

Wylfa Newydd Project

Volume 2: Plans, Sections and Drawings (Part 10/19)

2.7 A5025 Off-line Highway Improvements – Section 1

PINS Reference Number: EN010007

Application Reference Number: 2.7

June 2018

Revision 1.0

Regulation Number: 5(2)(o)

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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NOT PROTECTIVELY MARKED

NOTES

1. Existing ground levels based on topographical survey information from surveys undertaken.

LEGEND

- Order Limits
- Existing Overhead Services

1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd

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WYLFA NEWYDD DCO PROJECT

Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
EXISTING SITE PLAN

Regulation 5 (2) (o)

Regulation 3 (2) (b)

NOT PROTECTIVELY MARKED					
Scale	1:2000	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number					Rev
W/N0002-L3DCC-01W-DPC-00001					1.0

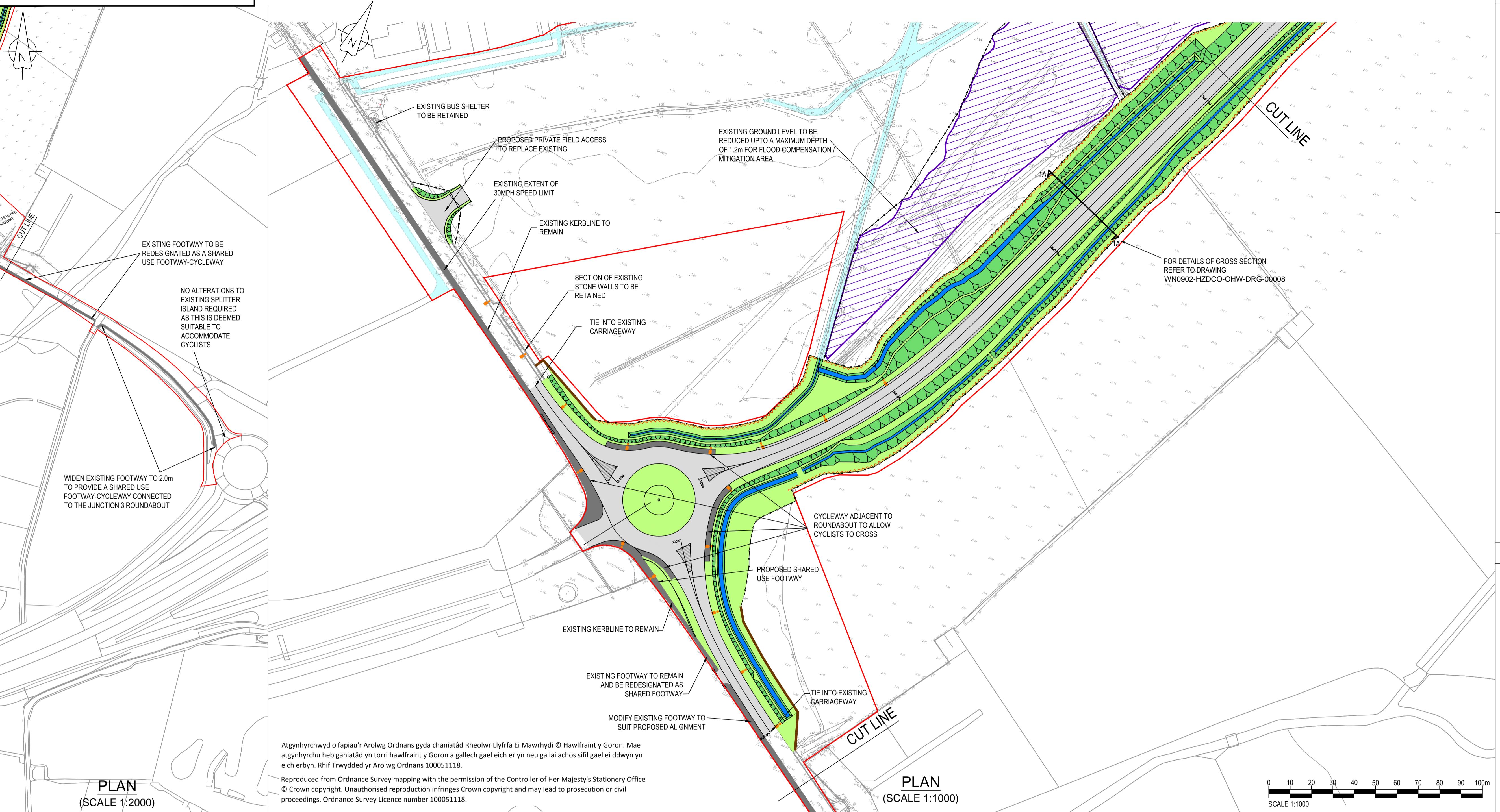
A map showing the Y Fali Valley area. The word 'Y Fali' is written vertically along the valley floor, and '(Valley)' is written below it. A small circle labeled 'Depot' is located on the northern side of the valley. The map includes several intersecting lines representing roads or boundaries.

Atgynhyrwyd o fapiau'r Arolwg Ordnans gyda chaniatâd Rheolwr Llyfrfa Ei Mawrhydi © Hawlfraint y Goron. Ma atgynhyrchu heb ganiatâd yn torri hawlfraint y Goron a gallech gael eich erlyn neu gallai achos sifil gael ei ddwyn y eich erbyn. Rhif Trwydded yr Arolwg Ordnans 10005118.

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Proceedings of the Senate, Volume 1, Session 2013-2014.

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NOTES

- All dimensions in metres unless stated otherwise.
- All levels in metres unless stated otherwise.
- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
- Existing ground levels based on topographical survey information from surveys undertaken.
- The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
- Road alignment geometry has been designed in accordance with DMRB td 9/93.
- Roundabout geometry designed in accordance with DMRB td 16/07.
- For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00005 & 00006.
- Lighting to be provided for a minimum of 105m on each approach to the roundabout and the lighting will comprise 10m high galvanised steel columns, brackets and lanterns at 30m centres.
- For details of landscaping and planting refer to Design Access Statement (DAS).

LEGEND

- Order Limits
- Existing overhead services
- Proposed carriageway
- Proposed shared use footway-cycleway
- Proposed splitter islands
- Proposed verge / landscaping
- Proposed earthworks slopes
- Existing watercourse
- Proposed highway boundary fence
- Proposed stone wall
- Proposed hedgerow
- Proposed gated private means of access
- Proposed land drainage ditch
- Proposed street lighting column
- Flood mitigation area

REFERENCE DRAWINGS

WN0902-HZDCO-OHW-DRG-00003 - SHEET 2
 PROPOSED DRAINAGE PLAN
 WN0902-HZDCO-OHW-DRG-00005 & 00006
 PROPOSED CROSS SECTIONS
 WN0902-HZDCO-OHW-DRG-00008

1.0	MAY 2018	FOR DCO SUBMISSION	HNWL	HNWL	HNWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Apprv'd

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**WYLFA NEWYDD
DCO PROJECT**

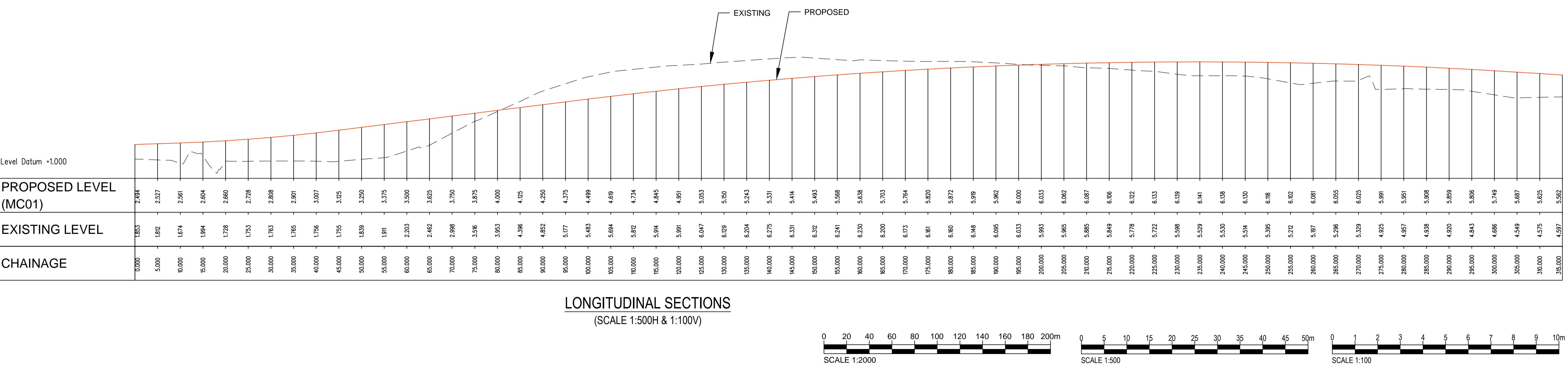
Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED GENERAL
ARRANGEMENT PLAN - SHEET 1**

Regulation 5 (2) (o)

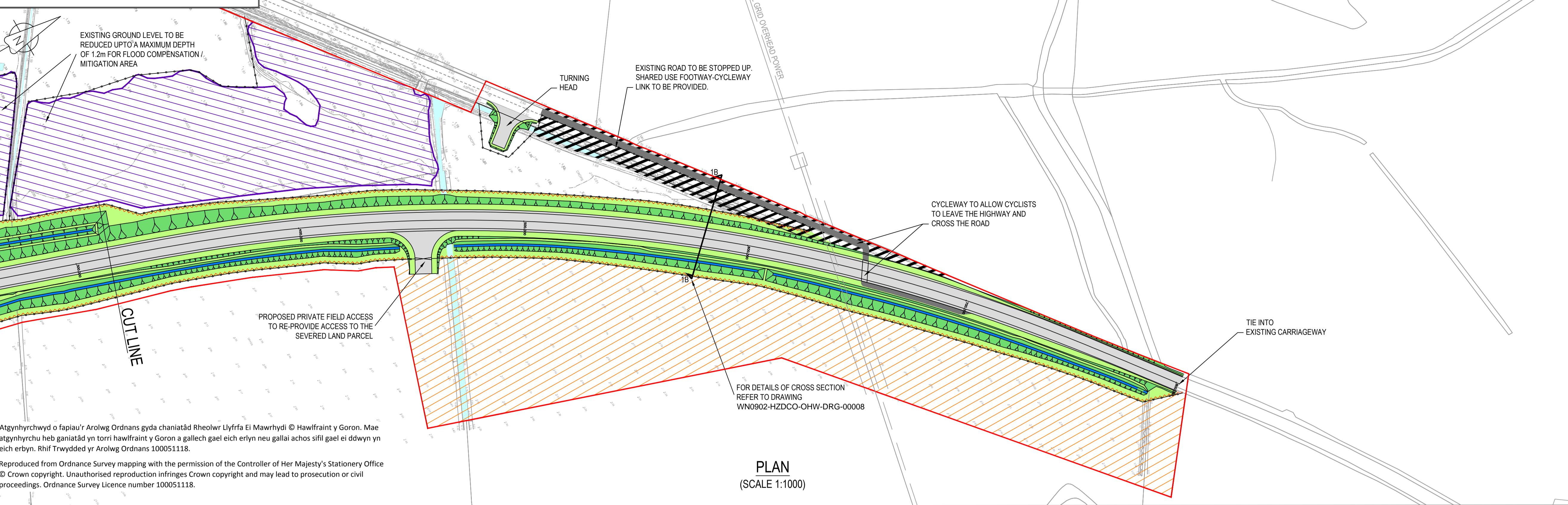
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Security Status	AS SHOWN	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number	WN0902-HZDCO-OHW-DRG-00002	Rev			

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NOTES

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- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
- Existing ground levels based on topographical survey information from surveys undertaken.
- The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
- Road alignment geometry has been designed in accordance with DMRB td 9/93.
- Roundsabout geometry designed in accordance with DMRB td 16/07.
- For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00005 & 00006.
- Lighting to be provided for a minimum of 105m on each approach to the roundabout and the lighting will comprise 10m high galvanised steel columns, brackets and lanterns at 30m centres.

LEGEND

- Order Limits
- Existing overhead services
- Proposed carriageway
- Proposed shared use footway-cycleway
- Existing carriageway to be stopped up
- Proposed verge
- Proposed earthworks slopes
- Existing watercourse
- Proposed highway boundary fence
- Proposed hedgerow
- Proposed land drainage ditch
- Flood mitigation area
- Potential site compound area

REFERENCE DRAWINGS

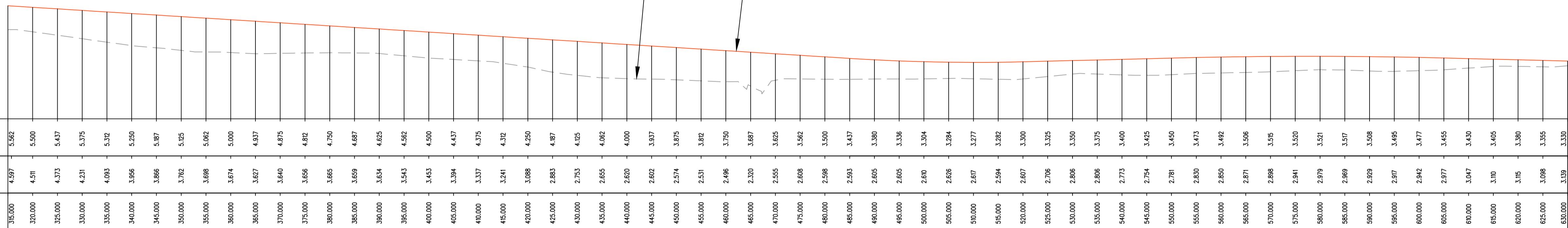
WN0902-HZDCO-OHW-DRG-00002 - SHEET 1
PROPOSED DRAINAGE PLAN
WN0902-HZDCO-OHW-DRG-00005 & 00006.
PROPOSED CROSS SECTIONS
WN0902-HZDCO-OHW-DRG-00008

Level Datum +1.000

PROPOSED LEVEL (MC01)

EXISTING LEVEL

CHAINAGE

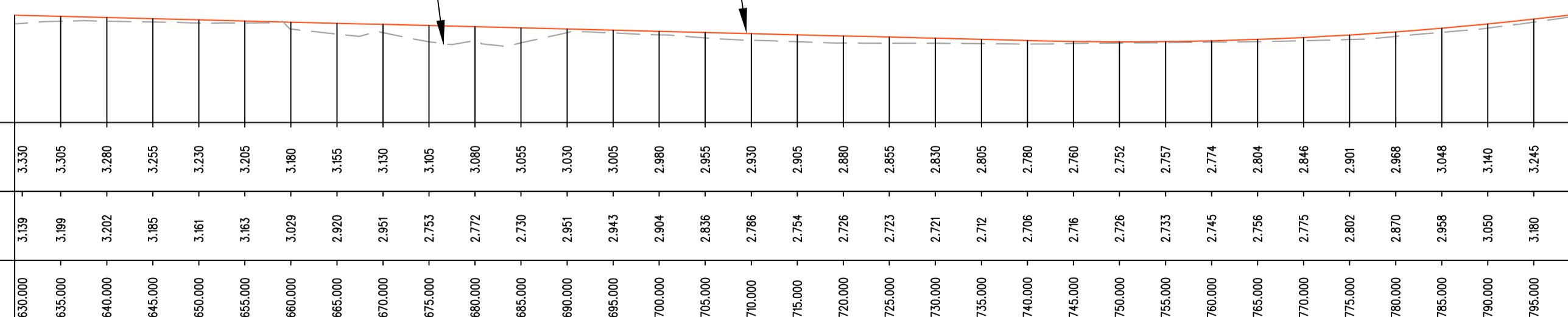


Level Datum +1.000

PROPOSED LEVEL (MC01)

EXISTING LEVEL

CHAINAGE



LONGITUDINAL SECTIONS

(SCALE 1:500 & 1:100V)

0 10 20 30 40 50 60 70 80 90 100m

SCALE 1:1000

0 5 10 15 20 25 30 35 40 45 50m

SCALE 1:500

0 1 2 3 4 5 6 7 8 9 10m

SCALE 1:100

1.0 MAY 2018 FOR DCO SUBMISSION HNPWL HNPWL HNPWL
Rev Rev. Date Purpose of revision Drawn Checked Appr'd

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DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED GENERAL
ARRANGEMENT PLAN - SHEET 2**

Regulation 5 (2) (o)

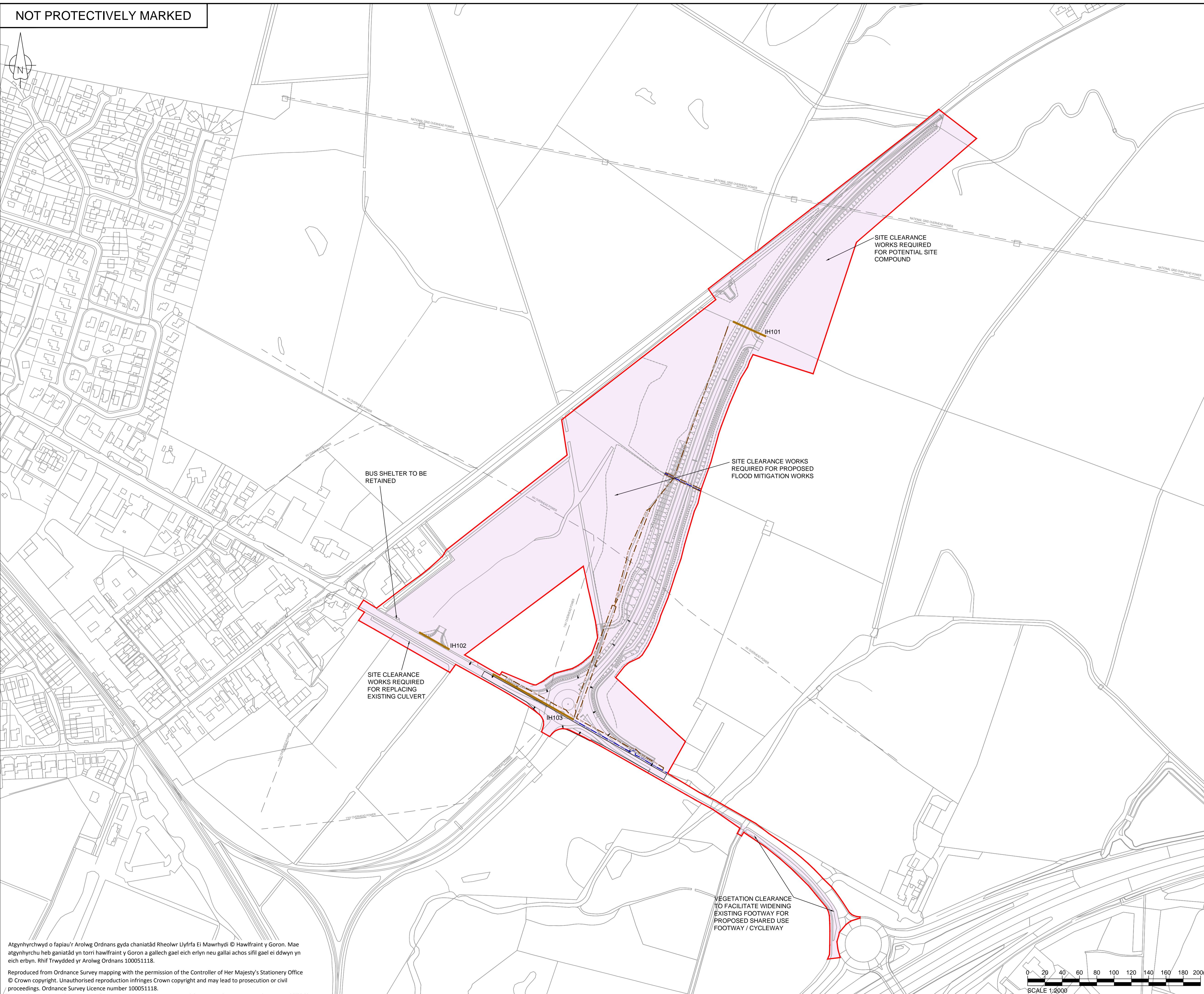
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Scale AS SHOWN Sheet Size A1 Sheet(s) 1 of 1

Drawing Number
WN0902-HZDCO-OHW-DRG-00003 1.0

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NOTES

1. The area shown as 'general site clearance' does not mean that everything within this area is to be cleared. Site clearance will be the minimum required to undertake the works. General site clearance consists of removal of overgrowth in verges, topsoil removal and disposal.
2. Only fencing, hedgerows & gates identified in the key are to be removed as part of the site clearance works.
3. For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00005 & 00006.
4. Important Hedgerow Reference Number (see Schedule 18 of the draft DCO (Application Reference Number: 3.1).

LEGEND

- Order limits
- Existing overhead services
- General site clearance area
- MSW
- Mortar stone wall to be removed
- TPW
- Timber post & wire fence to be removed
- Gate to be removed
- Important Hedgerow (Hedgerow Regulations 1997)
- IH** To be removed

REFERENCE DRAWINGS

1. This drawing is to be read in conjunction with the notes on drawing WN0902-HZDCO-OHW-DRG-00005.
2. WN0902-HZDCO-OHW-DRG-00006.

1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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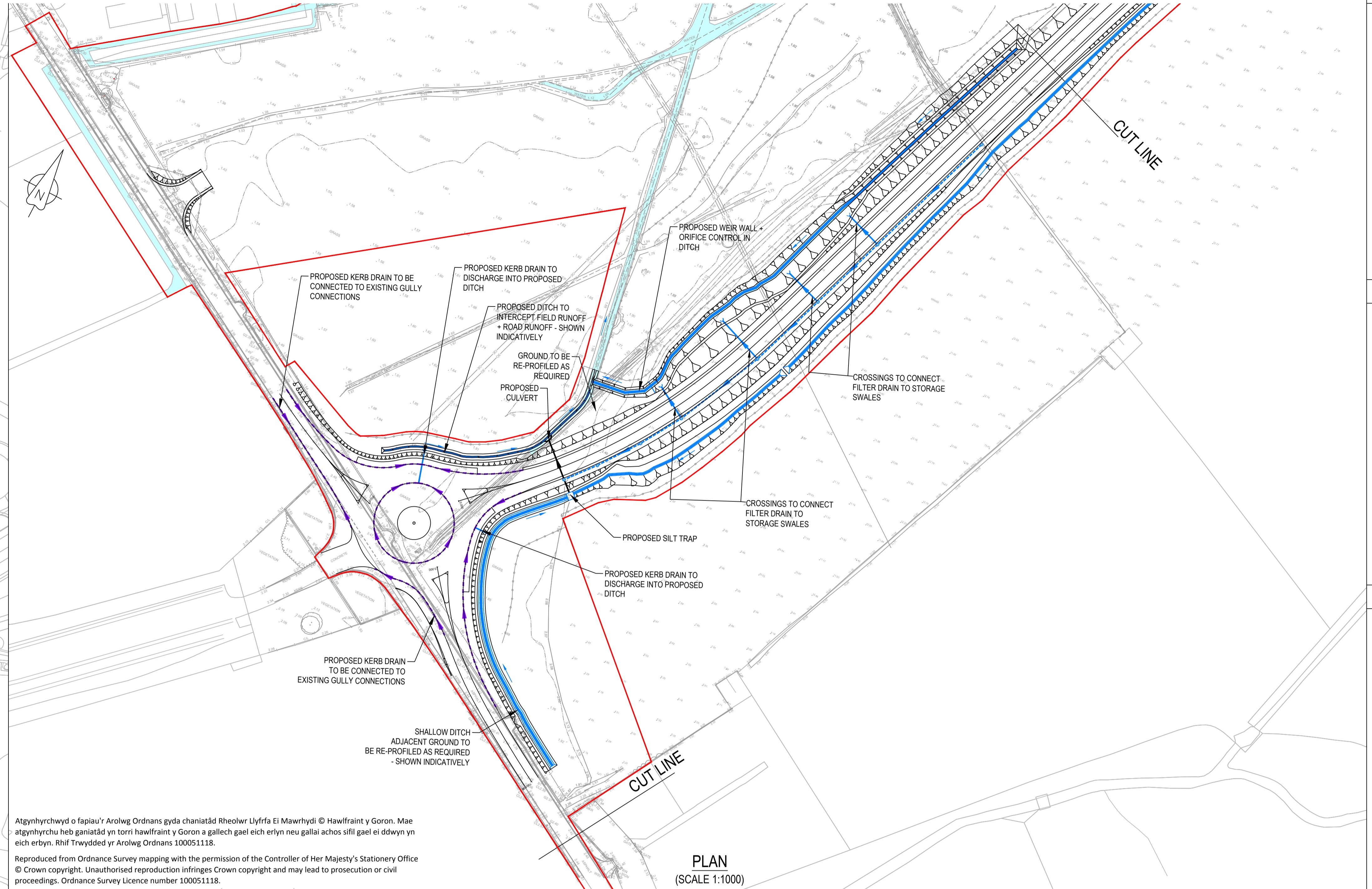
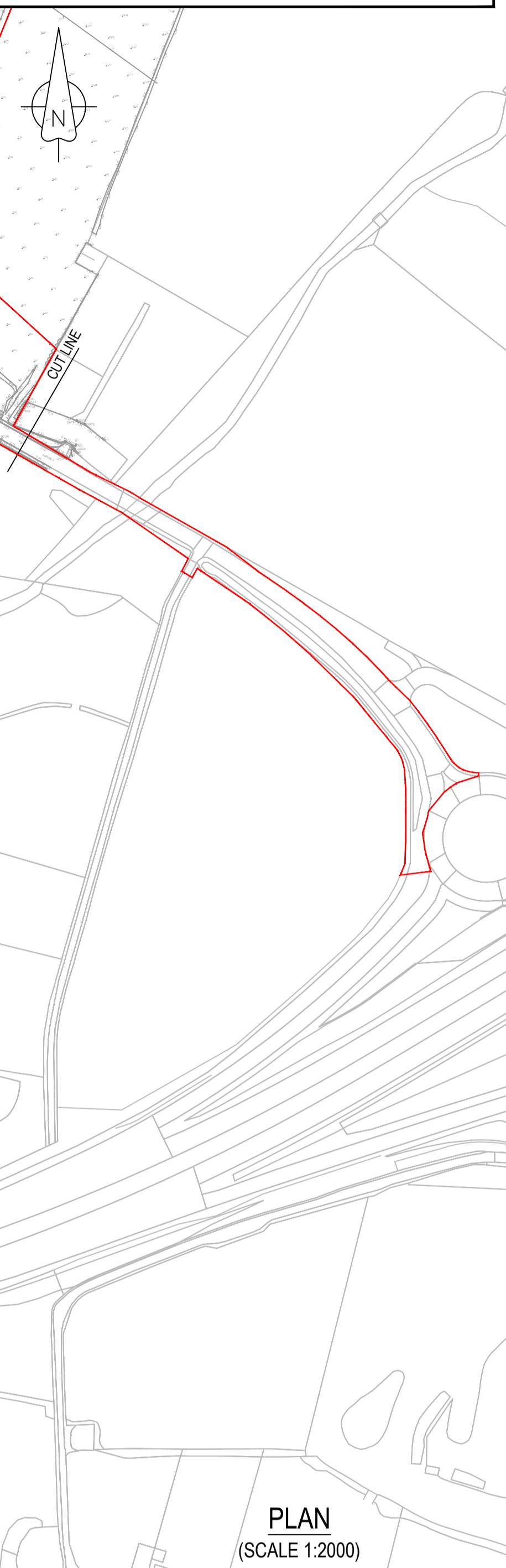
Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED SITE CLEARANCE PLAN

Regulation 5 (2) (o)

Security Status
NOT PROTECTIVELY MARKED

Scale 1:2000 Sheet Size A1 Sheet(s) 1 of 1
Drawing Number WN0902-HZDCO-OHW-DRG-00004 Rev

NOT PROTECTIVELY MARKED



Level Datum = 1.000

PROPOSED LEVEL (MC01)

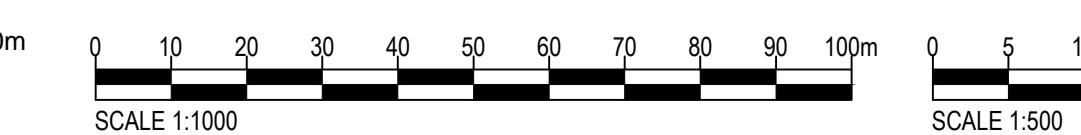
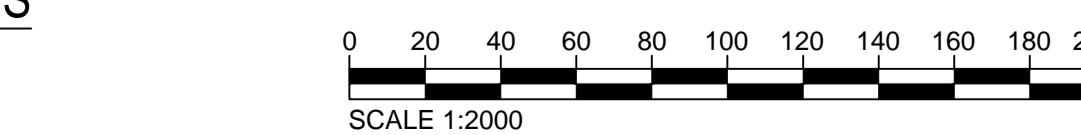
EXISTING LEVEL

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

CHAINAGE

LONGITUDINAL SECTIONS
(SCALE 1:500H & 1:100V)



NOTES

1. All levels in metres unless stated otherwise.
2. Earthwork batter slopes are shown at a gradient of 1 in 2.5.
3. Pond batter slopes are shown at a gradient of 1 in 3.
4. Existing ground survey is based on the highway topographical survey (dated 29.01.2012) and additional land topographical survey (dated Dec 2014 and June 2016).
5. Pond volumes are based on a 1 in 100 year return period plus 30% climate change.
6. Ponds to be located outside of the flood plain.
7. Drainage layouts are indicative for information only and are subject to detailed design and modelling.
8. Highway drainage has been designed in accordance with the guidance on storm return periods in DMRB volume 4 section 2 part 3 HD 33/06.
9. Gradients of filter drains typically follow the longitudinal fall of the highway with a minimum cover of 1.2m.
10. Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 80m.
11. Drainage outfall locations and levels are based on topographical survey information data.

LEGEND

- Order limits
- Existing watercourse
- Proposed highway boundary fence
- Proposed land drainage ditch
- Proposed headwall
- Proposed catchpit
- Proposed kerb drain outlet unit
- Proposed carrier drain
- Proposed filter drain
- Proposed kerb drain
- Proposed culvert (to include mammal ledges where practicable).

REFERENCE DRAWINGS

WN0902-HZDCO-OHW-DRG-00006 - SHEET 2

1.0 MARCH 2018 FOR DCO SUBMISSION HNPWL HNPWL HNPWL
Rev. Rev. Date Purpose of revision Drawn Checked Appr'd

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Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED DRAINAGE PLAN
SHEET 1**

Regulation 5 (2) (o)

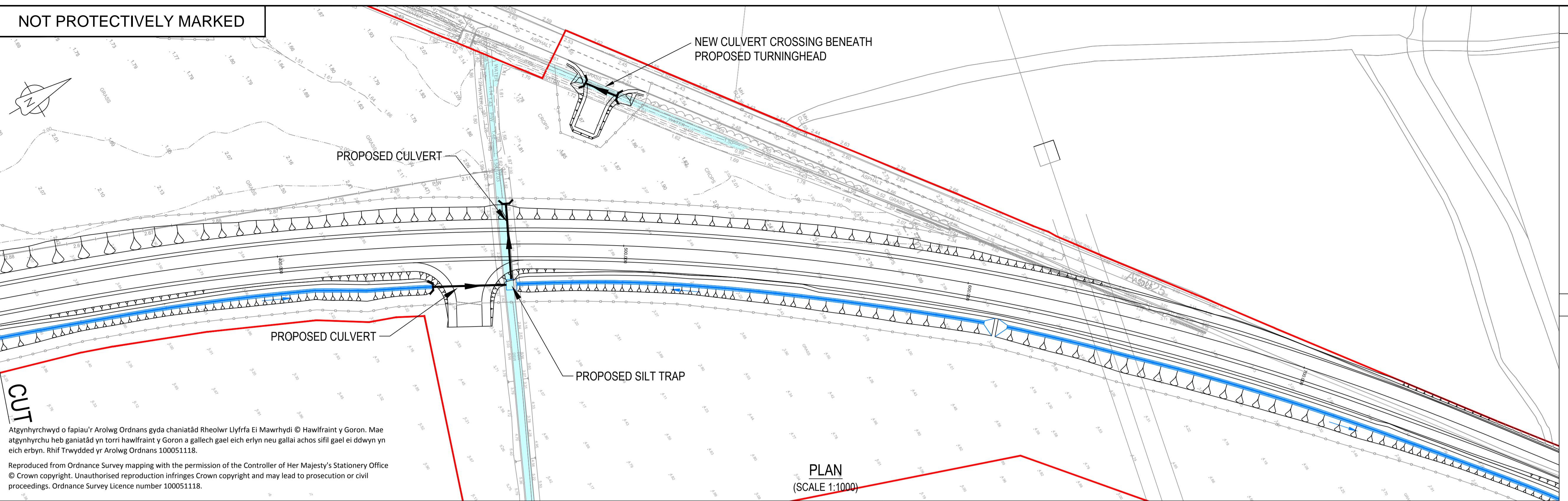
Security Status
NOT PROTECTIVELY MARKED

Scale AS SHOWN Sheet Size A1 Sheet(s) 1 of 1
Drawing Number Rev
WN0902-HZDCO-OHW-DRG-00005 1.0

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NOTES



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- Drainage layouts are indicative for information only and are subject to detailed design and modelling.
- Highway drainage has been designed in accordance with the guidance on storm return periods in DMRB volume 4 section 2 part 3 HD 33/06.
- Gradients of filter drains typically follow the longitudinal fall of the highway with a minimum cover of 1.2m.
- Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 80m.
- Drainage outfall locations and levels are based on topographical survey information data.

LEGEND

- Order limits
- Existing watercourse
- Proposed highway boundary fence
- Proposed land drainage ditch
- Proposed headwall
- Proposed catchpit
- Proposed filter drain
- Proposed culvert
(to include mammal ledges where practicable)

REFERENCE DRAWINGS

WN0902-HZDCO-OHW-DRG-00005 - SHEET 1

Level Datum = 1.000

PROPOSED LEVEL
(MC01)

EXISTING LEVEL

HORIZONTAL
GEOMETRYVERTICAL
GEOMETRY

CHAINAGE

Level Datum = 1.000

PROPOSED LEVEL
(MC01)

EXISTING LEVEL

HORIZONTAL
GEOMETRYVERTICAL
GEOMETRY

CHAINAGE

EXISTING

PROPOSED

PLAN
(SCALE 1:1000)

1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL
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WYLFA NEWYDD
DCO PROJECT

Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED DRAINAGE PLAN
SHEET 2

Regulation 5 (2) (o)

NOT PROTECTIVELY MARKED

Security Status

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Drawing Number Rev

WN0902-HZDCO-OHW-DRG-00006 1.0

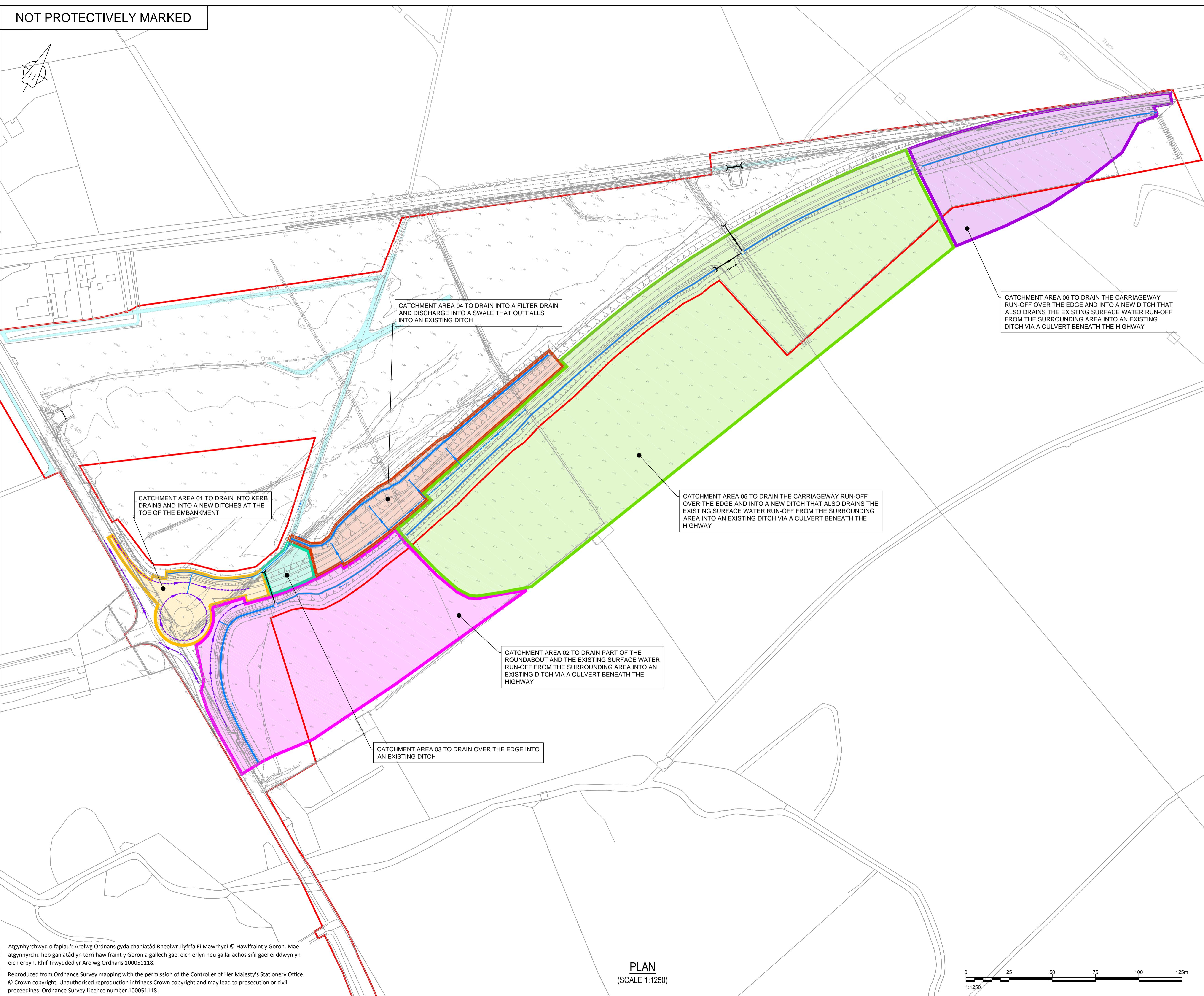
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(SCALE 1:500H & 1:100V)

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SCALE 1:1000 SCALE 1:500 SCALE 1:100

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NOTES

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- Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 80m.
- Drainage outfall locations and levels are based on topographical survey information.

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1.0	MARCH 2018	FOR DCO SUBMISSION	HNWL	HNWL	HNWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Apprv'd
FOR INFORMATION					
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Project WYLFA NEWYDD DCO PROJECT					
Drawing Title A5025 OFF-LINE HIGHWAY IMPROVEMENTS SECTION 1 - VALLEY PROPOSED DRAINAGE CATCHMENT PLAN					
Regulation 5 (2) (o)					
Security Status NOT PROTECTIVELY MARKED					
Scale	1:1250	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number	WN0902-HZDCO-OHW-DRG-00007	Rev			

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NOTES

1. All dimensions in metres unless stated otherwise.
2. All levels in metres unless stated otherwise.

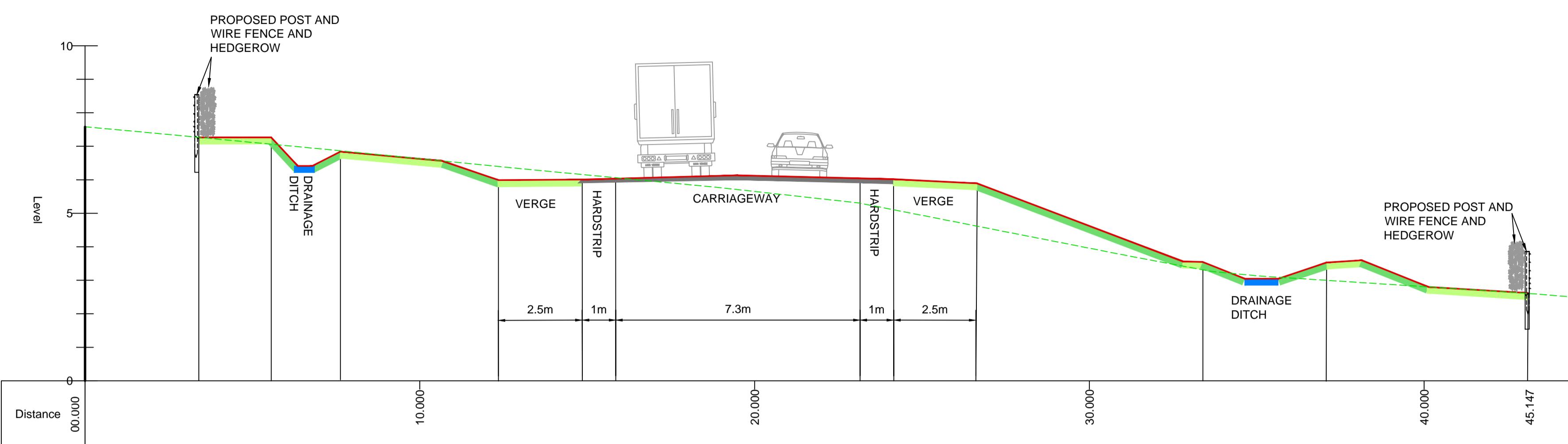
LEGEND

Proposed levels
Existing levels

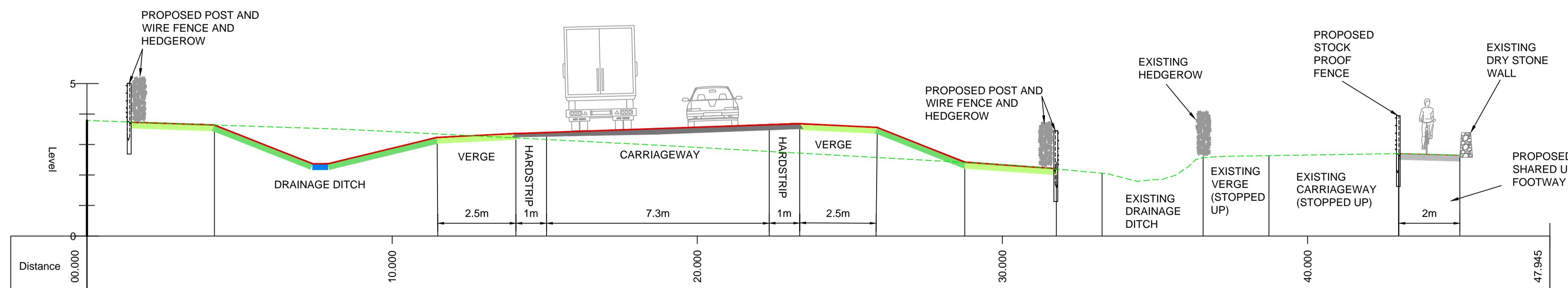
REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00002 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 1 PROPOSED GENERAL ARRANGEMENT PLAN (SHEET1)

WN0902-H2DCO-OHW-DRG-00003 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 1 PROPOSED GENERAL ARRANGEMENT PLAN (SHEET2)



Proposed Cross Section 1A-A
(SCALE 1:100)



1.0 MARCH 2018 FOR DCO SUBMISSION HNPWL HNPWL HNPWL

Rev Rev. Date Purpose of revision Drawn Checked Appr'd

FOR APPROVAL

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Project

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DCO PROJECT

Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 1 - VALLEY
PROPOSED CROSS SECTIONS
1A-A & 1B-B

Regulation 5 (2) (o)

Security Status

NOT PROTECTIVELY MARKED

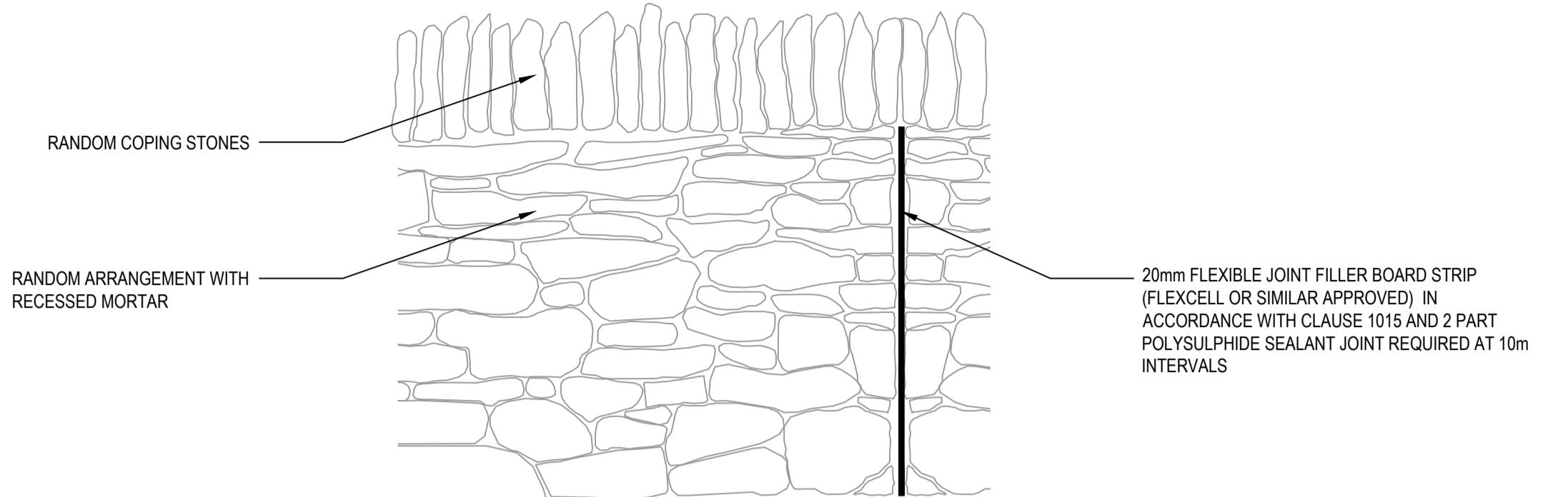
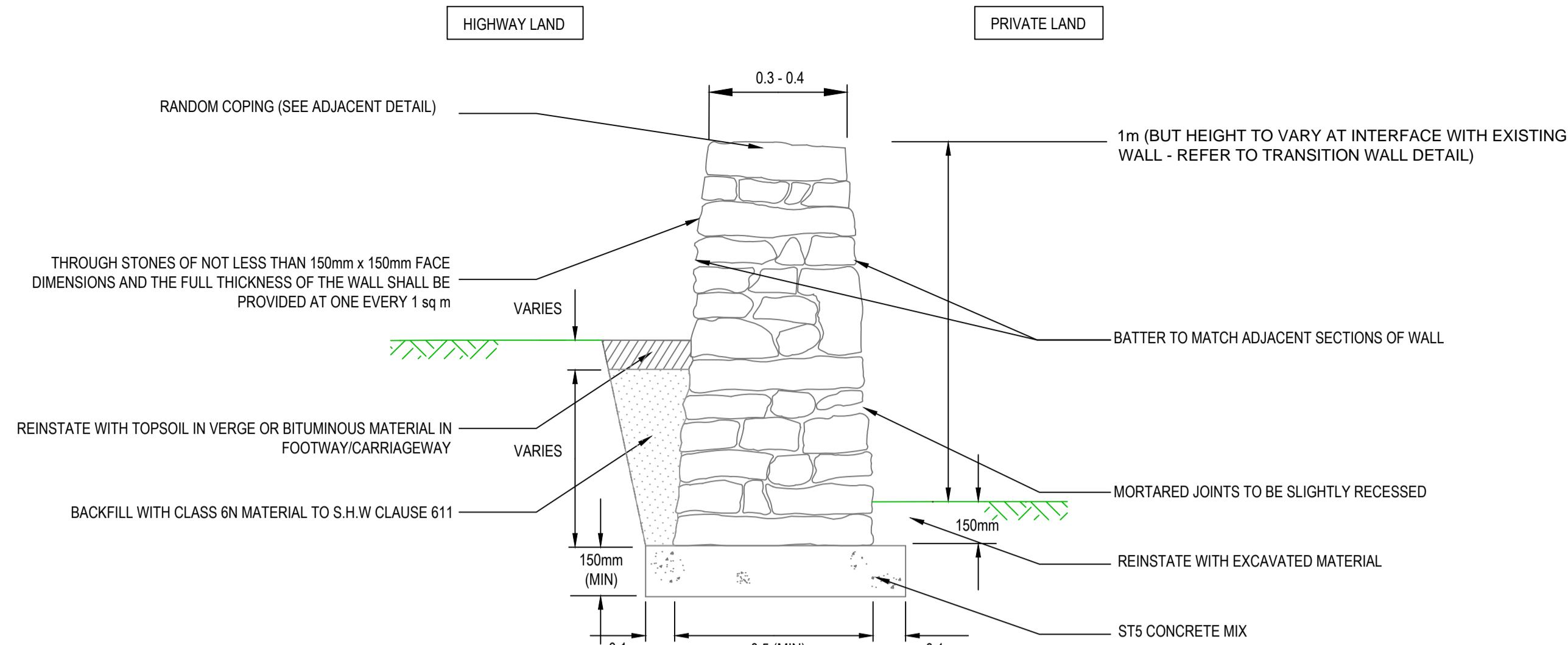
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Drawing Number WN0902-HZDCO-OHW-DRG-00008 Rev 1.0

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Scale 1:100

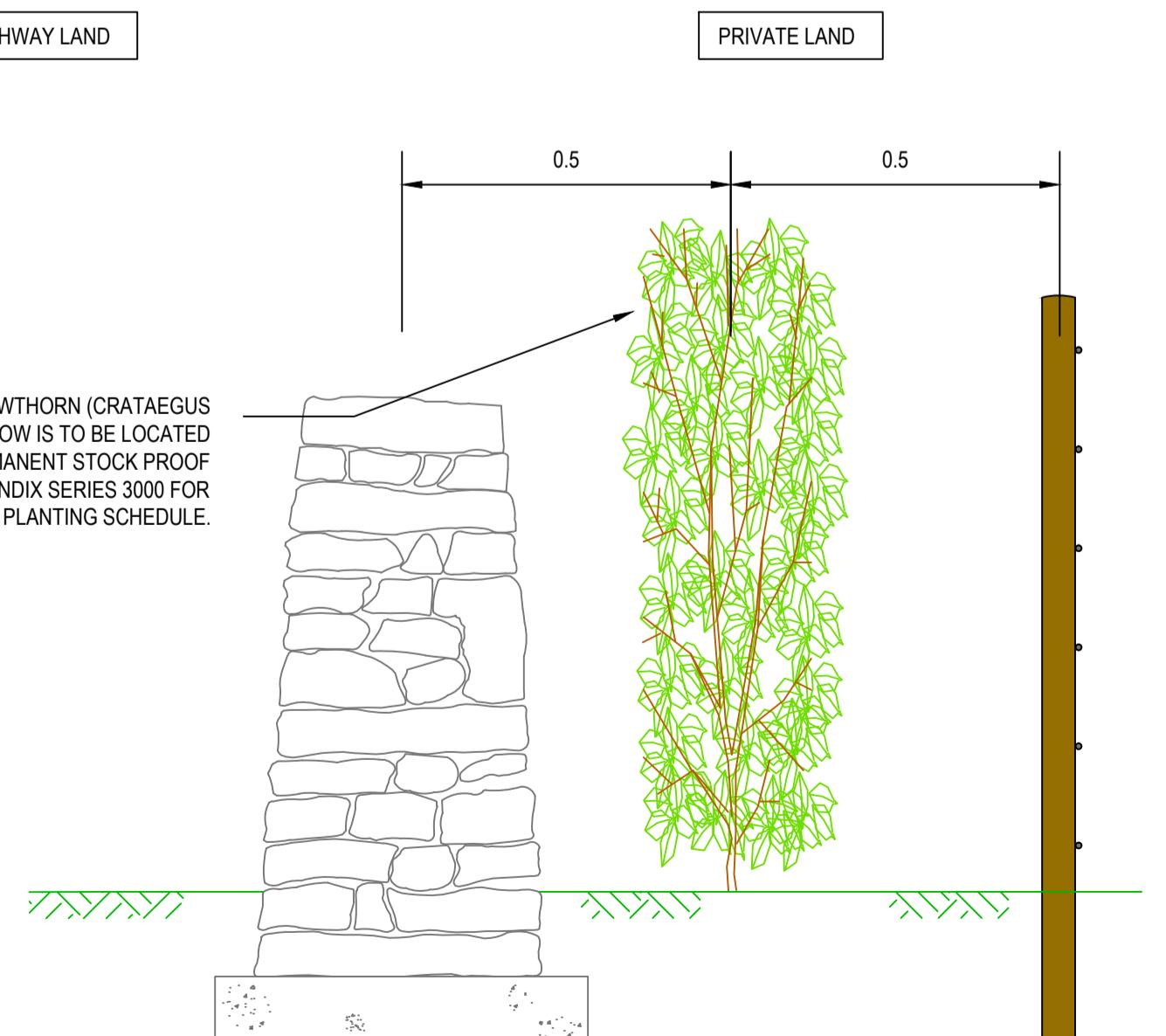
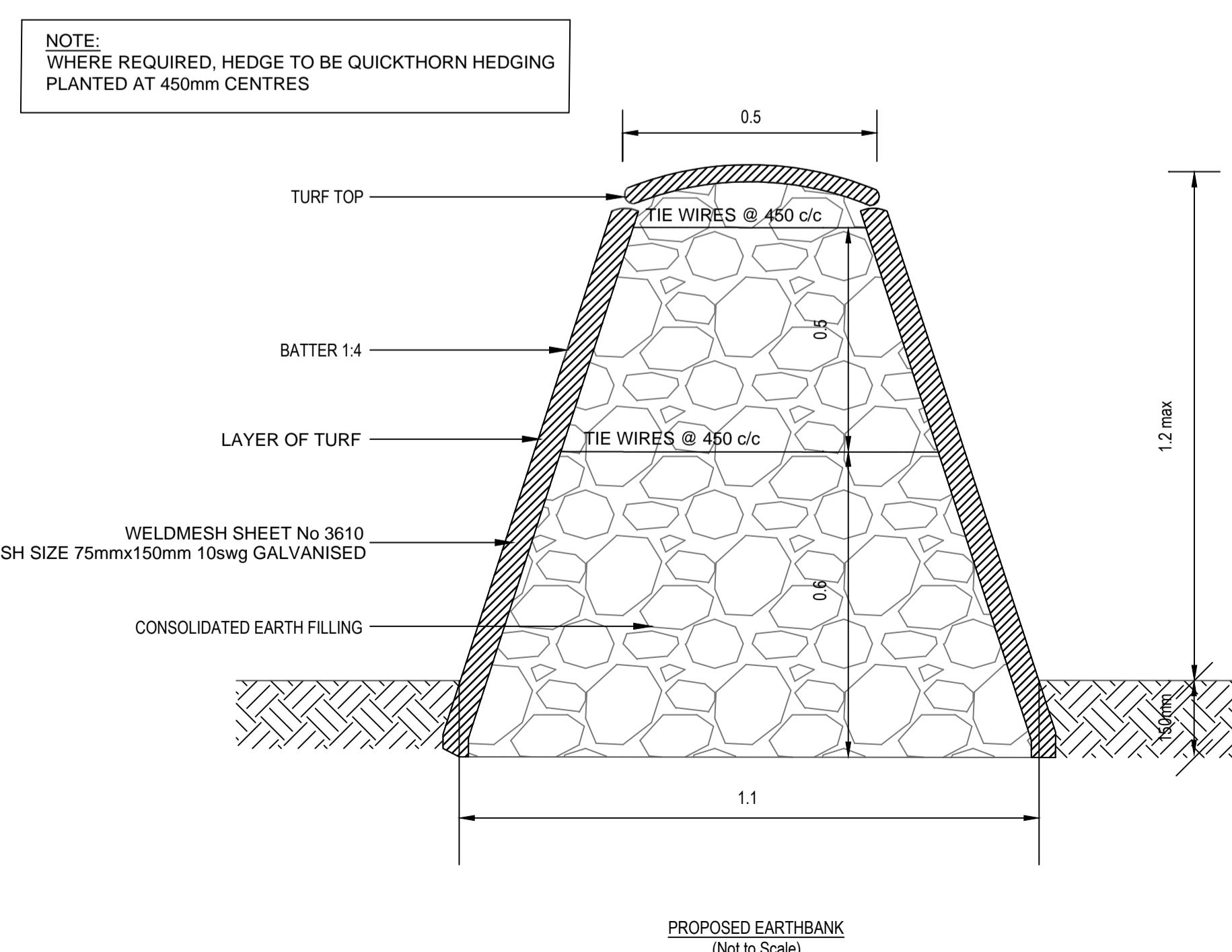
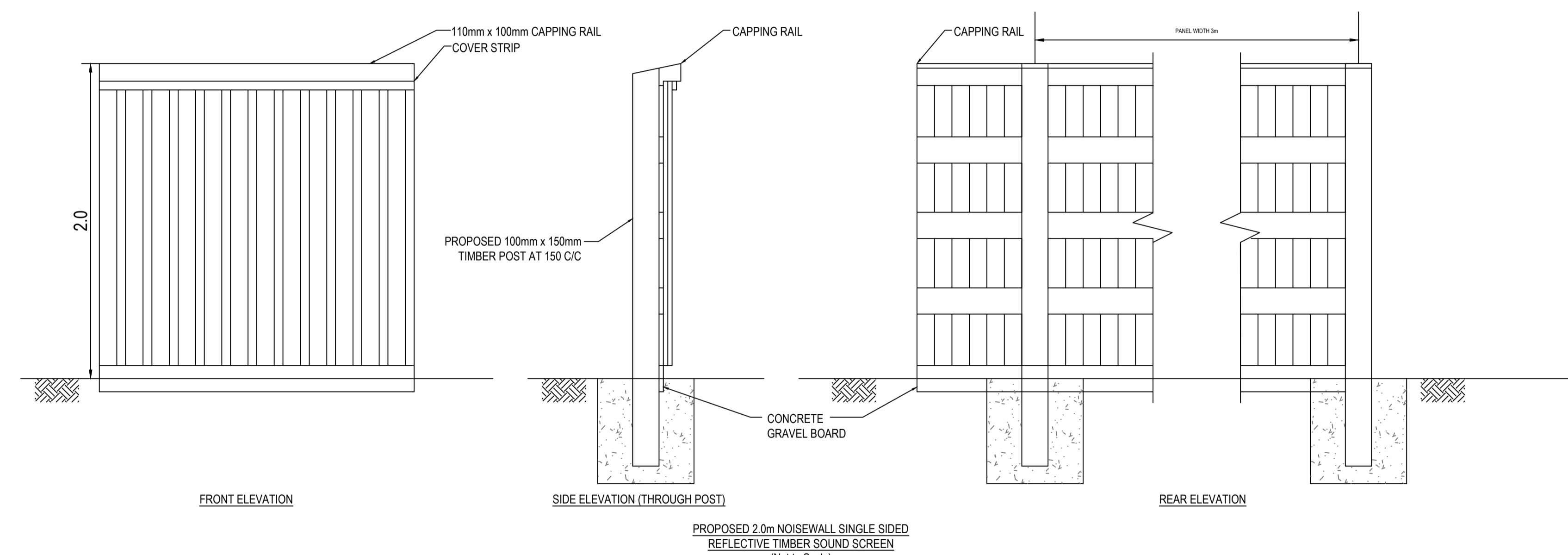
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PROPOSED MORTARED STONE WALL (SECTION) (No. 1)
Scale)

PROPOSED MORTARED STONE WALL (ELEVATION) (Not to Scale)



TYPICAL STONE WALL, HEDGEROW AND TIMBER POST & WIRE BOUNDARY
FEATURE
(Not to Scale)

NOTES

1. All dimensions in metres unless stated otherwise.
2. Only written dimensions are to be used.
3. All timber post & rail fences and timber post & wire fences to have 2 barbed wire strands.
4. For details of timber post & wire fences refer to DMRB MCHW standard detail H1.
5. For details of timber post & 4 rail fences refer to DMRB MCHW standard detail H3.
6. For details of proposed vehicular field access gates refer to DMRB MCHW standard detail H17.
7. For details of timber wicket gate refer to DMRB MCHW standard detail H23.

MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Part B	Purpose of revision	Part	Classification	Part

ILLUSTRATIVE

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WYLFA NEWYDD DCO PROJECT

ng Title

025 OFF-LINE HIGHWAY IMPROVEMENTS

STANDARD DETAILS

BOUNDARY DETAILS

equation 5 (2) (o)

NOT PROTECTIVELY MARKED

NOT PROTECTIVELY MARKED

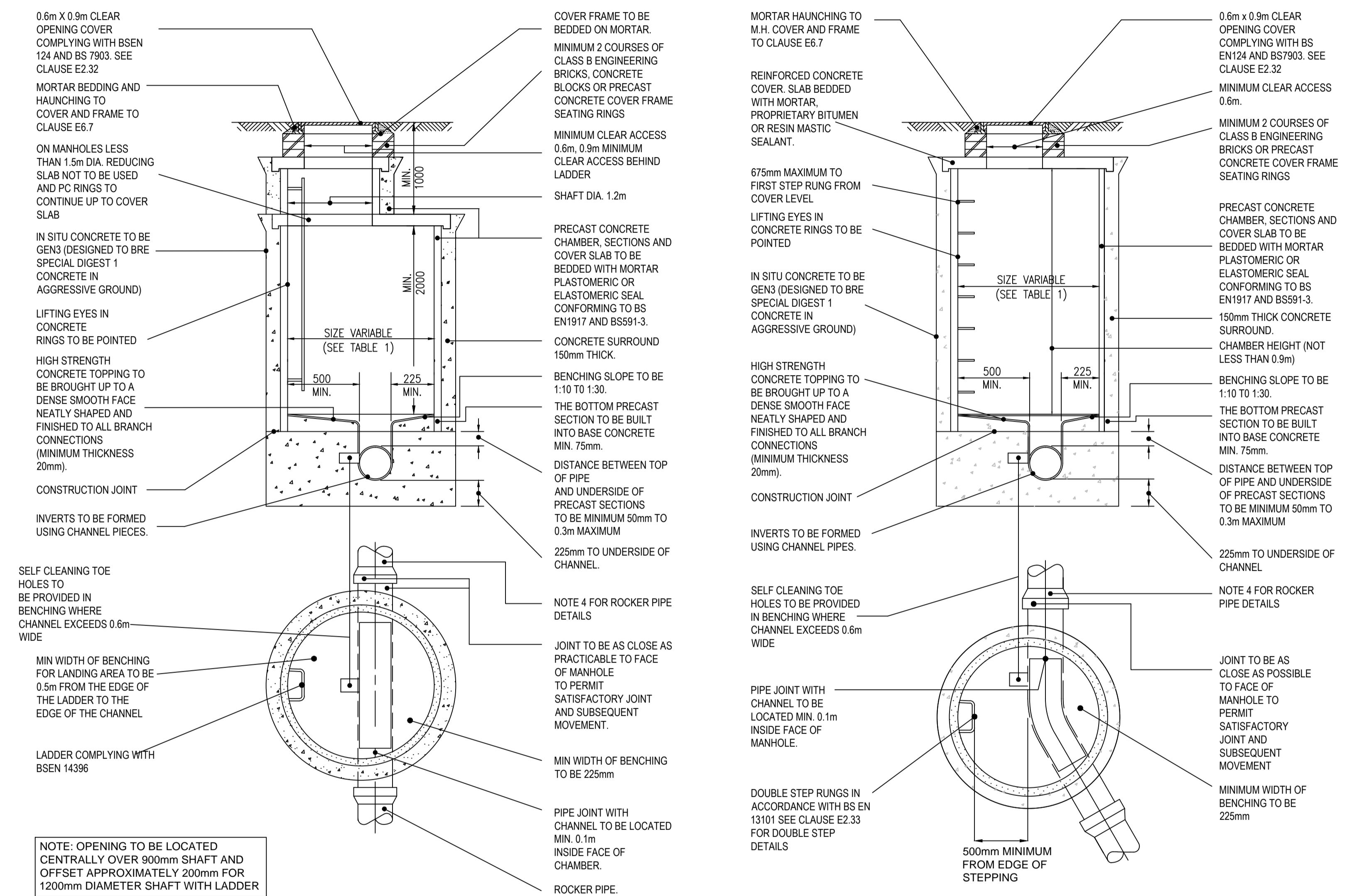
1. All dimensions in metres unless stated otherwise.
2. This drawing should only be read in relation to the subject of the title, reference should be made to the appropriate drawing series for other information.
3. All materials and workmanship to be to in accordance with the specification for highway works unless stated otherwise.
4. All drains up to and including DN300 size to be vitrified clay. All drains over and including size DN375 to be concrete (unless noted otherwise). Alternative materials may be substituted as detailed in SHW 500 series.
5. The length of the next pipe (rocker pipe) away from structures shall be:

Table 1 rocker pipe lengths	
Pipe diameter (mm)	Length (m)
DN150 - DN600	0.6
DN675 - DN750	1.0
DN825 +	1.25

6. Only written dimensions are to be used.
7. Concrete benching and pipe surround shall be placed in single continuous operation from top of base slab.
8. Surface water connections shall be constructed with soffits level unless shown otherwise.
9. Cut ends of reinforced concrete pipes shall be treated with epoxy resin paint/mortar.
10. Manholes are to be sewers for adoption 7th edition. Manhole sizes shall be (unless noted otherwise in manhole schedules):

Table 2 manhole diameters

Diameter of largest pipe in manhole (mm)	Internal diameter (mm)
<375	1200
375-450	1350
500-700	1500
750-900	1800
>900	Pipe diameter + 900



1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd

FOR INFORMATION

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Project **WYLFA NEWYDD DCO PROJECT**

Drawing Title **A5025 OFF-LINE HIGHWAY IMPROVEMENTS STANDARD DETAILS DRAINAGE SHEET 2**

Regulation 5 (2) (o)

Security Status **NOT PROTECTIVELY MARKED**

Scale **Not to Scale** Sheet Size **A1** Sheet(s) **1 of 1**

Drawing Number **WN0902-HZDCO-OHW-DRG-00070** Rev **1.0**