be confirmed.
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- Lighting columns shown are indicative only.
- Utilities plant not shown.
- Safety barrier type shown is indicative and subject to design development.
- Existing dimensions are approximate / indicative only.

KEY:

- Proposed verge
- Proposed carriageway/access
- Proposed footway
- Proposed ditch/watercourse
- Existing ground level to be modified
- DCO boundary/ Existing highway boundary
- Proposed boundary fence

| Description | Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Description | | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | |
| Description | | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | |

Drawing Suitability

DCO APPLICATION

Status **A4**

Project Title **M25 junction 28 improvement scheme**

Drawing Title **ENGINEERING SECTIONS
TYPICAL CROSS SECTIONS
REGULATION 5(2)(o) AND 6(2)
SHEET 3 OF 6**

Client **Working on behalf of
highways
england**

HE PIN: HE551519 Scale: AS SHOWN Original Size: **A1**

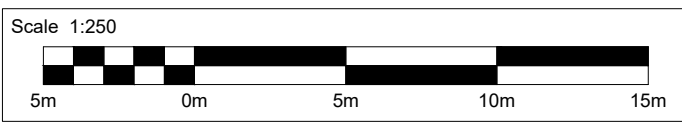
Amclin House
Atkins 4th Floor
90-96 Victoria Road
Chelmsford
Essex CM1 1QU
Tel: +44 (0)1245 245245
Fax: +44 (0)1245 345010
www.atkinsglobal.com

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Rev: **0**

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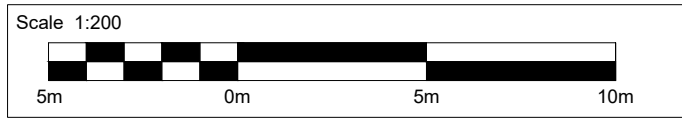
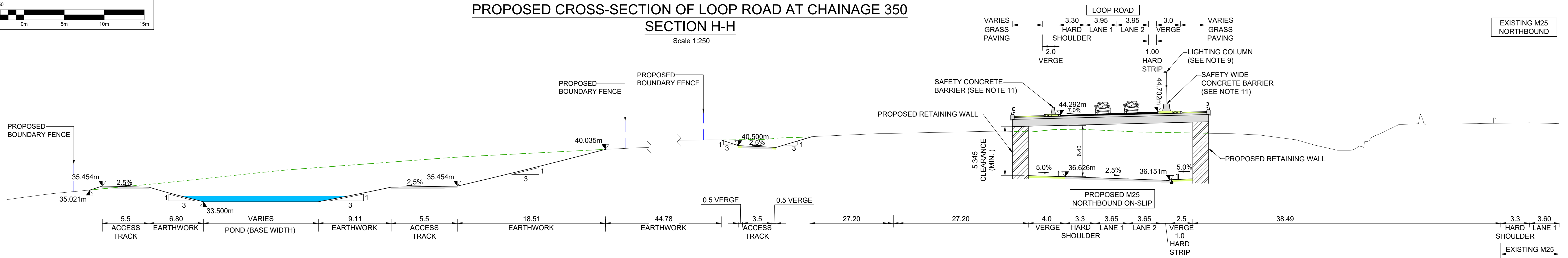
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PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 350

SECTION H-H

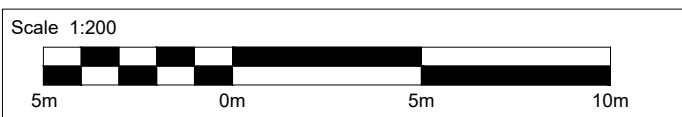
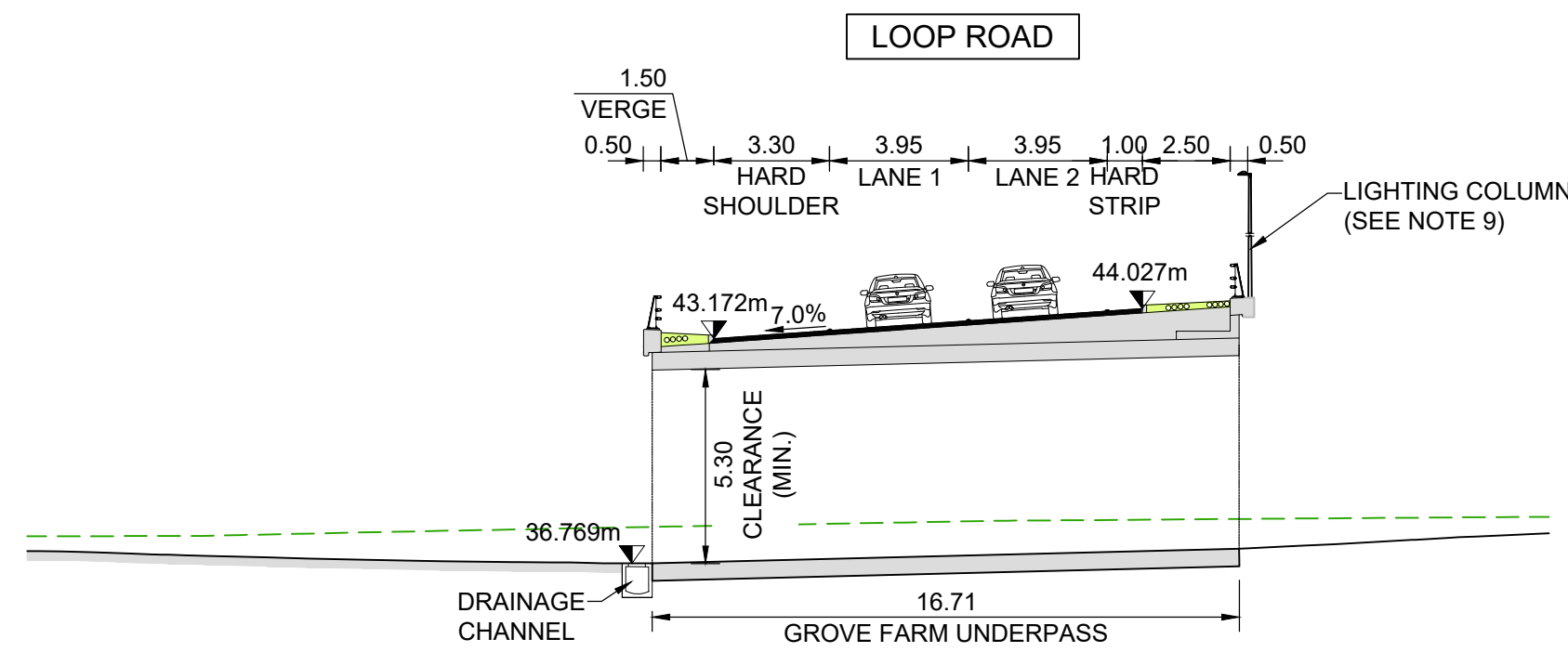
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PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 435

SECTION I-I

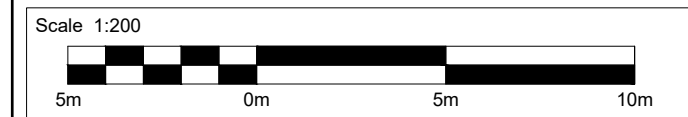
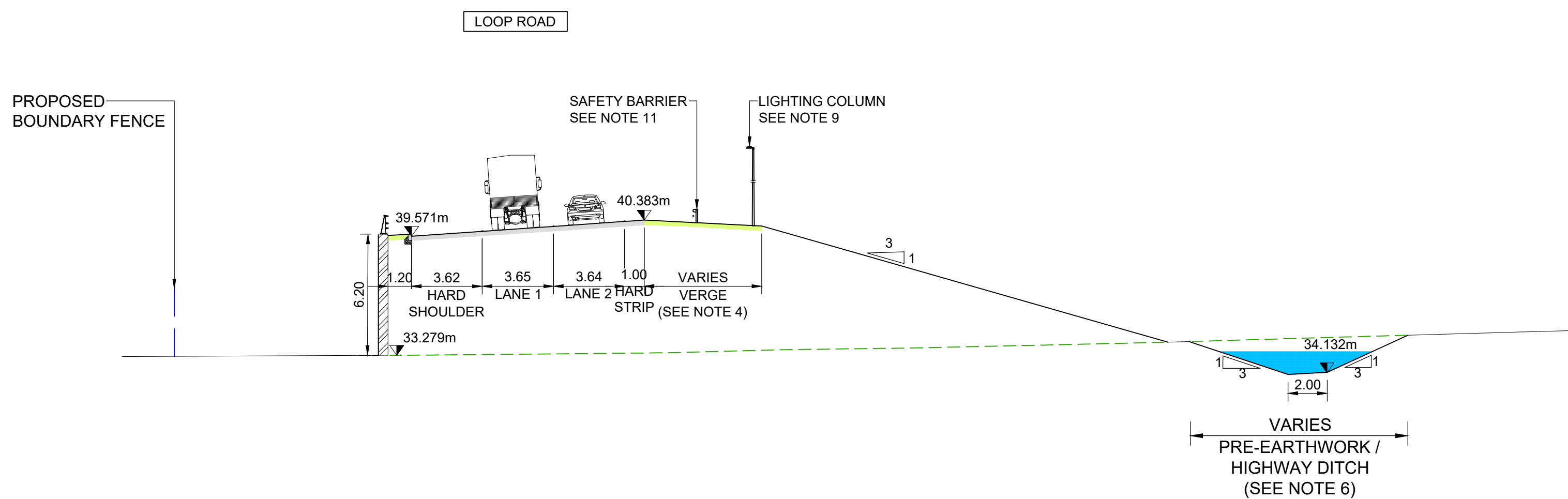
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PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 480

SECTION J-J

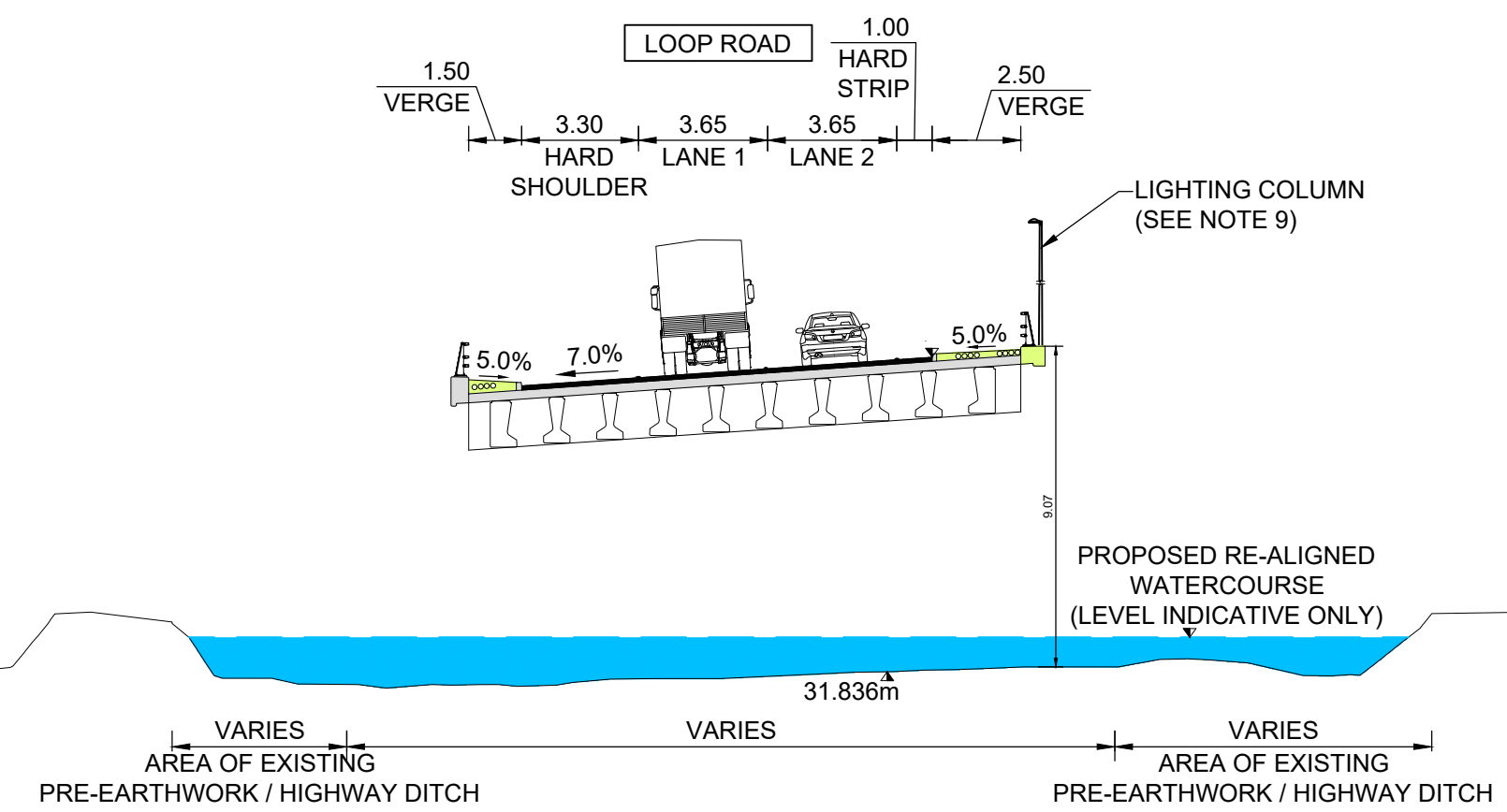
Scale 1:200



PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 560

SECTION K-K

Scale 1:200





NOTES:

- All dimensions are in metres unless otherwise stated.
- Refer to Works Plans (Application document reference TR010029/APP/2.3).
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- Bridge elements shown are indicative only.
- Lighting columns shown are indicative only.
- Utilities plant not shown.
- Safety barrier type shown is indicative and subject to design development.
- Existing dimensions are approximate / indicative only.

KEY:

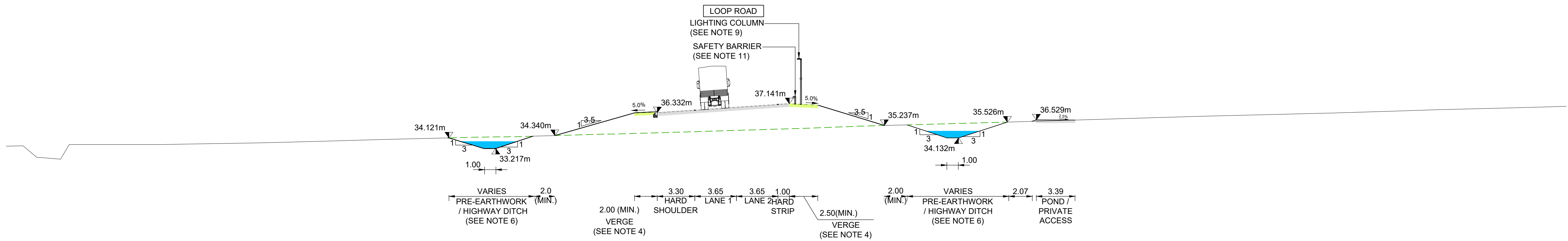
- Proposed verge
- Proposed carriageway/access
- Proposed footway
- Proposed ditch/watercourse
- Existing ground level to be modified
- DCO boundary/ Existing highway boundary
- Proposed boundary fence

| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
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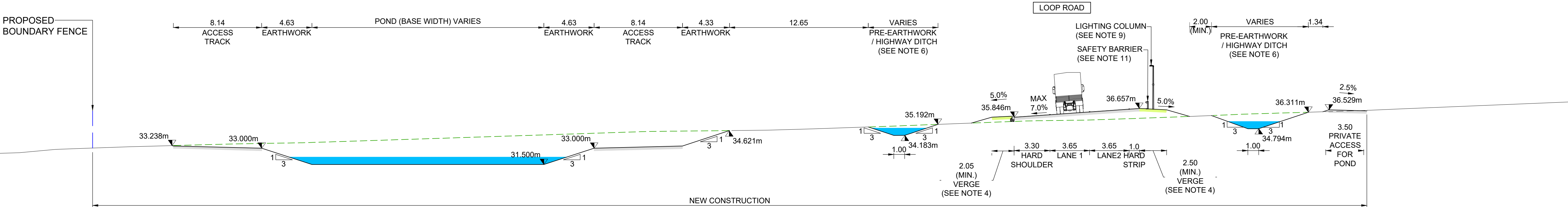
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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC-LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title ENGINEERING SECTIONS TYPICAL CROSS SECTIONS REGULATION 5(2)(o) AND 6(2) SHEET 4 OF 6 |
| Client  | | Drawing Number TR010029/APP/2.8 | | Rev. 0 |
| | | HE PIN: HE551519 | | Scale: AS SHOWN |
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DO NOT SCALE

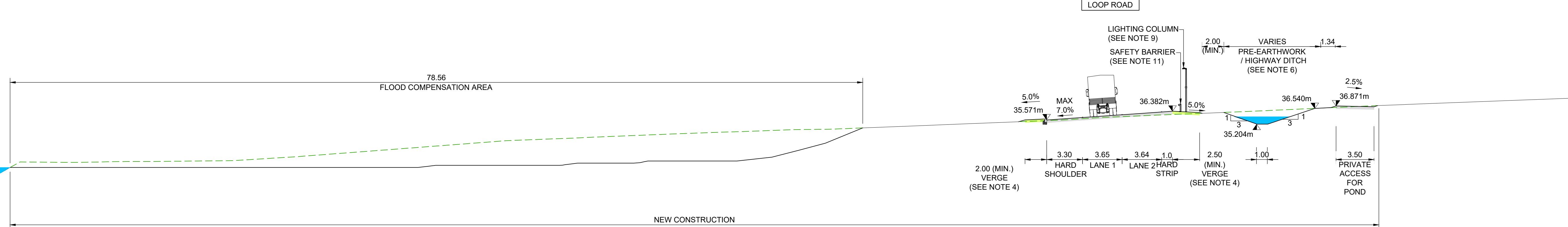
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PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 650
SECTION L-L
Scale 1:200



PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 820
SECTION M-M
Scale 1:200



PROPOSED CROSS-SECTION OF LOOP ROAD AT CHAINAGE 990
SECTION N-N
Scale 1:200

- NOTES:
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KEY:

- Proposed verge
- Proposed carriageway/access
- Proposed footway
- Proposed ditch/watercourse
- Existing ground level to be modified
- DCO boundary/ Existing highway boundary
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| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Drawing Suitability | | Status | Project Title | | | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | | | |
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| Client | | Drawing Number | | Rev. | | |
| Working on behalf of | | TR010029/APP/2.8 | | 0 | | |
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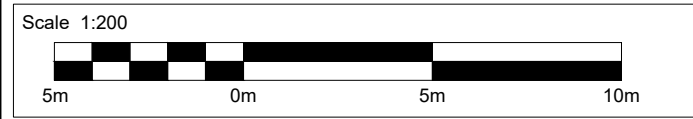
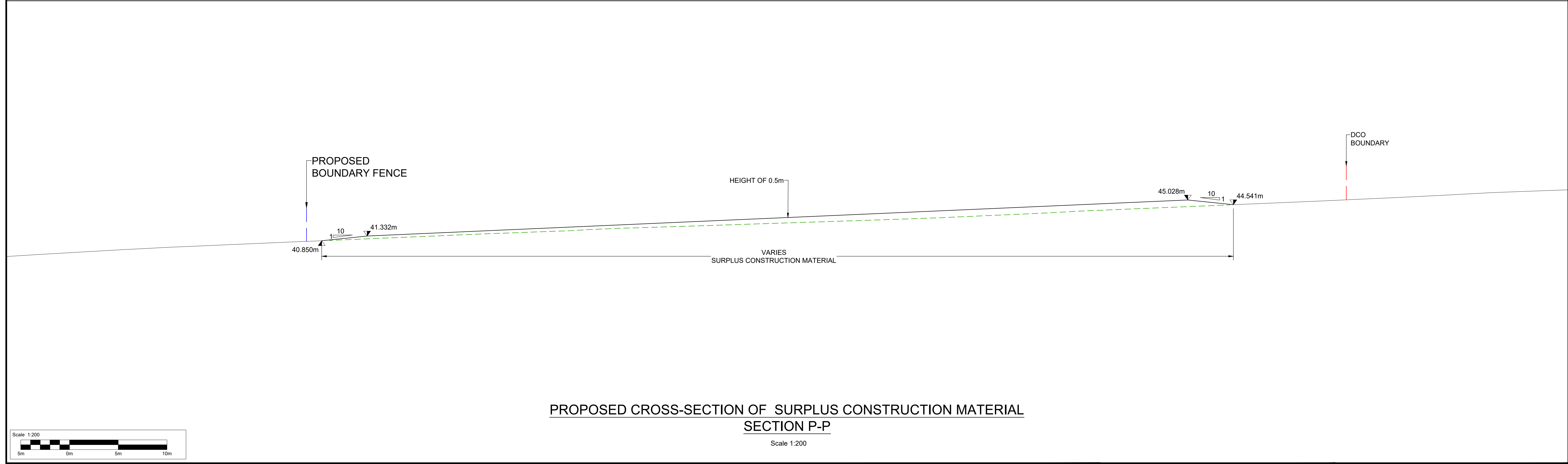
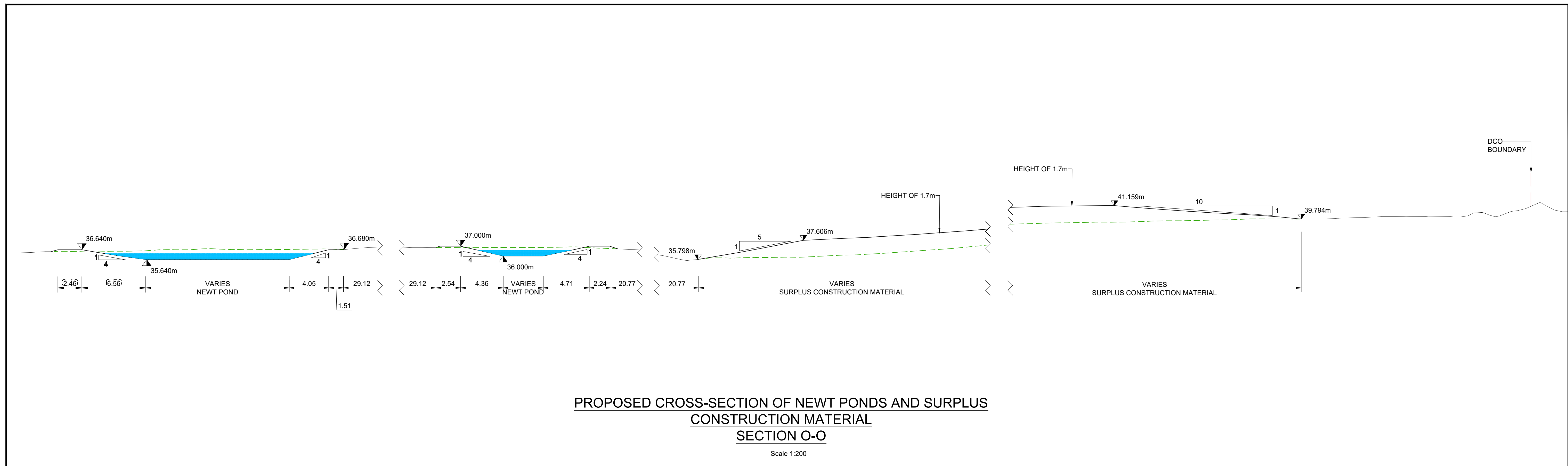
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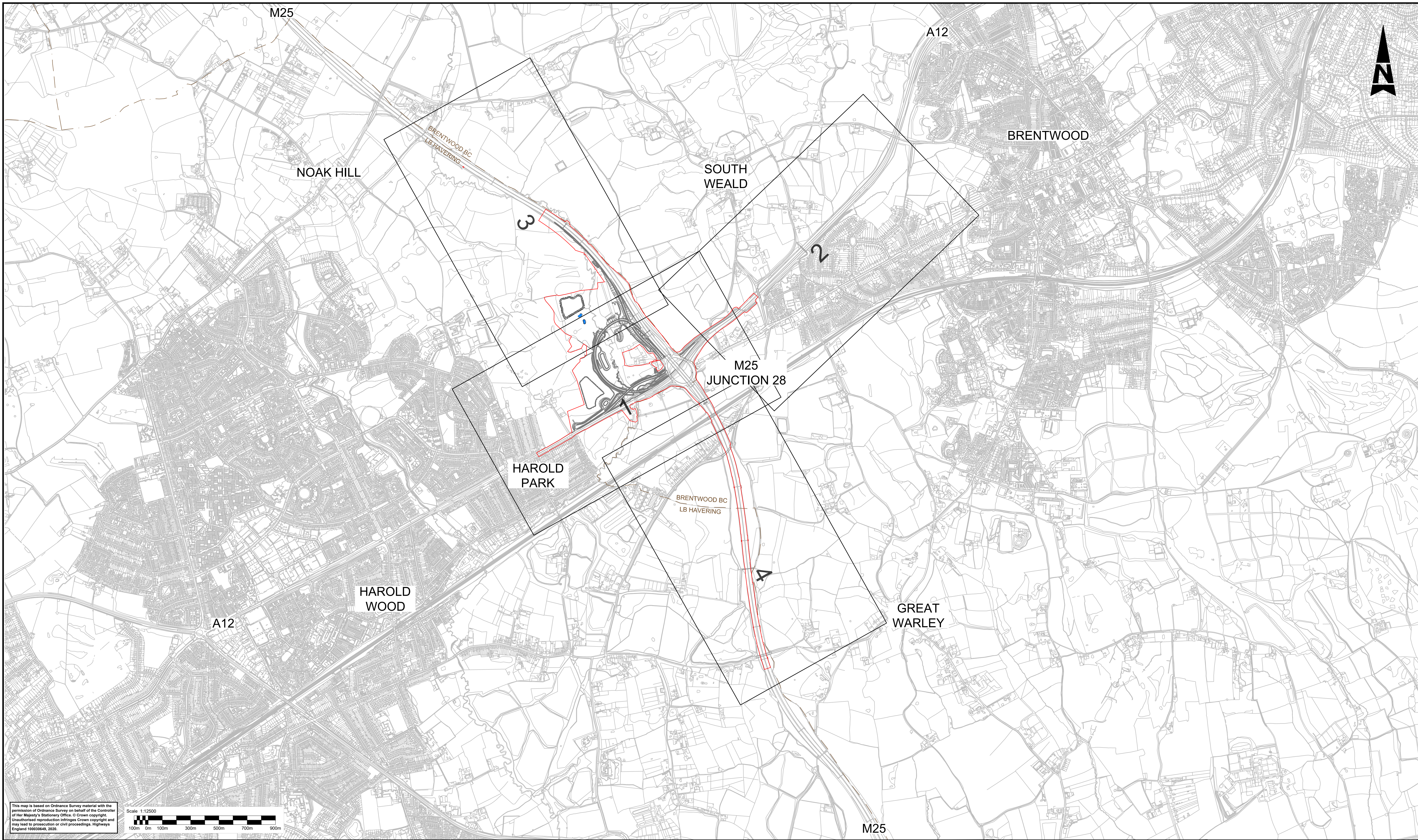
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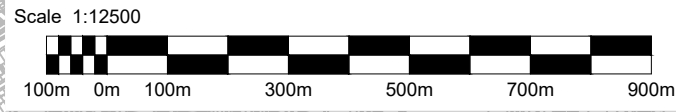
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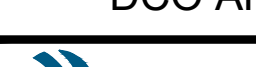

LEGEND:

2

SHEET NUMBER FOR WORKS IN THIS AREA

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- LOCAL AUTHORITY BOUNDARY

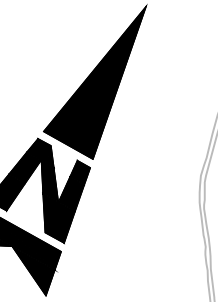
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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
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| Client | | Drawing Number | | Rev. |
| Working on behalf of  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: 1:12500 | | Original Size: A1 |

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Millimetres

FOR CONTINUATION REFER TO SHEET 3



MAYLANDS GOLF COURSE

M25 J28 LOOP ROAD

DUCK WOOD BRIDGE

GROVE FARM UNDERPASS

ALDER WOOD BRIDGE

WEALD BROOK

M25 NORTHBOUND ON-SLIP

GROVE FARM

M25 SOUTHBOUND OFF-SLIP

A12 EASTBOUND ON-SLIP

INGREBOURNE RIVER

BROOK STREET VIADUCT

MAYLANDS BRIDGE

A12 EASTBOUND OFF-SLIP

A12 EASTBOUND TO BRENTWOOD

A12 WESTBOUND TO ROMFORD

HAROLD PARK

HOMEWAY

COLCHESTER ROAD

WILLOW WAY

THE PARADE

MAYLANDS WAY

HAROLD COURT ROAD

THURSO CLOSE

PETERSFIELD AVENUE

FAIRFORD CLOSE

FAIRFORD WAY

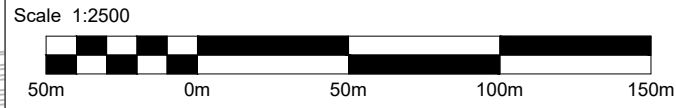
KENILWORTH AVENUE

WOODSTOCK AVENUE

FOR CONTINUATION REFER TO SHEET 4

FOR CONTINUATION REFER TO SHEET 2

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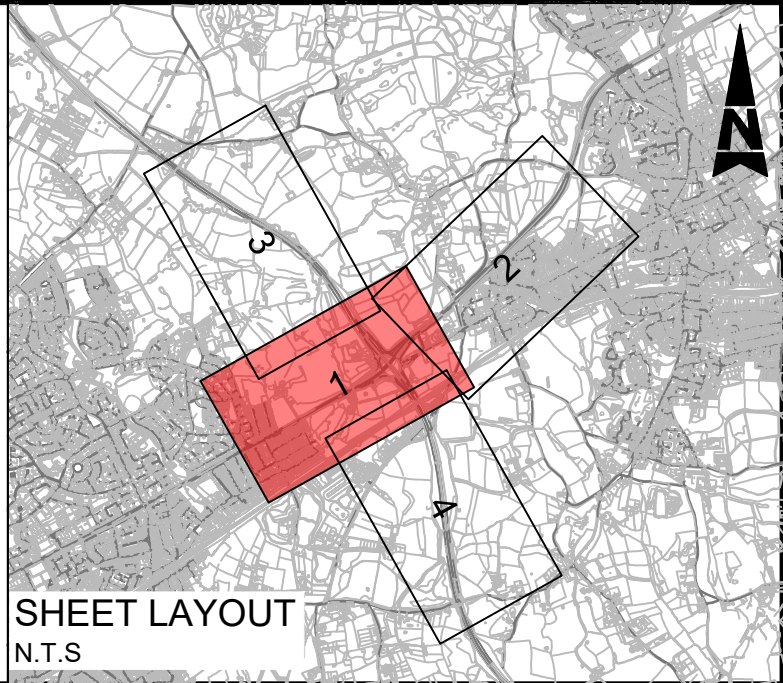


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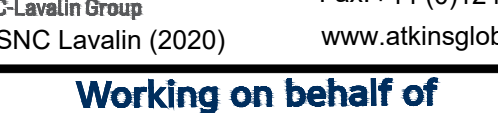
- These plans should be read in conjunction with the Longitudinal Section drawings (application document reference TR010029/APP/2.8).
- These plans should be read in conjunction with the Engineering Section drawings (application document reference TR010029/APP/2.8).

Legend:

- Development Consent Order (DCO) boundary
- Scheme layout (shown for illustrative purposes)
- A12 Mainline Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 1 to 3
- A12 Eastbound Off-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 4 to 5
- A12 Eastbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 6
- M25 Northbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 7 to 8
- M25 J28 Loop Road Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 9 to 11



| Description | | | | | | |
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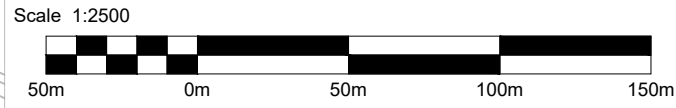
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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
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| Client | | Drawing Number | | Rev: |
|  Working on behalf of highways england | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: 1:2500 | | Original Size: A1 |

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Notes



- These plans should be read in conjunction with the Longitudinal Section drawings (application document reference TR010029/APP/2.8).
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Legend:

- Development Consent Order (DCO) boundary
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- A12 Mainline Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 1 to 3
- A12 Eastbound Off-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 4 to 5
- A12 Eastbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 6
- M25 Northbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 7 to 8
- M25 J28 Loop Road Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 9 to 11

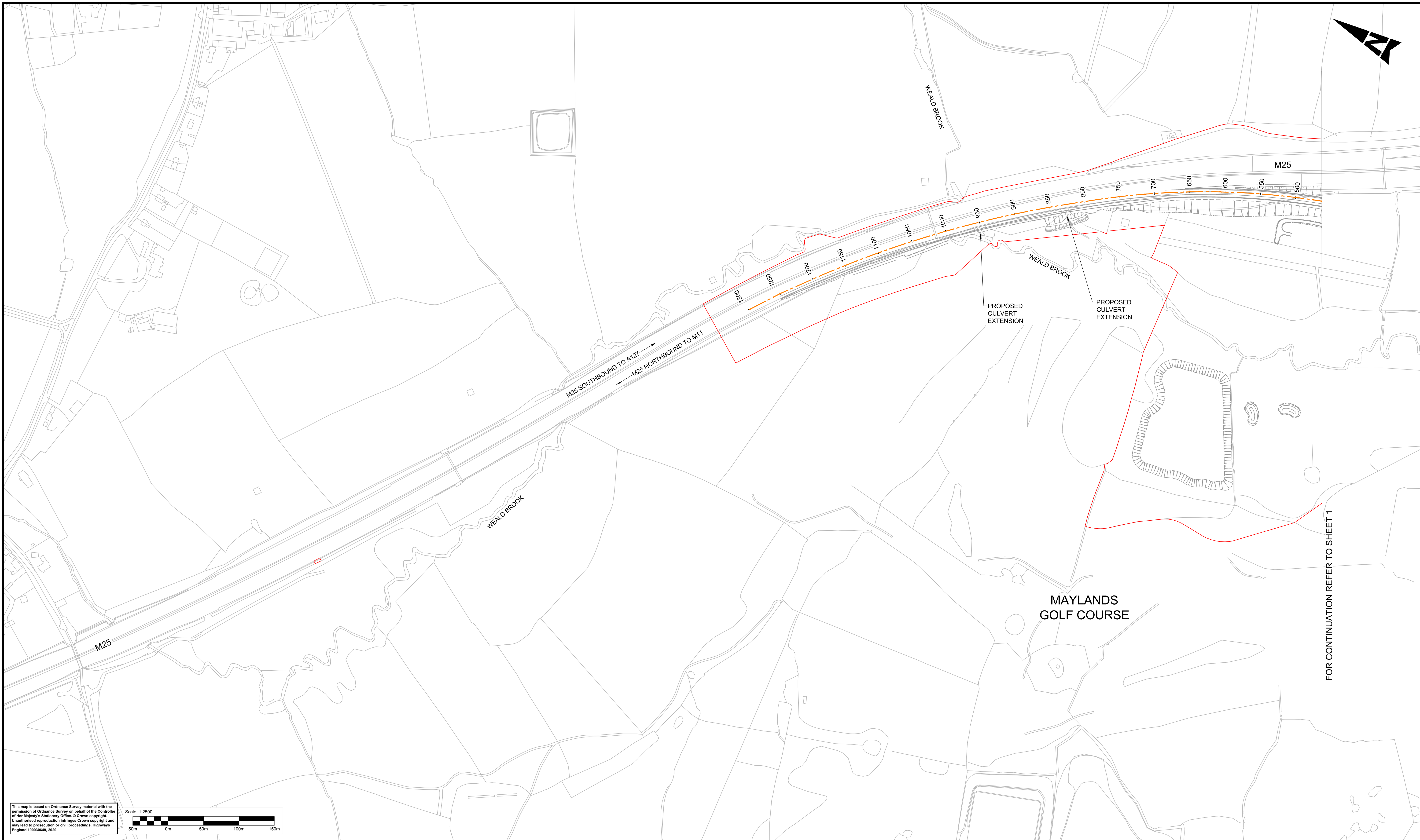


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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
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| Client | Working on behalf of  | | Drawing Number | Rev. |
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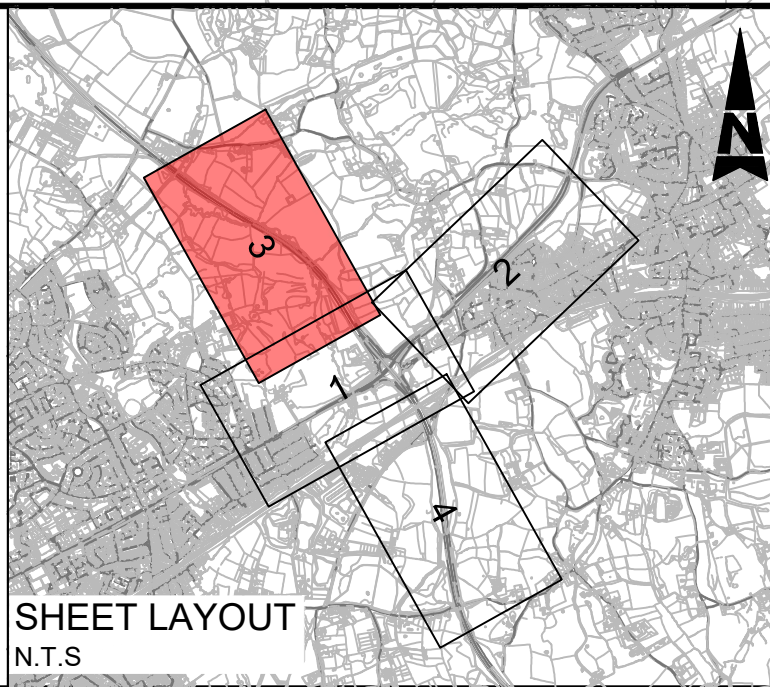
DO NOT SCALE

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- Notes**
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 - These plans should be read in conjunction with the Engineering Section drawings (application document reference TR010029/APP/2.8).

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 - A12 Mainline Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 1 to 3
 - A12 Eastbound Off-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 4 to 5
 - A12 Eastbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 6
 - M25 Northbound On-Slip Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 7 to 8
 - M25 J28 Loop Road Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 9 to 11



| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| | | LONGITUDINAL SECTION REGULATIONS 5(2)(o) AND 6(2) SECTION LOCATION PLAN SHEET 3 OF 4 | | |
| Client | | Drawing Number | | Rev. |
| Working on behalf of  highways england | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: 1:2500 | | Original Size: A1 |

DO NOT SCALE

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Millimetres

FOR CONTINUATION REFER TO SHEET 1

WAY LINE

POPLARS RAILWAY BRIDGE

NAGS HEAD LANE BRIDGE

NAGS HEAD LANE

BOYLESS COURT BRIDGE

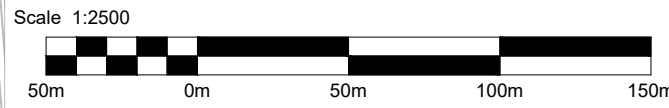
M25 SOUTHBOUND TO A127
M25 NORTHBOUND TO M11

WARLEY ROAD BRIDGE

WARLEY ROAD

M25

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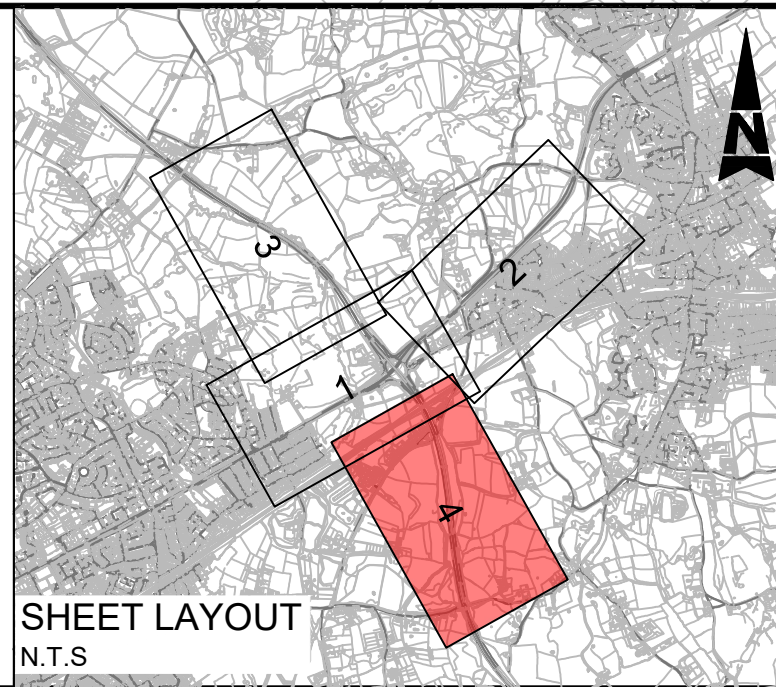


Notes



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Legend:

- Development Consent Order (DCO) boundary
- Scheme layout (shown for illustrative purposes)
- A12 Mainline Chainage - refer to drawing TR010029/APP/2.9 Longitudinal Section sheet 1 to 3
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| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |

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|---|--|---|------------------------------------|--|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title LONGITUDINAL SECTION REGULATIONS 5(2)(o) AND 6(2) SECTION LOCATION PLAN SHEET 4 OF 4 |
| Client | | Drawing Number | | Rev: |
| Working on behalf of  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: 1:2500 | Original Size: A1 | |

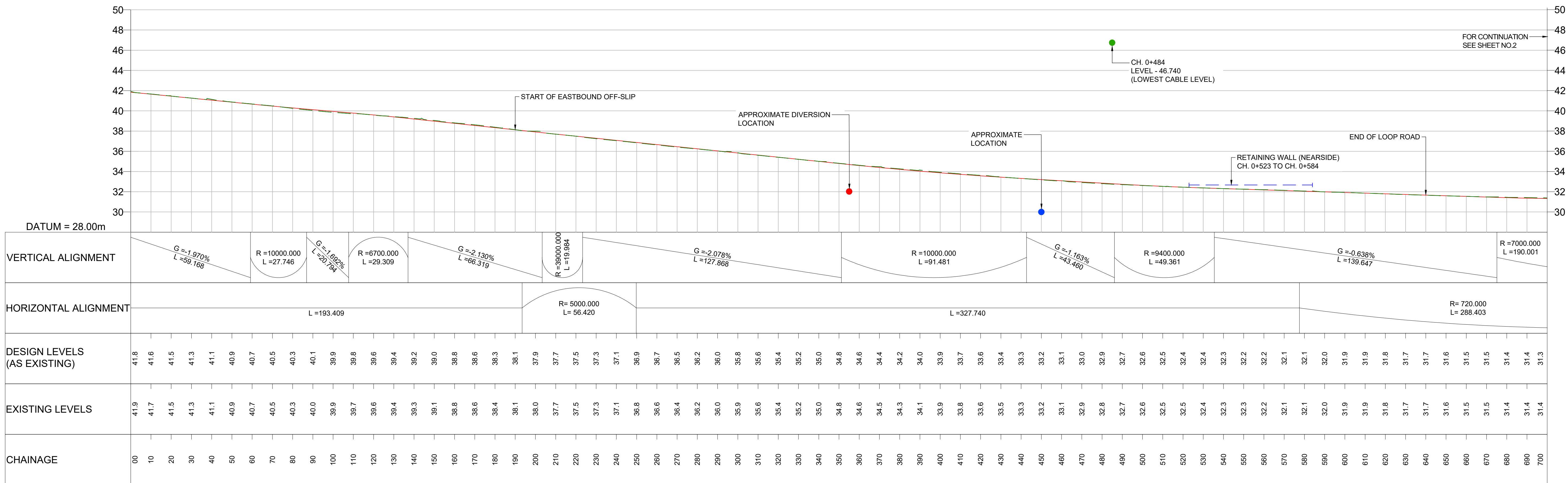
DO NOT SCALE

Millimetres

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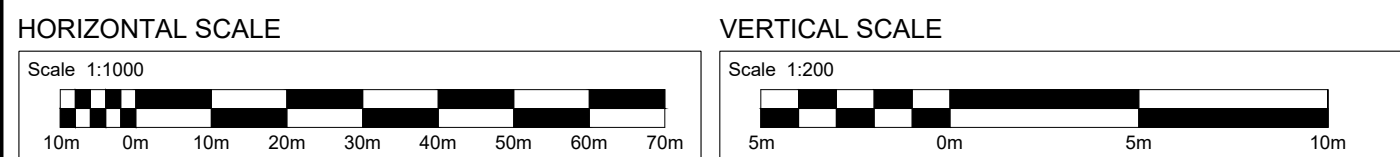
10

100



LONGITUDINAL SECTION A12 MAINLINE (EASTBOUND) (CHAINAGE 00 TO 700)

SCALE = H - 1:1000
V - 1:200





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8).
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

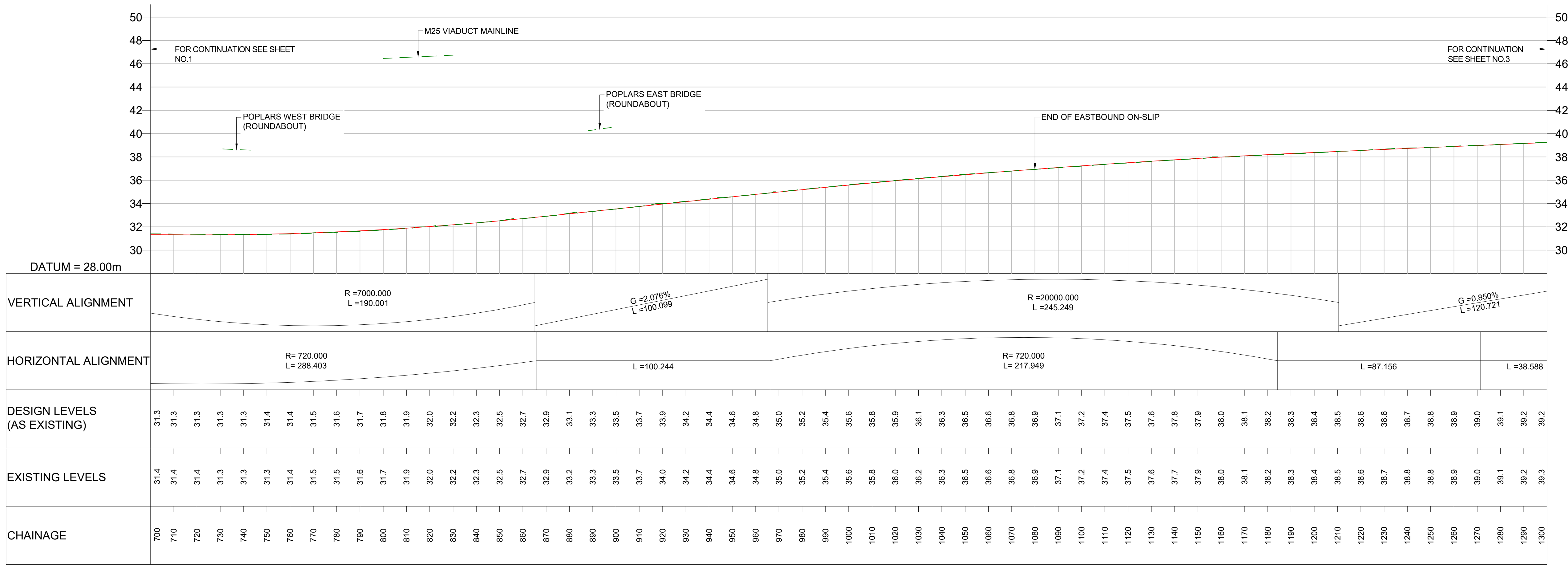
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|---|--|---|------------------------------------|--|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  <p>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</p> | | <p>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</p> | | <p>Drawing Title</p> <p>LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2)</p> <p>SHEET 1 OF 10</p> |
| Client | | Drawing Number | | Rev: |
| <p>Working on behalf of</p>  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

DO NOT SCALE

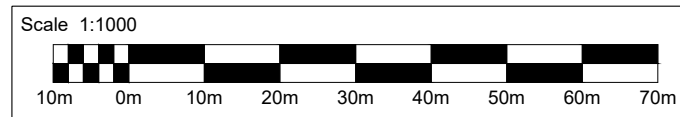
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0 10
Millimetres



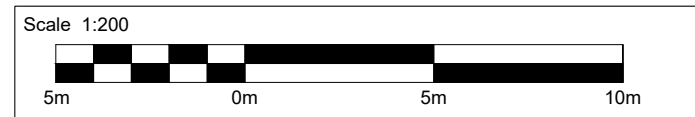
LONGITUDINAL SECTION A12 MAINLINE (EASTBOUND) (CHAINAGE 700 TO 1300)

SCALE = H - 1:1000
V - 1:200

HORIZONTAL SCALE



VERTICAL SCALE





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

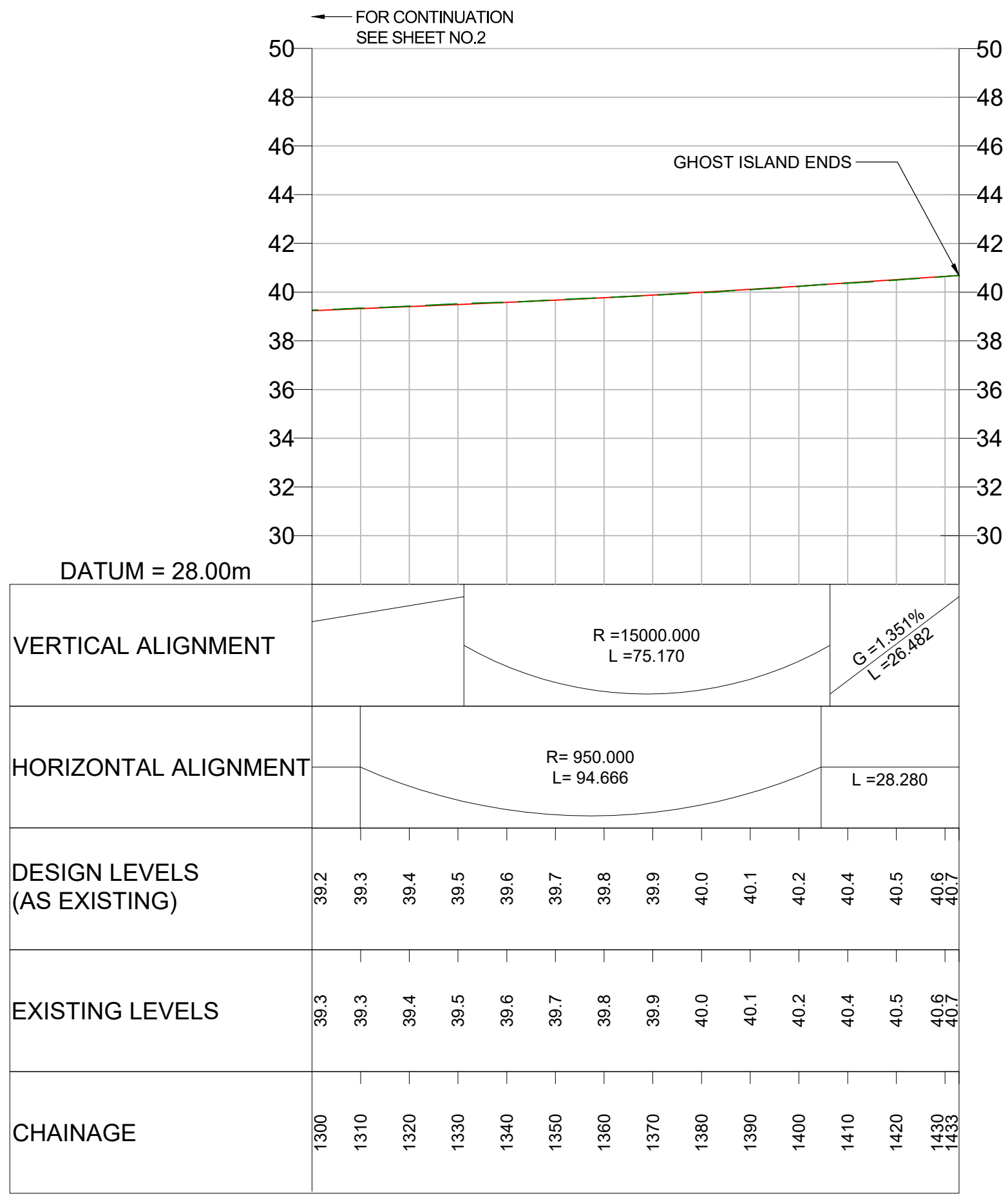
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |

| | | | | |
|--|--|---|---|-------------------|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | Drawing Title | |
| | | | LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 2 OF 10 | |
| Client | | Drawing Number | | Rev: |
| Working on behalf of  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

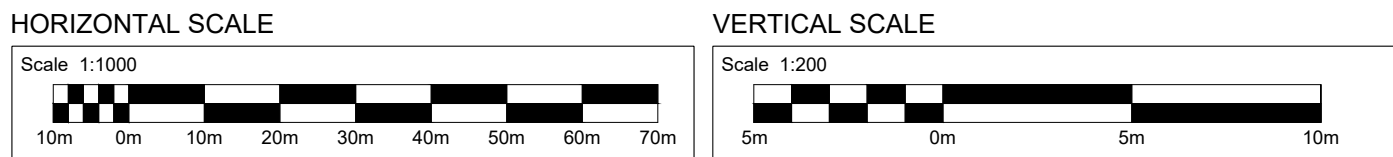
DO NOT SCALE

100
Millimetres
0 10



LONGITUDINAL SECTION A12 MAINLINE (EASTBOUND) (CHAINAGE 1300 TO 1433)

SCALE = H - 1:1000
V - 1:200





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

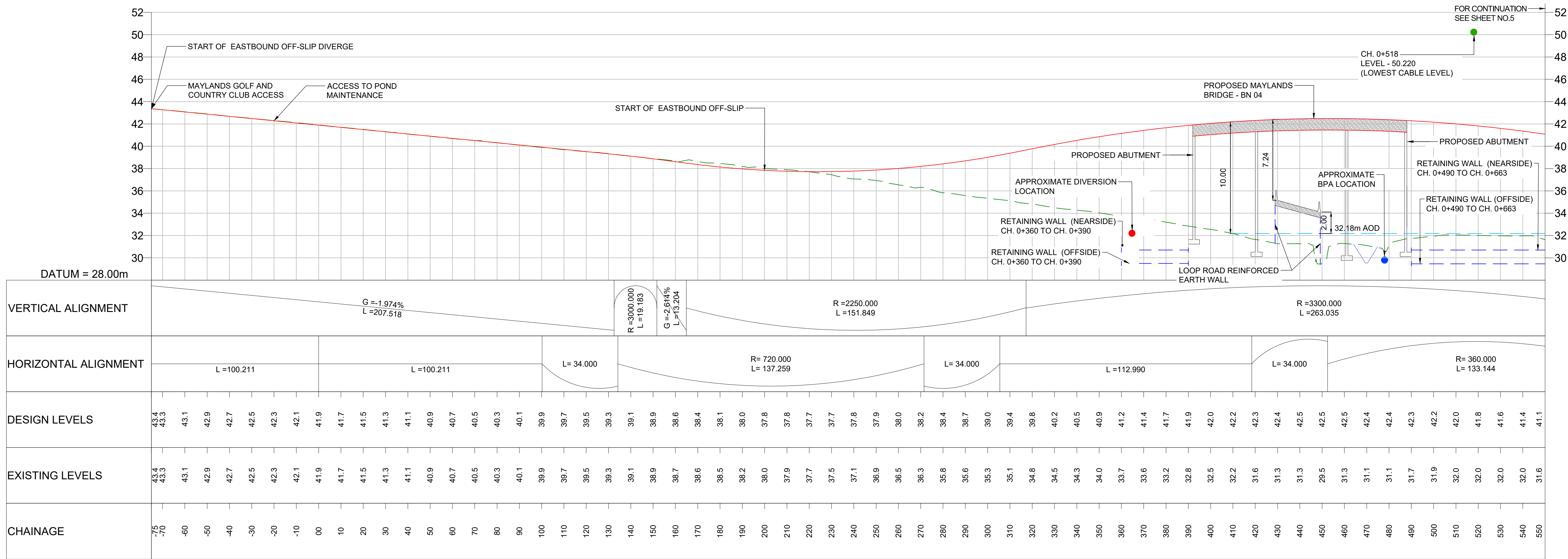
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |

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|---|--|--|------------------------------------|-------------------|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Drawing Title LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 3 OF 10 | | |
| | | | | |
|  Working on behalf of highways england | | Drawing Number | | Rev: |
| | | TR010029/APP/2.8 | | 0 |
| | | HE PIN: HE551519 | Scale: AS SHOWN | Original Size: A1 |

DO NOT SCALE

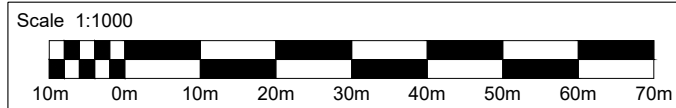
100
0 10
Millimetres



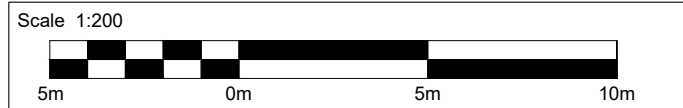
LONGITUDINAL SECTION A12 EASTBOUND OFF-SLIP (CHAINAGE -75 TO 550)

SCALE = H - 1:1000
V - 1:200

HORIZONTAL SCALE



VERTICAL SCALE




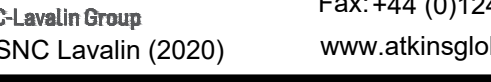
Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

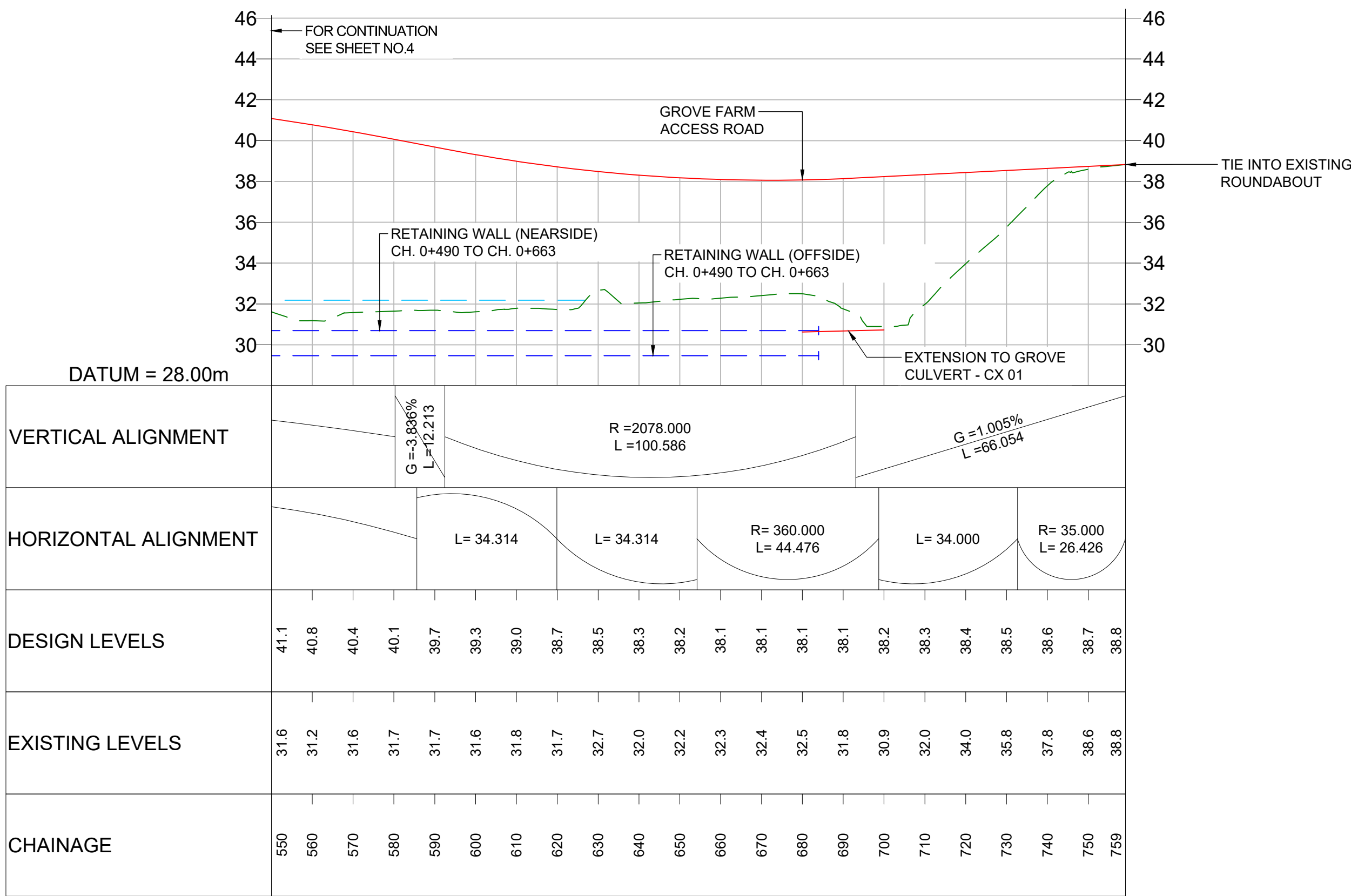
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

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|---|----------------------|---|------------------------------------|-------------------|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title |
| | | LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) | | |
| | | SHEET 4 OF 10 | | |
| Client | Working on behalf of | | Drawing Number | Rev. |
|  | | | TR010029/APP/2.8 | 0 |
| | | HE PIN: HE551519 | Scale: AS SHOWN | Original Size: A1 |

DO NOT SCALE

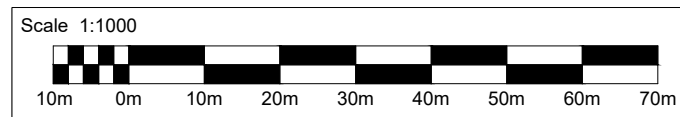
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Millimetres
0 10



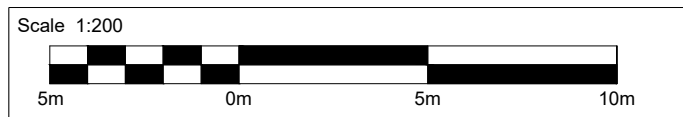
LONGITUDINAL SECTION A12 EASTBOUND OFF-SLIP (CHAINAGE 550 TO 759)

SCALE = H - 1:1000
V - 1:200

HORIZONTAL SCALE



VERTICAL SCALE




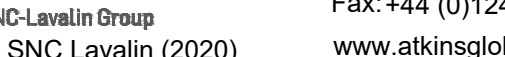
Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

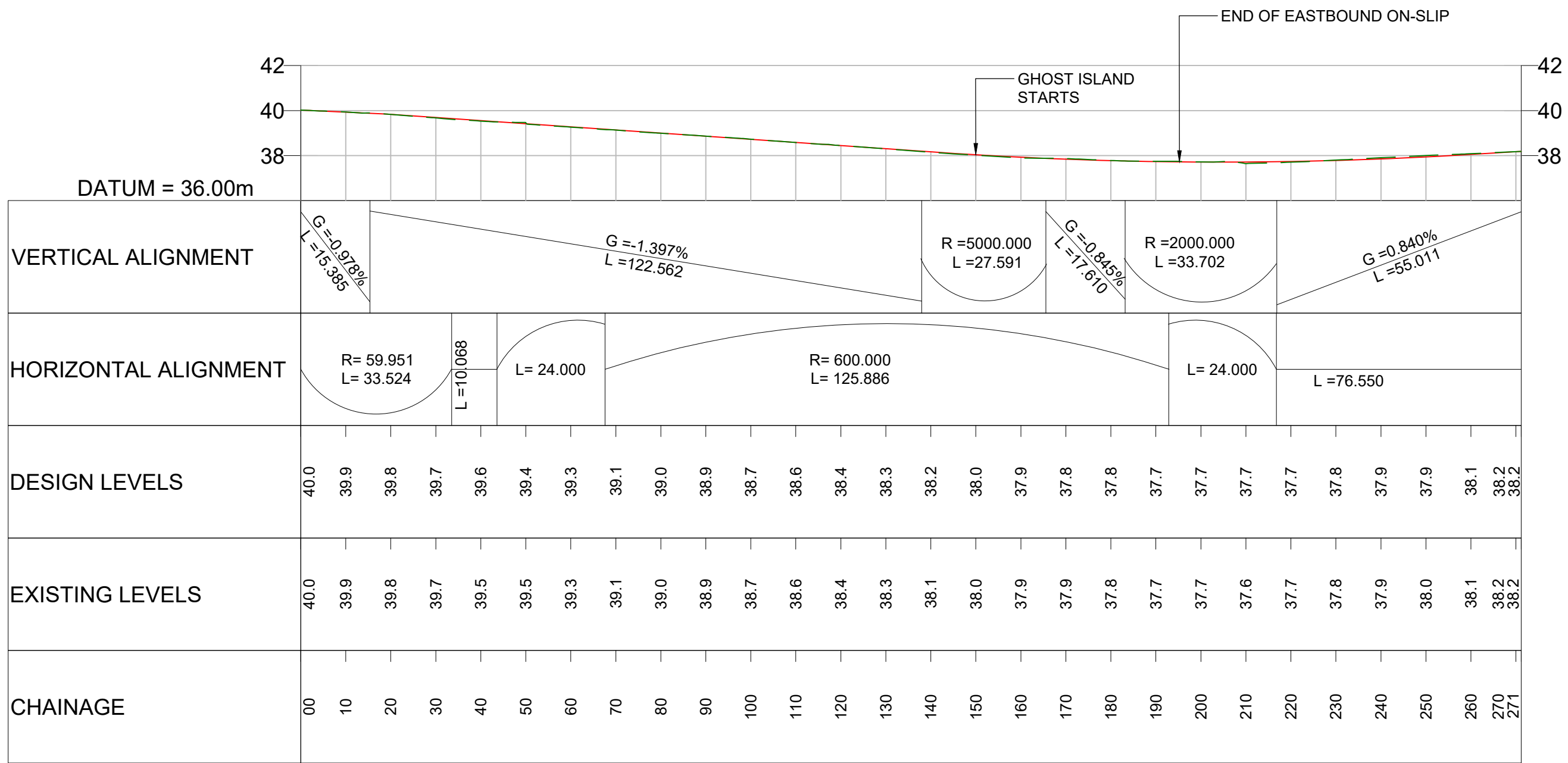
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

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|---|--|--|------------------------------------|--|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  <p>SNC • LAVALIN ATKINS</p> <p>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</p> | | <p>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU</p> <p>Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</p> | | <p>Drawing Title</p> <p>LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2)</p> <p>SHEET 5 OF 10</p> |
| Client | | Drawing Number | | Rev: |
| <p>Working on behalf of</p>  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | Original Size: A1 | |

DO NOT SCALE

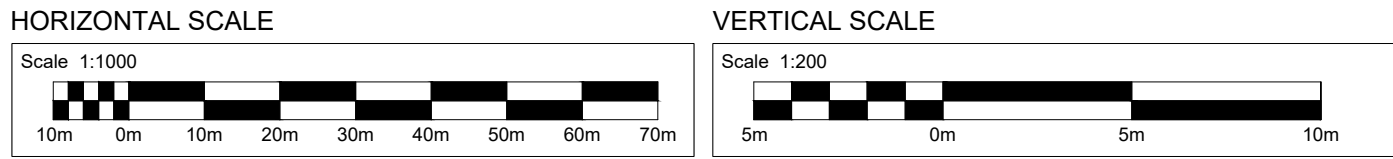
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Millimetres

0 10



LONGITUDINAL SECTION A12 EASTBOUND ON-SLIP (CHAINAGE 00 TO 271)

SCALE = H - 1:1000
V - 1:200





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
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- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|--|--|---|---|-------------------|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | Drawing Title | |
| | | | LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 6 OF 10 | |
|  | | Drawing Number | | Rev: |
| | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

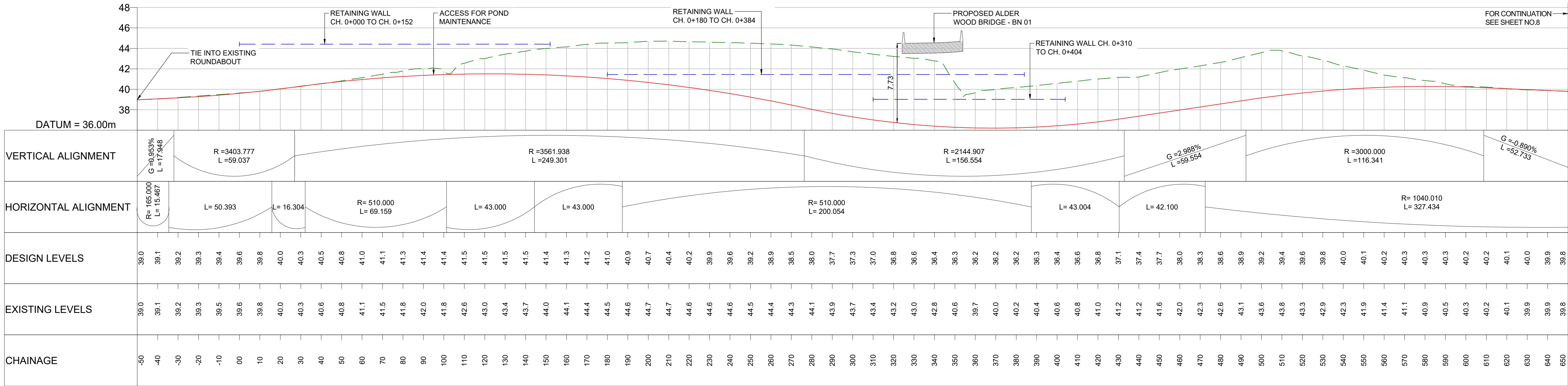
DO NOT SCALE

Millimetres

0

10

100

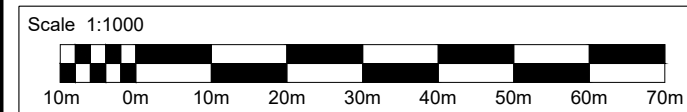


LONGITUDINAL SECTION M25 NORTHBOUND ON-SLIP (CHAINAGE -50 TO 650)

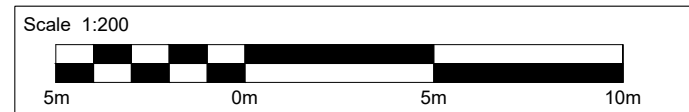
SCALE = H - 1:1000

V - 1:200

HORIZONTAL SCALE



VERTICAL SCALE





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8).
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

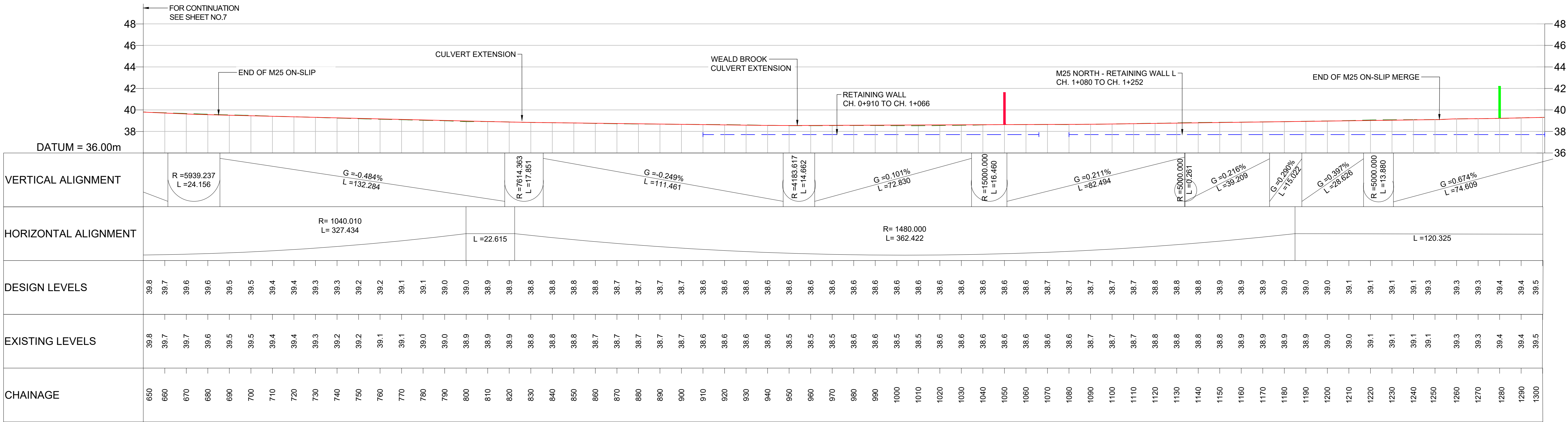
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |

| | | | | |
|---|---|---|------------------------------------|--|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 7 OF 10 |
| Client | Working on behalf of  highways england | | Drawing Number | Rev. |
| | | | TR010029/APP/2.8 | 0 |
| | | | HE PIN: HE551519 | Scale: AS SHOWN |
| | | | Original Size: A1 | |

DO NOT SCALE

100
0 10
Millimetres

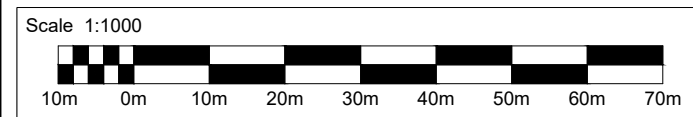


LONGITUDINAL SECTION M25 NORTHBOUND ON-SLIP (CHAINAGE 650 TO 1300)

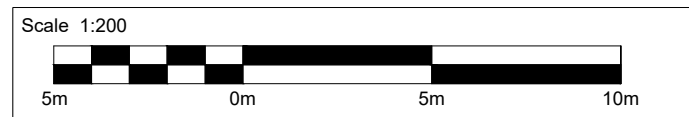
SCALE = H - 1:1000

V - 1:200

HORIZONTAL SCALE



VERTICAL SCALE





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

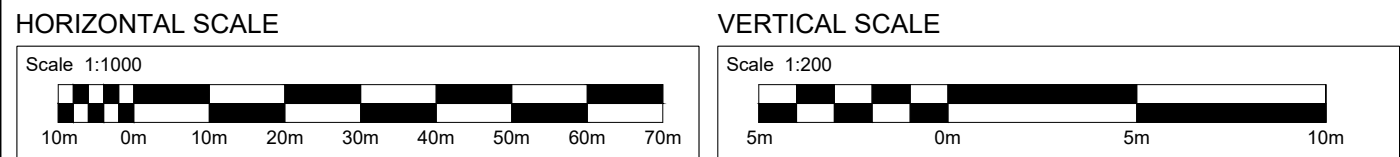
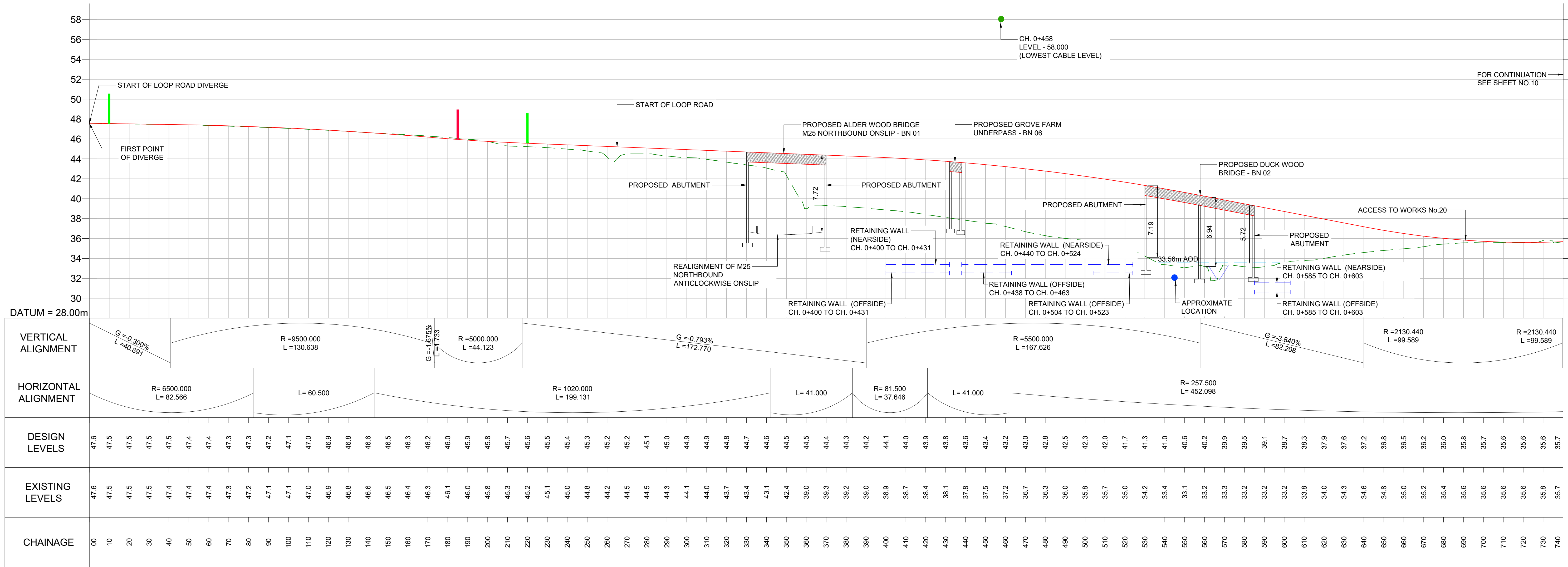
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|---|--|---|------------------------------------|-------------------|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title |
| Client  | | LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) | | |
| | | SHEET 8 OF 10 | | |
| | | Drawing Number | | |
| | | TR010029/APP/2.8 | | Rev: |
| | | | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

DO NOT SCALE

100
0 10
Millimetres





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

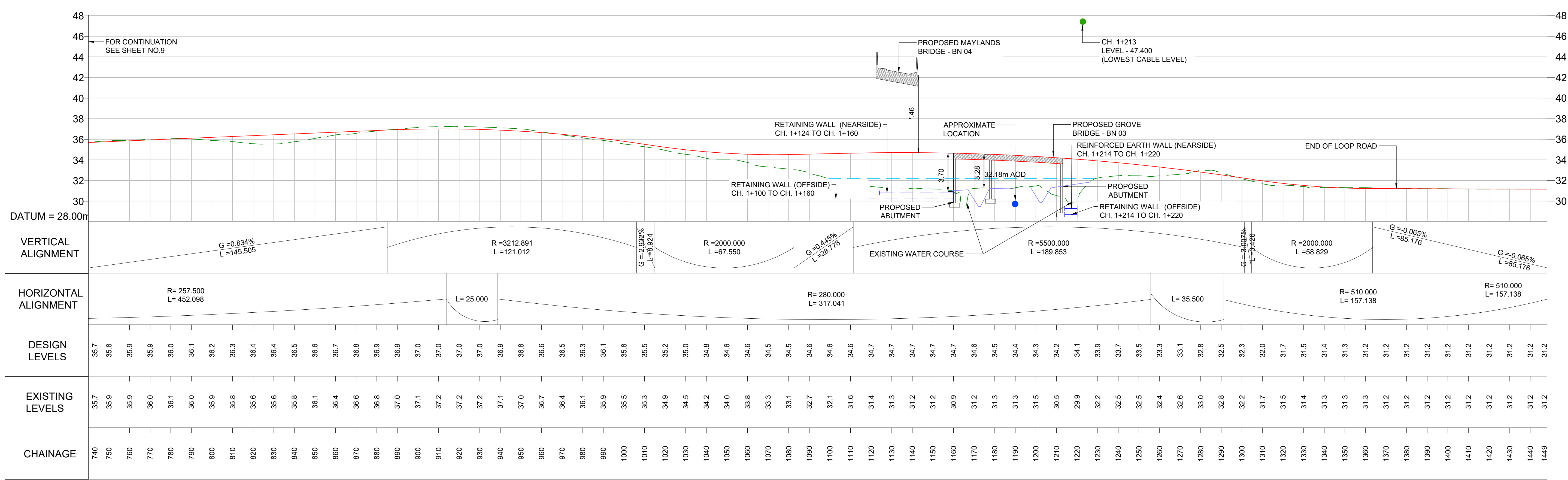
- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|--|--|---|------------------------------------|--|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 9 OF 10 |
| Client | | Drawing Number | | Rev: |
|  | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

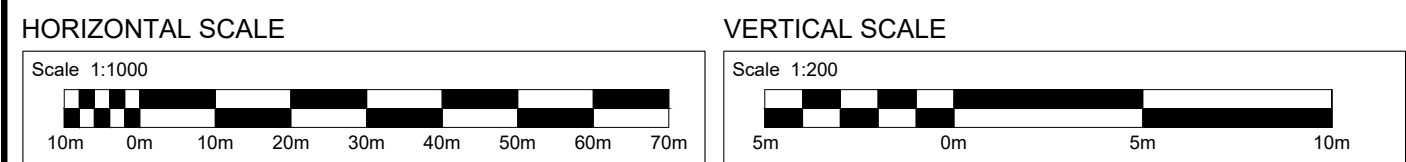
DO NOT SCALE

100
0 10
Millimetres



LONGITUDINAL SECTION M25 J28 LOOP ROAD (CHAINAGE 740 TO 1449)

SCALE = H - 1:1000
V - 1:200





Notes:

- All dimensions are in metres unless otherwise stated. Horizontal and vertical position may vary within the DCO boundary and the Limit of Deviation.
- The retaining walls, bridge decks, culvert and overhead power line details are indicative only.
- For location of longitudinal sections refer to Longitudinal section key plan drawings (application document reference TR010029/APP/2.8)
- Refer to Work Plans (Application document reference TR010029/APP/2.3).

Legend

- Proposed road
- Existing ground
- Proposed LHP gas diversion approximate location
- Existing overhead power cable
- 1 in 100 years estimated flood level
- Existing fuel pipeline approximate location
- Proposed retaining wall
- Realigned water course
- Proposed gantry
- Existing gantry (to be removed)

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|---|--|---|------------------------------------|---|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title LONGITUDINAL SECTION REGULATIONS 5(2)(o) and 6(2) SHEET 10 OF 10 |
| Client | | Drawing Number | | Rev: |
|  highways england Working on behalf of | | TR010029/APP/2.8 | | 0 |
| HE PIN: HE551519 | | Scale: AS SHOWN | | Original Size: A1 |

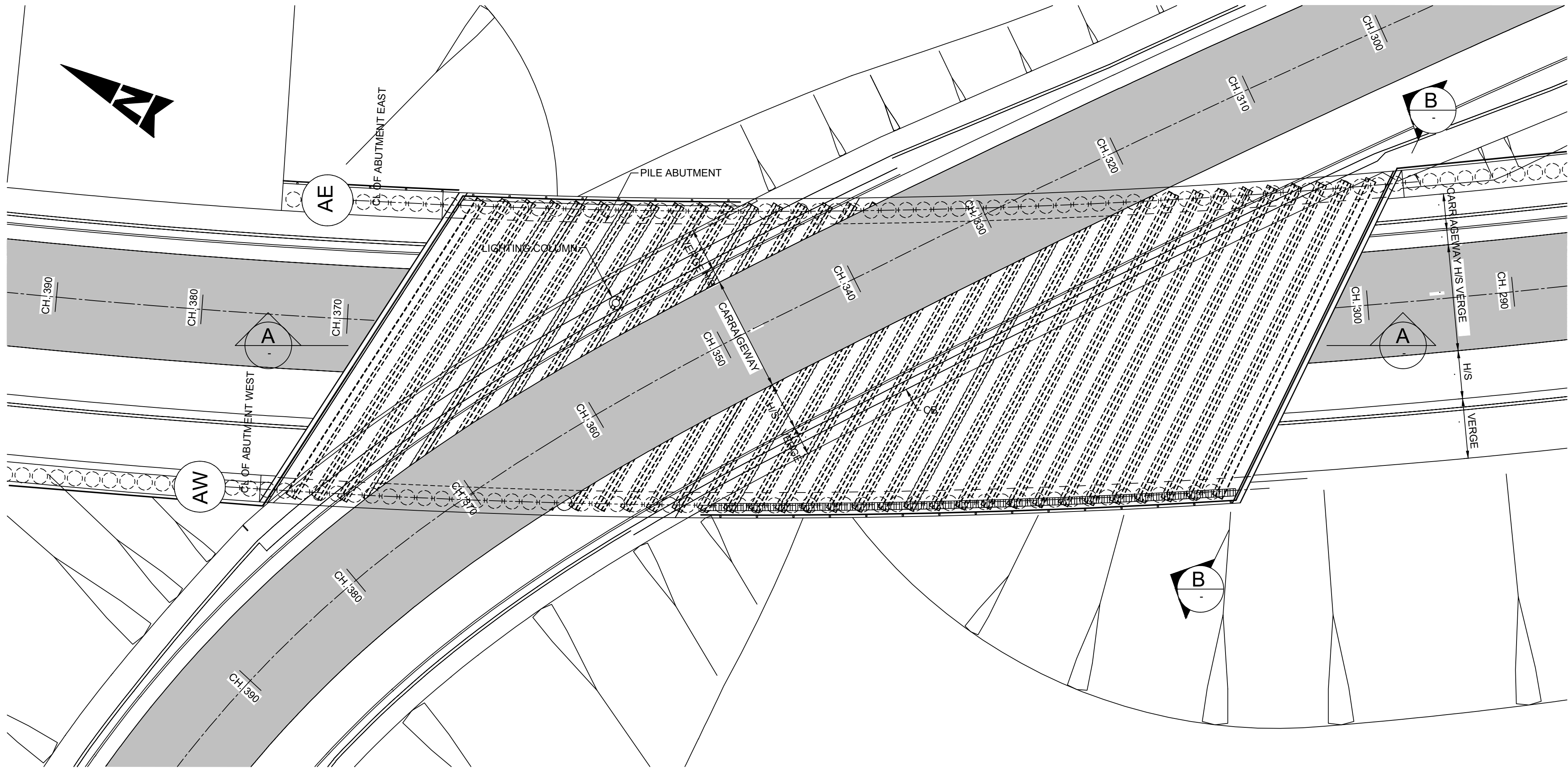
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Millimetres

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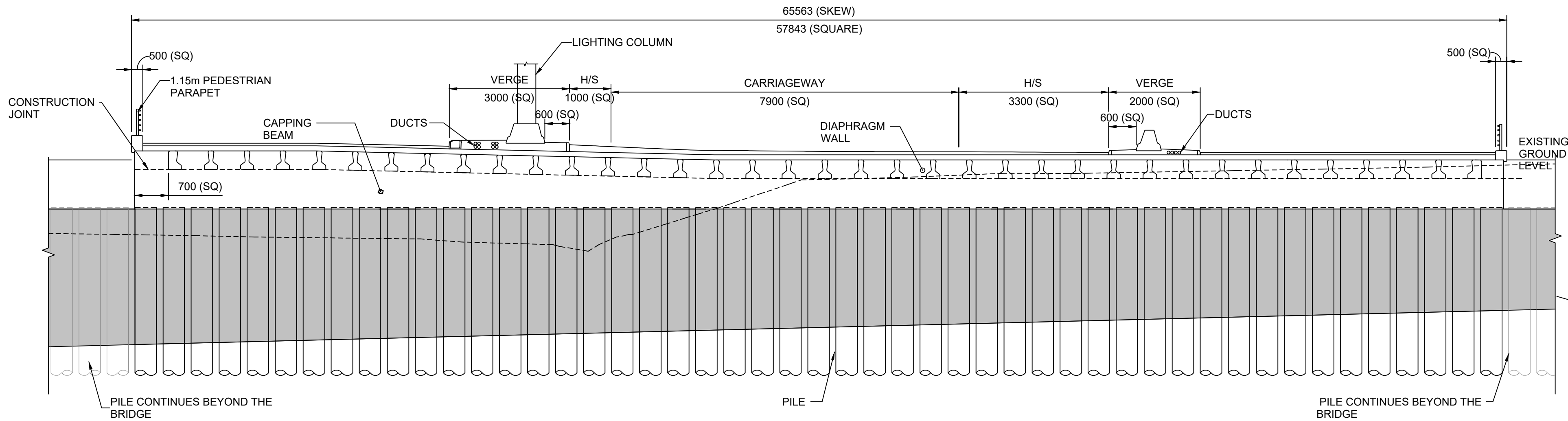
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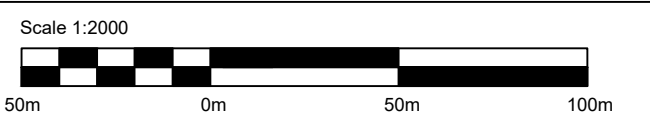
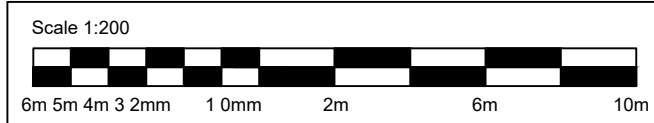
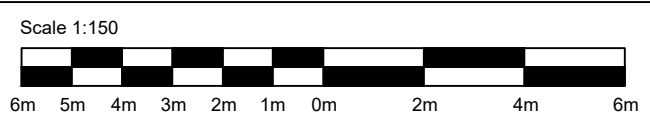
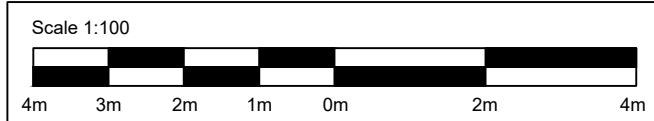
PLAN ON DECK

SCALE 1 : 200



A SECTION

SCALE 1 : 150

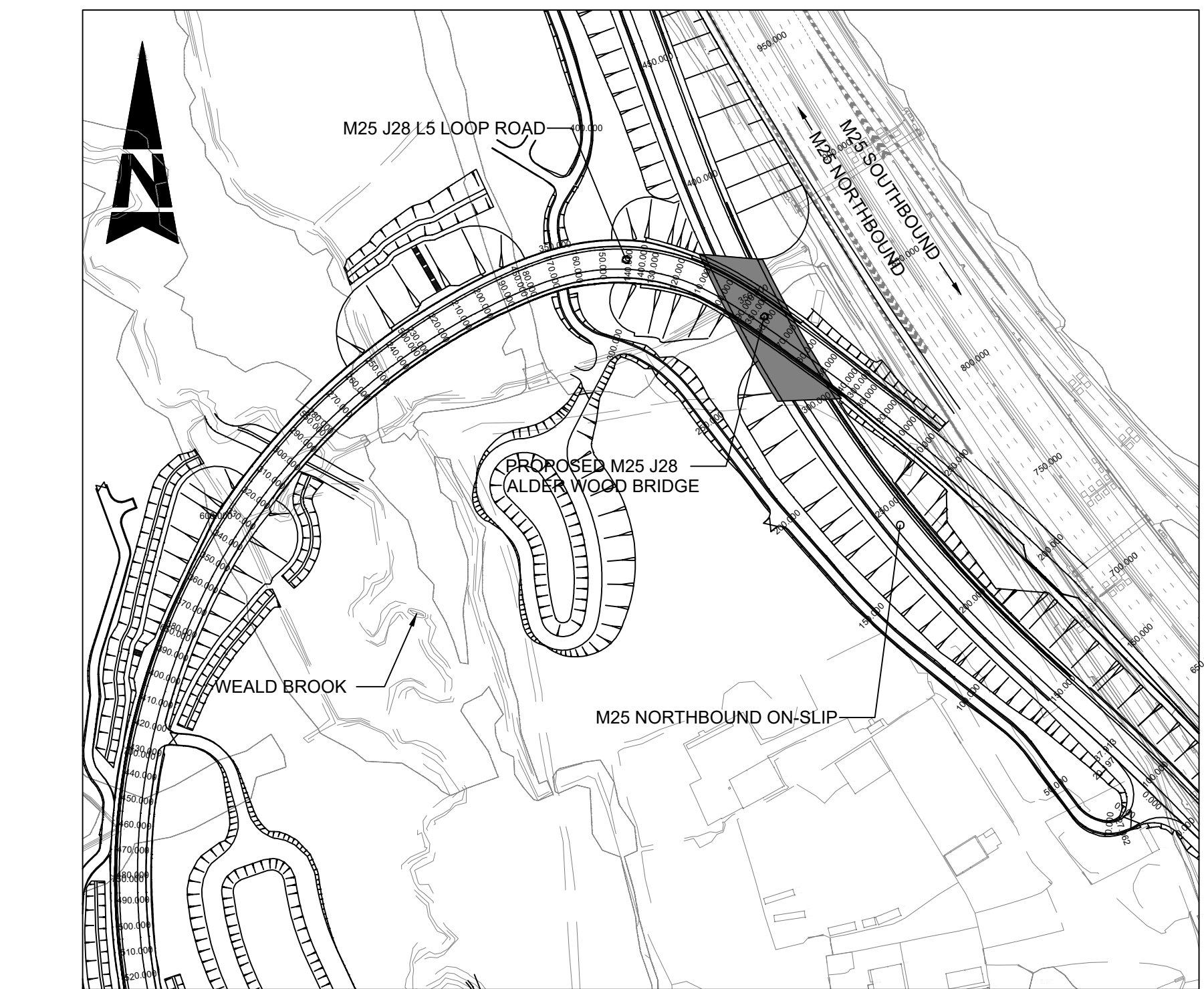


Notes

- All dimensions are in millimeters; all levels and chainages are in metres unless noted otherwise.
- Pile length shall be optimized based on geotech recommendation.
- The maximum cross fall as per highway typical cross section.
- The stream behind the east abutment will be diverted.
- Drainage not shown
- Utilities not shown.

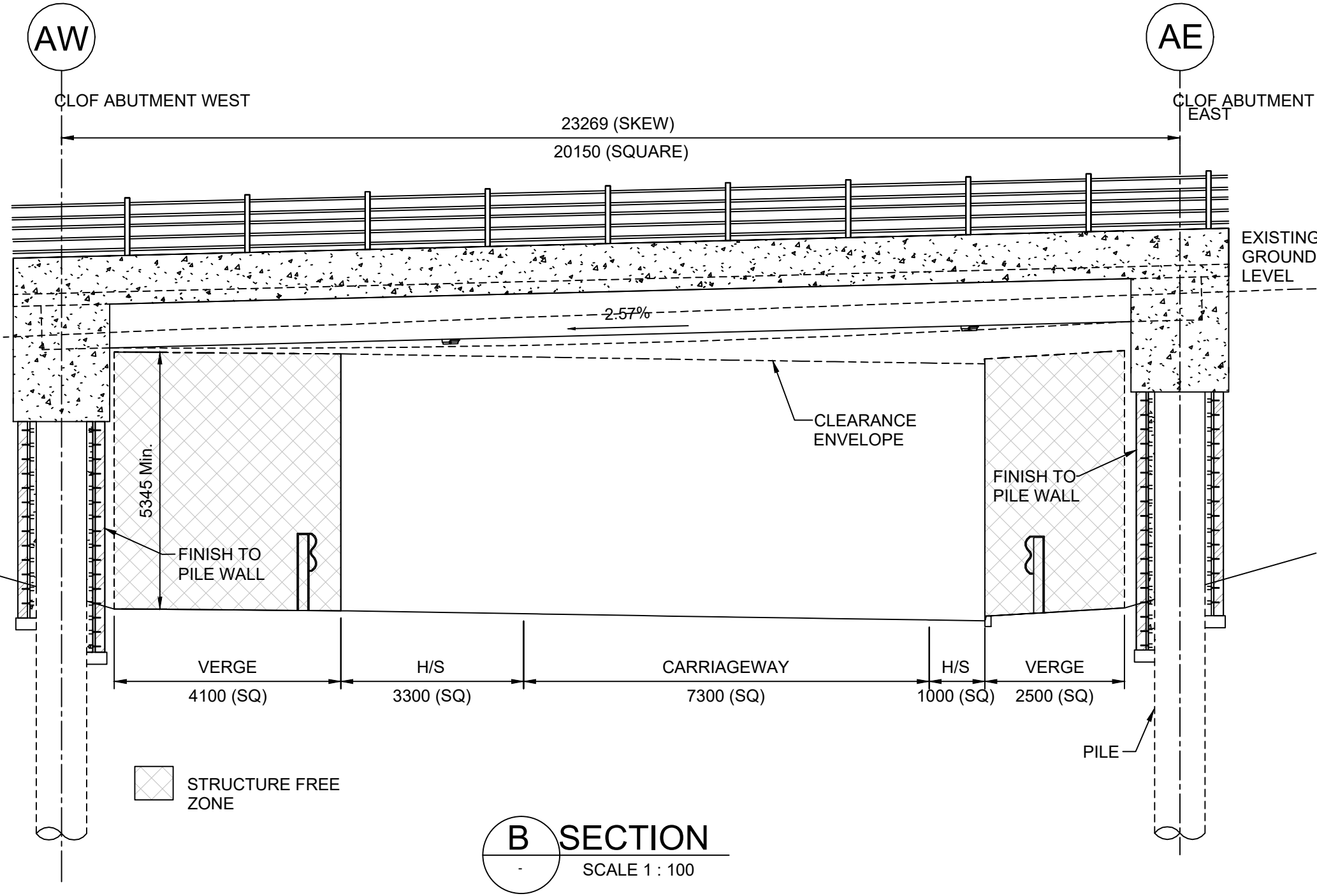
7. The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |




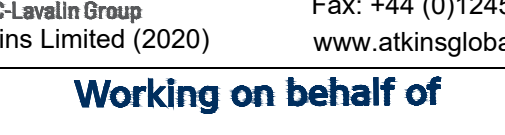
LOCATION PLAN

SCALE 1 : 2000



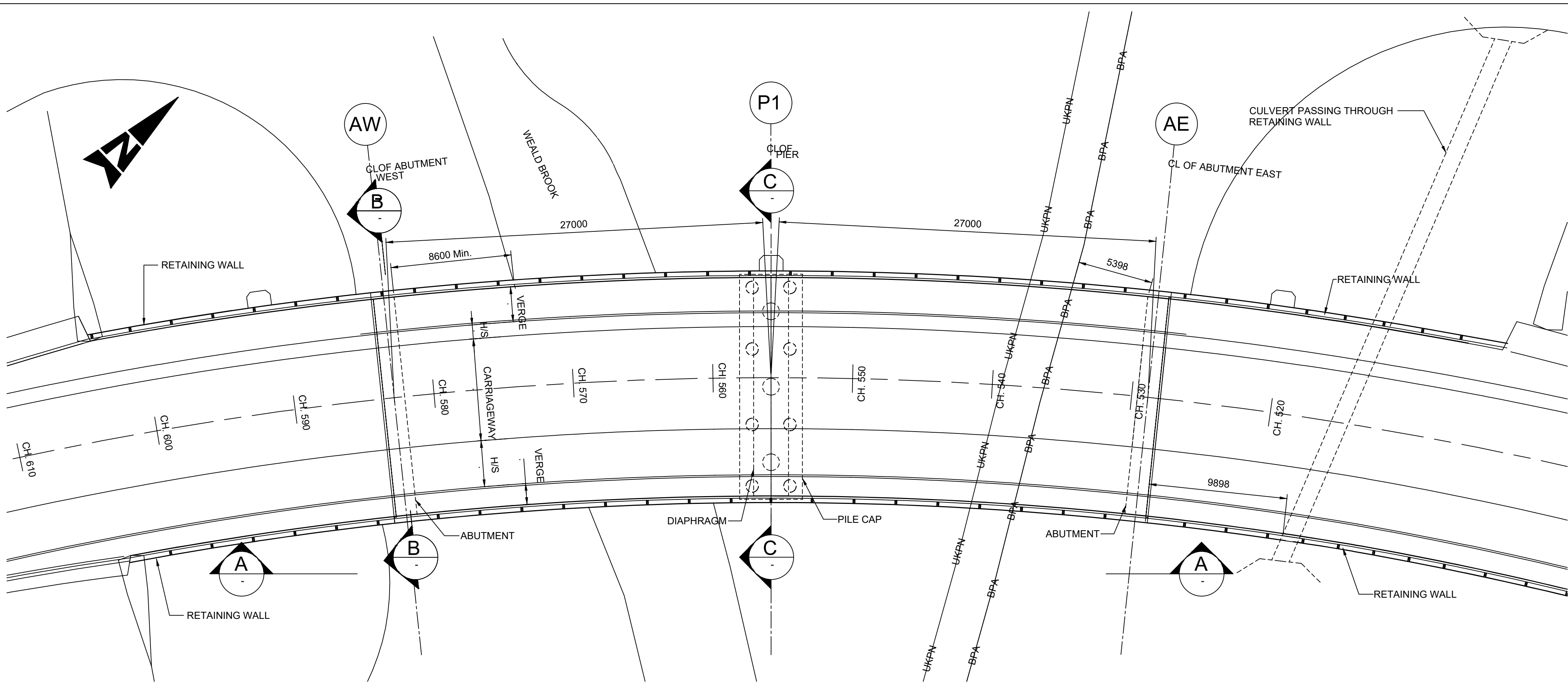
B SECTION

SCALE 1 : 100

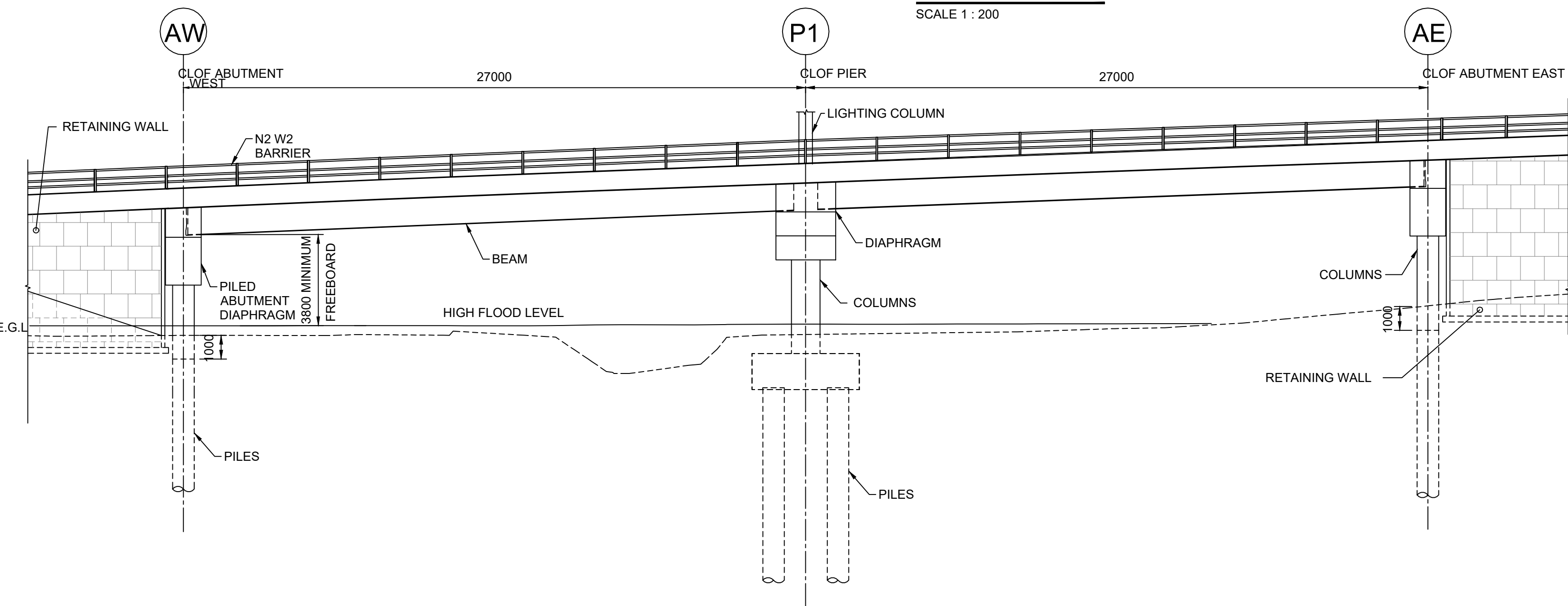
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| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  Member of the SNC-Lavalin Group Copyright©Atkins Limited (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) ALDER WOOD BRIDGE SHEET 1 OF 10 |
| Client | Working on behalf of  | | Drawing Number TR10029/APP/2.8 | Rev: 0 |
| HE PIN: HE551519 | | Scale: As Shown | Original Size: A1 | |

DO NOT SCALE

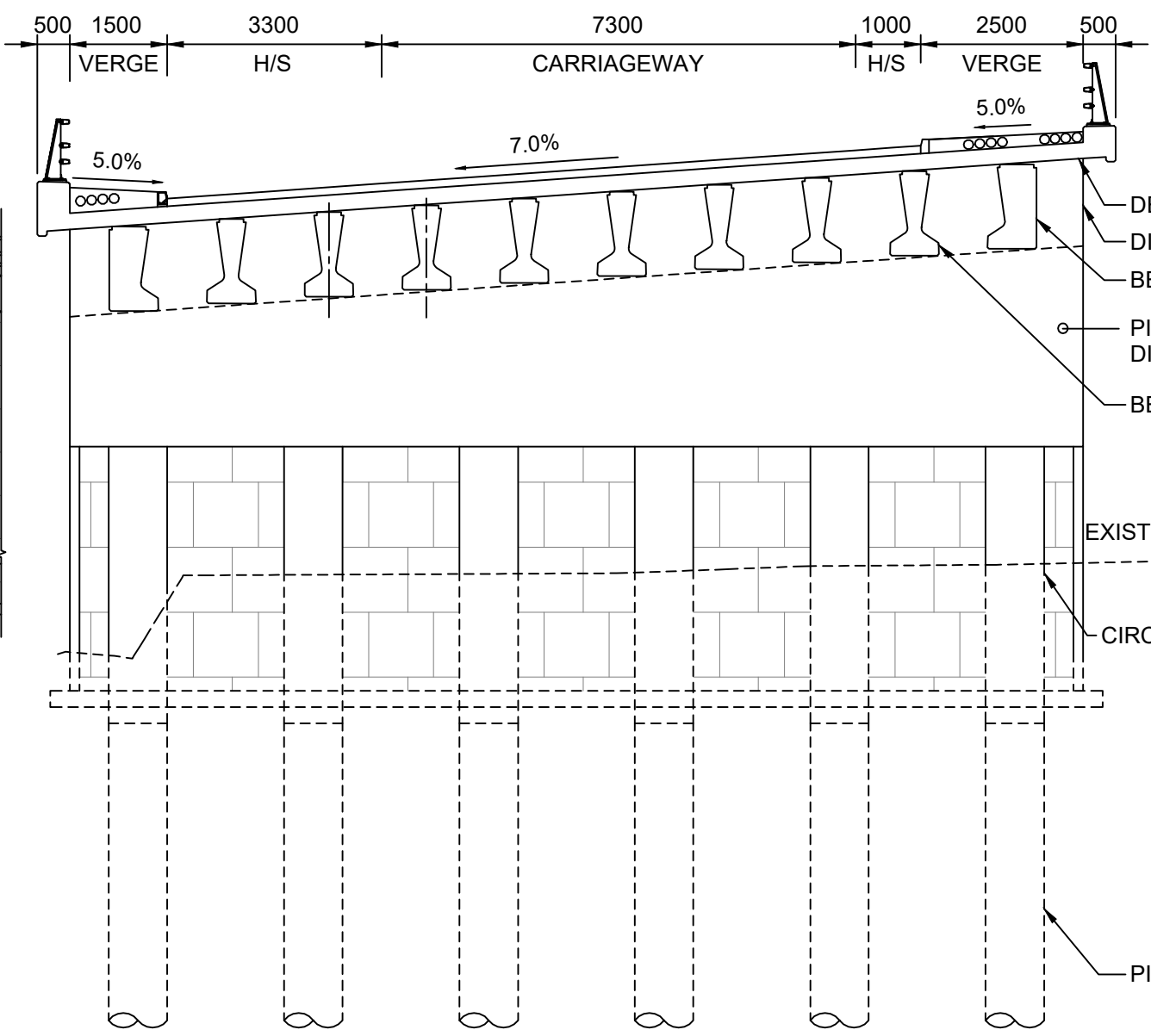
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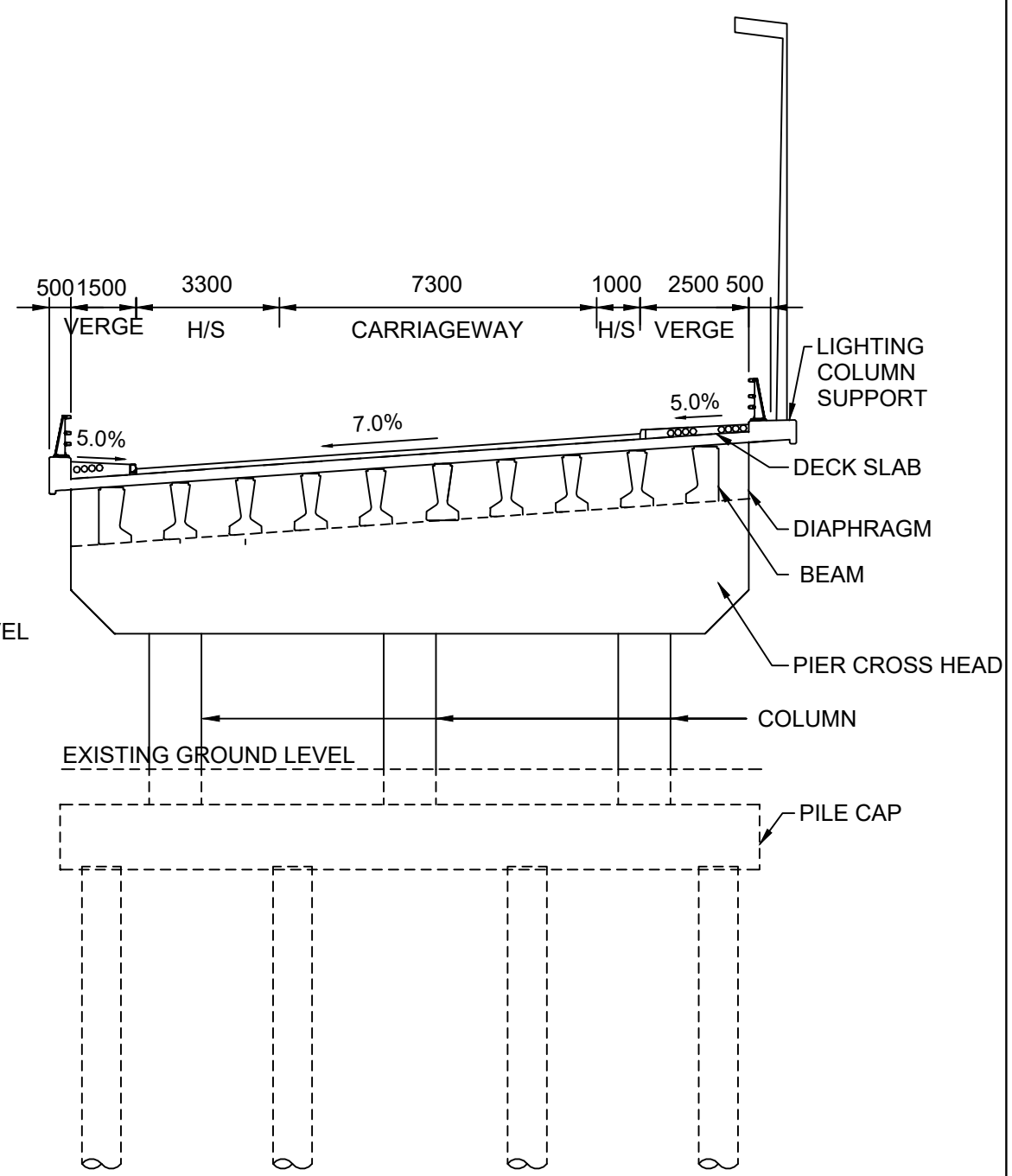
PLAN ON DECK
SCALE 1 : 200



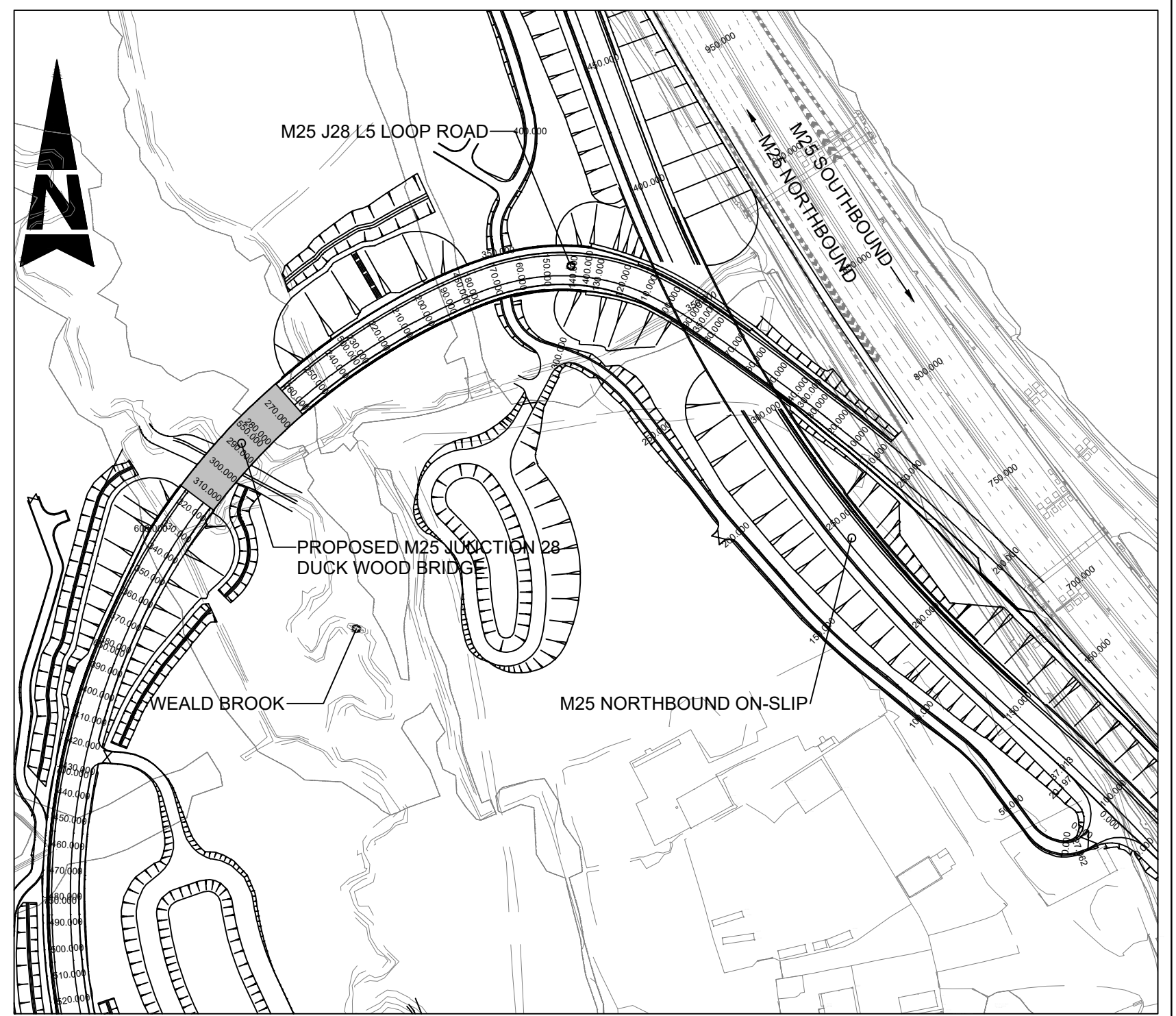
A ELEVATION
SCALE 1 : 150



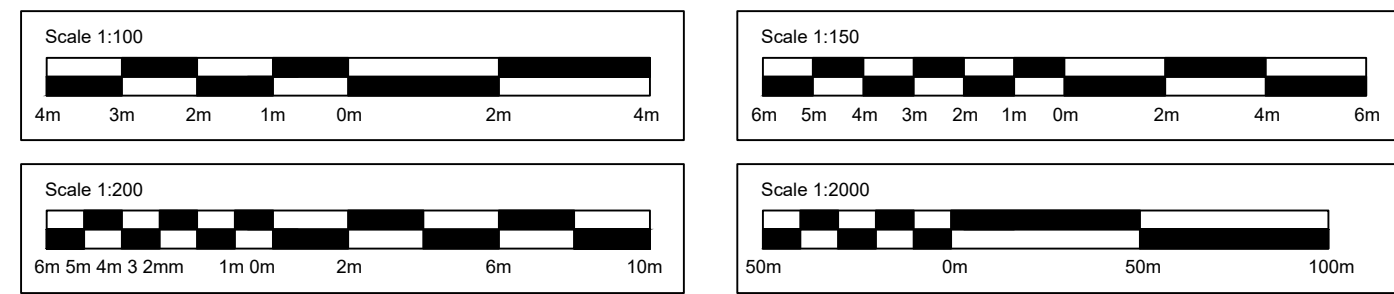
B SECTION
SCALE 1 : 100



C SECTION
SCALE 1 : 150





LOCATION PLAN
SCALE 1 : 2000



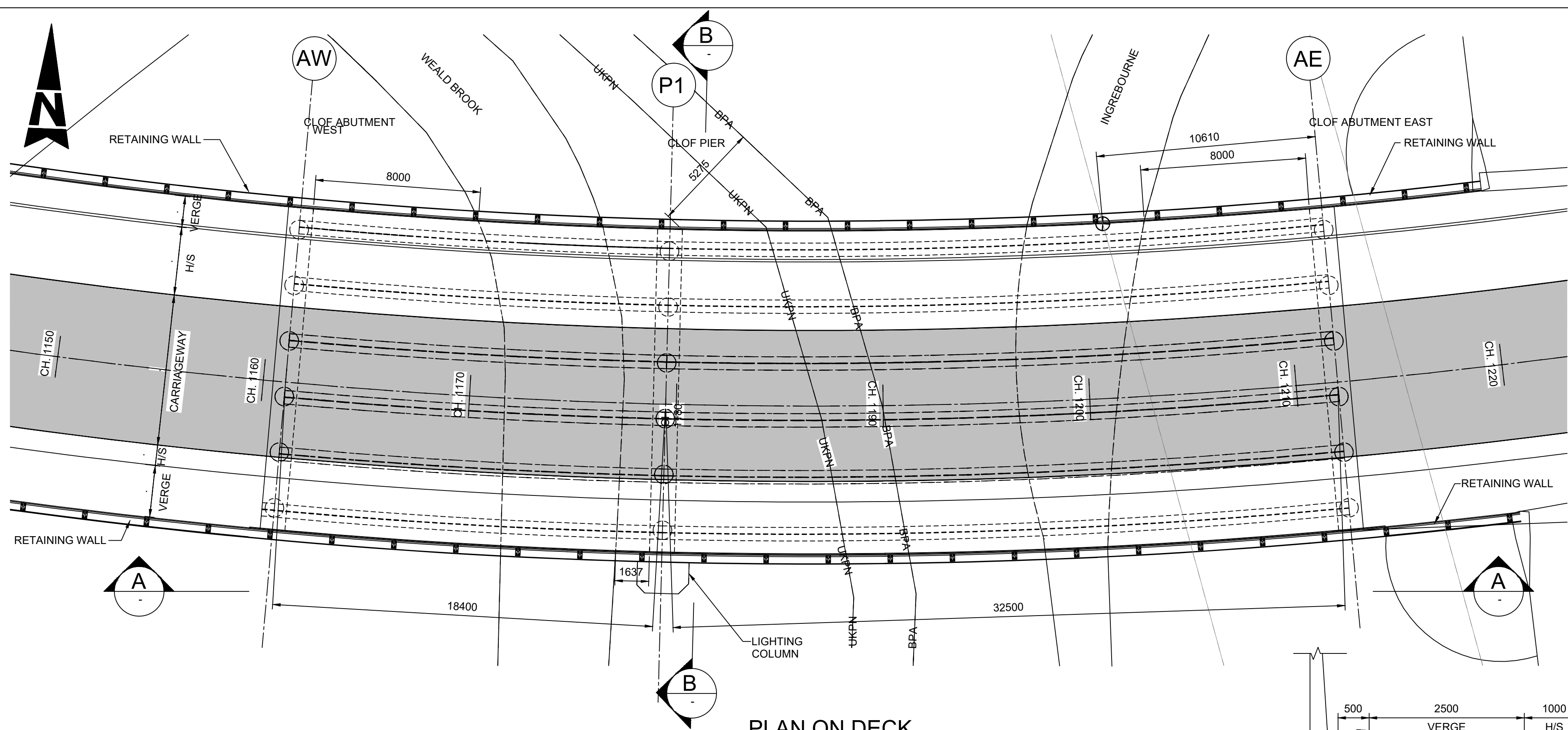
- Notes**
- All dimensions are in millimeters; all levels and chainages are in metres unless noted otherwise.
 - Full length of piles not shown. actual length shall be as per geotech recommendation.
 - Drainage not shown
 - Utilities not shown.
 - The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
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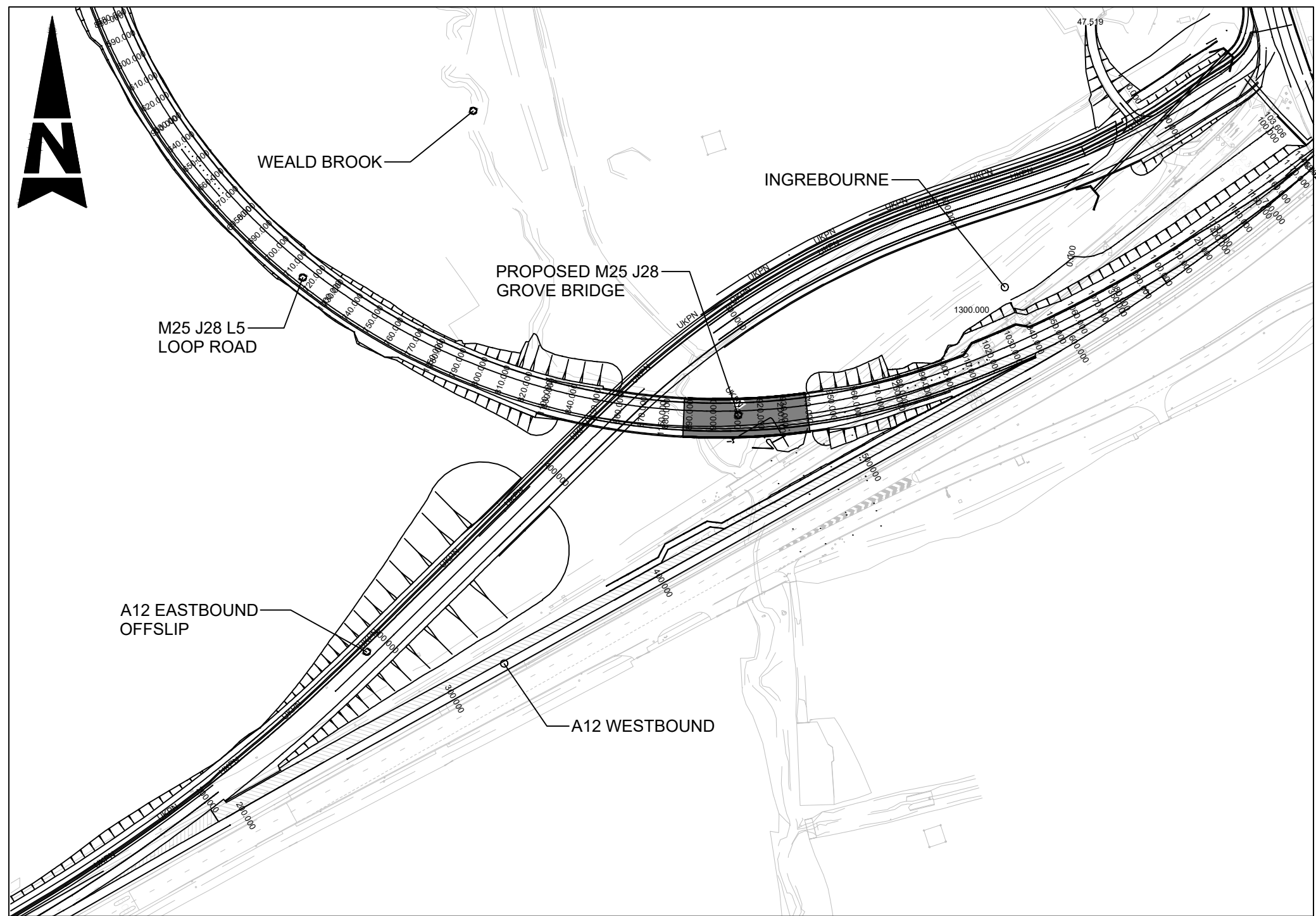
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| Drawing Suitability DCO APPLICATION | | Status A4 | Project Title M25 junction 28 improvement scheme | | |
|  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright©Atkins Limited (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinglobal.com | Drawing Title ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) DUCK WOOD BRIDGE SHEET 2 OF 10 | | |
| | | | Drawing Number TR10029/APP/2.8 | | Rev: 0 |
| Client  highways england | | HE PIN: HE551519 | Scale: As Shown | Original Size: A1 | |

DO NOT SCALE

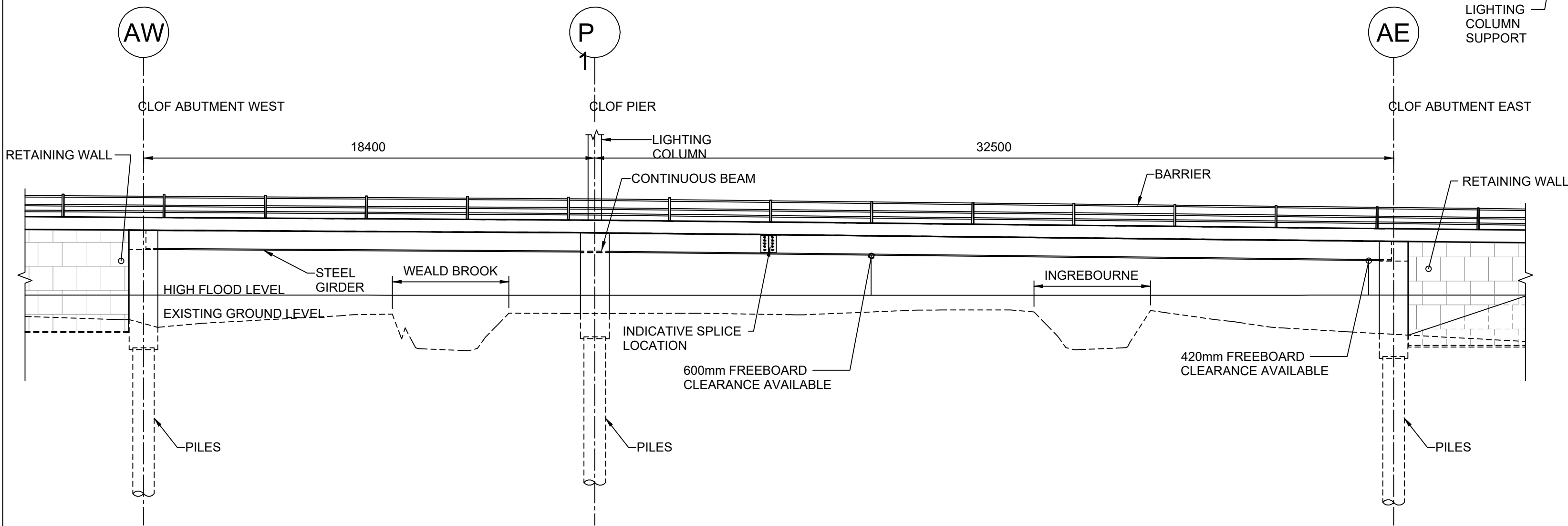
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PLAN ON DECK
SCALE 1 : 150

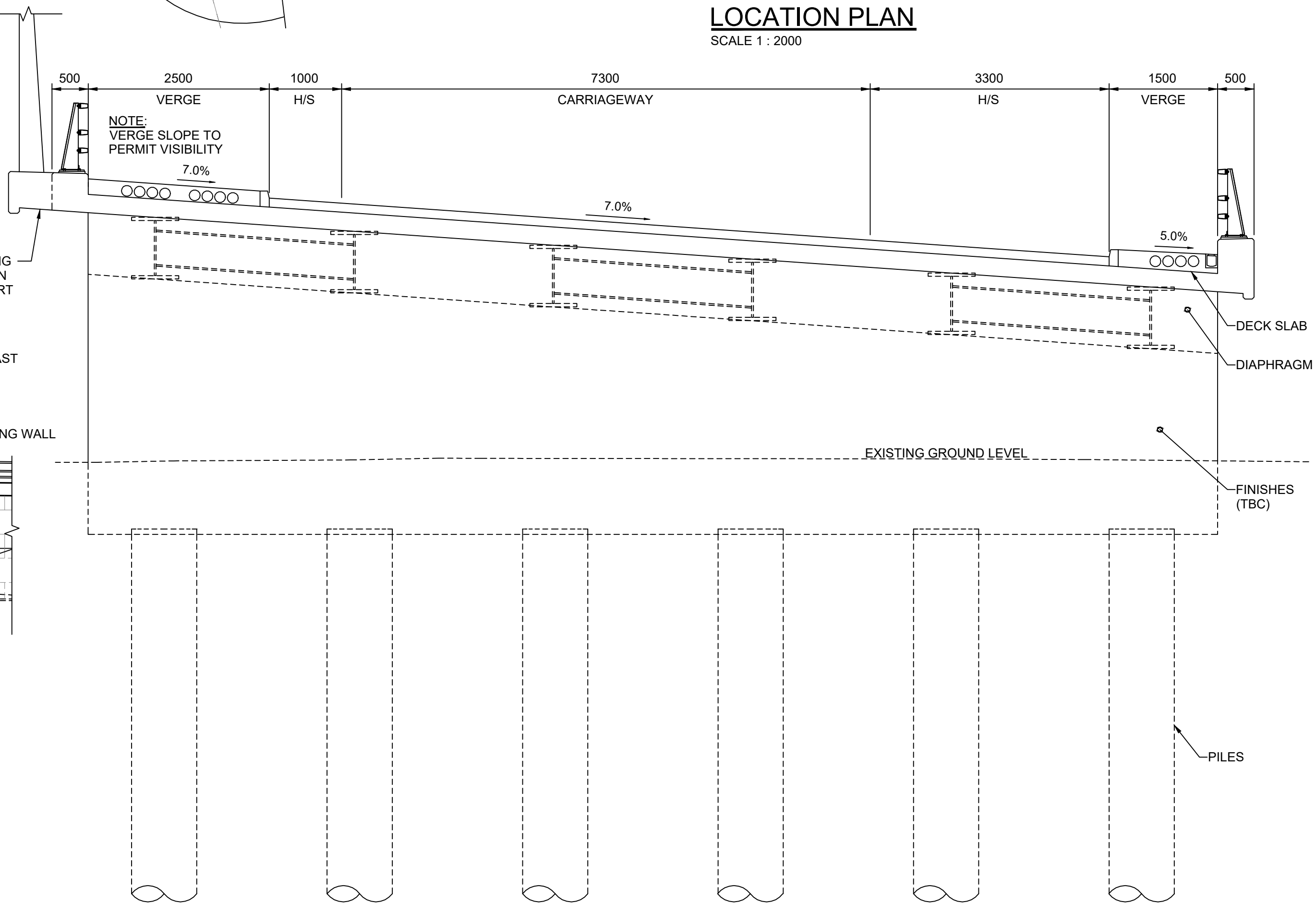
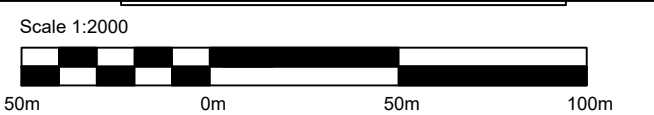
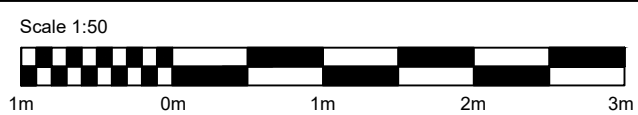
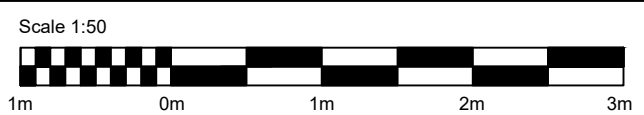


LOCATION PLAN
SCALE 1 : 2000



A ELEVATION
SCALE 1 : 150

NOTE:
FOR CLARITY FINISHES
REMOVED





B SECTION
SCALE 1 : 50

Notes

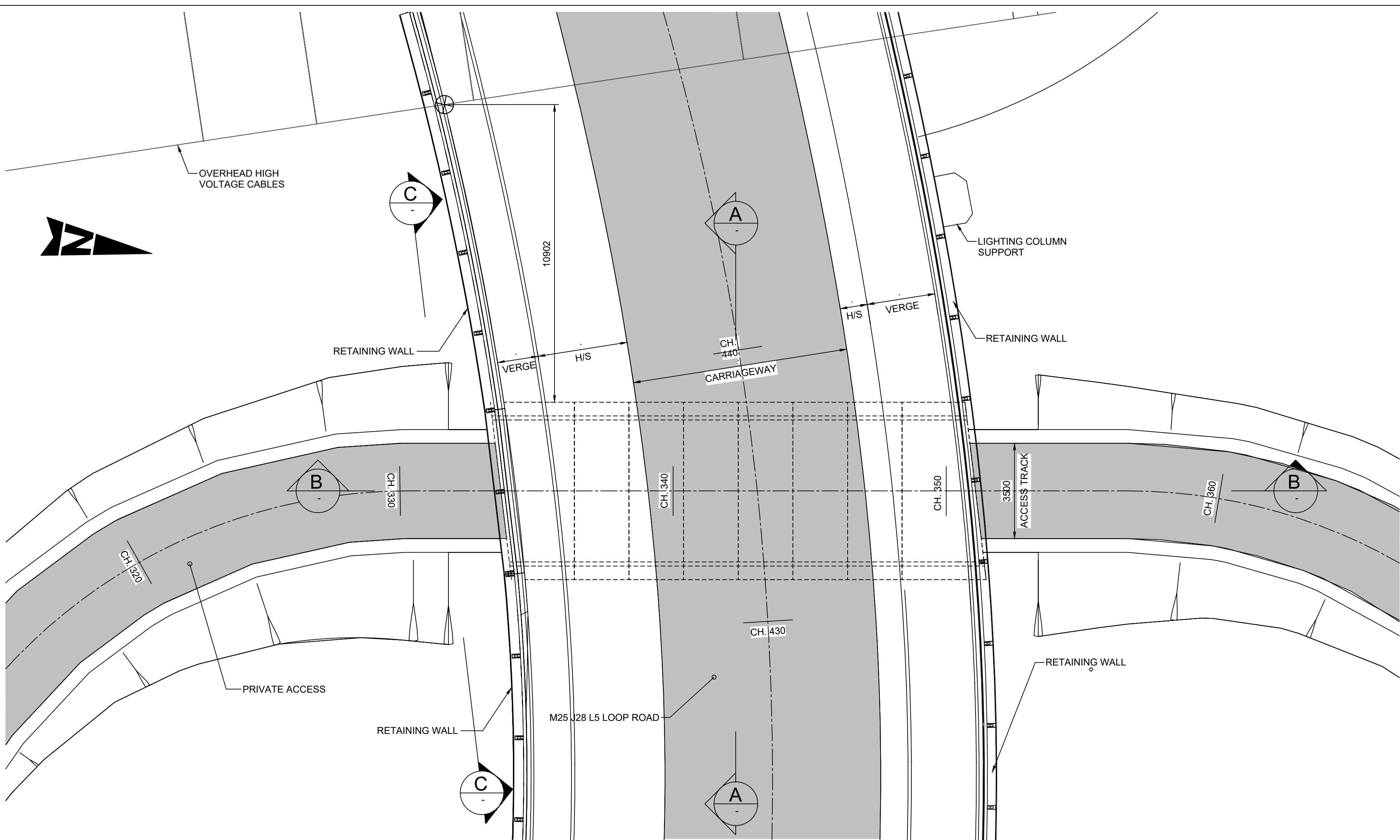
- All dimensions are in millimetres. all levels and chainages are in metres unless noted otherwise.
- Full length of piles not shown, actual length shall be as per geotech recommendation
- The maximum cross fall as per highway typical cross section is 7% maximum
- Drainage not shown
- Utilities not shown.
- The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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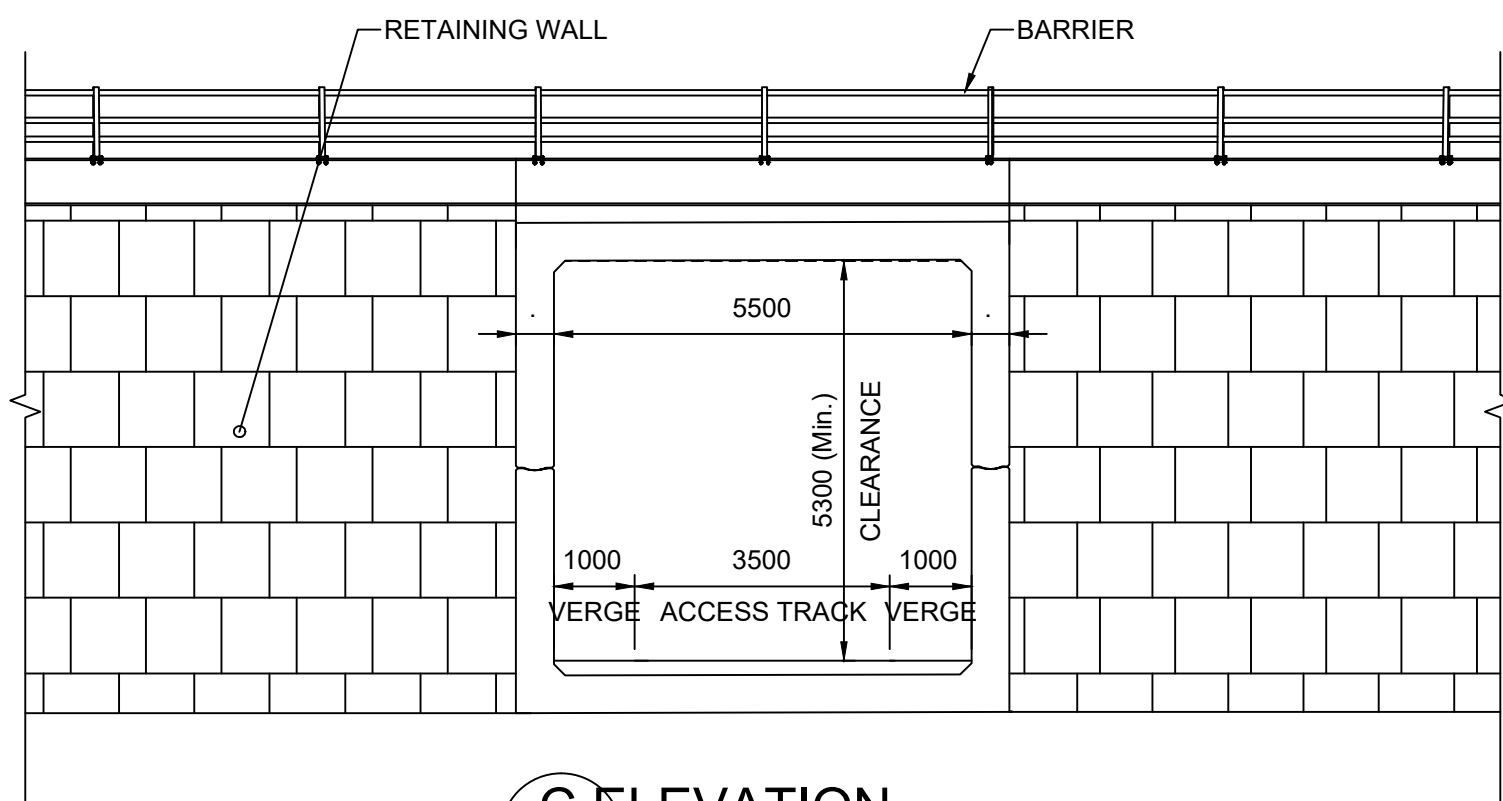
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| Drawing Suitability DCO APPLICATION | | Status A4 | Project Title M25 junction 28 improvement scheme | |
|  SNC-LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright©Atkins Limited (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | |
| | | | | |
| Client Working on behalf of  | | Drawing Number TR10029/APP/2.8 | | Rev: 0 |
| HE PIN: HE551519 | | Scale: As Shown | Original Size: A1 | |

DO NOT SCALE

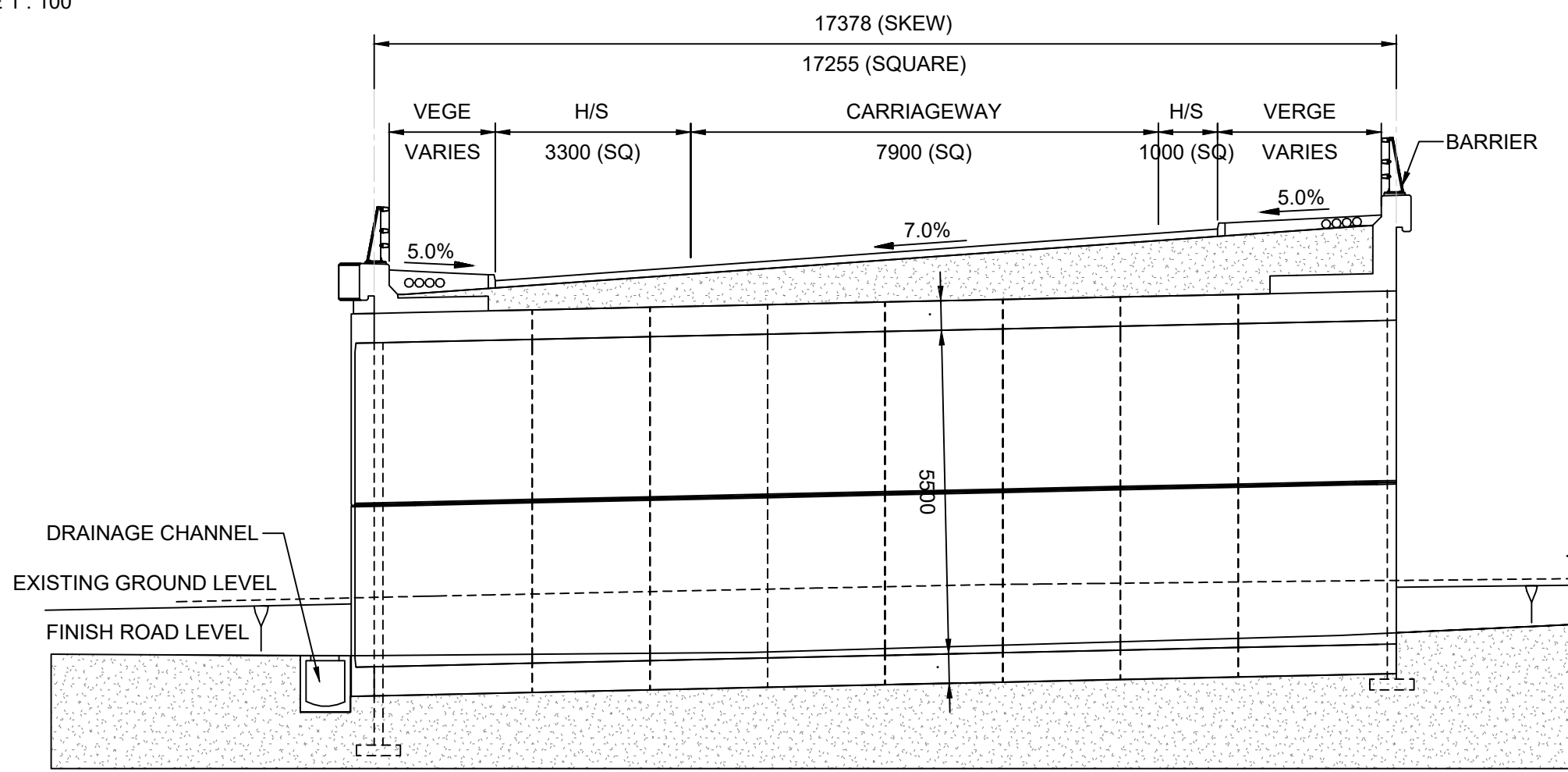
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Millimetres



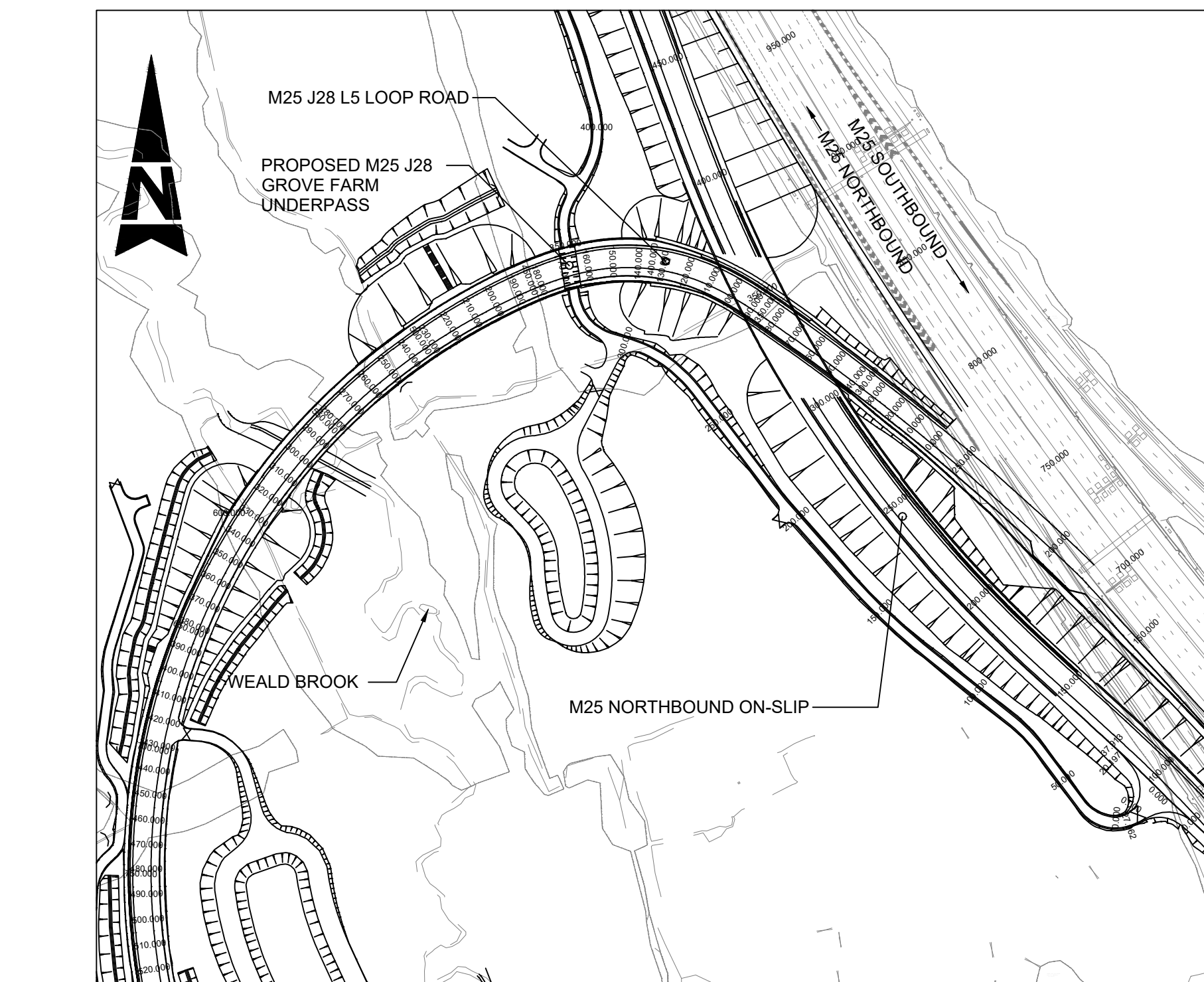
PLAN VIEW
SCALE 1: 100



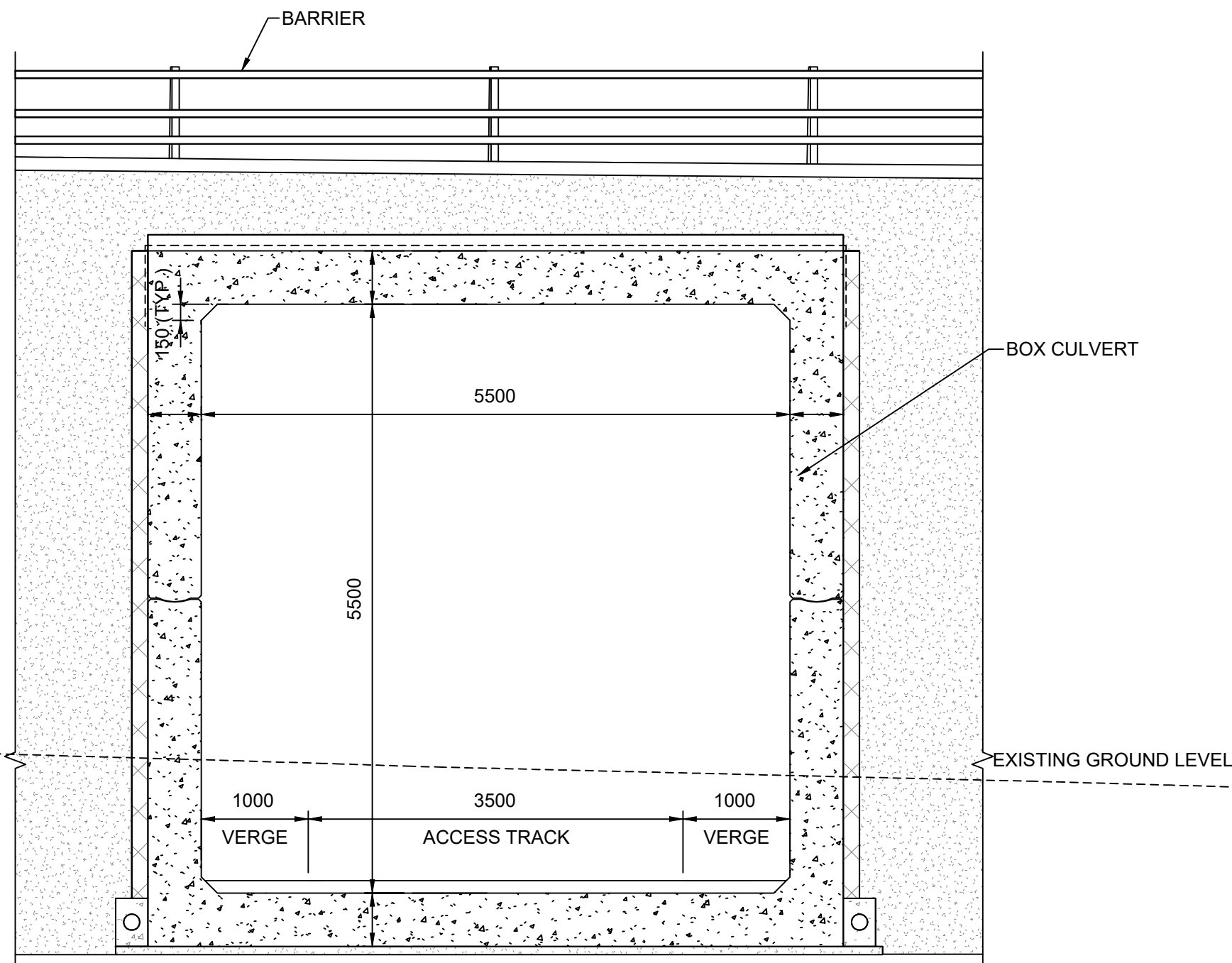
C ELEVATION
SCALE 1: 100



B SECTION
SCALE 1: 100



LOCATION PLAN
SCALE 1: 2000





A SECTION
SCALE 1: 50

Notes

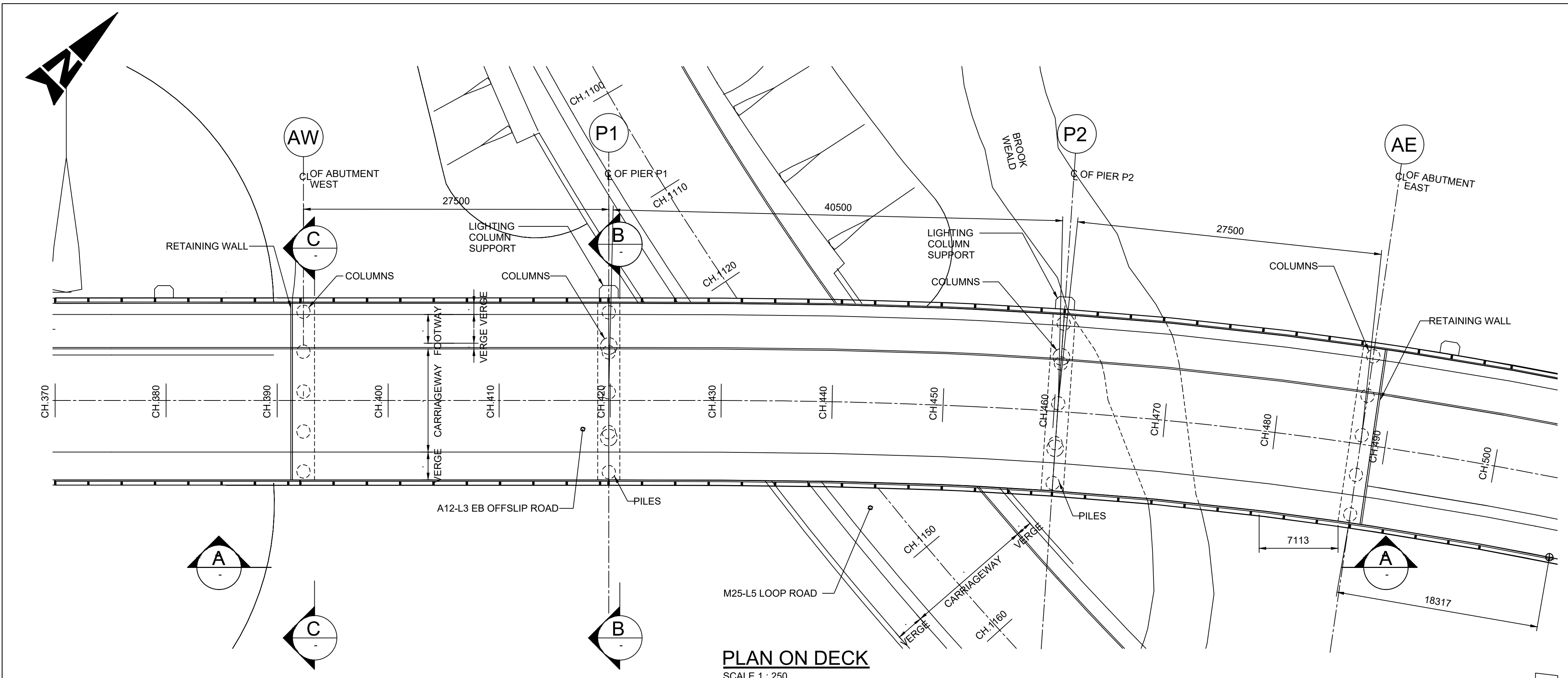
- All dimensions are in millimetres; all levels and chainages are in metres unless noted otherwise.
- Drainage not shown
- Utilities not shown.
- The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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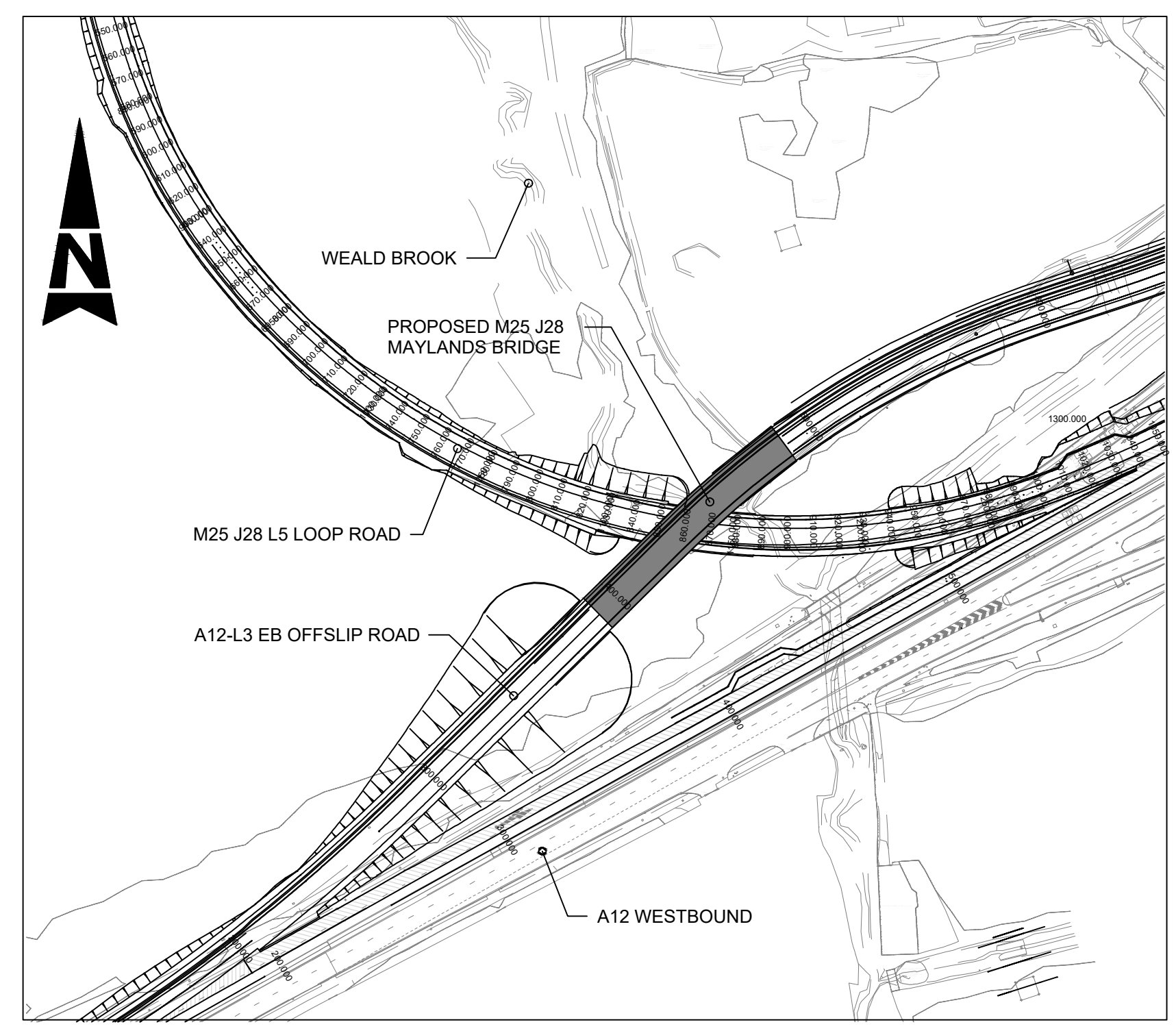
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| Drawing Suitability | | Status | | Project Title | |
| DCO APPLICATION | | A4 | | M25 junction 28 improvement scheme | |
|  Member of the SNC-Lavalin Group Copyright©Atkins Limited (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | Drawing Title | |
| | | | | ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) GROVE FARM UNDERPASS SHEET 4 OF 10 | |
| Client | | Working on behalf of | | Drawing Number | |
|  | | | | TR10029/APP/2.8 | |
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| | | HE PIN: HE551519 | | Scale: As Shown | Original Size: A1 |

DO NOT SCALE

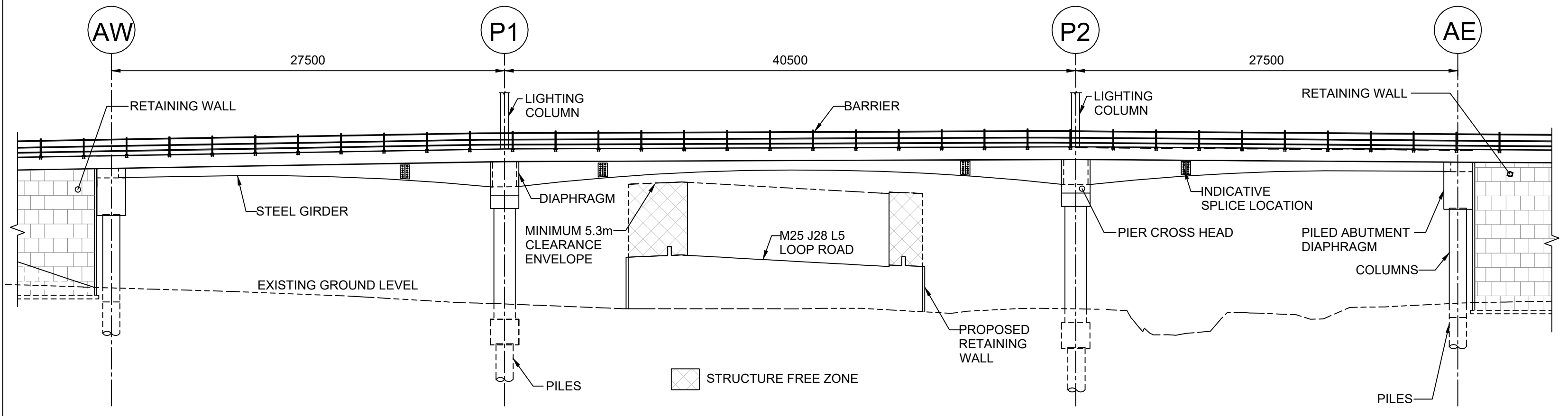
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Millimetres



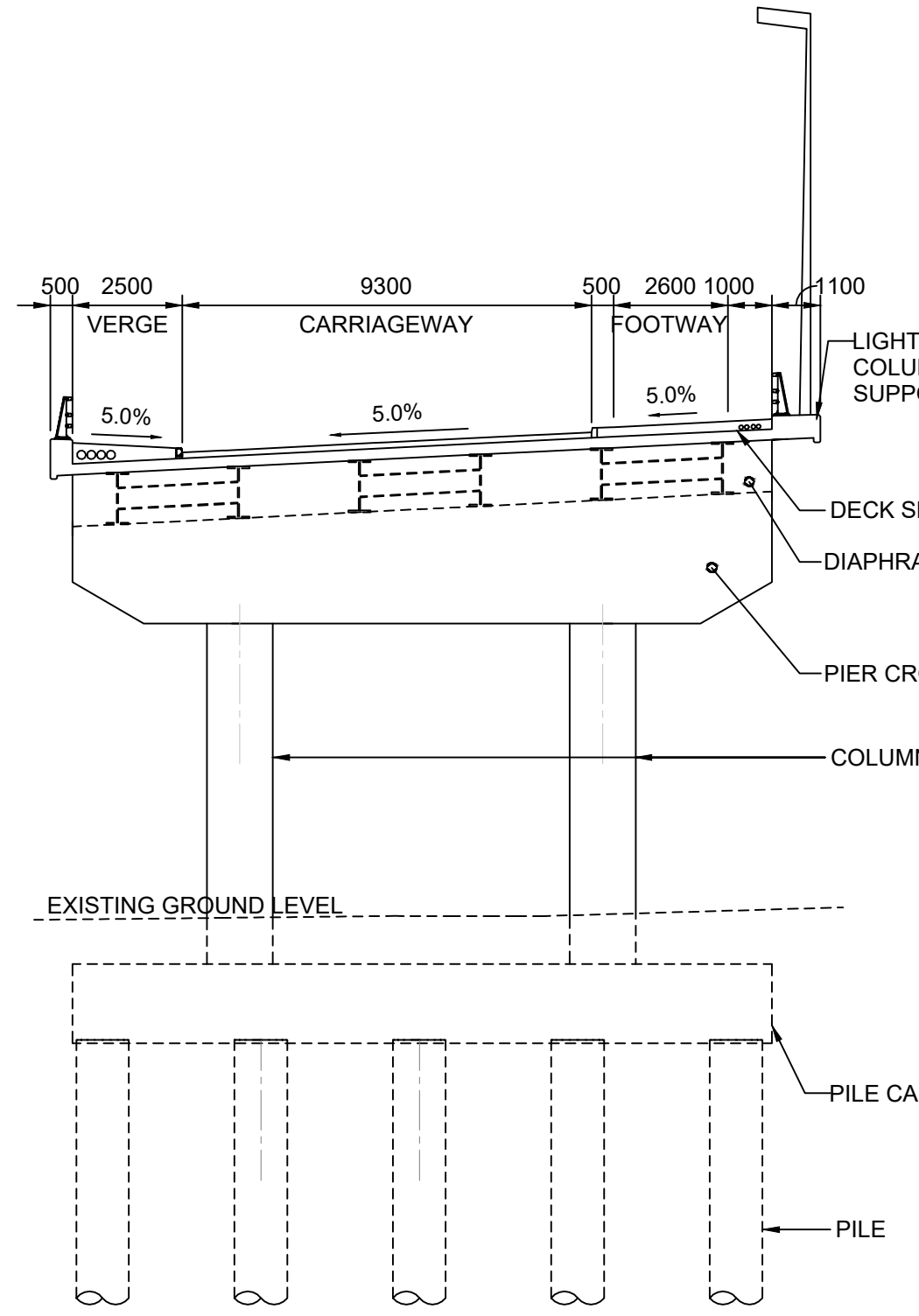
PLAN ON DECK
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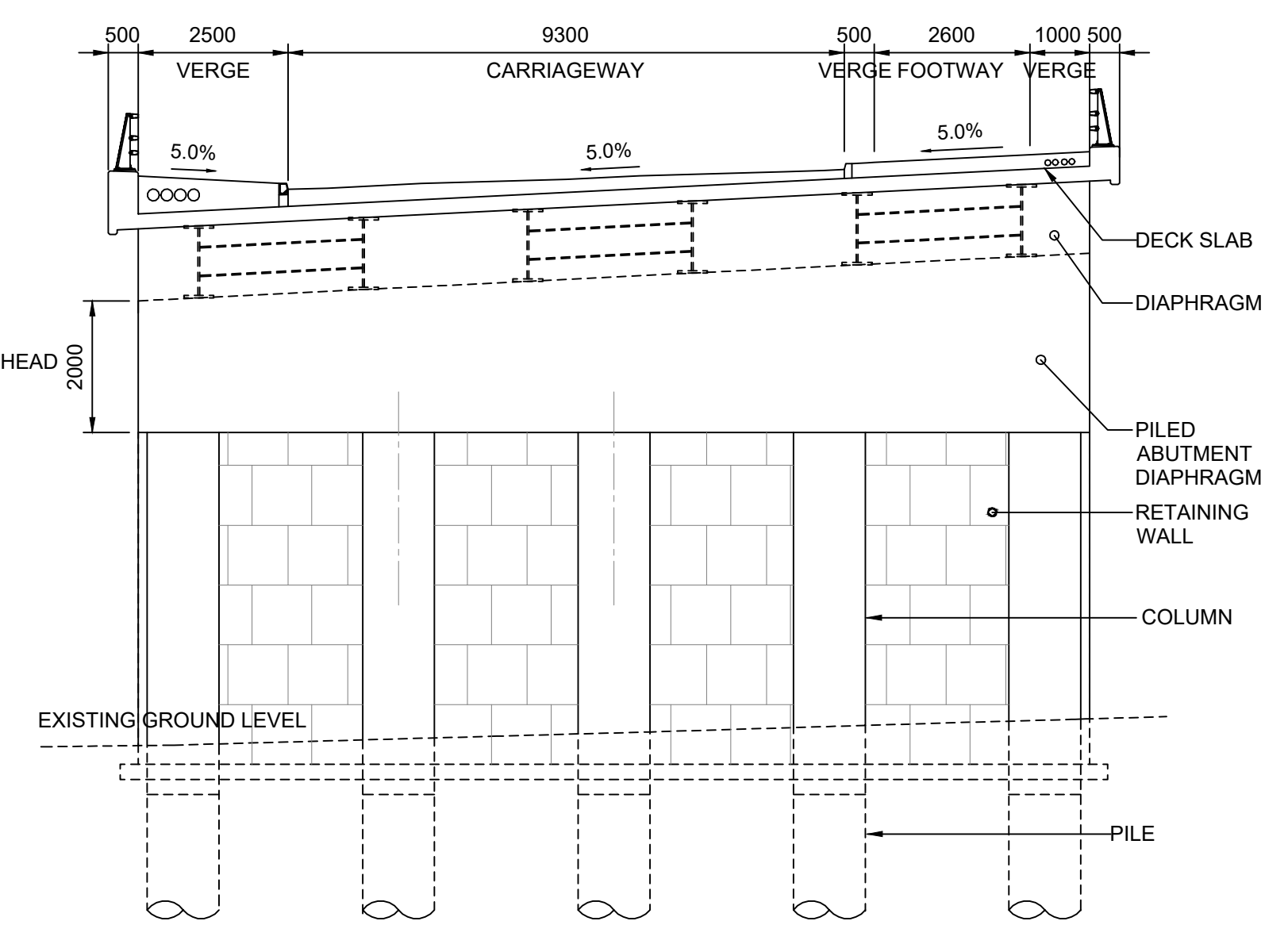
LOCATION PLAN
SCALE 1 : 2000



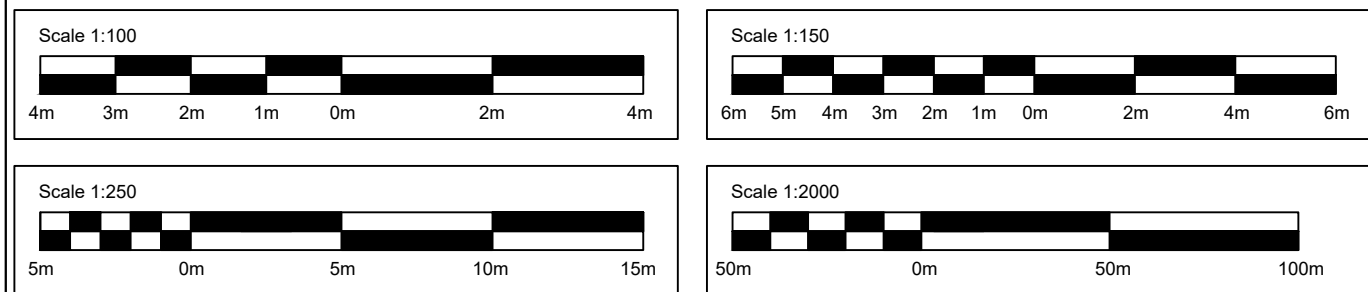
A ELEVATION
SCALE 1 : 250



B SECTION
SCALE 1 : 150



C SECTION
SCALE 1 : 100



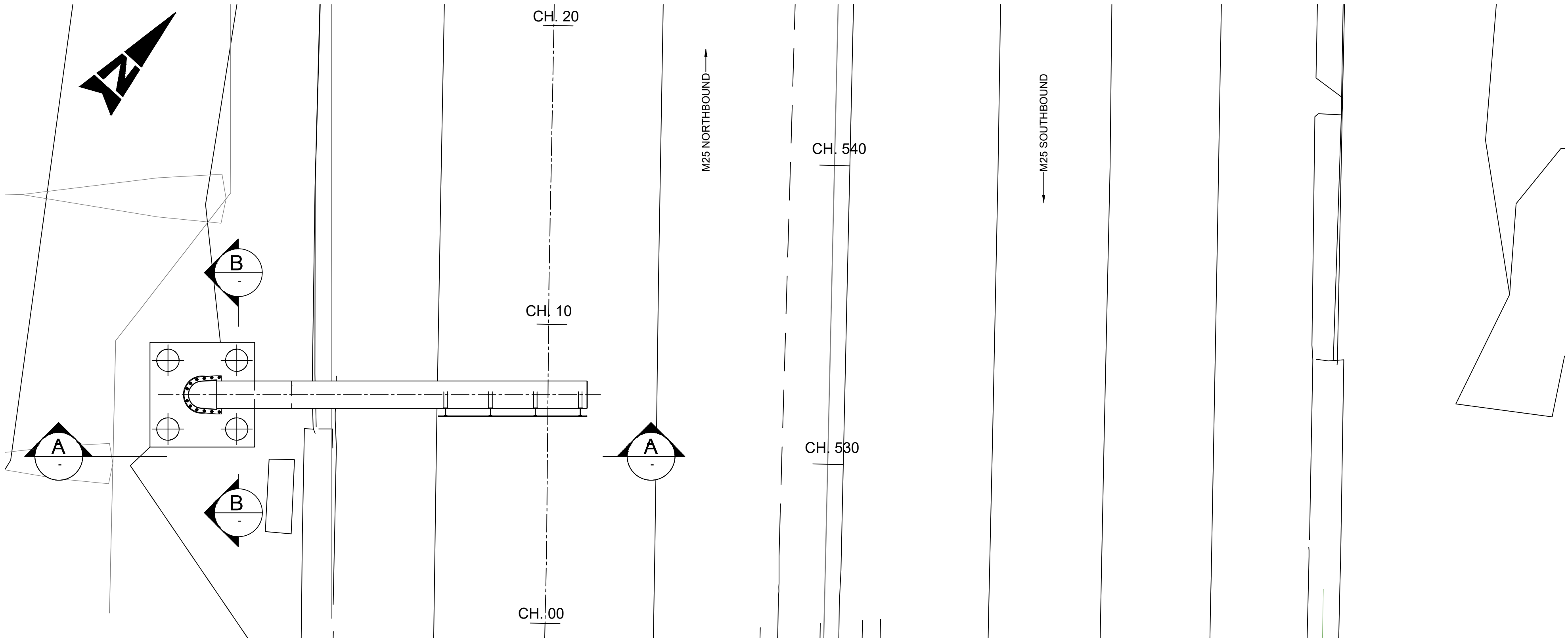
- Notes
- All dimensions are in millimetres; all levels and chainages are in metres unless noted otherwise.
 - Full length of piles not shown. actual length shall be as per geotech recommendation.
 - The splice details shown are indicative.
 - The communication ducts shown are indicative.
 - Drainage not shown
 - Utilities not shown.
 - The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Description | | | | | | |

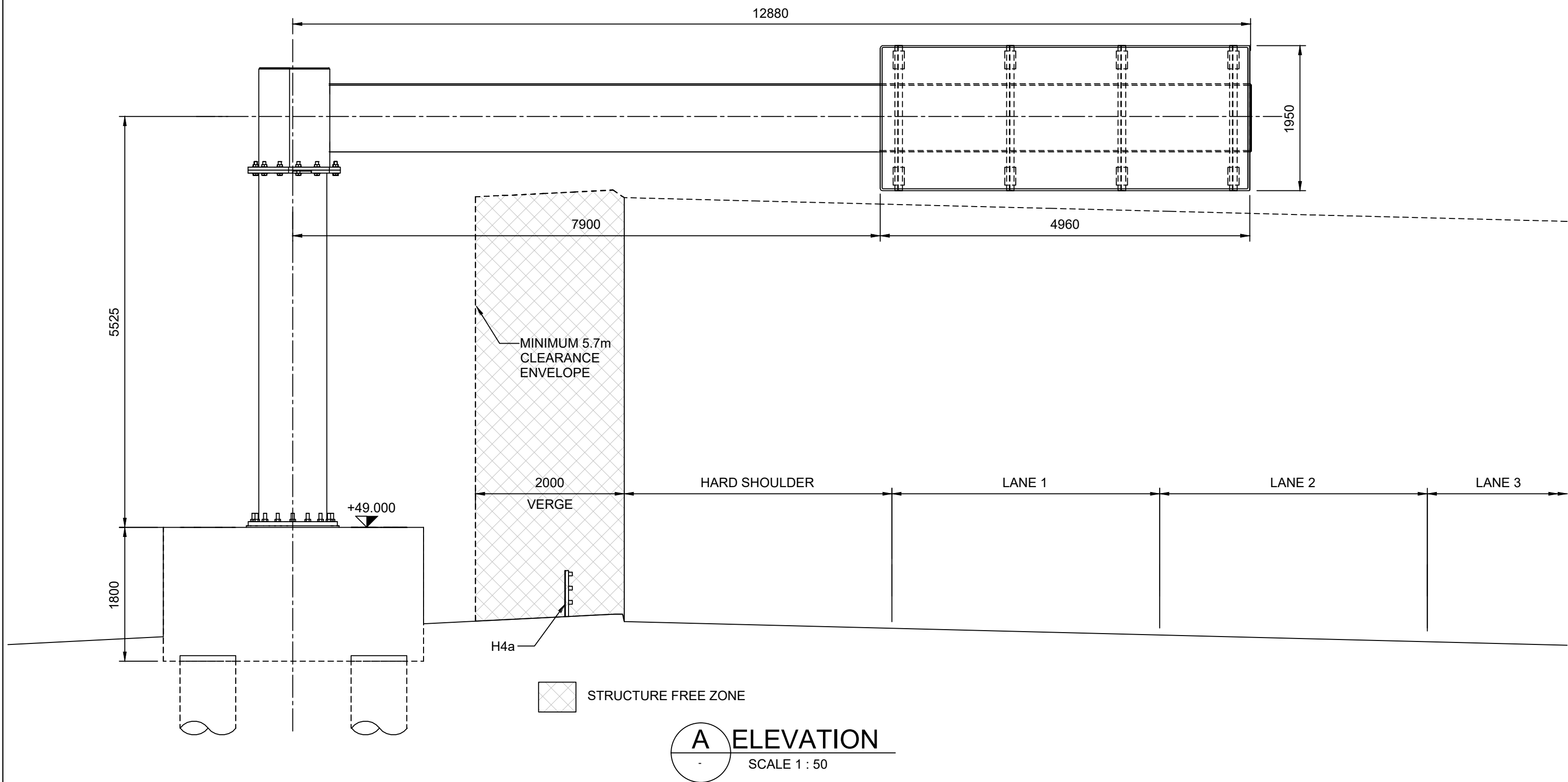
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| Drawing Subtitle DCO APPLICATION | Status A4 | Project Title M25 junction 28 improvement scheme |
| Member of the SNC-Lavalin Group Copyright © Atkins Limited (2020) | | Drawing Title ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) MAYLANDS BRIDGE SHEET 5 OF 10 |
| Client Working on behalf of highways england | | Drawing Number TR10029/APP/2.8 |
| HE PIN: HE551519 | | Scale: As Shown |
| Original Size A1 | | Rev: 0 |

DO NOT SCALE

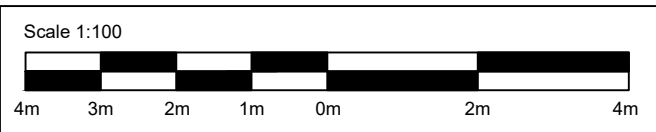
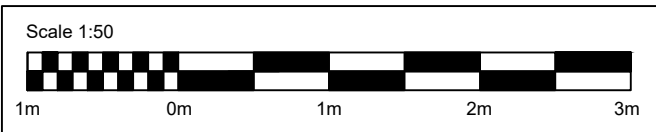
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Millimetres



PLAN
SCALE 1 : 100

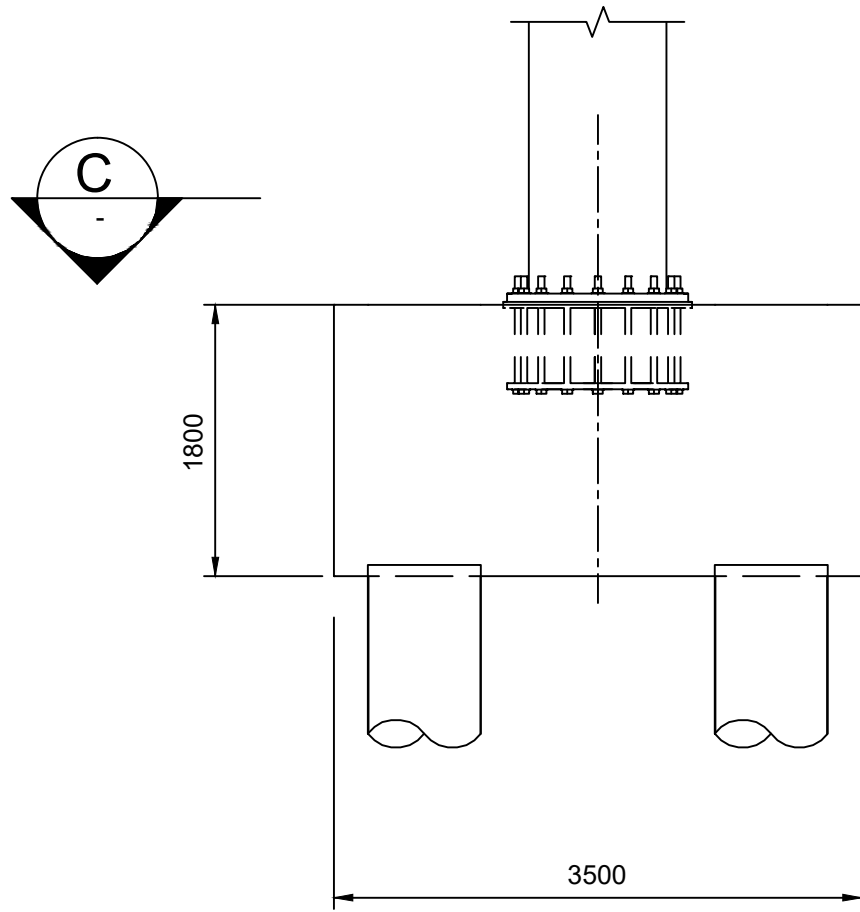


A ELEVATION
SCALE 1 : 50



Notes

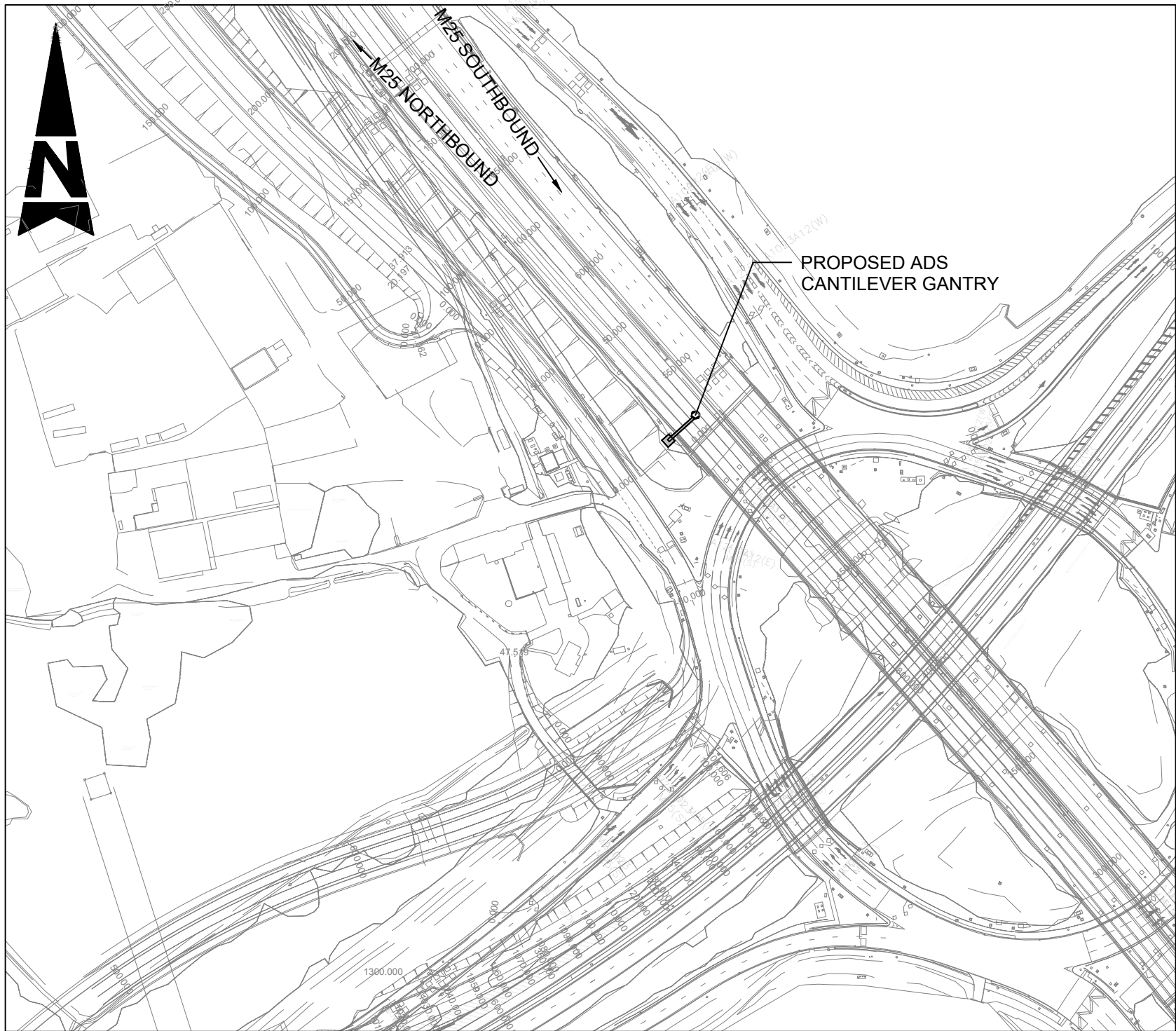
- All dimensions are in millimetres; all levels and chainages are in metres unless noted otherwise.
- All levels and dimensions are taken at centre line chainage of gantry.
- Drainage not shown
- Utilities not shown.
- The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).



B SECTION
SCALE 1 : 50





C SECTION
SCALE 1 : 50



LOCATION PLAN
NOT TO SCALE

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
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| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

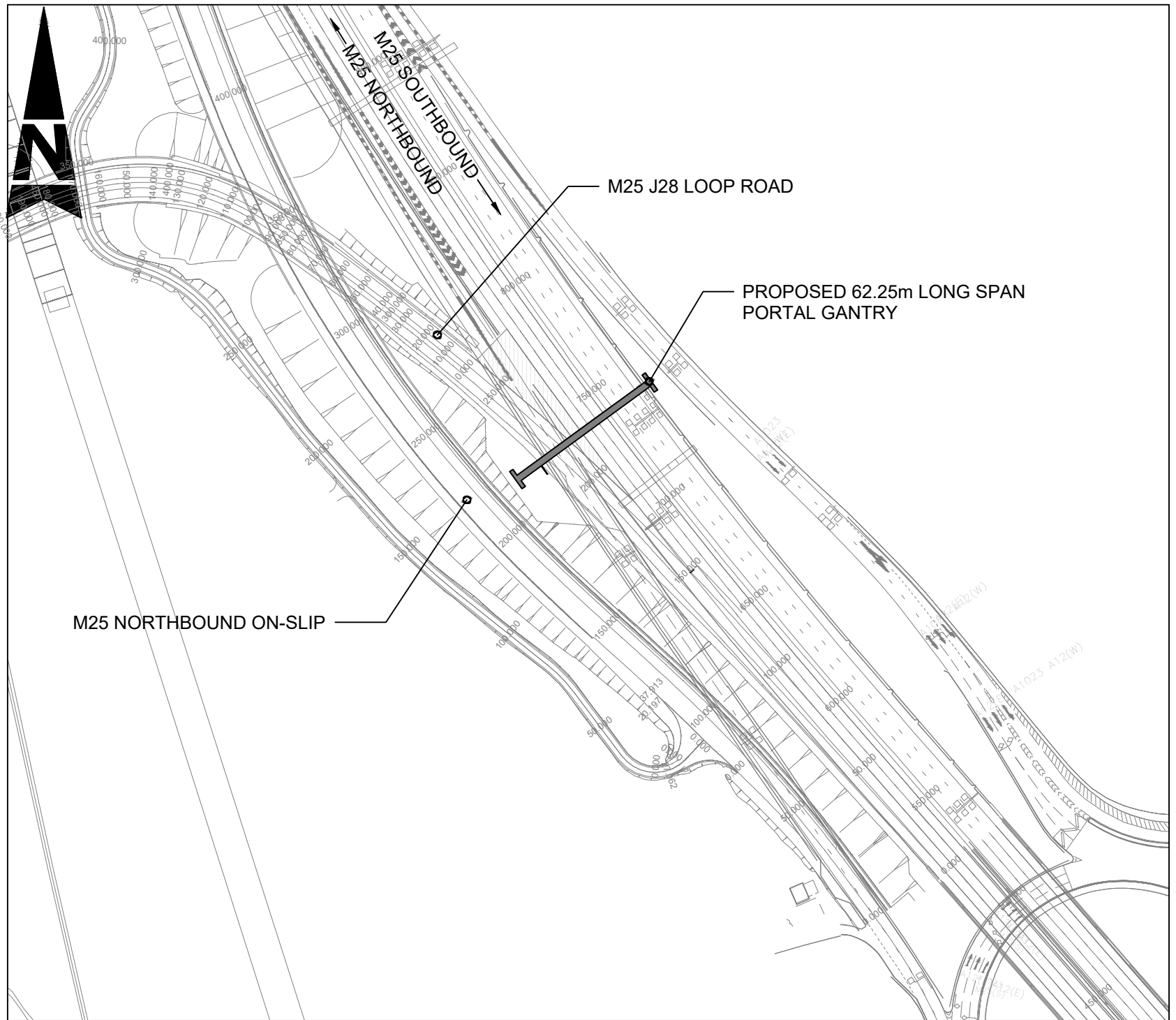
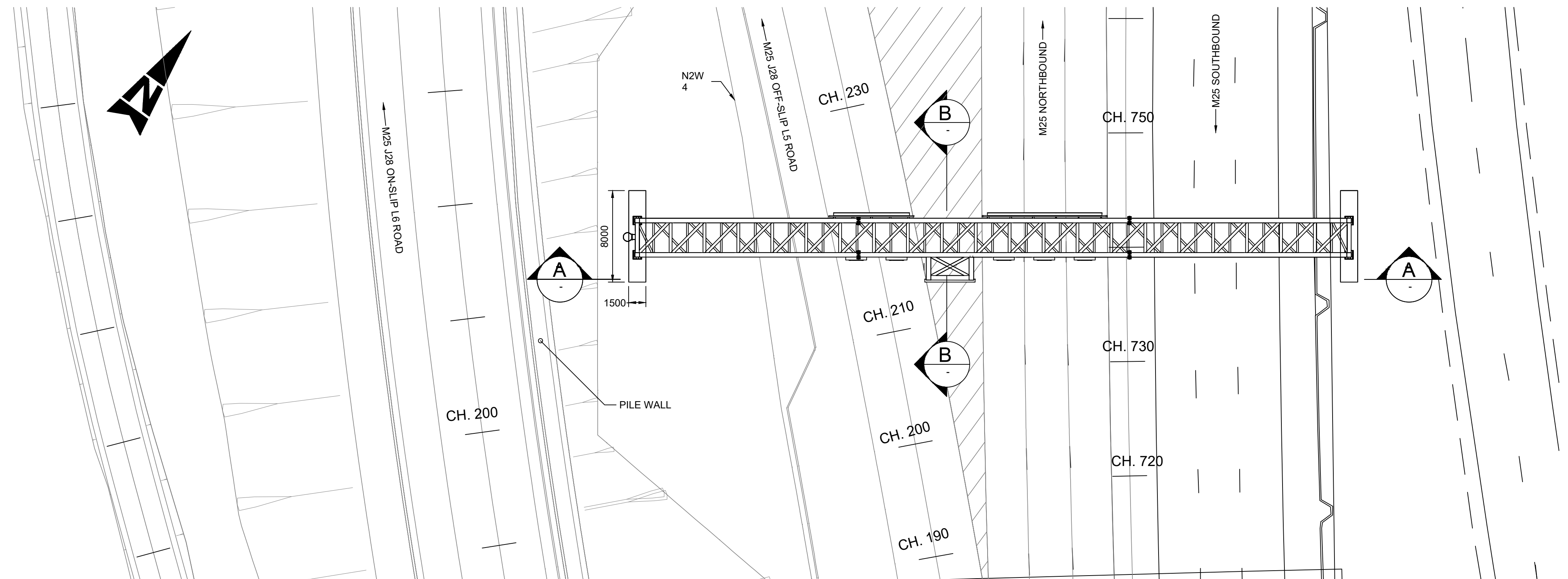
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|--|----------------------|--|------------------------------------|---|
| Drawing Suitability | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
|  <p>SNC+LAVALIN ATKINS</p> <p>Member of the SNC-Lavalin Group Copyright©Atkins Limited (2020)</p> | | <p>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU</p> <p>Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</p> | | <p>Drawing Title</p> <p>ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) PROPOSED ADS CANTILEVER GANTRY AT CH.530 SHEET 6 OF 10</p> |
| Client | Working on behalf of | | Drawing Number | Rev: |
|  | | | TR10029/APP/2.8 | 0 |
| HE PIN: HE551519 | | Scale: | As Shown | Original Size: A1 |

DO NOT SCALE

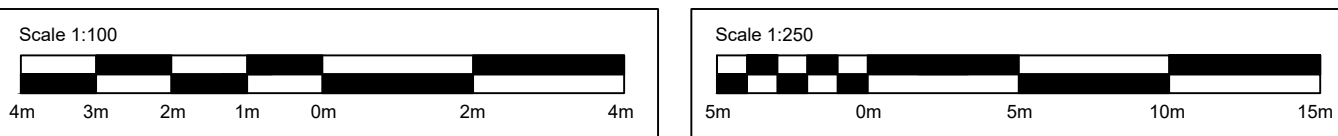
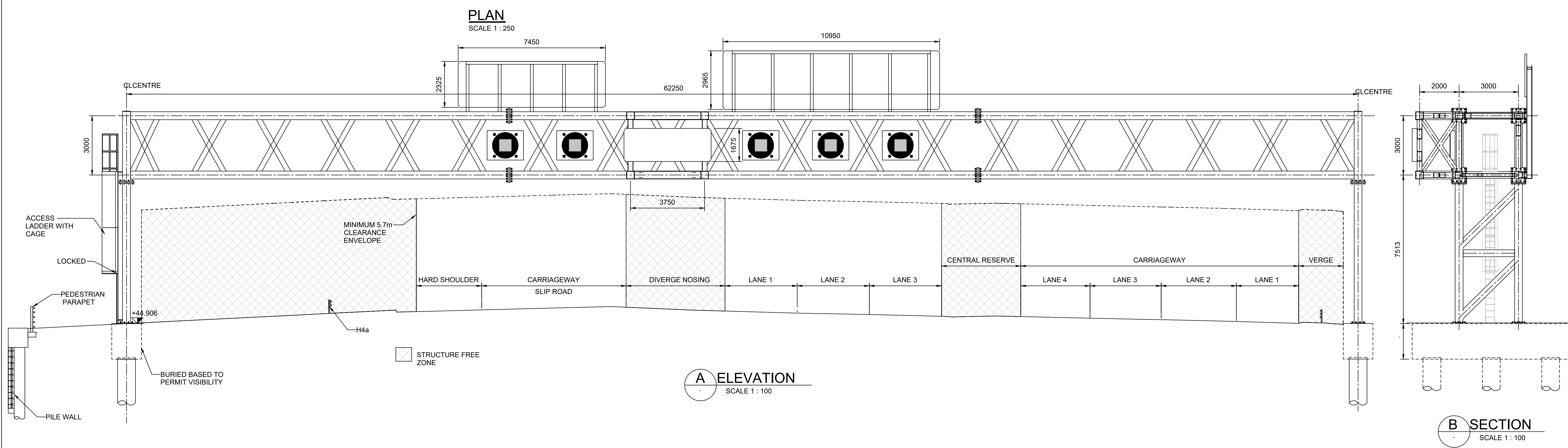
Millimetres

0 10

100



LOCATION PLAN
NOT TO SCALE



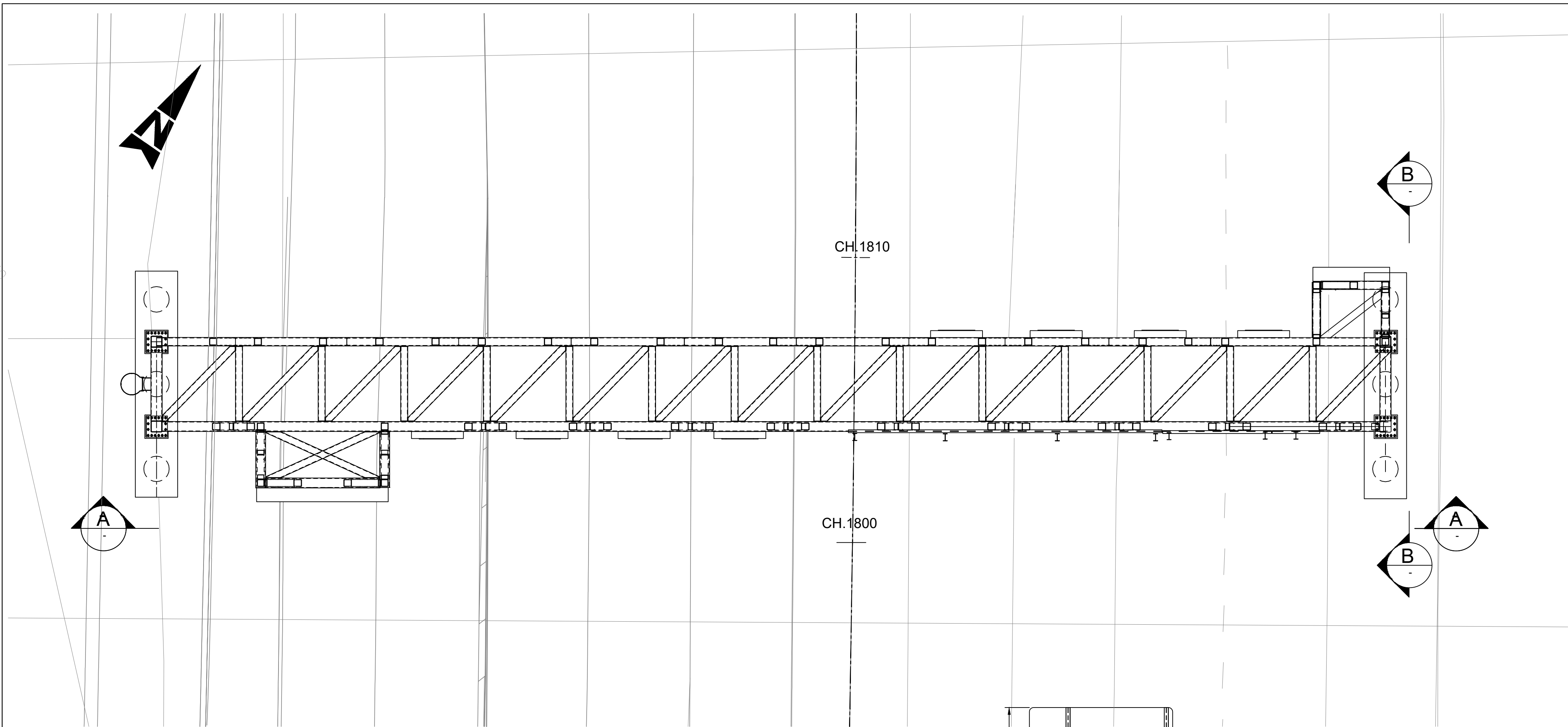
- Notes**
- All dimensions are in millimetres; all levels and chainages are in metres unless noted otherwise.
 - All levels and dimensions are taken at centre line chainage of gantry.
 - Drainage not shown
 - Utilities not shown.
 - The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| | | | | | | | | | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|--|--|---|--|------------------------------------|-------------------|---|--|
| Description | | | | | | | Drawing Suitability | | Status | | Project Title | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | DCO APPLICATION | | A4 | | M25 junction 28 improvement scheme | | | |
| Description | | | | | | |  SNC • LAVALIN ATKINS Member of the SNC-Lavalin Group Copyright © Atkins Limited (2020) | | Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com | | | | Drawing Title ENGINEERING SECTIONS REGULATIONS 5(2)(o) AND 6(2) PROPOSED 62.25m LONG SPAN PORTAL GANTRY AT CH.740 SHEET 7 OF 10 | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | | | | | | | | |
| Description | | | | | | | | | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | | | | | | | | |
| Description | | | | | | | Client  | | Drawing Number TR10029/APP/2.8 | | | | Rev: 0 | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | | | | | | | | |
| Description | | | | | | | | | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date | | | | | | | | |
| Description | | | | | | | | | HE PIN: HE551519 | | Scale: As Shown | Original Size: A1 | | |

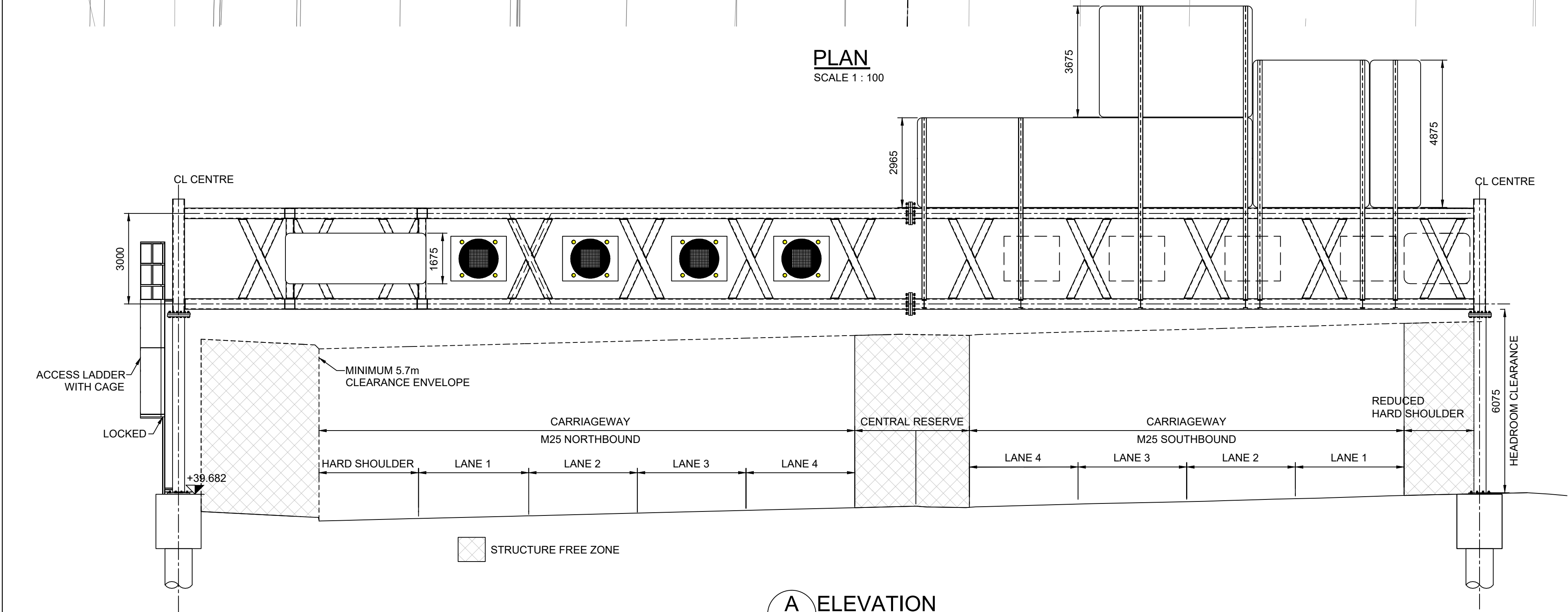
DO NOT SCALE

Millimetres

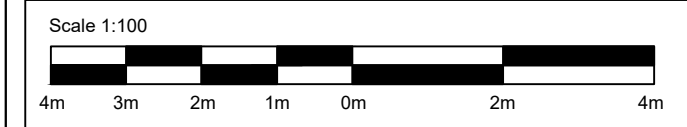
0 10 100



PLAN
SCALE 1 : 100



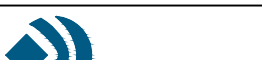
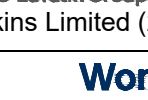
A ELEVATION
SCALE 1 : 100

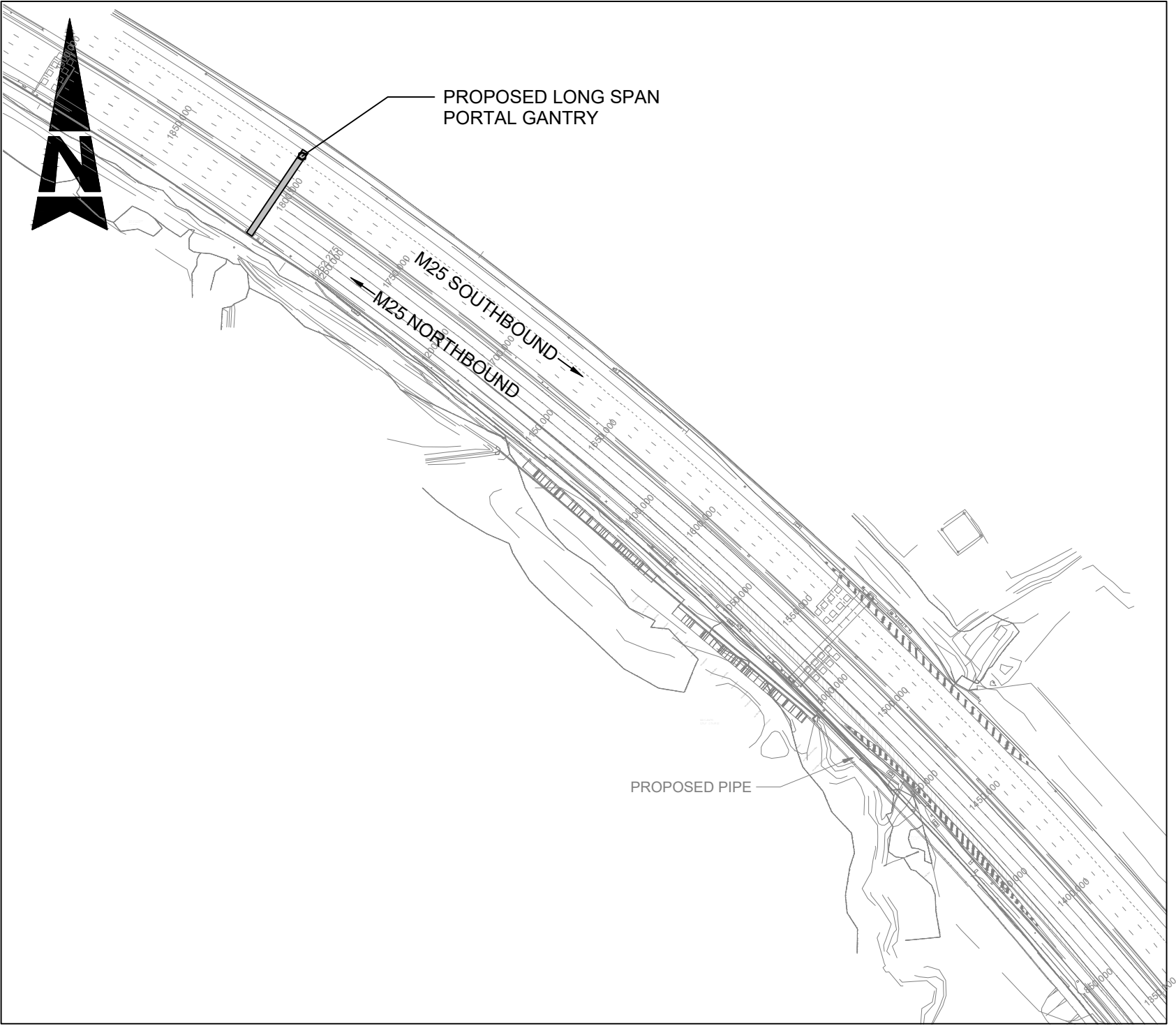


Notes

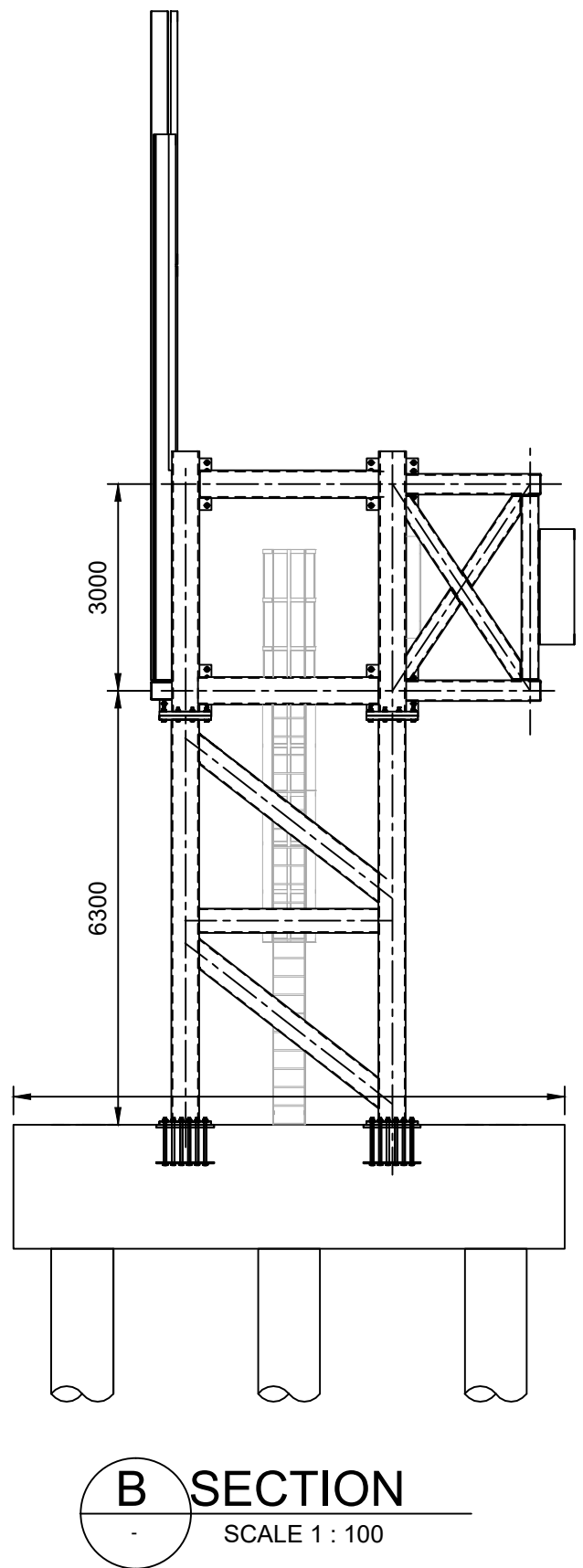
1. All dimensions are in millimetres; all levels and chainages are in metres unless noted otherwise.
2. All levels and dimensions are taken at centre line chainage of gantry.
3. Drainage not shown.
4. Utilities not shown.
5. The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| Description | | | | | | |
|-------------|----------|-------|---------|----------|------------|------------|
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |
| Description | | | | | | |
| Status | Revision | Drawn | Checked | Reviewed | Authorised | Issue Date |

| | | | | |
|--|---|--|------------------------------------|-------------------|
| Drawing Subtitle | | Status | Project Title | |
| DCO APPLICATION | | A4 | M25 junction 28 improvement scheme | |
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| Client | Working on behalf of  highways england | | Drawing Number | Rev: |
| | | | TR10029/APP/2.8 | 0 |
| | | HE PIN: HE551519 | Scale: As Shown | Original Size: A1 |



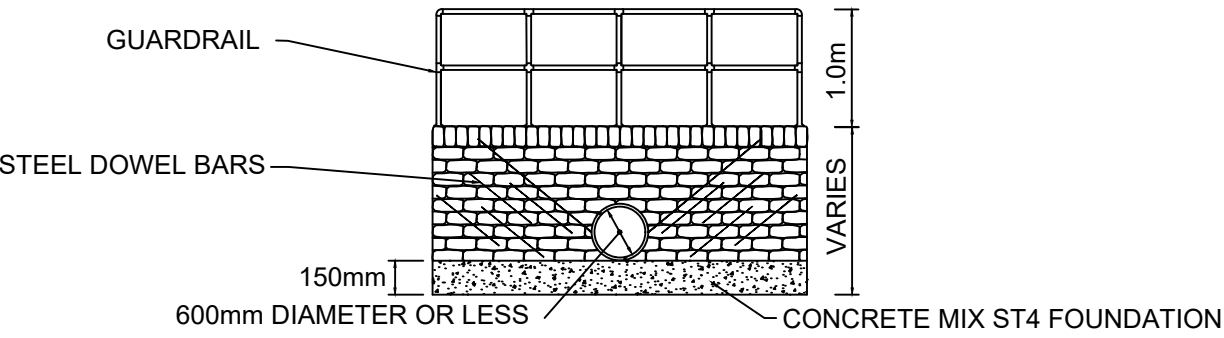
LOCATION PLAN
NOT TO SCALE



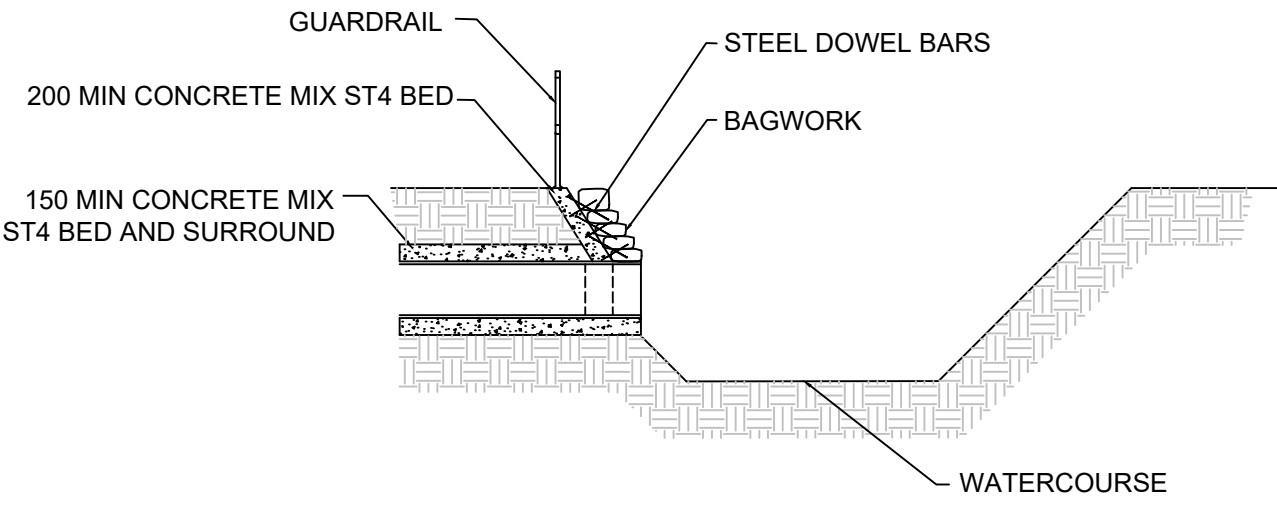
B SECTION
SCALE 1 : 100

100
Millimetres
10
0
DO NOT SCALE

BAGWORK HEADWALL

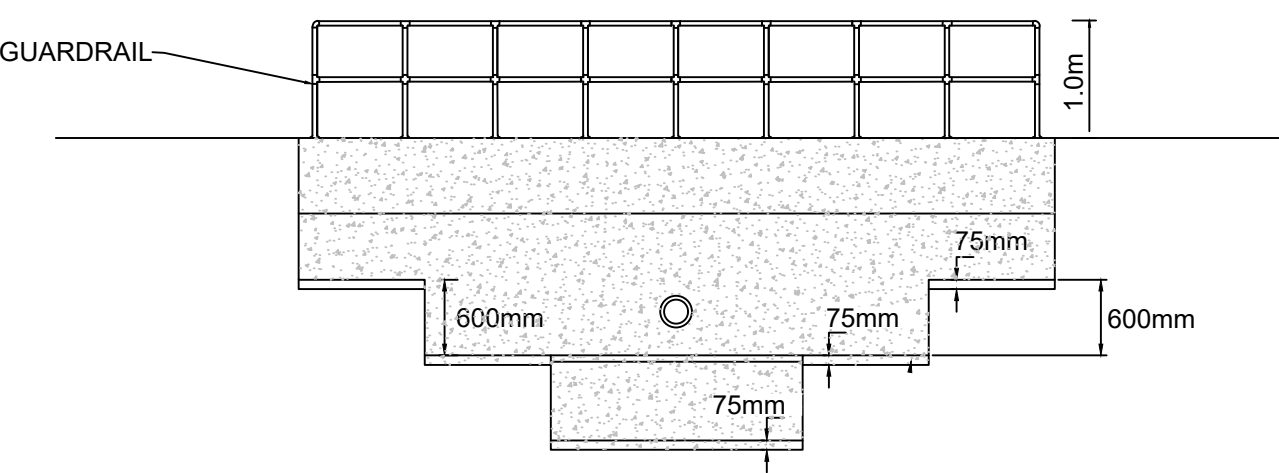


ELEVATION

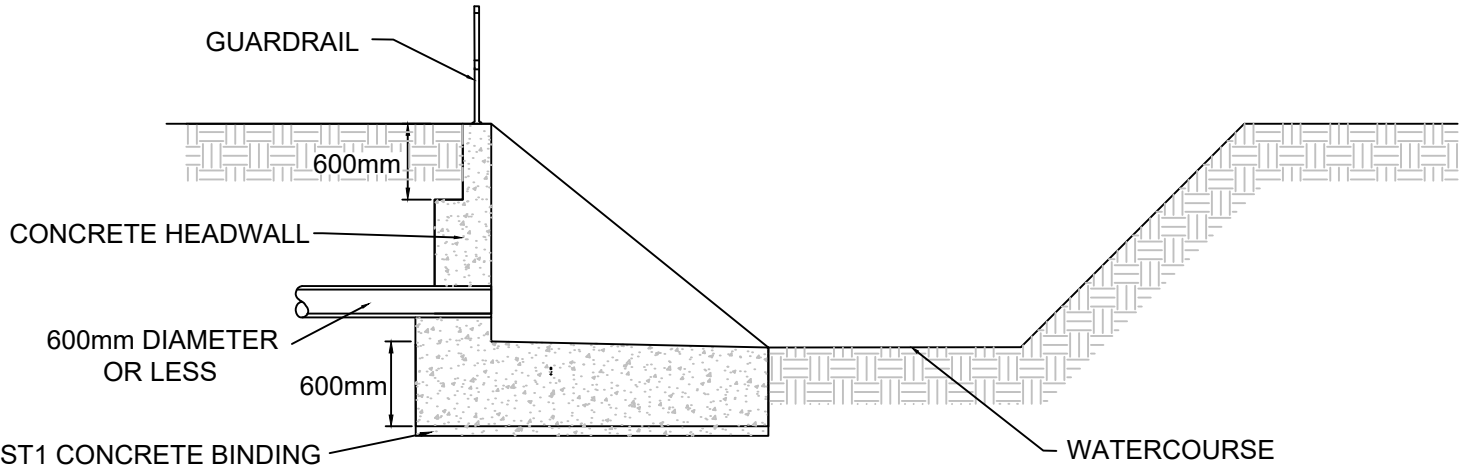


CROSS SECTION

CONCRETE HEADWALL



ELEVATION



CROSS SECTION

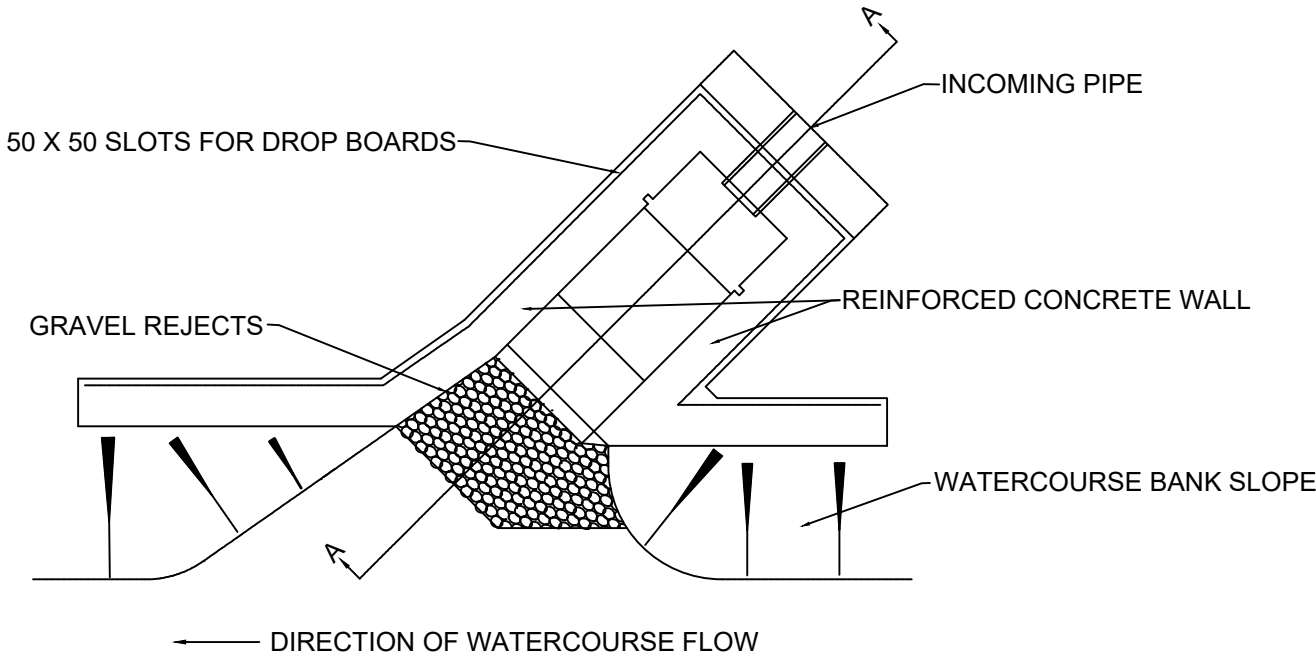
Notes

1. All dimensions are in millimetres unless stated otherwise.
2. Bag sizes nominally 500 x 300 x 120.
3. The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

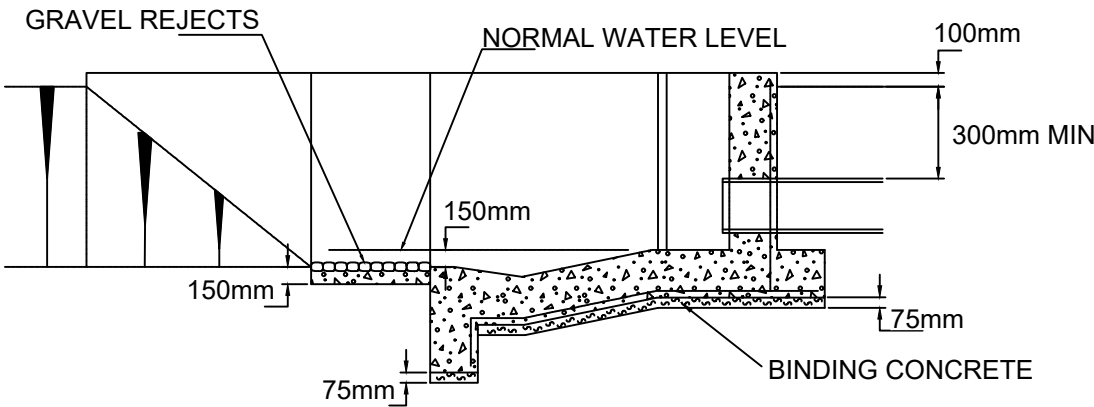
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|-------------|--|--|--|--|--|--|---|--|-------|--------|---------|---------------|----------|--|------------|--|----------------|--|-----------------|------|---------|---|----------|------------------------------------|------------------|--|------------|---|---|--|--|
| Description | | | | | | | Drawing Suitability | | | Status | | Project Title | | | | | | | | | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | DCO APPLICATION | | | A4 | | M25 junction 28 improvement scheme | | | | | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
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| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | ENGINEERING SECTION REGULATIONS 5(2) (o) AND 6(2) TYPICAL HEADWALL SHEET 9 OF 10 | | |
| Description | | | | | | | | | | | | | | | | | Drawing Number | | | Rev: | | | | | | | | | | | |
| Status | | | | | | | Revision | | Drawn | | Checked | | Reviewed | | Authorised | | Issue Date | | Client | | | Working on behalf of  | | | TR010029/APP/2.8 | | | 0 | | | |
| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com</div></div> <div>Member of the SNC-Lavalin Group Copyright © SNC Lavalin (2020)</div> | | | | | | | | | | Drawing Title | | | | | | | | | | | | | | |
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| Description | | | | | | | <div><div>Amlin House Atkins 4th Floor 90-96 Victoria Road Chelms</div></div> | | | | | | | | | | | | | | | | | | | | | | | | |

100
Millimetres
10
0
DO NOT SCALE

REINFORCED CONCRETE HEADWALL



PLAN



SECTION A - A

Notes

- 1. All dimensions are in millimetres unless stated otherwise.
- 2. The proposed structures will be subject to detailed design development. Any changes will be limited to being within the DCO boundary or the relevant limits of deviation where not coincident with the DCO boundary and subject to the requirements of Schedule 2 of the Development Consent Order (application document TR010029/APP/3.1).

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Description | | | | | | | Drawing Suitability | | | Status | | Project Title | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | TR010029/APP/2.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | HE PIN: HE551519 | | | | | | | | | | | | | | Scale: NTS | | | | | | | | | | | | | | Original Size: A3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | Revision | | | | | | | | | | | | | | | | | | | | | | | | | | | | Drawn | | | | | | | | | | | | | | | | | | | | | | | | | | | | Checked | | | | | | | | | | | | | | | | | | | | | | | | | | | | Reviewed | | | | | | | | | | | | | | | | | | | | | | | | | | | | Authorised | | | | | | | | | | | | | | | | | | | | | | | | | | | | Issue Date | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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