

Wylfa Newydd Project

Volume 2: Plans, Sections and Drawings (Part 11/19)

2.8 A5025 Off-line Highway Improvements – Section 3

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Application Reference Number: 2.8

June 2018

Revision 1.0

Regulation Number: 5(2)(o)

Planning Act 2008

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

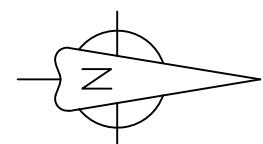
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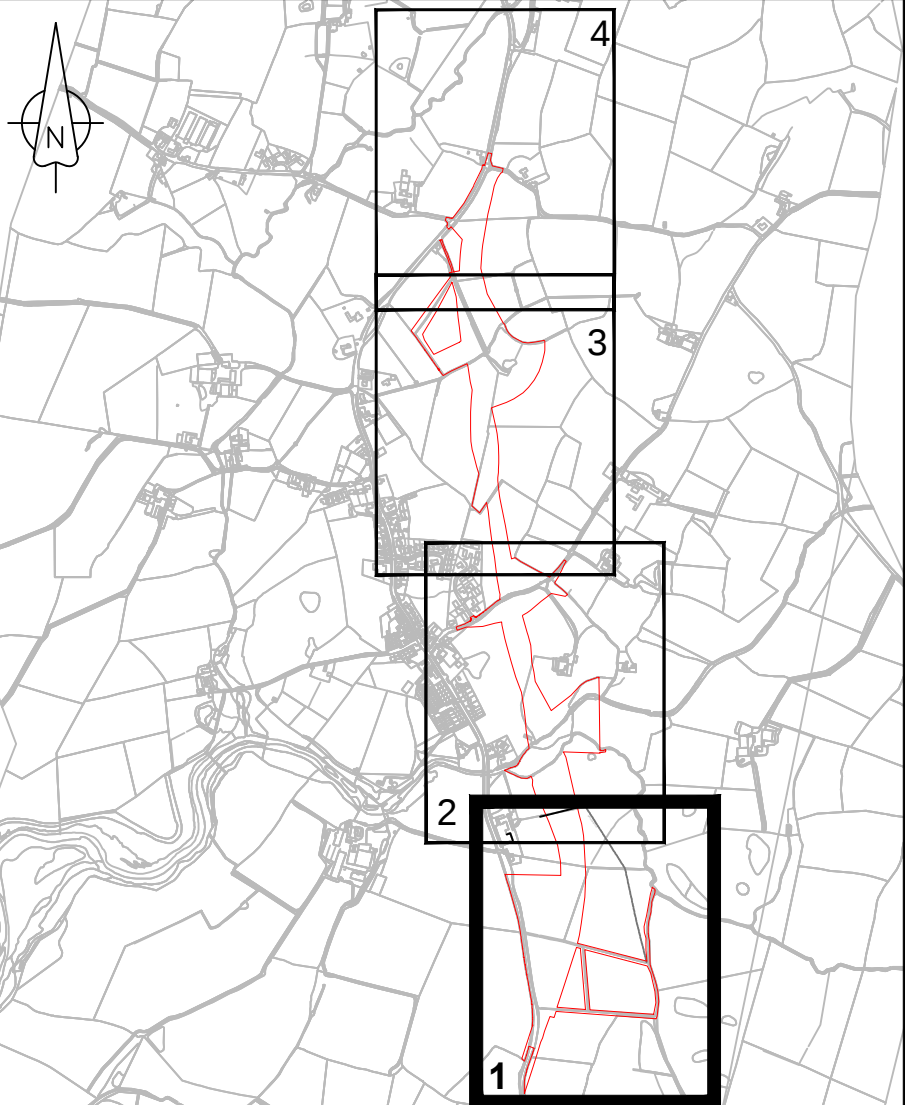
1. Existing ground levels based on topographical survey information from surveys undertaken.

LEGEND

— Order limits
— Existing HV overhead cables

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00010 - SHEET 2
2. WN0902-HZDCO-OHW-DRG-00011 - SHEET 3
3. WN0902-HZDCO-OHW-DRG-00012 - SHEET 4



KEY PLAN
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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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 3 - LLANFACHRAETH
EXISTING SITE PLAN
SHEET 1

Regulation 5 (2) (o)

Security Status

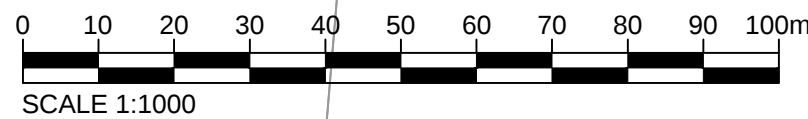
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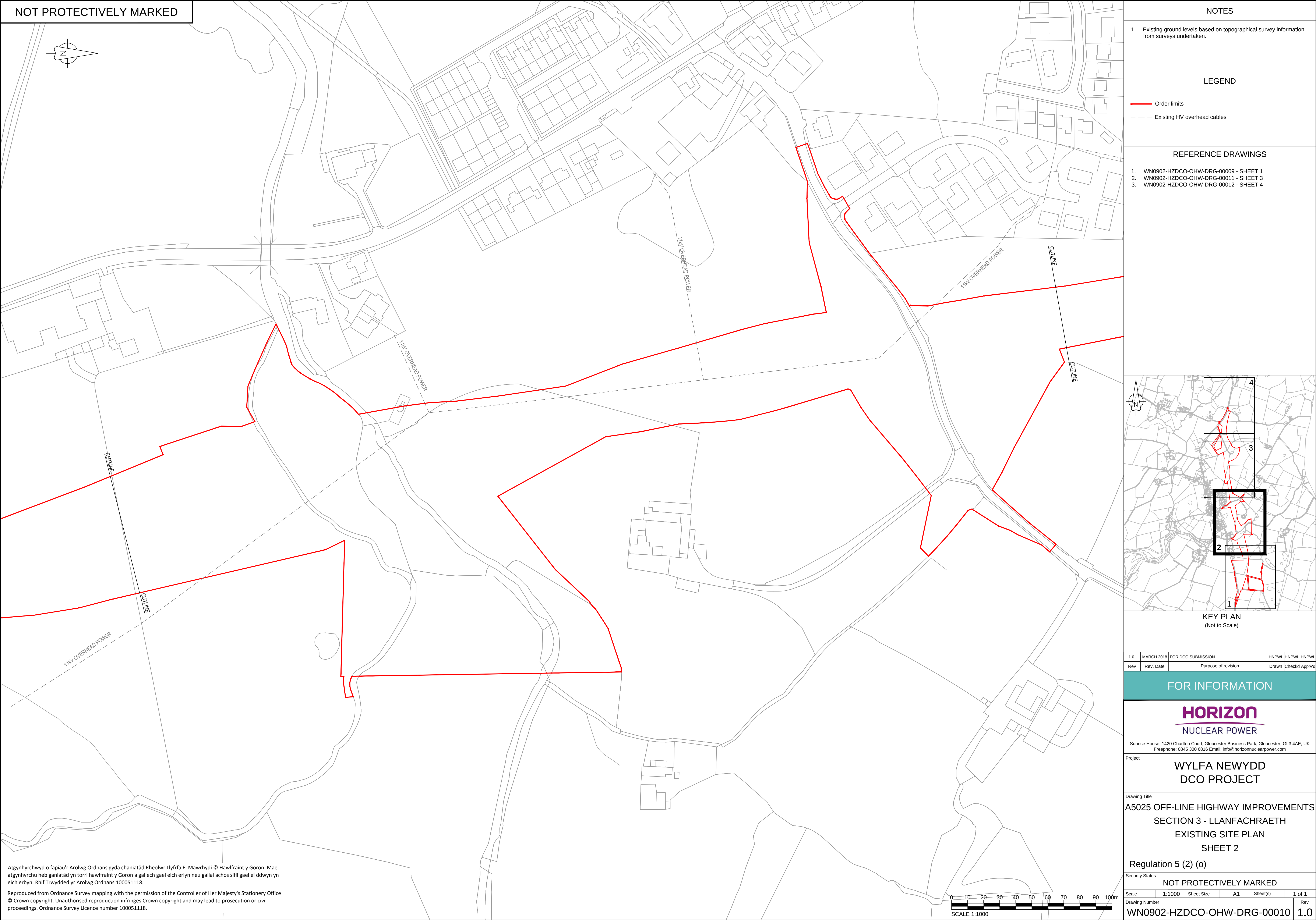
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NOTES

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

LEGEND

Order limits

Existing HV overhead cables

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00009 - SHEET 1

2. WN0902-HZDCO-OHW-DRG-00011 - SHEET 3

3. WN0902-HZDCO-OHW-DRG-00012 - SHEET 4

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EXISTING SITE PLAN
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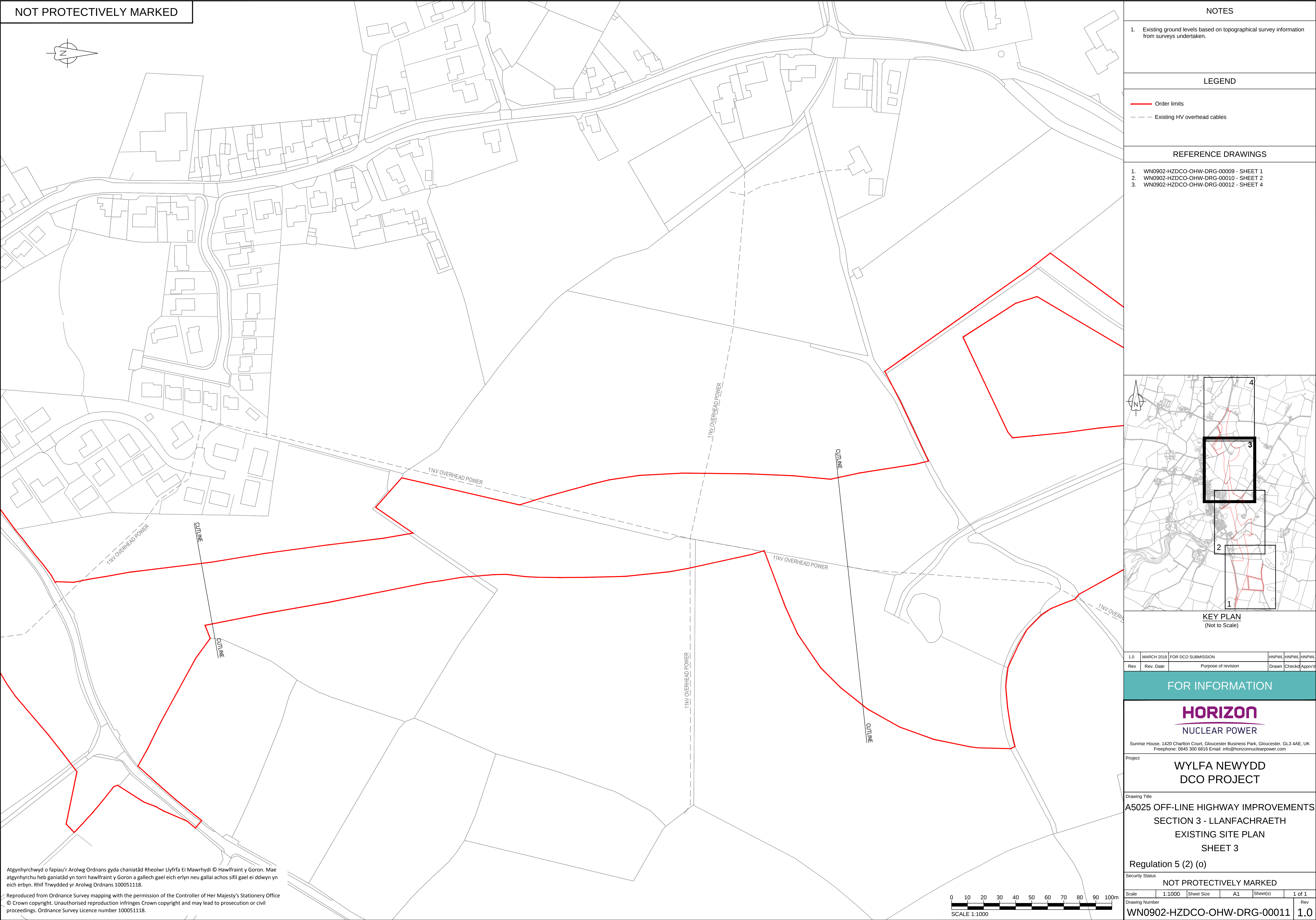
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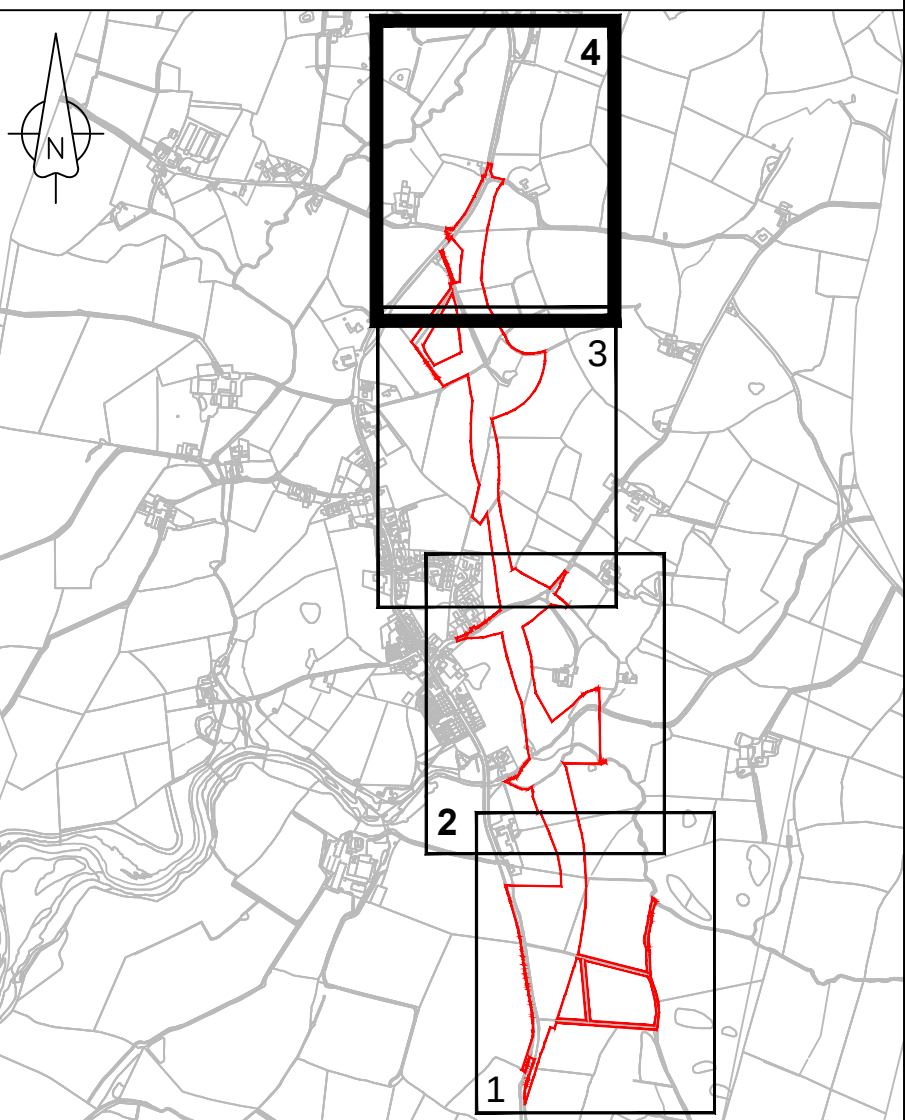
LEGEND

— Order limits

— Existing HV overhead cables

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00009 - SHEET 1
2. WN0902-HZDCO-OHW-DRG-00010 - SHEET 2
3. WN0902-HZDCO-OHW-DRG-00011 - SHEET 3



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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
EXISTING SITE PLAN
SHEET 4

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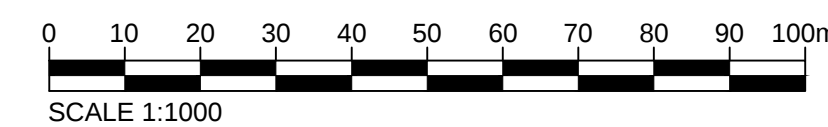
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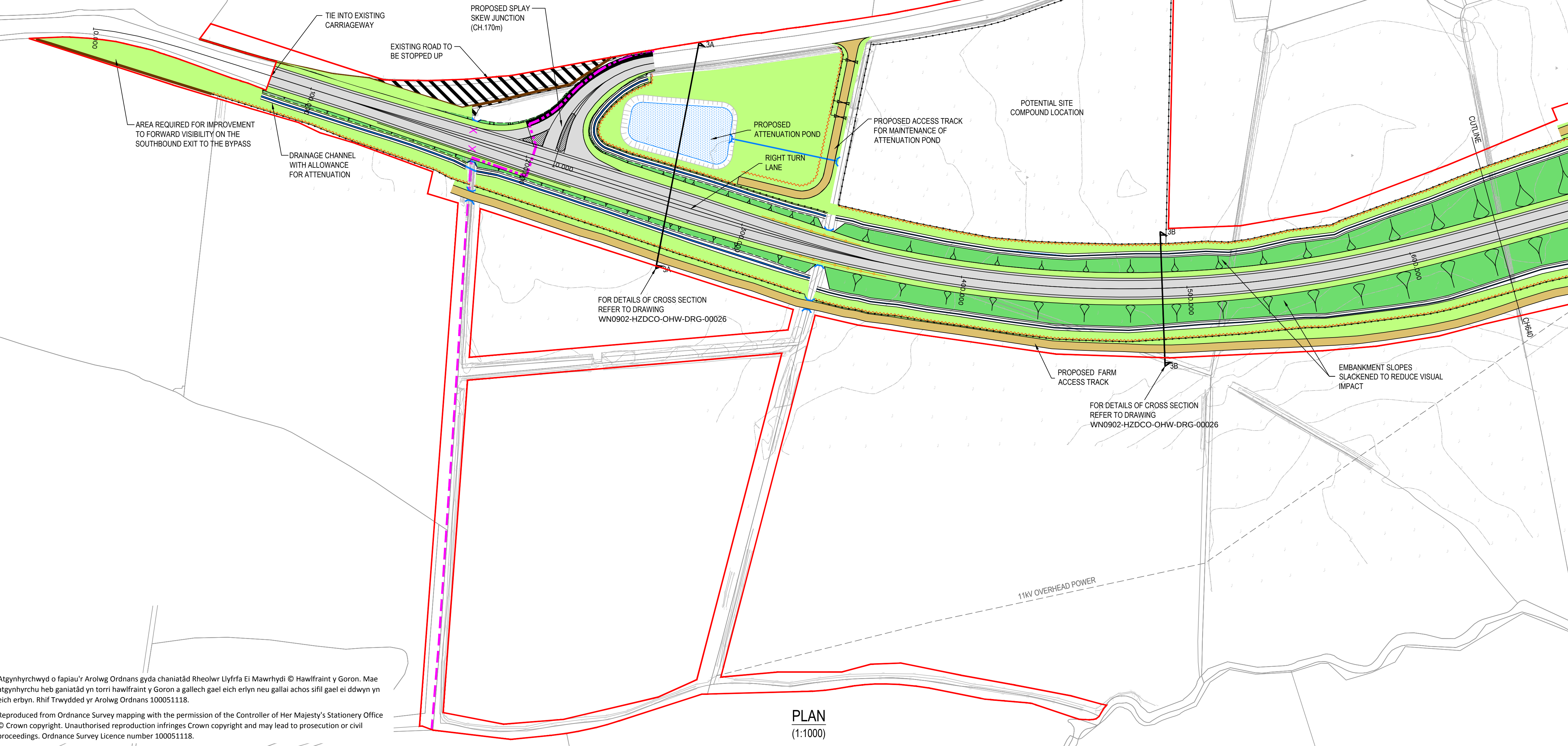
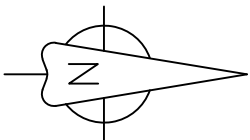
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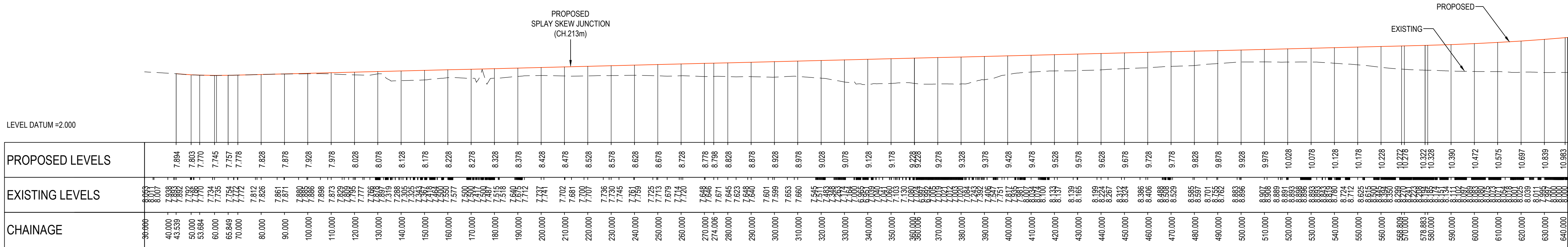
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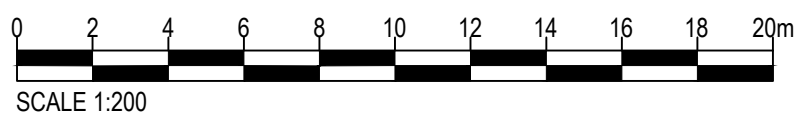
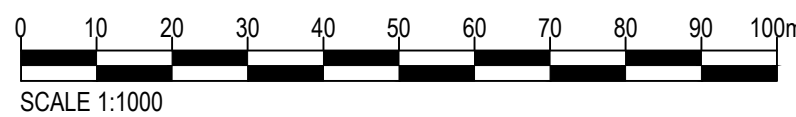
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PLAN
(1:1000)



LONGITUDINAL SECTION
(H: 1:1000 V: 1:200)



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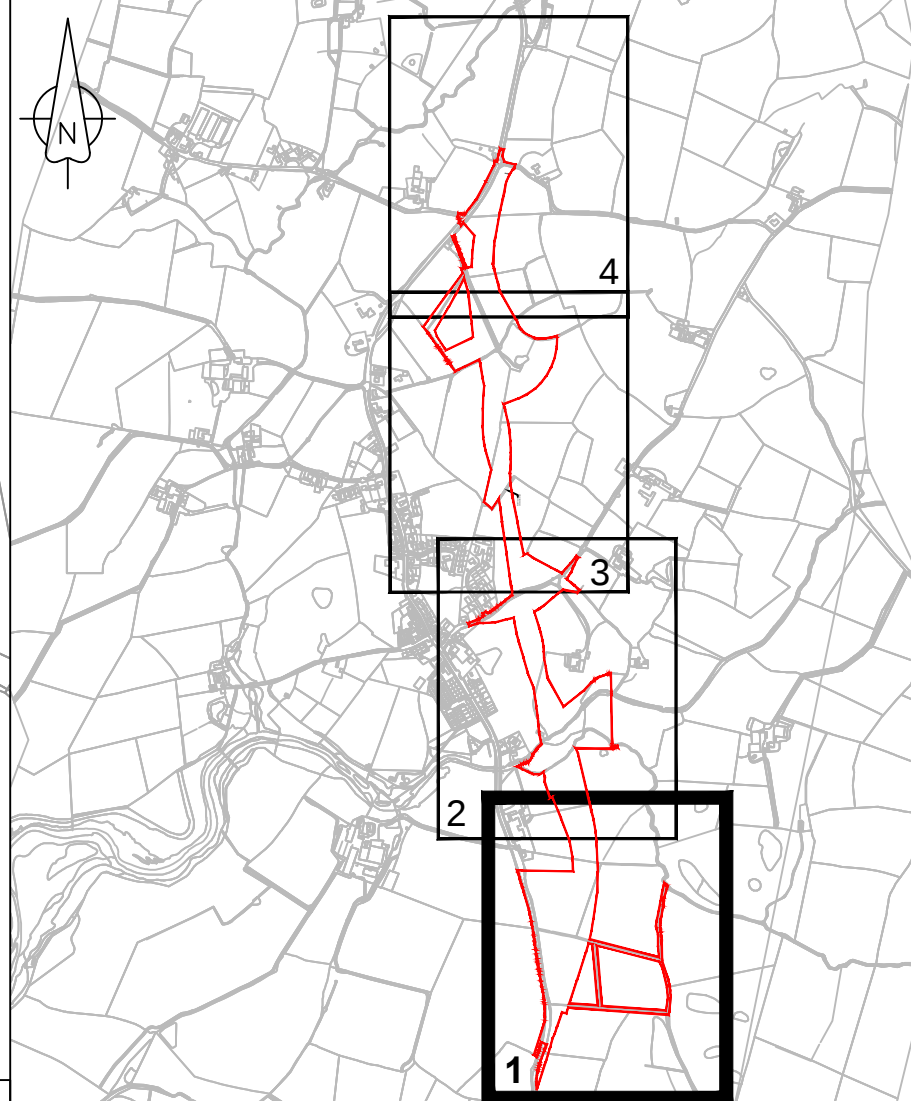
- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
- Existing ground levels based on topographical survey information from surveys undertaken.
- The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
- Road alignment geometry has been designed in accordance with DMRB TD 9/93.
- Roundabout geometry designed in accordance with DMRB TD 16/07.

LEGEND

- Order Limits
- Existing public right of way (PROW)
- Proposed carriageway
- Proposed shared use footway-cycleway
- Existing carriageway to be stopped up
- Proposed splitter island
- Proposed verge
- Proposed earthworks slopes
- Proposed access track
- Proposed attenuation pond
- Proposed highway boundary fence
- Proposed gated private means of access
- Proposed land drainage ditch
- Existing overhead services
- Proposed vehicle safety barrier
- PROW to be stopped up
- PROW diversion
- Proposed stone wall
- Proposed hedgerow

REFERENCE DRAWINGS

- For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00041 & 00042
- For cross section refer to drawing WN0902-HZDCO-OHW-DRG-00026
- WN0902-HZDCO-OHW-DRG-00014 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00015 - SHEET 3
- WN0902-HZDCO-OHW-DRG-00016 - SHEET 4



KEY PLAN
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1.0	MAY 2018	FOR DCO SUBMISSION	HNPNWL	HNPNWL	HNPNWL
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Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED GENERAL
ARRANGEMENT PLAN - SHEET 1**

Regulation 5 (2) (o)

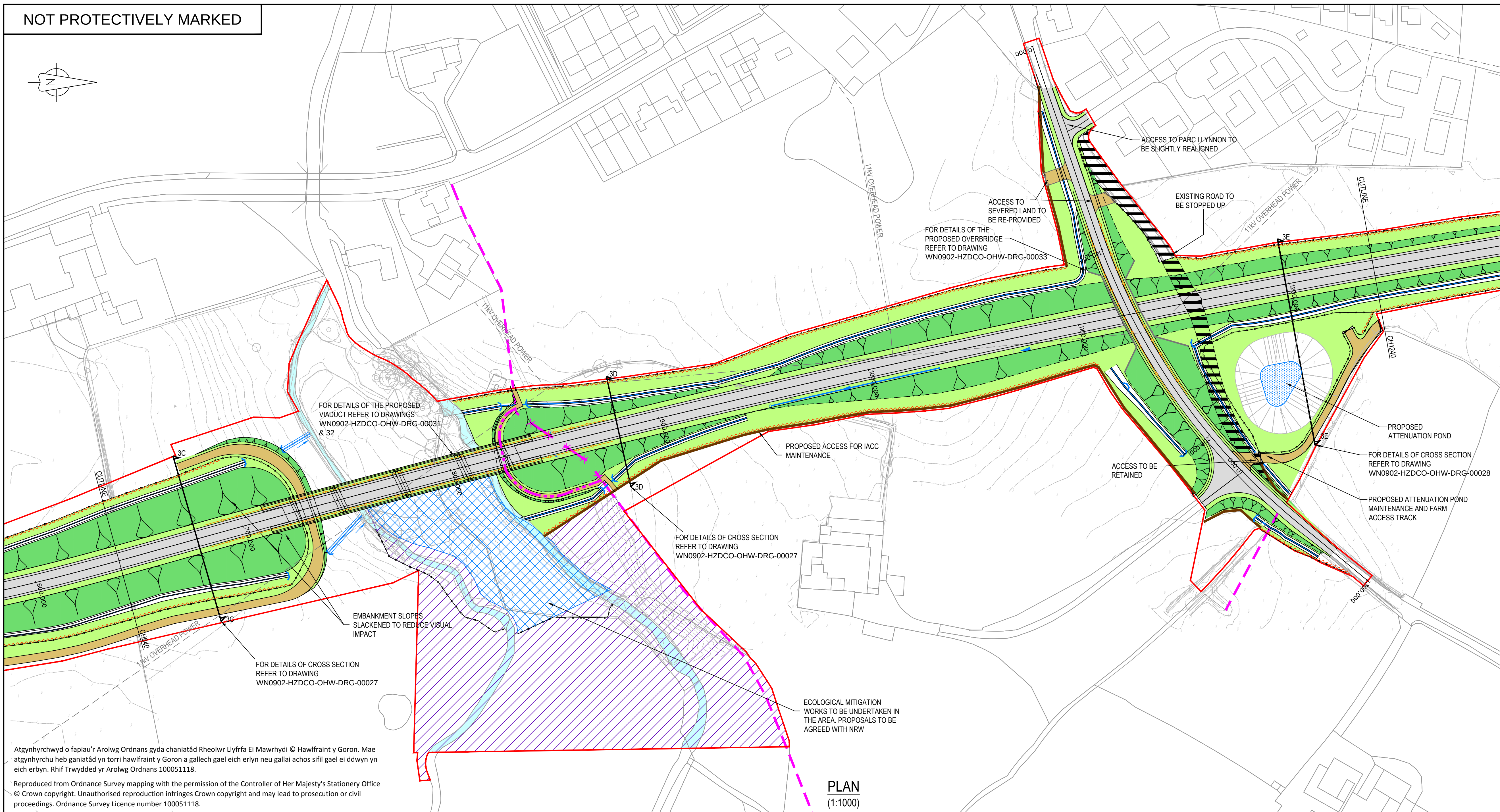
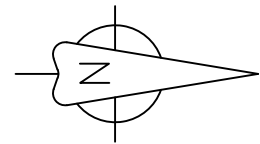
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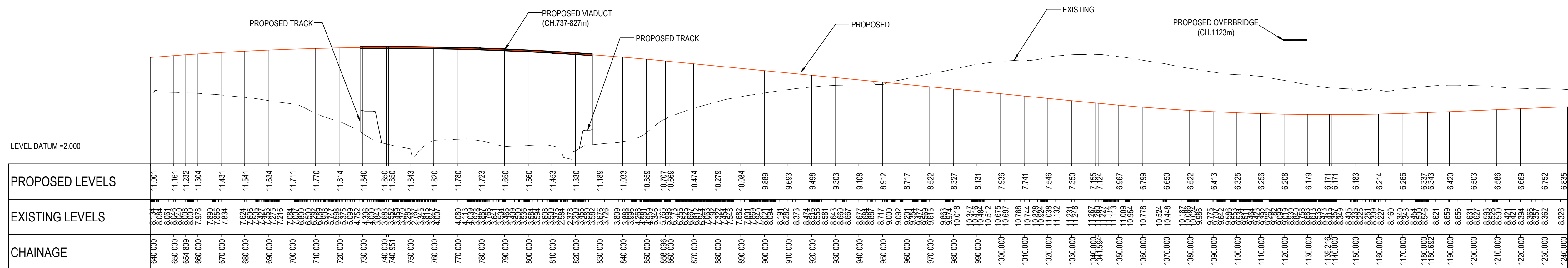
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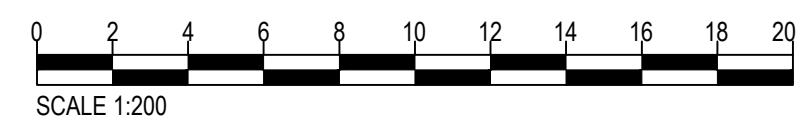
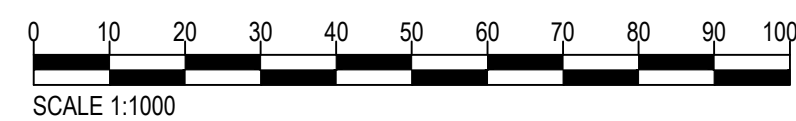
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PLAN
(1:1000)



LONGITUDINAL SECTION
(H: 1:1000 V: 1:200)



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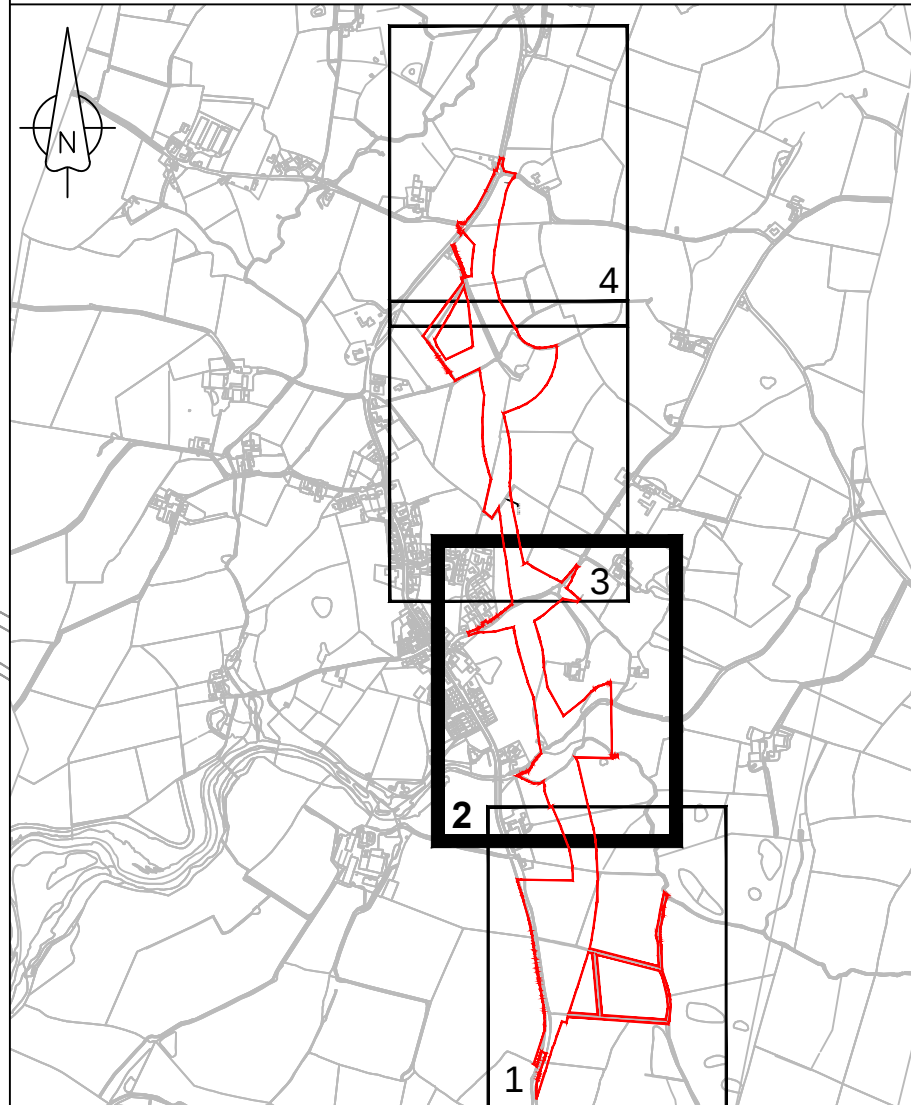
1. All earthworks batter slopes are shown at a gradient of 1 in 2.5.
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3. The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
4. Road alignment geometry has been designed in accordance with DMRB TD 9/93.
5. Roundabout geometry designed in accordance with DMRB TD 16/07.

LEGEND

- | | | | |
|---|--|---|---------------------------------|
|  | Order Limits |  | Proposed vehicle safety barrier |
|  | Existing public right of way (PROW) |  | PROW to be stopped up |
|  | Proposed carriageway |  | PROW diversion |
|  | Existing carriageway to be stopped up |  | Proposed stone wall |
|  | Proposed verge |  | Proposed hedgerow |
|  | Proposed earthworks slopes | | |
|  | Proposed access track | | |
|  | Existing watercourse | | |
|  | Proposed attenuation pond | | |
|  | Proposed flood mitigation area | | |
|  | Ecological mitigation area | | |
|  | Proposed highway boundary fence | | |
|  | Proposed gated private means of access | | |
|  | Proposed land drainage ditch | | |

REFERENCE DRAWINGS

1. For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00041 & 00042
2. For details of cross sections refer to drawing WN0902-HZDCO-OHW-DRG-00027 & 00028
3. For details of the proposed viaduct refer to drawings WN0902-HZDCO-OHW-DRG-00031 & 00032
4. For details of the proposed overbridge refer to drawing WN0902-HZDCO-OHW-DRG-00033
5. WN0902-HZDCO-OHW-DRG-00013 - SHEET 1
6. WN0902-HZDCO-OHW-DRG-00015 - SHEET 3
7. WN0902-HZDCO-OHW-DRG-00016 - SHEET 4



KEY PLAN
(Not to Scale)

1.0	MAY 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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PROPOSED GENERAL
ARRANGEMENT PLAN - SHEET 2

Regulation 5 (2) (o)

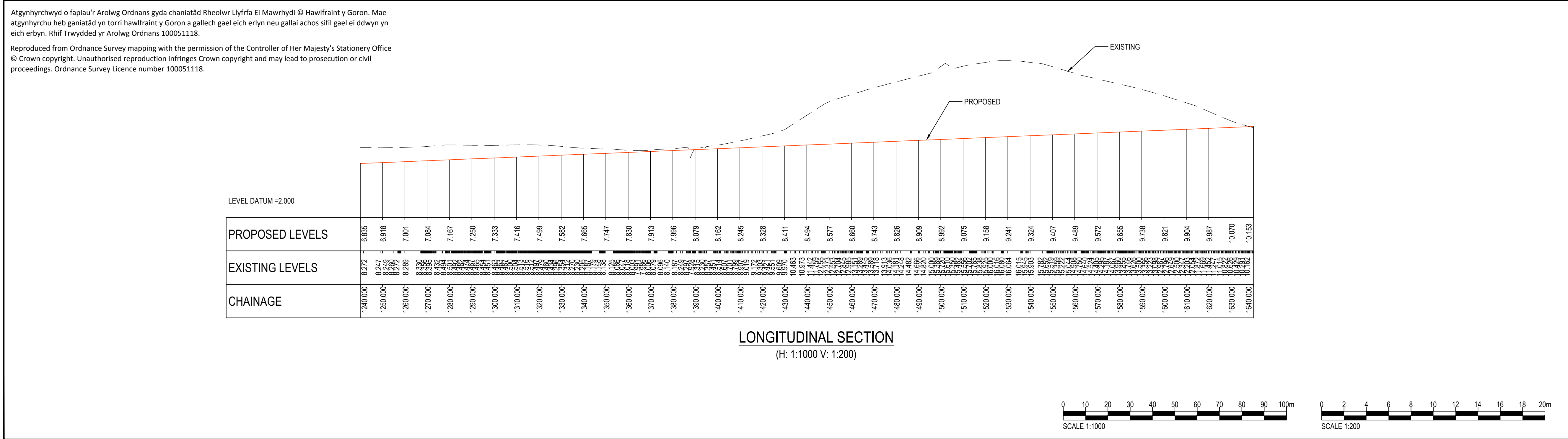
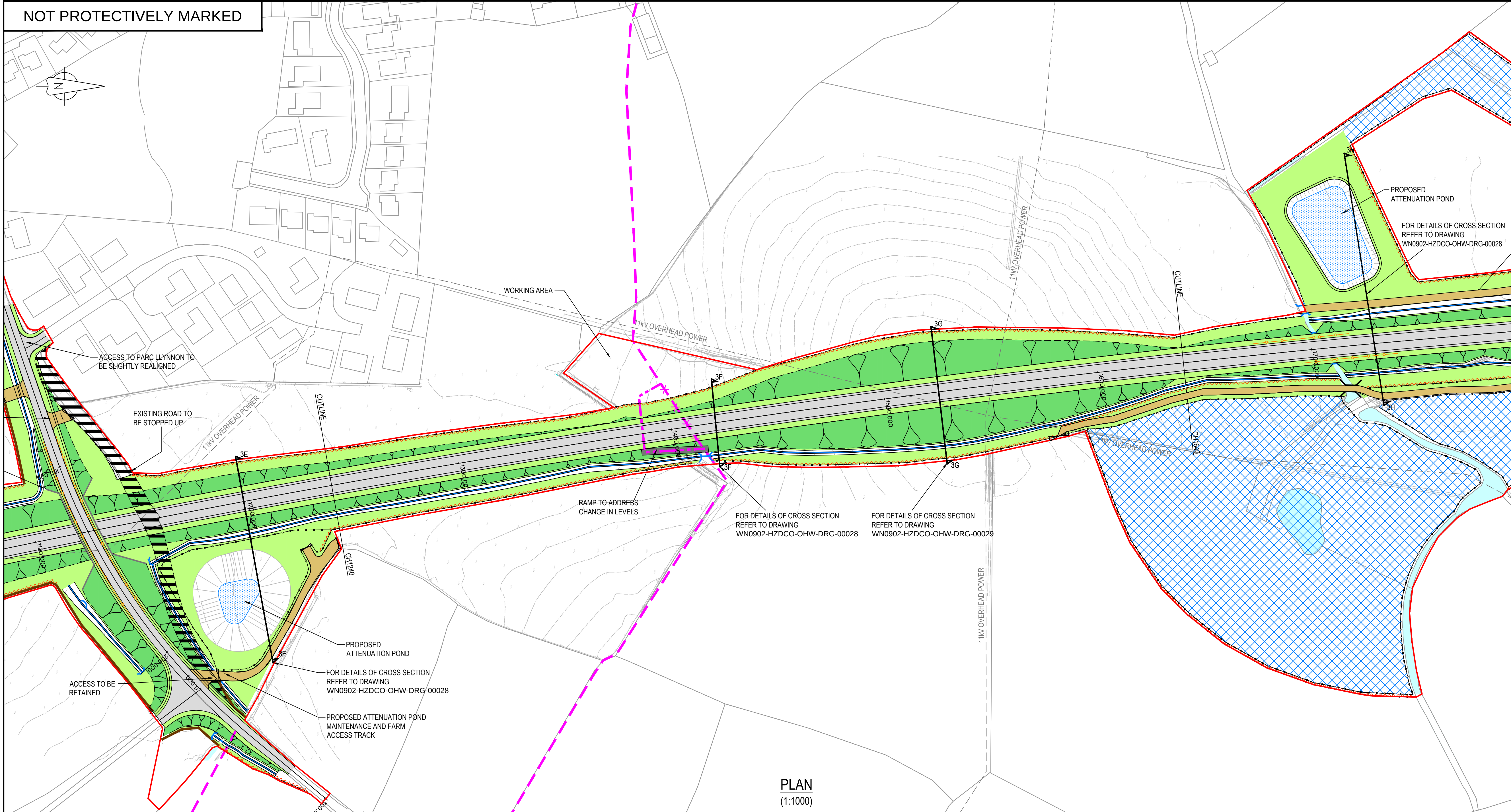
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Drawing Number	Rev
WN0902-HZDCO-OHW-DRG-00014	1.0

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NOTES

- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
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- WN0902-HZDCO-OHW-DRG-00016 - SHEET 4

KEY PLAN
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1.0	MAY 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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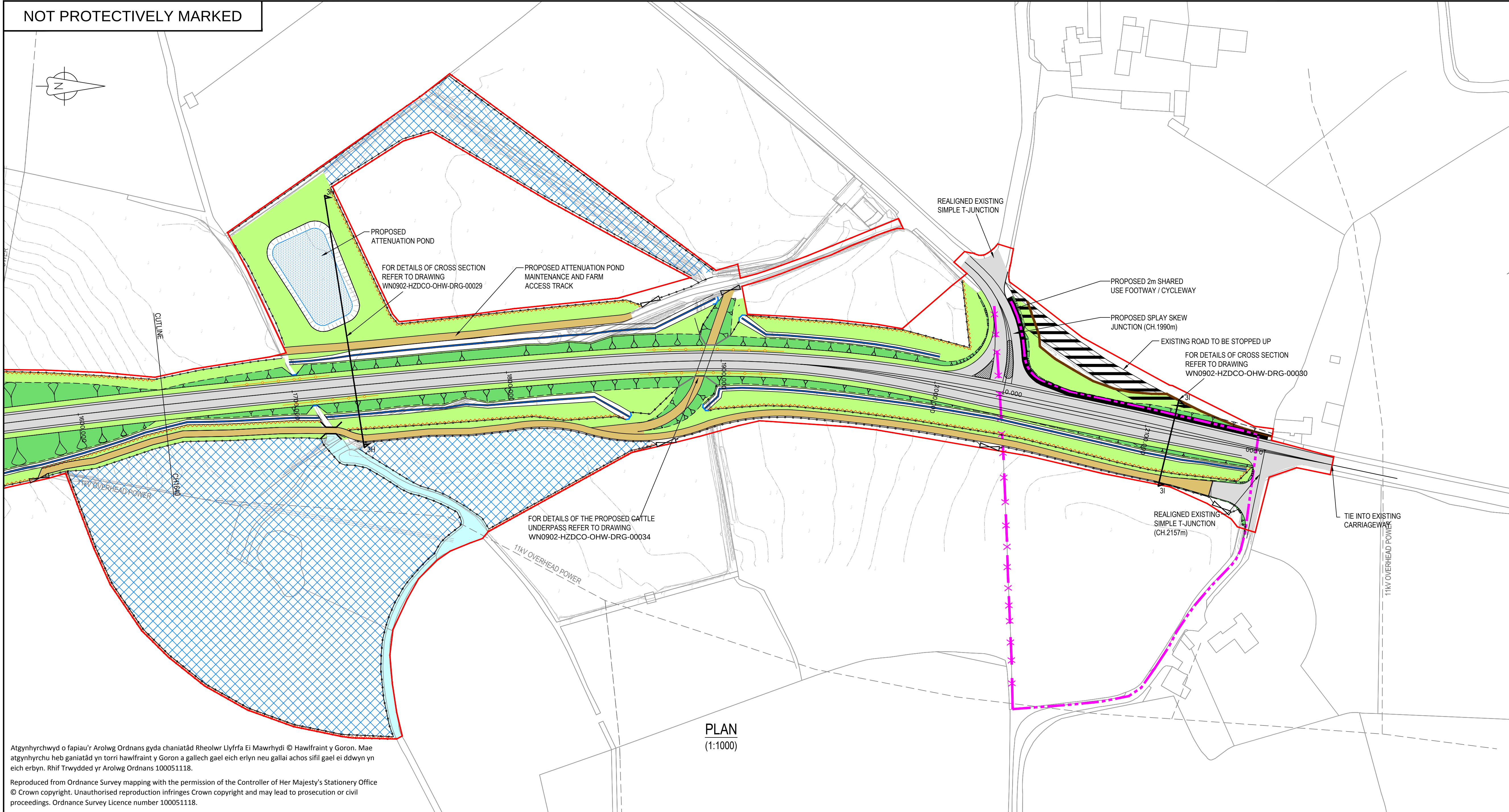
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Drawing Number	WN0902-HZDCO-OHW-DRG-00015				Rev
				1.0	

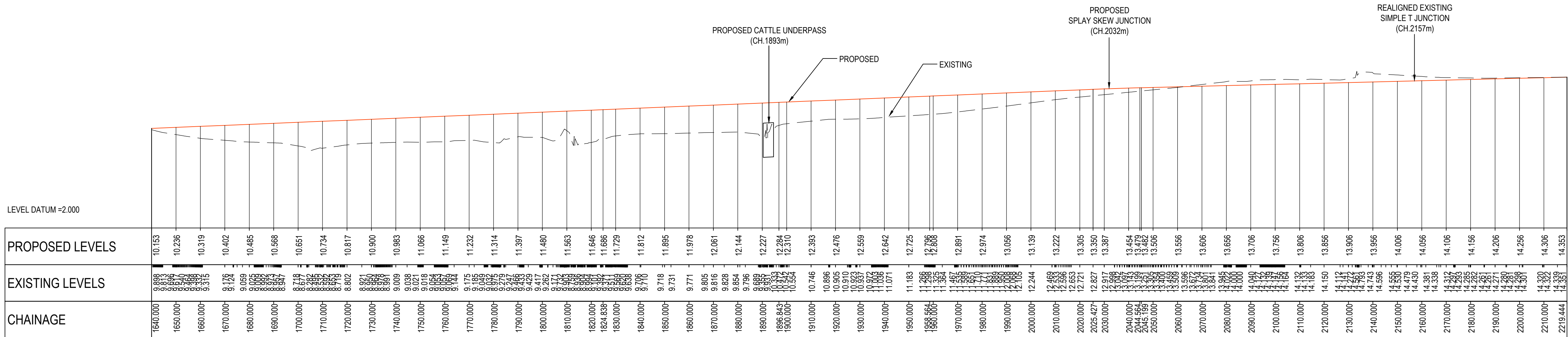
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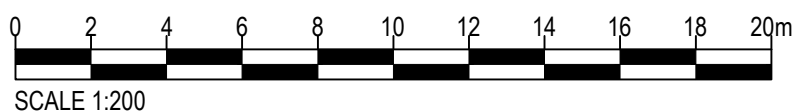
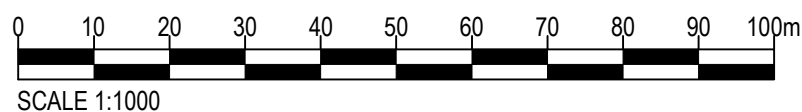


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LONGITUDINAL SECTION
(H: 1:1000 V: 1:200)



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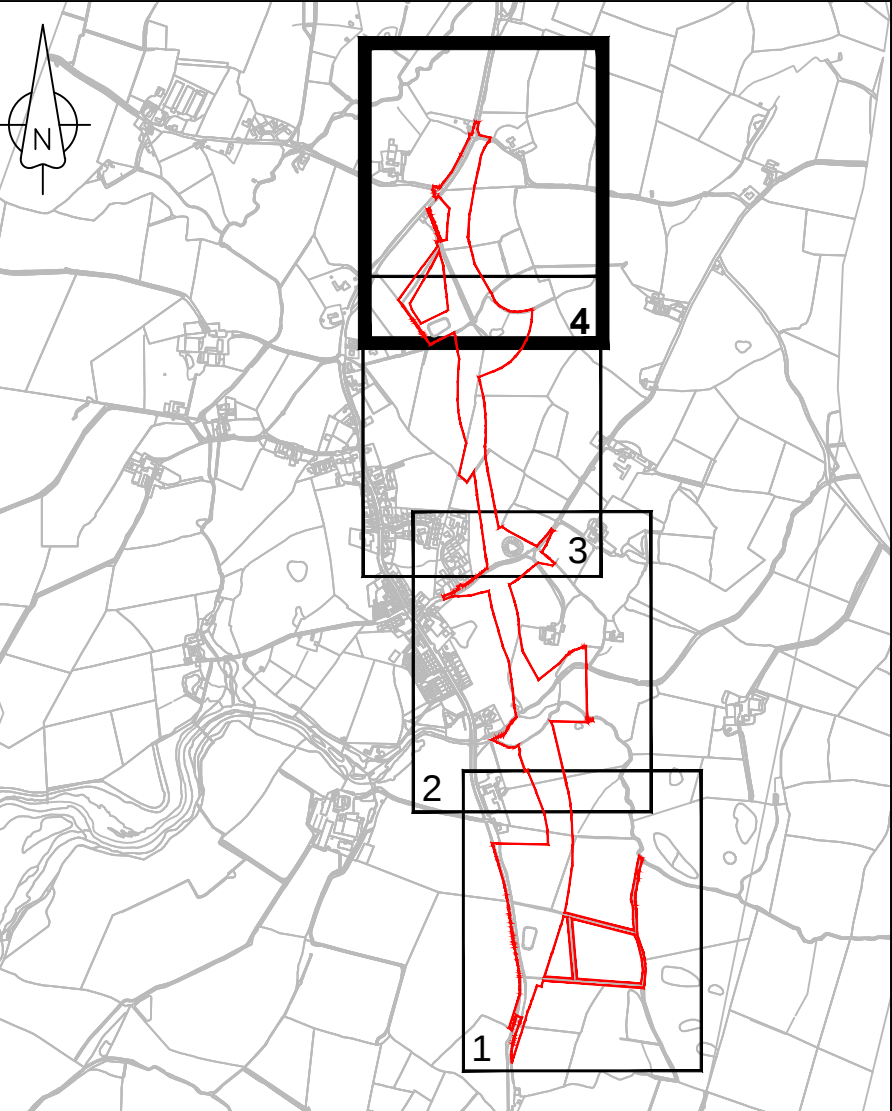
- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
- Existing ground levels based on topographical survey information from surveys undertaken.
- The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
- Road alignment geometry has been designed in accordance with DMRB TD 9/93.
- Roundabout geometry designed in accordance with DMRB TD 16/07.

LEGEND

- Order Limits
- Existing public right of way (PROW)
- Proposed carriageway
- Proposed shared use footway-cycleway
- Existing carriageway to be stopped up
- Proposed splitter island
- Proposed verge
- Proposed earthworks slopes
- Proposed access track
- Existing watercourse
- Proposed attenuation pond
- Ecological mitigation area
- Proposed highway boundary fence
- Proposed gated private means of access
- Proposed land drainage ditch
- Proposed vehicle safety barrier
- PROW to be stopped up
- PROW diversion
- Proposed stone wall
- Proposed hedgerow

REFERENCE DRAWINGS

- For details of proposed drainage refer to drawings WN0902-HZDCO-OHW-DRG-00041 & 00042
- For details of cross section refer to drawing WN0902-HZDCO-OHW-DRG-00029 & 00030
- For details of the proposed cattle underpass refer to drawing WN0902-HZDCO-OHW-DRG-00034
- WN0902-HZDCO-OHW-DRG-00013 - SHEET 1
- WN0902-HZDCO-OHW-DRG-00014 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00015 - SHEET 3



KEY PLAN

(Not to Scale)

1.0	MAY 2018	FOR DCO SUBMISSION	HN/PWL	HN/PWL	HN/PWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

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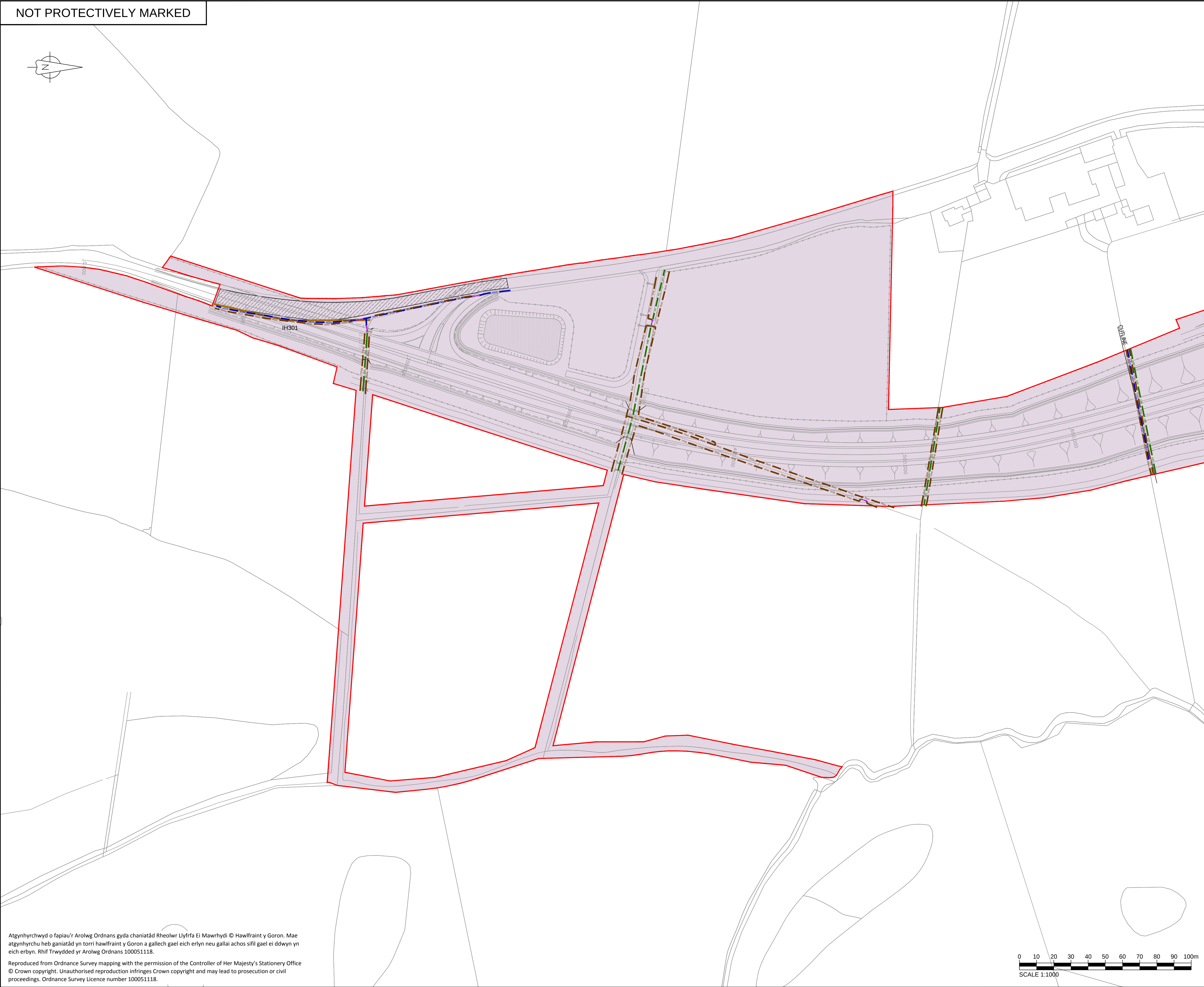
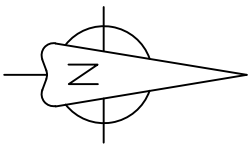
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**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED GENERAL
ARRANGEMENT PLAN - SHEET 4**

Regulation 5 (2) (o)

Security Status
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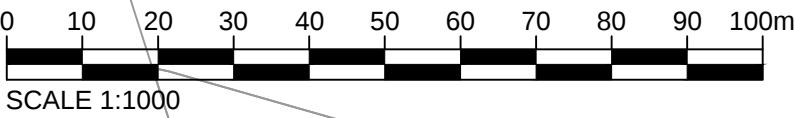
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Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00016					1.0

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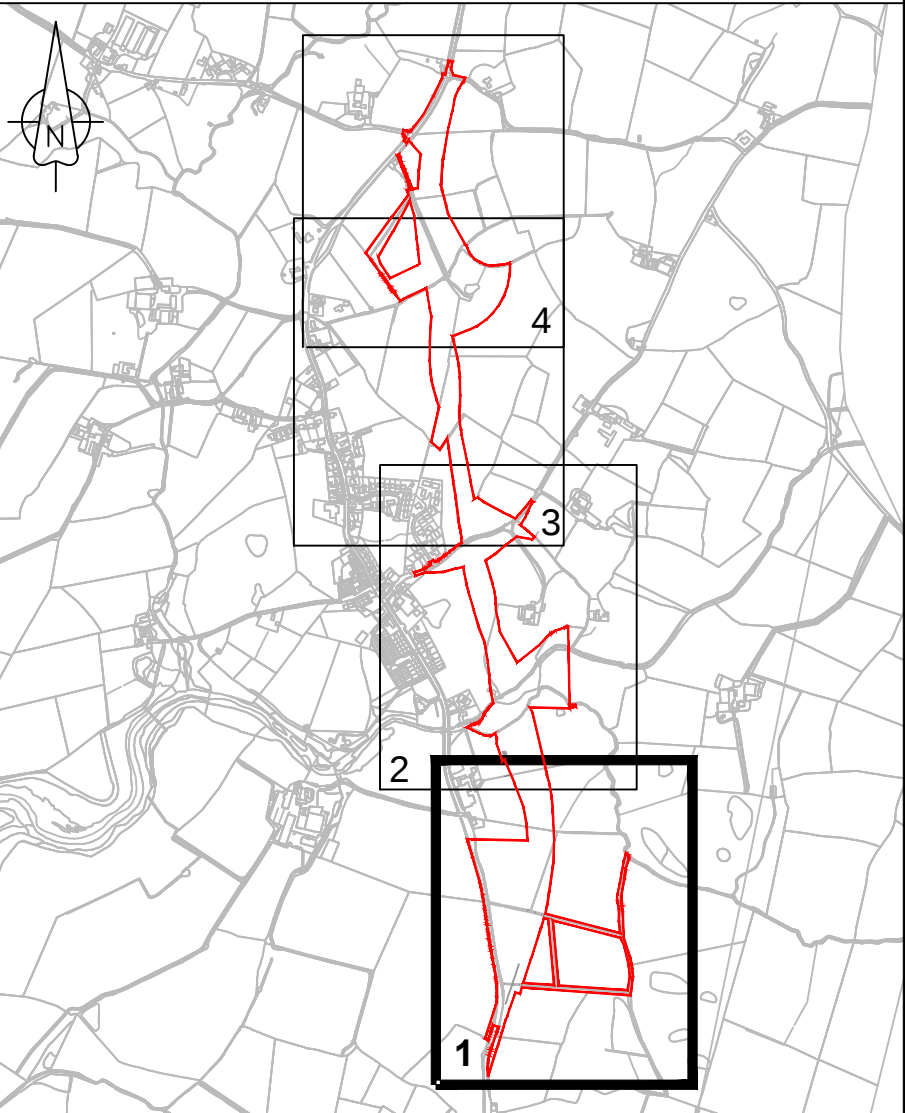
1. The area shown as 'general site clearance' does not mean that everything within this area is to be cleared. Site clearance will be the minimum required to undertake the works. General site clearance consists of removal of overgrowth in verges, topsoil removal and disposal.
2. Only fencing, hedgerows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

LEGEND

- Order limits
- General site clearance area
- Road pavement to be excavated & removed
- Stone wall to be removed
- Hedgerow to be removed
- Public right of way
- Timber post & wire fence to be removed
- Gate to be removed
- Important Hedgerow (Hedgerow Regulations 1997) To be removed

REFERENCE DRAWINGS

1. This drawing is to be read in conjunction with the notes on drawing WN0902-HZDCO-OHW-DRG-0004.
2. WN0902-HZDCO-OHW-DRG-00018 - SHEET 2
3. WN0902-HZDCO-OHW-DRG-00019 - SHEET 3
4. WN0902-HZDCO-OHW-DRG-00020 - SHEET 4



1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

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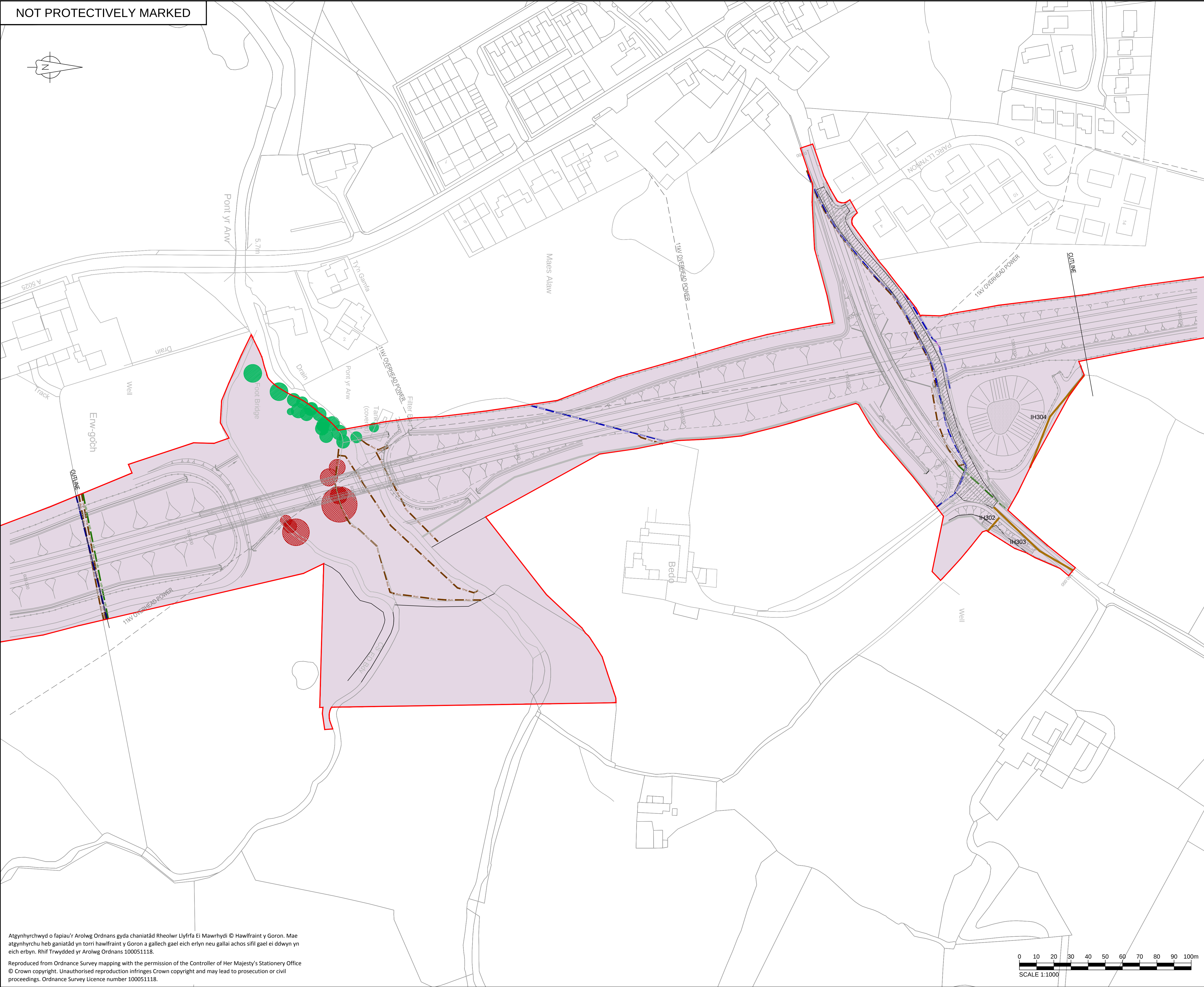
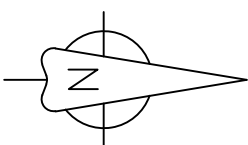
Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED SITE CLEARANCE PLAN
SHEET 1

Regulation 5 (2) (o)

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Drawing Number	WN0902-HZDCO-OHW-DRG-00017	Rev	1.0		

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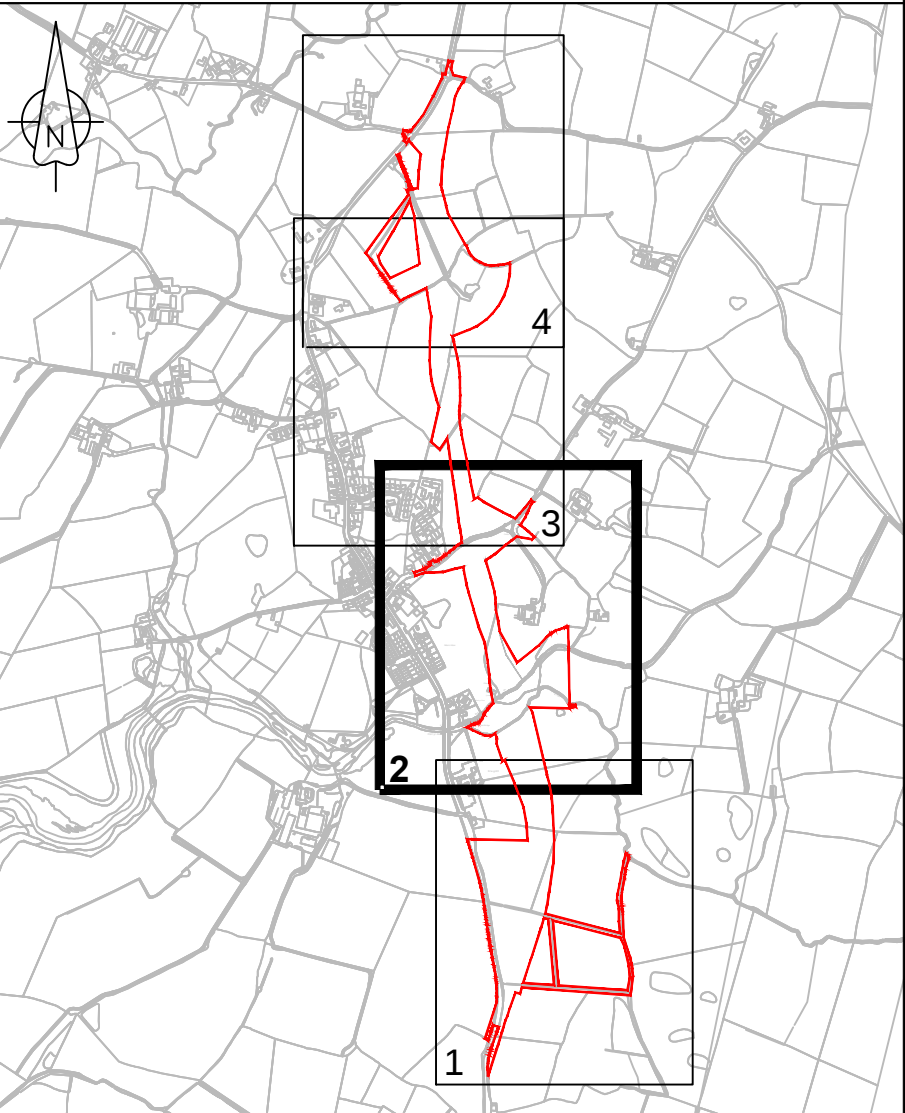
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- Only fencing, hedgerows & gates identified in the key are to be removed as part of the site clearance works.
- Important Hedgerow Reference Number (see Schedule 18 of the draft DCO (Application Reference Number: 3.1)).

LEGEND

- Order limits
- General site clearance area
- Road pavement to be excavated & removed
- Stone wall to be removed
- Timber post & wire fence to be removed
- Hedgerow to be removed
- Tree to be removed
- Tree to be retained
- Important Hedgerow (Hedgerow Regulations 1997) To be removed

REFERENCE DRAWINGS

- This drawing is to be read in conjunction with the notes on drawing WN0902-HZDCO-OHW-DRG-0004.
- WN0902-HZDCO-OHW-DRG-00017 - SHEET 1
- WN0902-HZDCO-OHW-DRG-00019 - SHEET 3
- WN0902-HZDCO-OHW-DRG-00020 - SHEET 4



KEY PLAN
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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

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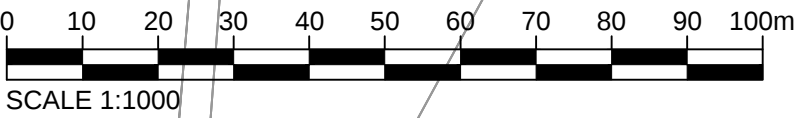
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SECTION 3 - LLANFACHRAETH
PROPOSED SITE CLEARANCE PLAN
SHEET 2**

Regulation 5 (2) (o)

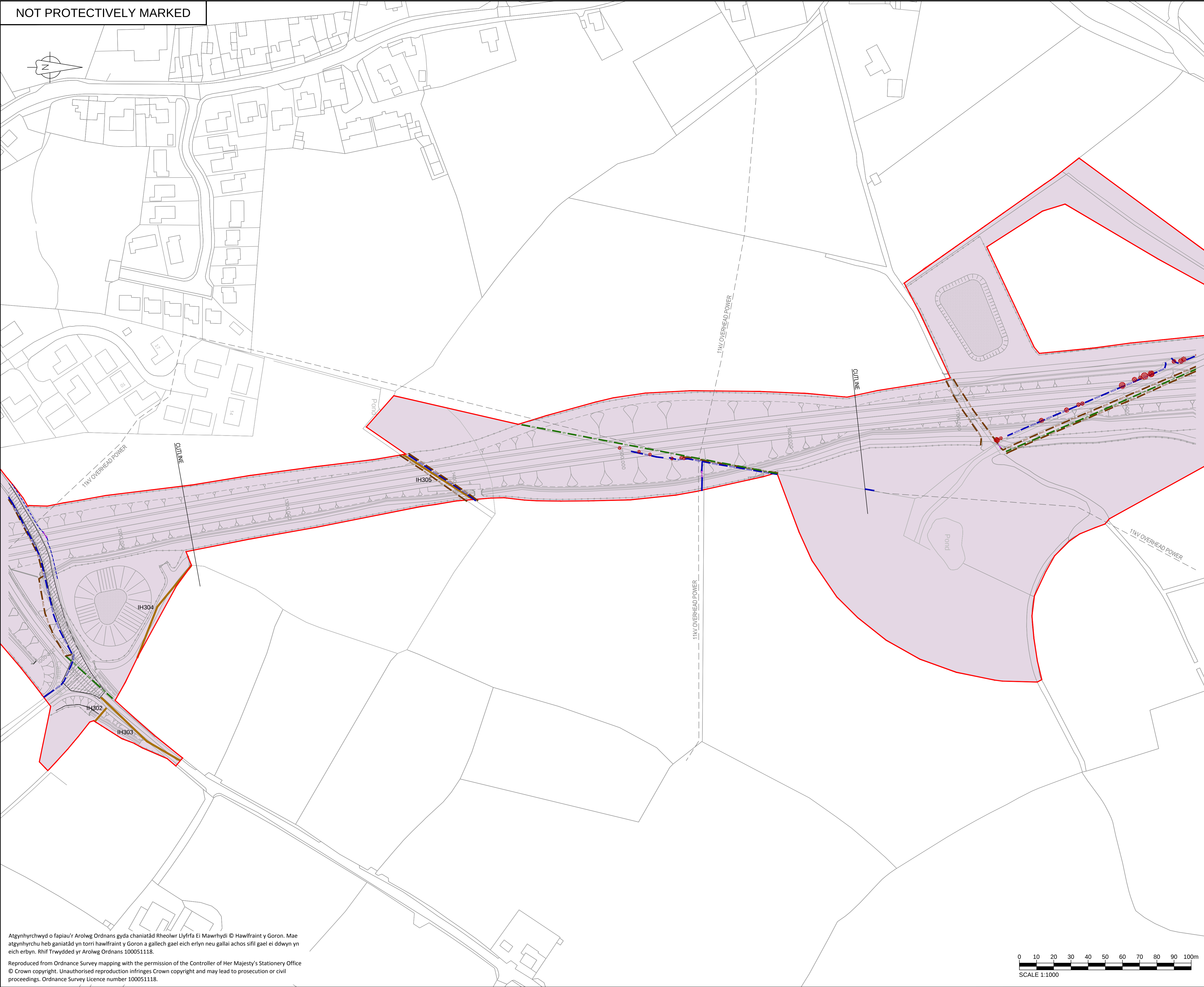
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Drawing Number					Rev		
WN0902-HZDCO-OHW-DRG-00018					1.0		

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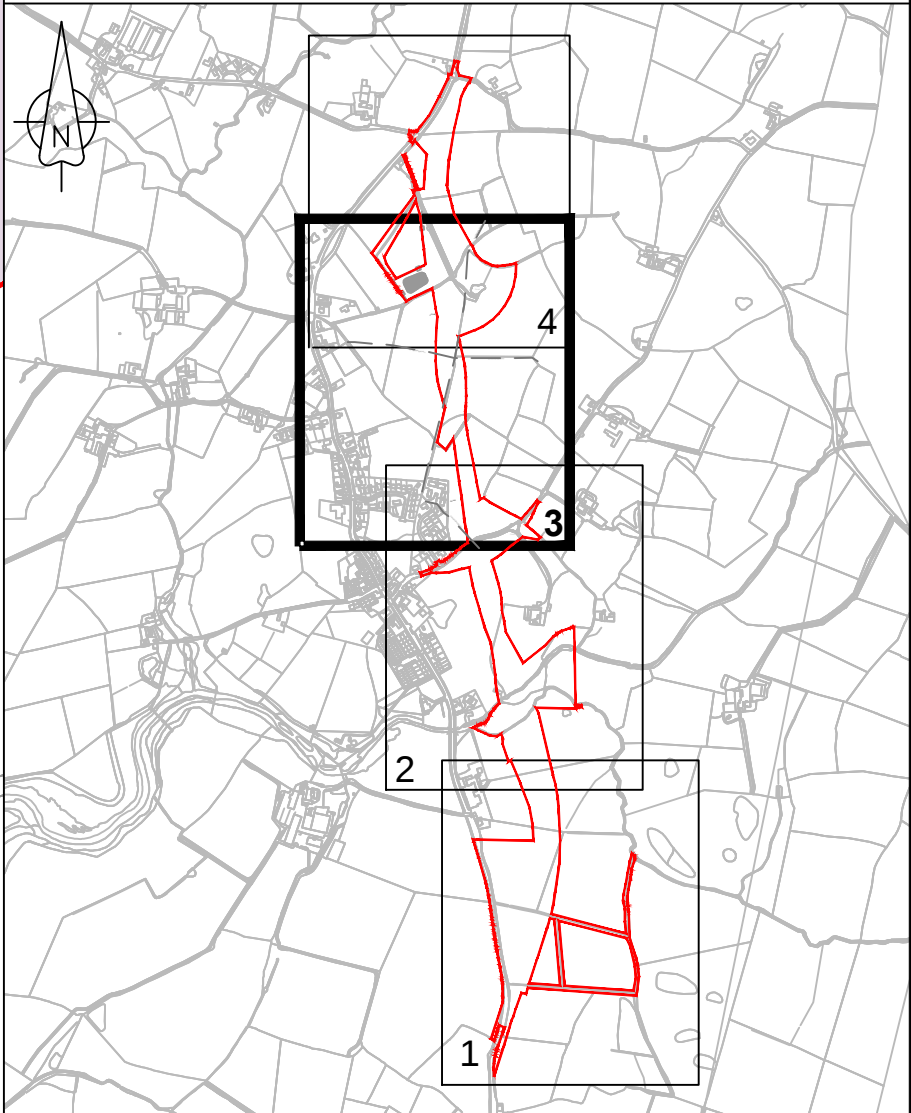
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- Only fencing, hedgerows & gates identified in the key are to be removed as part of the site clearance works.
- Important Hedgerow Reference Number (see Schedule 18 of the draft DCO (Application Reference Number: 3.1).

LEGEND

- Order limits
- General site clearance area
- Road pavement to be excavated & removed
- Stone wall to be removed
- Timber post & wire fence to be removed
- Hedgerow to be removed
- Tree to be removed
- Gate to be removed
- Important Hedgerow (Hedgerow Regulations 1997) To be removed

REFERENCE DRAWINGS

- WN0902-HZDCO-OHW-DRG-00017 - SHEET 1
- WN0902-HZDCO-OHW-DRG-00018 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00020 - SHEET 4



KEY PLAN
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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

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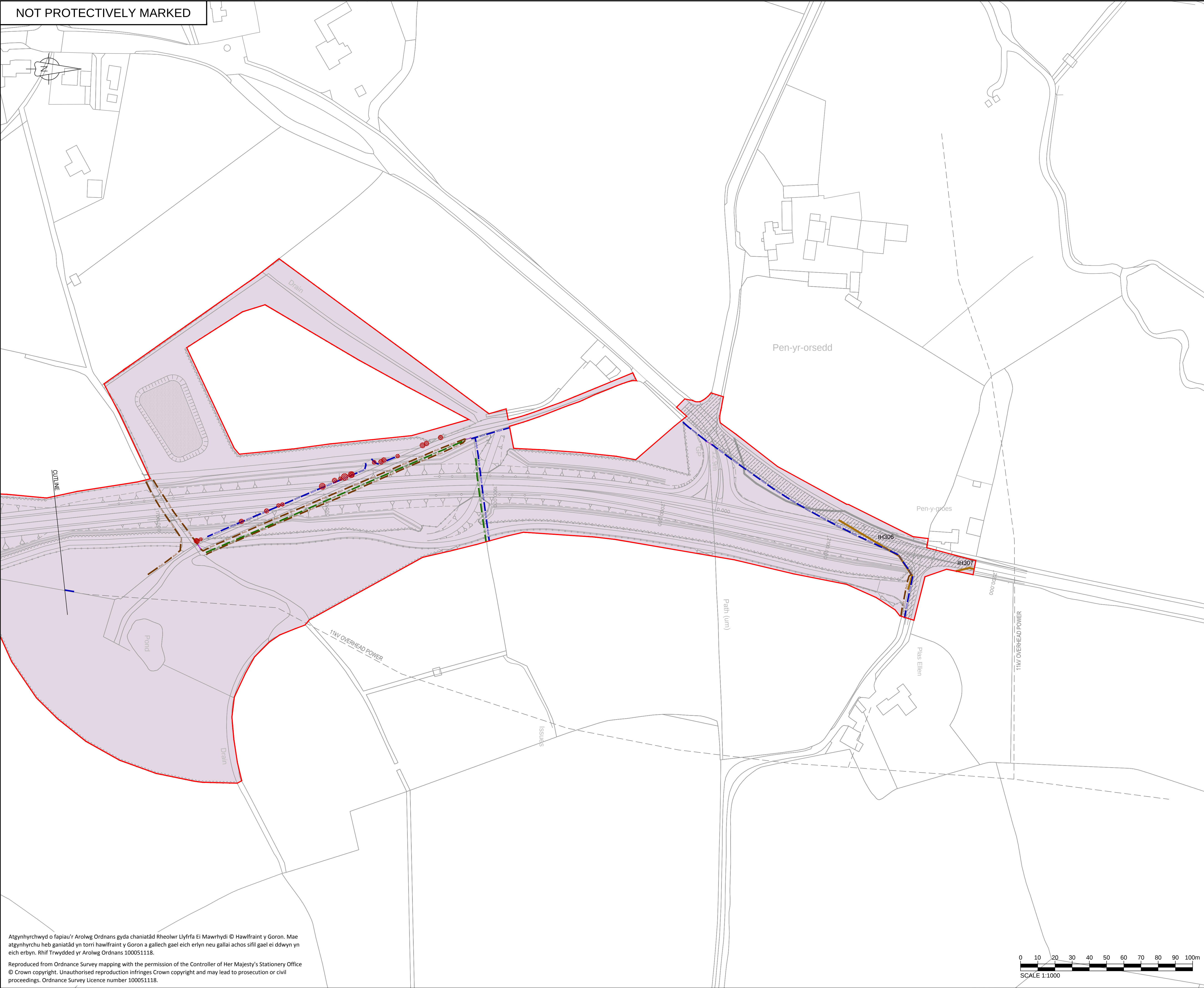
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Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED SITE CLEARANCE PLAN
SHEET 3**

Regulation 5 (2) (o)

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Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00019					1.0

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- Only fencing, hedgerows & gates identified in the key are to be removed as part of the site clearance works.
- Important Hedgerow Reference Number (see Schedule 18 of the draft DCO (Application Reference Number: 3.1)).

LEGEND

- Order limits
- General site clearance area
- Road pavement to be excavated & removed
- Stone wall to be removed
- Timber post & wire fence to be removed
- Hedgerow to be removed
- Tree to be removed
- Important Hedgerow (Hedgerow Regulations 1997) To be removed

REFERENCE DRAWINGS

- WN0902-HZDCO-OHW-DRG-00017 - SHEET 1
- WN0902-HZDCO-OHW-DRG-00018 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00019 - SHEET 3

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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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Drawing Title

**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED SITE CLEARANCE PLAN
SHEET 4**

Regulation 5 (2) (o)

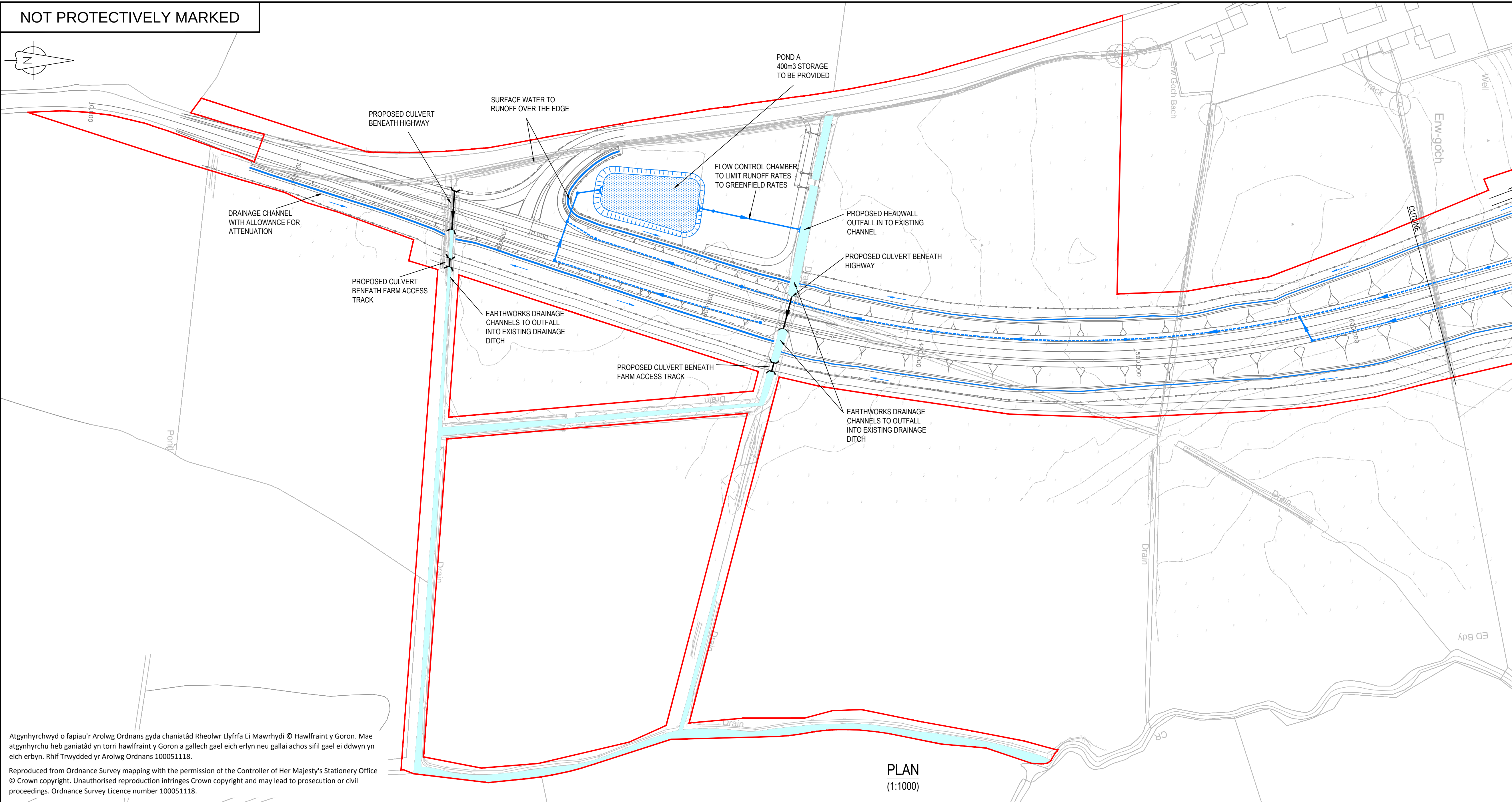
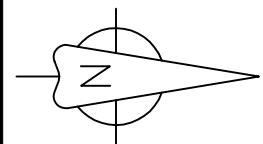
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				1.0	

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PLAN
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NOTES

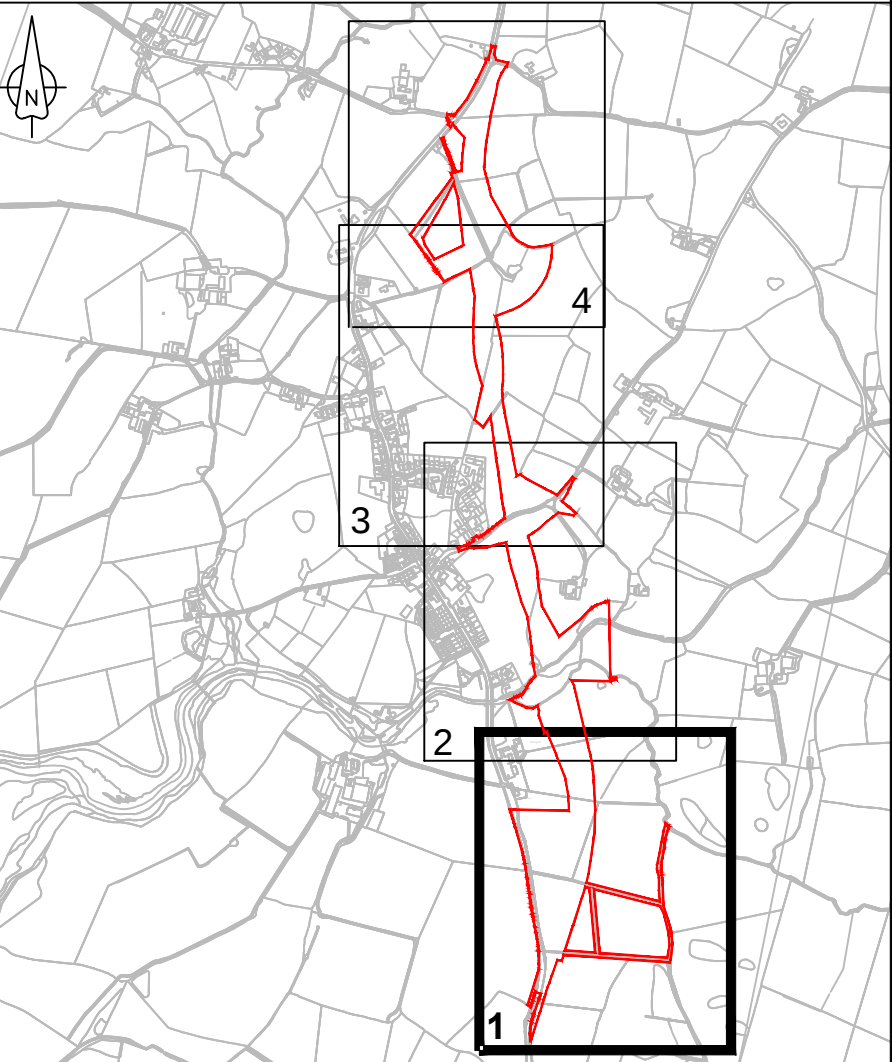
1. Earthwork batter slopes are shown at a gradient of 1 in 2.5.
2. Pond batter slopes are shown at a gradient of 1 in 3.
3. Existing ground survey is based on the highway topographical survey (dated 29.01.2012) and additional land topographical survey (dated Dec 2014 and June 2018).
4. Pond volumes are based on a 1 in 100 year return period plus 30% climate change.
5. Ponds to be located outside of the flood plain.
6. Drainage layouts are indicative for information only and are subject to detailed design and modelling.
7. 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.
8. Gradients of filter drains typically follow the longitudinal fall of the highway with a minimum cover of 1.2m.
9. Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 80m.
10. Drainage outfall locations and levels are based on topographical survey information data.

LEGEND

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

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00022 - SHEET 2
2. WN0902-HZDCO-OHW-DRG-00023 - SHEET 3
3. WN0902-HZDCO-OHW-DRG-00024 - SHEET 4



KEY PLAN
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1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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SECTION 3 - LLANFACHRAETH
PROPOSED DRAINAGE PLAN
SHEET 1

Regulation 5 (2) (o)

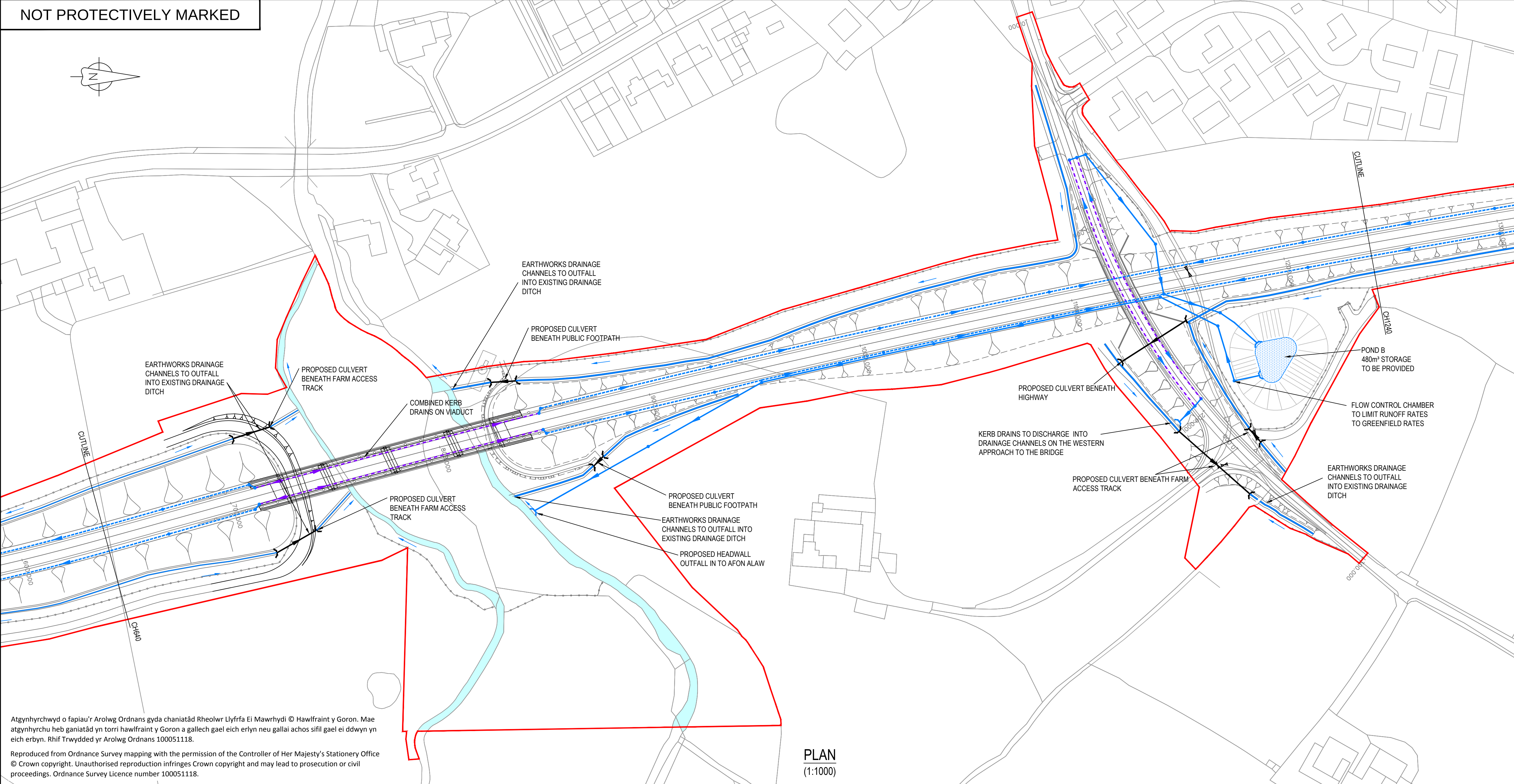
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LEVEL DATUM =2.000

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Atgynhychwyd o fapiau'r Arolwg Ordans gyda chaniatâd Rheolwr Llyfrfa Ei Mawrhydi © Hawlfraint y Goron. Mae atgynhychu heb ganiatâd yn torri hawlfraint y Goron a gallech gael eich erlynn neu gallai achos siffr gael ei ddwyn yn eich erbyn. Rhif Trwydded yr Arolwg Ordans 100051118.

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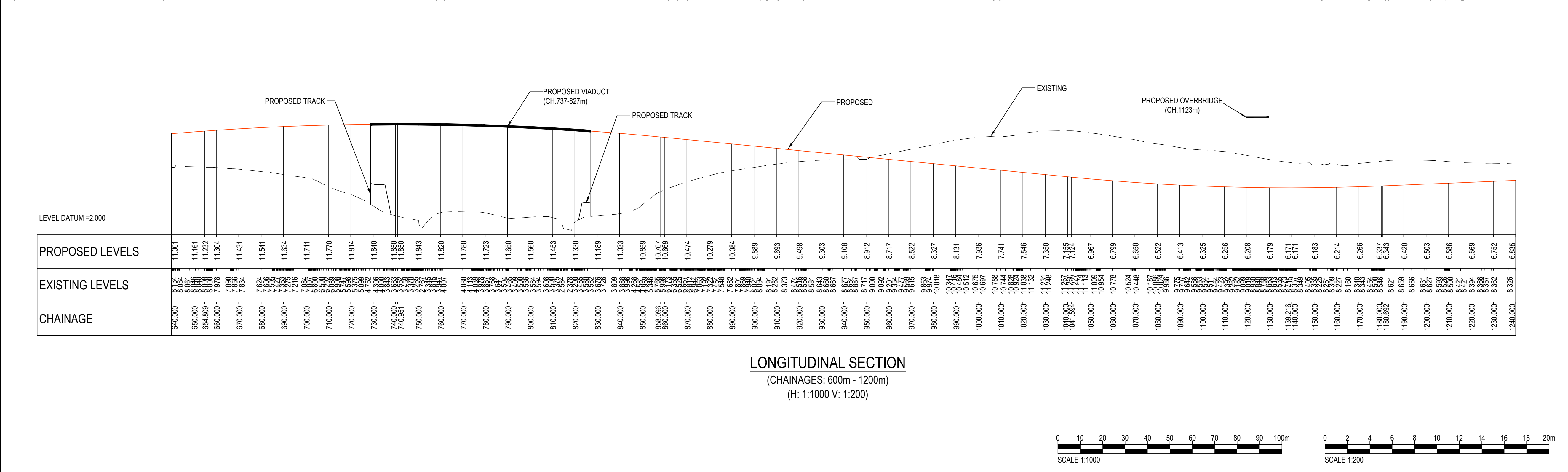
PLAN
(1:1000)

NOTES

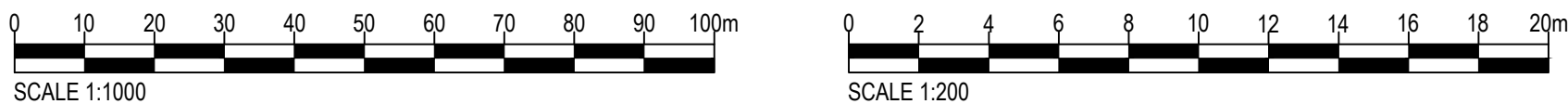
LEGEND

REFERENCE DRAWINGS

KEY PLAN



LONGITUDINAL SECTION
(CHAINAGES: 600m - 1200m)
(H: 1:1000 V: 1:200)



FOR APPROVAL

HORIZON
NUCLEAR POWER

WYLFA NEWYDD
DCO PROJECT

NOT PROTECTIVELY MARKED

NOT PROTECTIVELY MARKED

PROPOSED HEADWALL OUTFALL IN TO EXISTING CHANNEL

PROPOSED CULVERT BENEATH FARM ACCESS TRACK

PROPOSED CULVERT BENEATH PUBLIC FOOTPATH

PROPOSED CULVERT BENEATH HIGHWAY

FLOW CONTROL CHAMBER TO LIMIT RUNOFF RATES TO GREENFIELD RATES

POND B 480m³ STORAGE TO BE PROVIDED

POND C 400m³ STORAGE TO BE PROVIDED

EARTHWORKS DRAINAGE CHANNELS TO OUTFALL INTO EXISTING DRAINAGE DITCH

PLAN
(1:1000)

Atgynhychwyd o fapiau'r Arolwg Ordnans gyda chaniatâd Rheolwr Llyfrfa Ei Mawrhydi © Hawlfraint y Goron. Mae atgynhychu heb ganiatâd yn torri hawlfraint y Goron a gallech gael eich erlyn neu gallai achos sifil gael ei ddwyn yn eich erbyn. Rhif Trwydded yr Arolwg Ordnans 100051118.

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NOTES

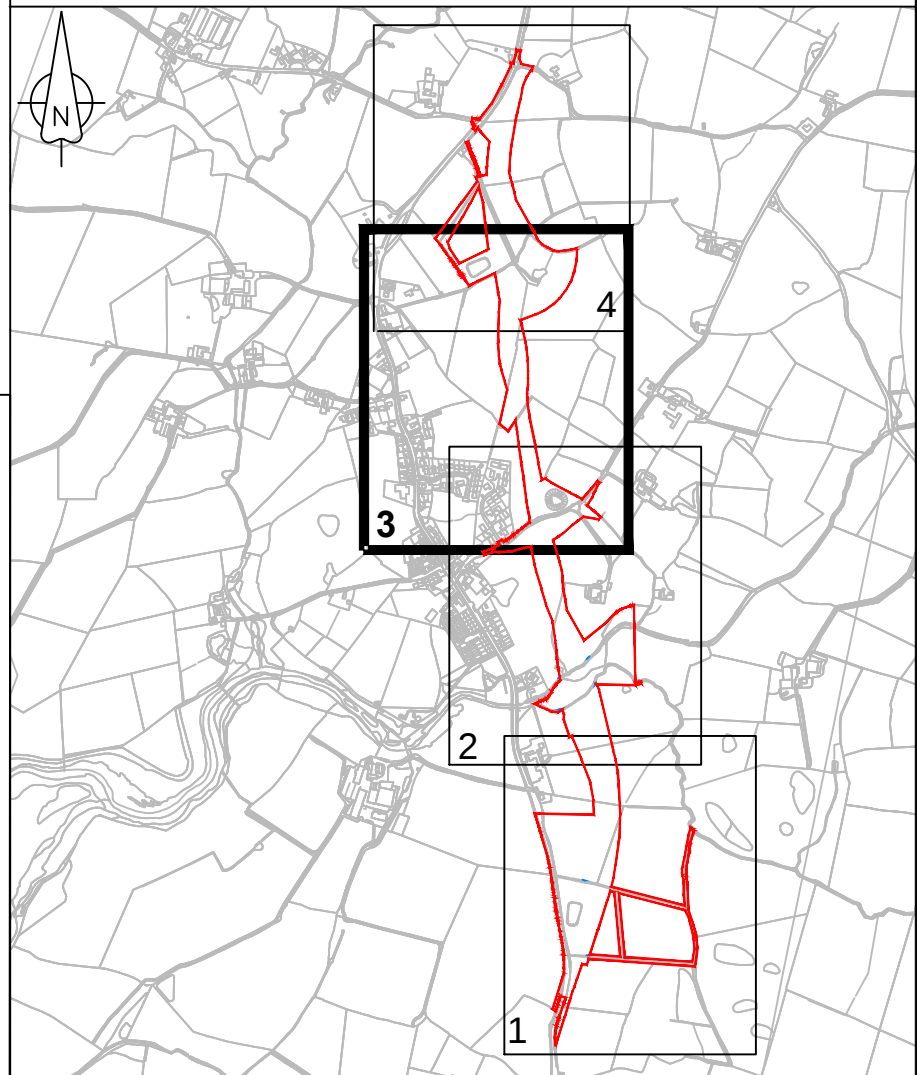
1. Earthwork batter slopes are shown at a gradient of 1 in 2.5.
2. Existing batter slopes are shown at a gradient of 1 in 3.
3. Existing ground survey is based on the highway topographical survey (dated 29.01.2012) and additional land topographical survey (dated Dec 2014 and June 2016).
4. Pond water levels are based on a 1 in 100 year return period plus 30% climate change.
5. Ponds to be located outside of the flood plain.
6. Drainage layouts are indicative for information only and are subject to detailed design and construction.
7. 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.
8. Gradients of filter drains typically follow the longitudinal fall of the highway with a minimum cover of 1.2m.
9. Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 100m.
10. Drainage outfall locations and levels are based on topographical survey information data.

LEGEND

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

REFERENCE DRAWINGS

- | | |
|----|--------------------------------------|
| 1. | WN0902-HZDCO-OHW-DRG-00021 - SHEET 1 |
| 2. | WN0902-HZDCO-OHW-DRG-00022 - SHEET 2 |
| 3. | WN0902-HZDCO-OHW-DRG-00024 - SHEET 4 |



KEY PLAN

(Not to Scale)

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

FOR APPROVAL



HORIZON
NUCLEAR POWER

Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK
Freephone: 0845 300 6816 Email: info@horizonnuclearpower.com

Project

WYLFA NEWYDD
DCO PROJECT

Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED DRAINAGE PLAN
SHEET 3

Regulation 5 (2) (o)

Security Status	NOT PROTECTIVELY MARKED
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NOT PROTECTIVELY MARKED					
Case No.	Applicant	Category	Age	Sex	DOB
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Scale	AS SHOWN	Sheet Size	A1	Sheet(s)	1 of 1
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Drawing Number	Rev
WN0902-HZDCO-OHW-DRG-00023	1.0

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NOT PROTECTIVELY MARKED

Pen-y-ford

Dain

Flow Control Chamber to Limit Runoff Rates to Greenfield Rates

Pond C 400m³ Storage to be Provided

Proposed Headwall Outfall into Existing Channel

Proposed Culvert beneath Farm Access Track

Proposed Culvert to Divert Ditch beneath the Ramp down to the Underpass

Surface Water to Runoff over the Edge

Proposed Culvert to Ditch around the Ramp down to the Underpass

Proposed Culvert beneath Highway

Earthworks Drainage Channels to Outfall into Existing Drainage Ditch

PLAN
(1:1000)

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PROPOSED LEVELS	EXISTING LEVELS	CHAINAGE
10.153	9.898	1640.000
10.236	9.940	1650.000
10.319	9.982	1660.000
10.402	10.024	1670.000
10.485	10.066	1680.000
10.568	10.108	1690.000
10.651	10.150	1700.000
10.734	10.192	1710.000
10.817	10.234	1720.000
10.900	10.276	1730.000
10.983	10.318	1740.000
11.066	10.360	1750.000
11.149	10.402	1760.000
11.232	10.444	1770.000
11.314	10.486	1780.000
11.397	10.528	1790.000
11.480	10.570	1800.000
11.563	10.612	1810.000
11.646	10.654	1820.000
11.688	10.696	1830.000
11.729	10.738	1840.000
11.812	10.780	1850.000
11.895	10.822	1860.000
11.978	10.864	1870.000
12.061	10.906	1880.000
12.144	10.948	1890.000
12.227	10.990	1900.000
12.294	11.032	1910.000
12.310	11.074	1920.000
12.330	11.116	1930.000
12.359	11.158	1940.000
12.387	11.200	1950.000
13.350	11.242	1960.000
13.387	11.284	1970.000
13.424	11.326	1980.000
13.461	11.368	1990.000
13.498	11.410	2000.000
13.535	11.452	2010.000
13.572	11.494	2020.000
13.609	11.536	2030.000
13.646	11.578	2040.000
13.683	11.620	2050.000
13.720	11.662	2060.000
13.757	11.704	2070.000
13.794	11.746	2080.000
13.831	11.788	2090.000
13.868	11.830	2100.000
13.905	11.872	2110.000
13.942	11.914	2120.000
13.979	11.956	2130.000
14.016	11.998	2140.000
14.053	12.040	2150.000
14.090	12.082	2160.000
14.127	12.124	2170.000
14.164	12.166	2180.000
14.201	12.208	2190.000
14.238	12.250	2200.000
14.275	12.292	2210.000
14.312	12.334	2219.444

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SCALE 1:1000

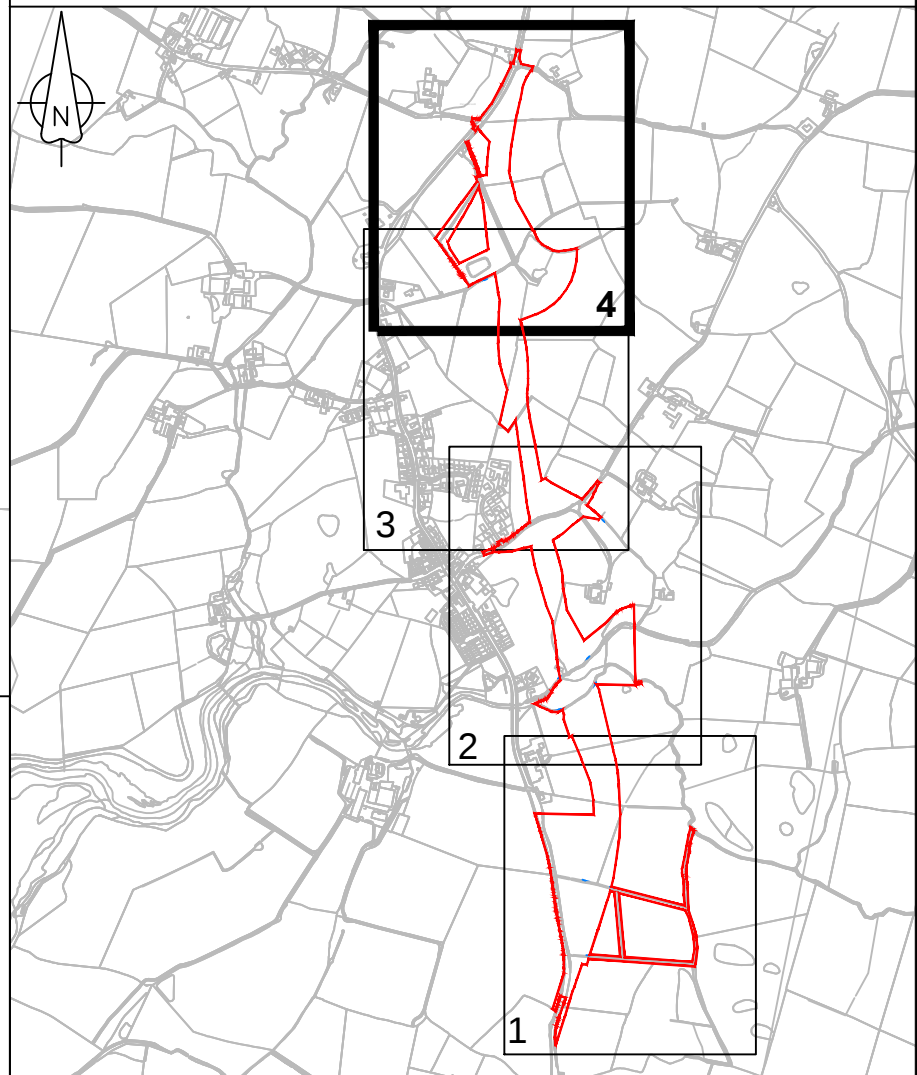
NOTES

1. Earthwork batter slopes are shown at a gradient of 1 in 2.5.
2. Pond and batter slopes are shown at a gradient of 1 in 3.
3. 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).
4. Pond volumes are based on a 1 in 100 year return period plus 30% climate change.
5. Ponds to be located outside of the flood plain.
6. Drainage layouts are indicative for information only and are subject to detailed design.
7. 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.
8. Gradients of filter drains typically follow the longitudinal fall of the highway with a minimum cover of 1.2m.
9. Filter drain inspection chambers shall be located at regular intervals and at connection points. The spacing between inspection chambers shall not exceed 80m.
10. Drainage outfall locations and levels are based on topographical survey information data.

LEGEND

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

REFERENCE DRAWINGS	
1.	WN0902-HZDCO-OHW-DRG-00021 - SHEET 1
2.	WN0902-HZDCO-OHW-DRG-00022 - SHEET 2
3.	WN0902-HZDCO-OHW-DRG-00023 - SHEET 3



KEY PLAN (Not to Scale)					
1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

FOR APPROVAL

HORIZON
NUCLEAR POWER

Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK
Freephone: 0845 300 6816 Email: info@horizonnuclearpower.com

Project

WYLFA NEWYDD
DCO PROJECT

Drawing Title

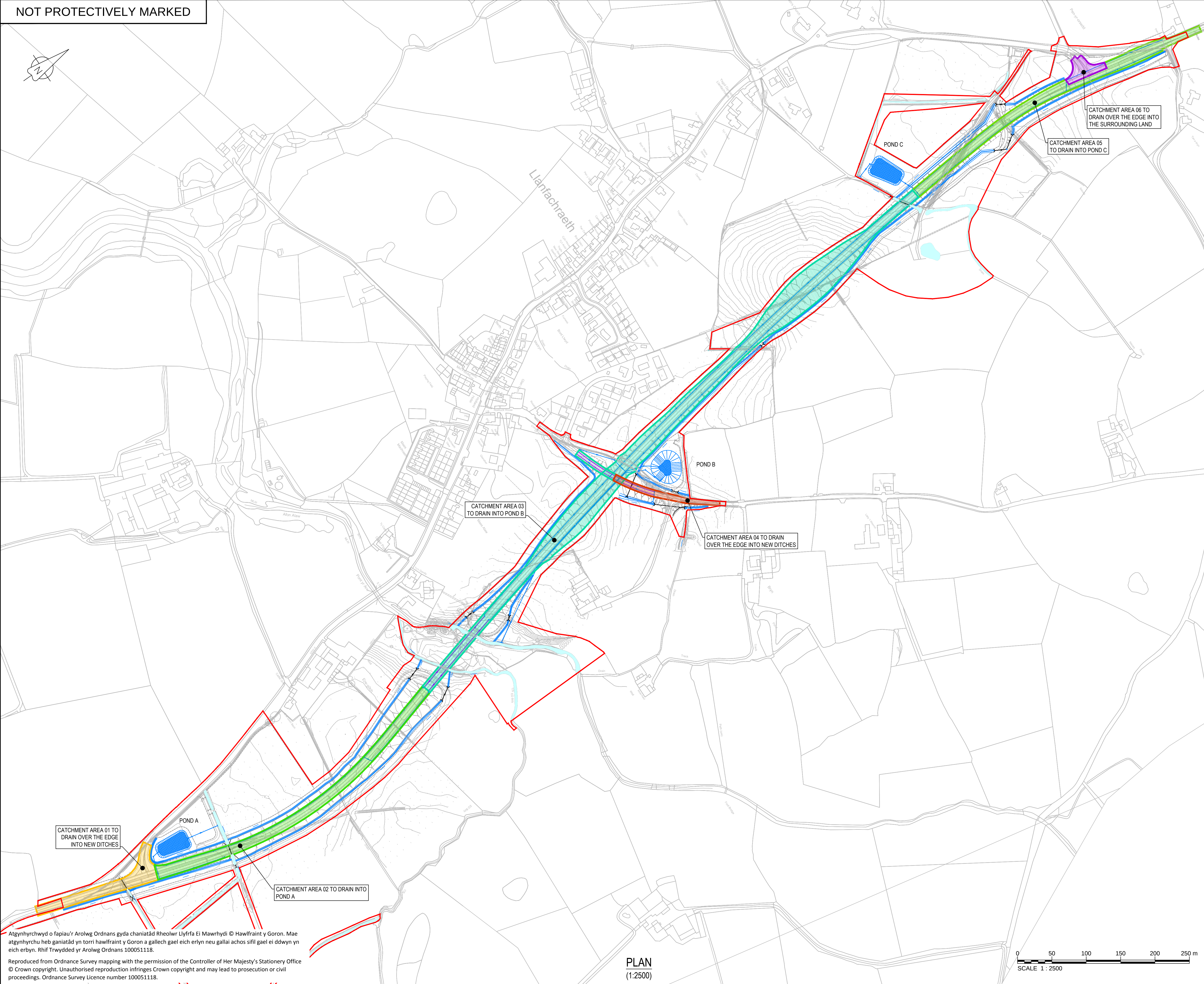
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED DRAINAGE PLAN
SHEET 4

Regulation 5 (2) (o)

NOT PROTECTIVELY MARKED

Scale	AS SHOWN	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number WN0902-HZDCO-OHW-DRG-00024					Rev 1.0

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NOTES

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

LEGEND

- Order limits
- Existing watercourse
- Catchment Area 01
- Catchment Area 02
- Catchment Area 03
- Catchment Area 04
- Catchment Area 05
- Catchment Area 06

1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Approved

FOR INFORMATION

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NUCLEAR POWER

Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK
Freephone: 0845 300 6816 Email: info@horizonnuclearpower.com

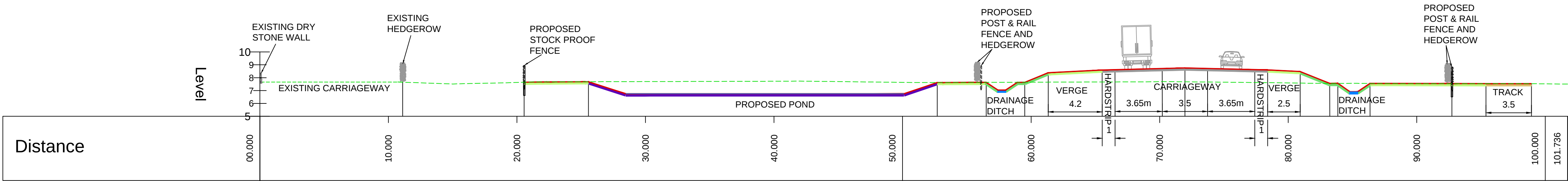
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED DRAINAGE
CATCHMENT PLAN**

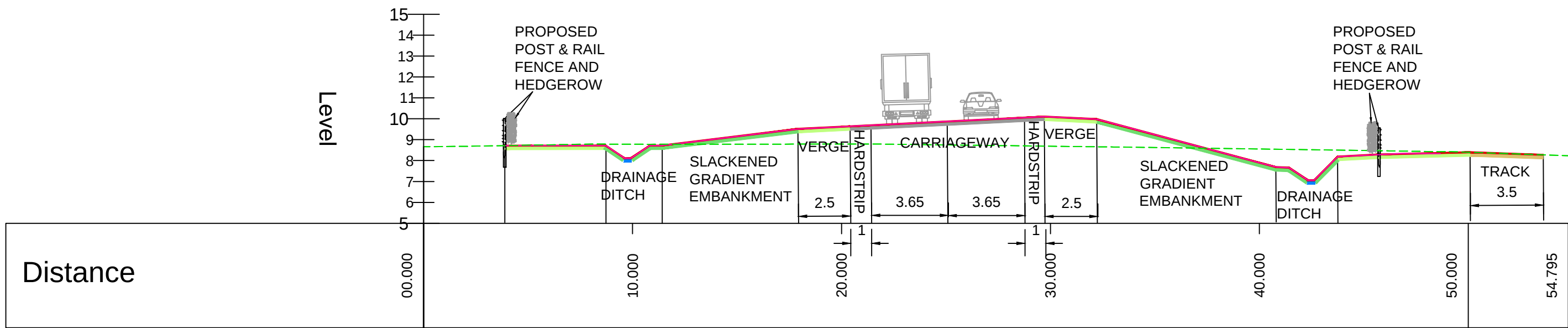
Regulation 5 (2) (o)

NOT PROTECTIVELY MARKED

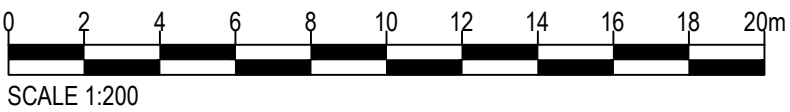
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Drawing Number	WN0902-HZDCO-OHW-DRG-00025	Rev	1.0		



PROPOSED CROSS SECTION 3A-A
(SCALE 1:200)



PROPOSED CROSS SECTION 3B-B
(SCALE 1:200)



NOTES

- All levels are in metres unless otherwise stated.
- All dimensions are in metres unless otherwise stated.

LEGEND

- Proposed levels
- Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00013 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 3 - LLANFACHRAETH PROPOSED GENERAL ARRANGEMENT PLAN (SHEET1)

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

FOR APPROVAL

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WYLFA NEWYDD
DCO PROJECT

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED CROSS SECTION
3A-A & 3B-B

Regulation 5 (2) (o)

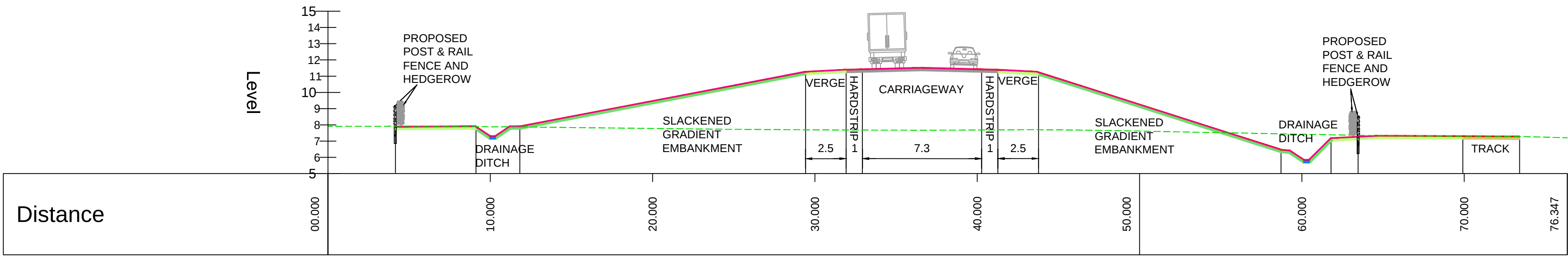
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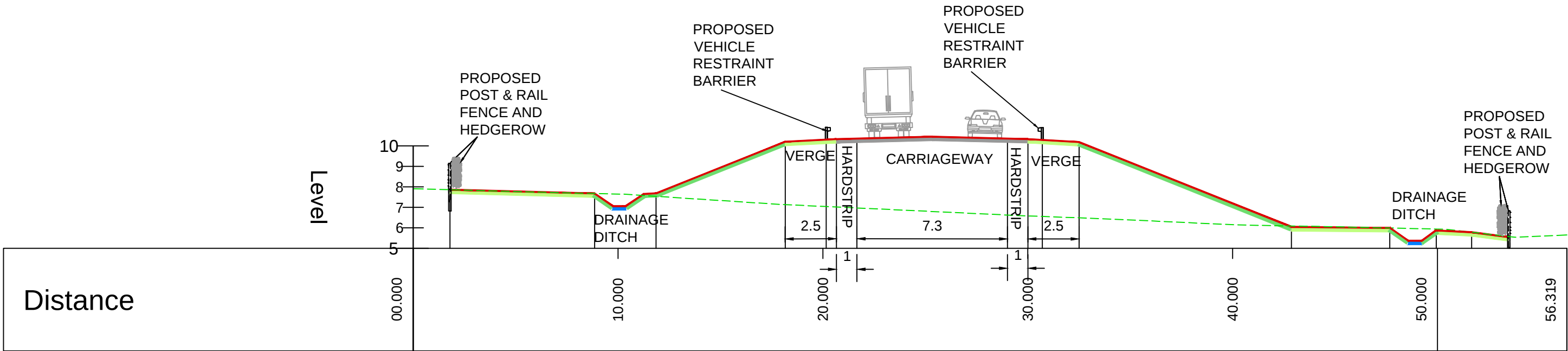
1. All levels are in metres unless otherwise stated.
2. All dimensions are in metres unless otherwise stated.

- Proposed levels
- Existing levels

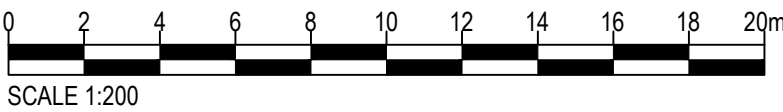
WN0902-H2DCO-OHW-DRG-00014 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 3 - LLANACHRAETH PROPOSED GENERAL ARRANGEMENT (SHEET 2)



PROPOSED CROSS SECTION 3C-C
(SCALE 1:200)



PROPOSED CROSS SECTION 3D-D
(SCALE 1:200)



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

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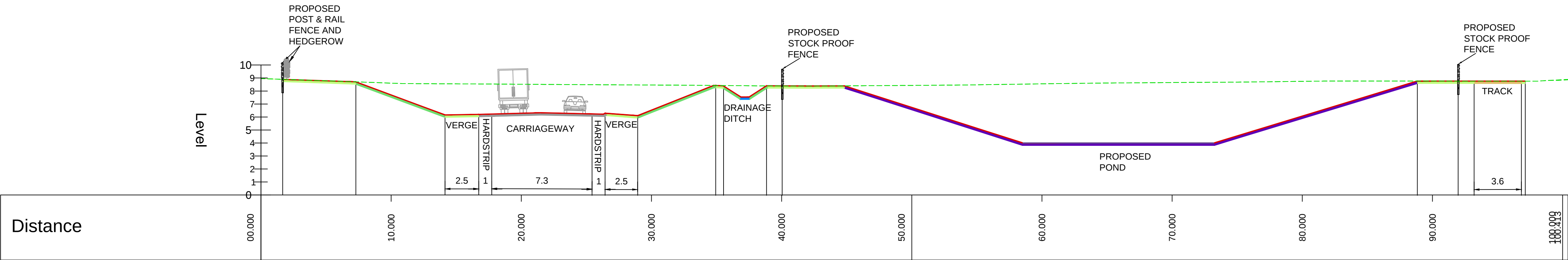
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED CROSS SECTION
3C-C & 3D-D**

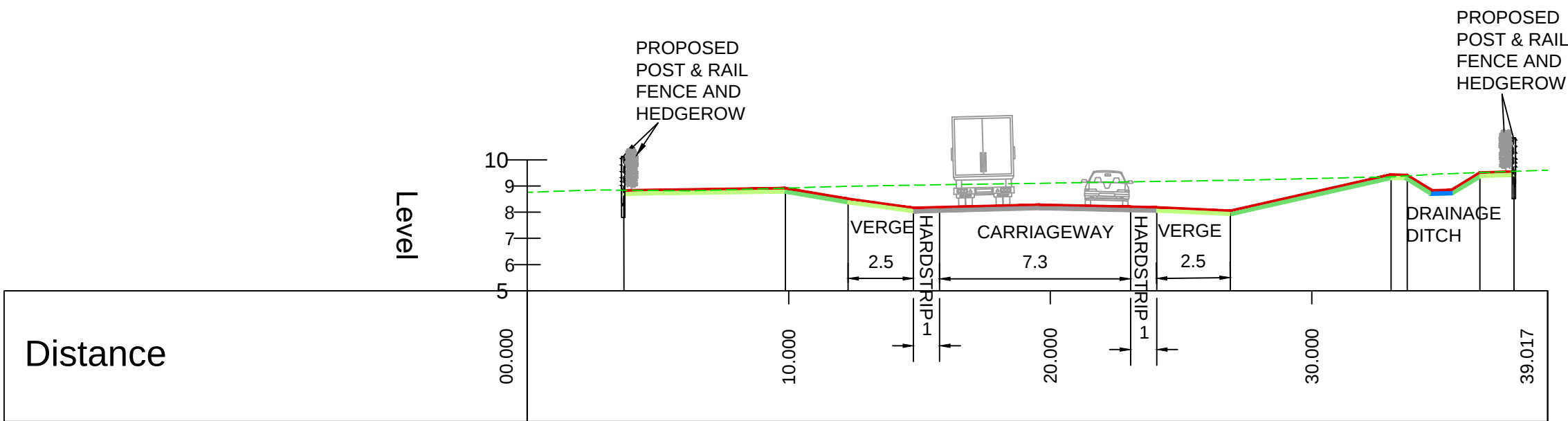
Regulation 5 (2) (o)

Security Status
NOT PROTECTIVELY MARKED

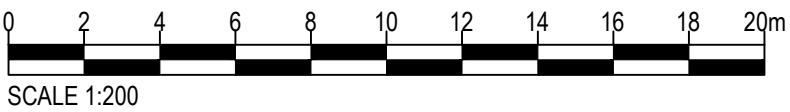
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Drawing Number	WN0902-HZDCO-OHW-DRG-00027				Rev 1.0



PROPOSED CROSS SECTION 3E-E
(SCALE 1:200)



PROPOSED CROSS SECTION 3F-F
(SCALE 1:200)



NOTES

- All levels are in metres unless otherwise stated.
- All dimensions are in metres unless otherwise stated.

LEGEND

- Proposed levels
- Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00015 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 3 - LLANACHRAETH PROPOSED GENERAL ARRANGEMENT (SHEET 3)

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

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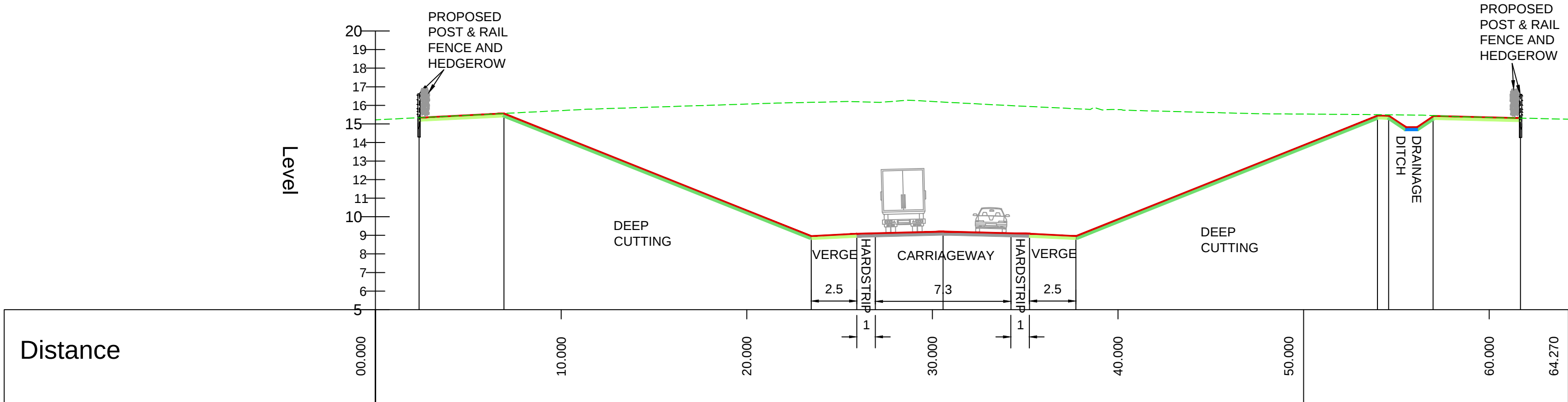
WYLFA NEWYDD
DCO PROJECT

Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED CROSS SECTION
3E-E & 3F-F

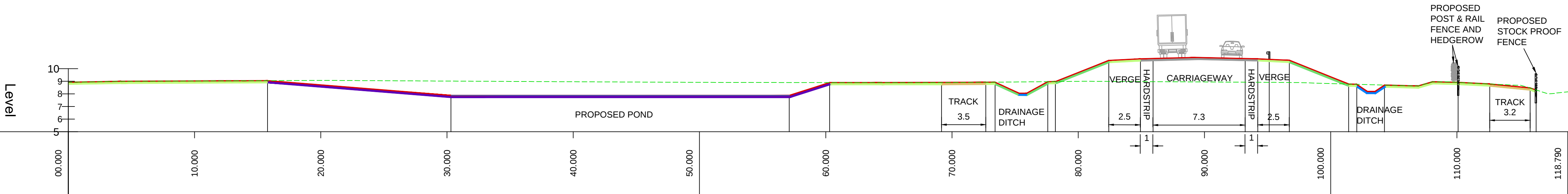
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Security Status
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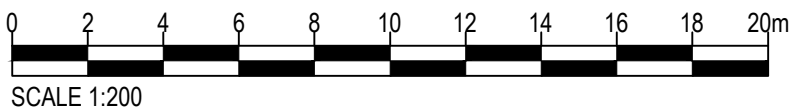
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Drawing Number	WN0902-HZDCO-OHW-DRG-00028	Rev	1.0		



PROPOSED CROSS SECTION 3G-G
(SCALE 1:200)



PROPOSED CROSS SECTION 3H-H
(SCALE 1:200)



NOTES

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

LEGEND

- Proposed levels
Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00015 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 3 - LLANACHRAETH PROPOSED GENERAL ARRANGEMENT (SHEET 3)
WN0902-H2DCO-OHW-DRG-00016 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 3 - LLANACHRAETH PROPOSED GENERAL ARRANGEMENT (SHEET 4)

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

FOR APPROVAL

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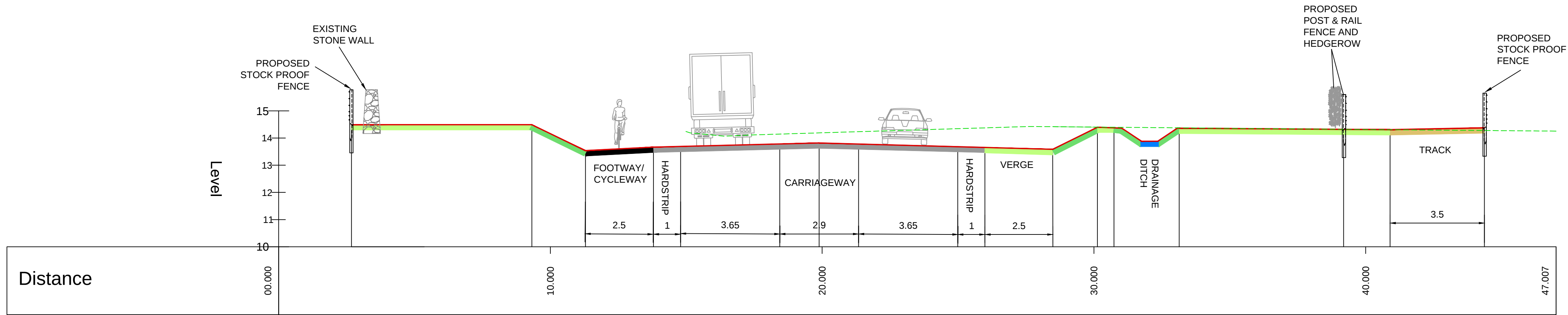
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED CROSS SECTION 3G-G & 3H-H**

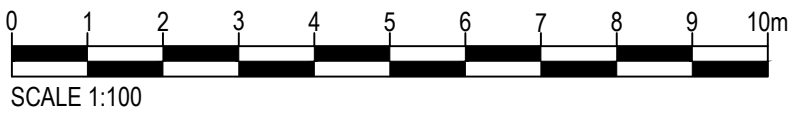
Regulation 5 (2) (o)

Security Status
NOT PROTECTIVELY MARKED

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Drawing Number	WN0902-HZDCO-OHW-DRG-00029	Rev	1.0		



PROPOSED CROSS SECTION 3I-I
(SCALE 1:100)



NOTES

- All levels are in metres unless otherwise stated.
- All dimensions are in metres unless otherwise stated.

LEGEND

- Proposed levels
- Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00016 - A5025 OFF-LINE HIGHWAYS
IMPROVEMENTS SECTION 3 - LLANACHRAETH PROPOSED
GENERAL ARRANGEMENT (SHEET 4)

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

FOR APPROVAL

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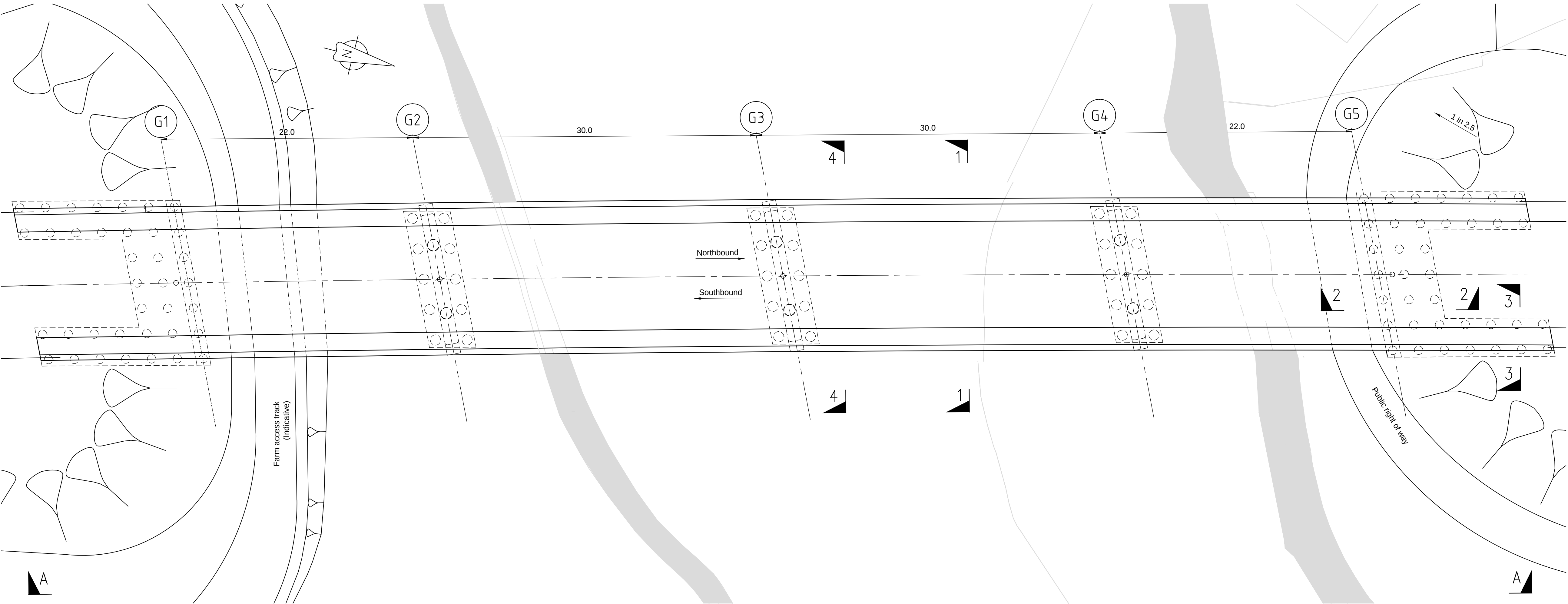
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
PROPOSED CROSS SECTION 3I-I**

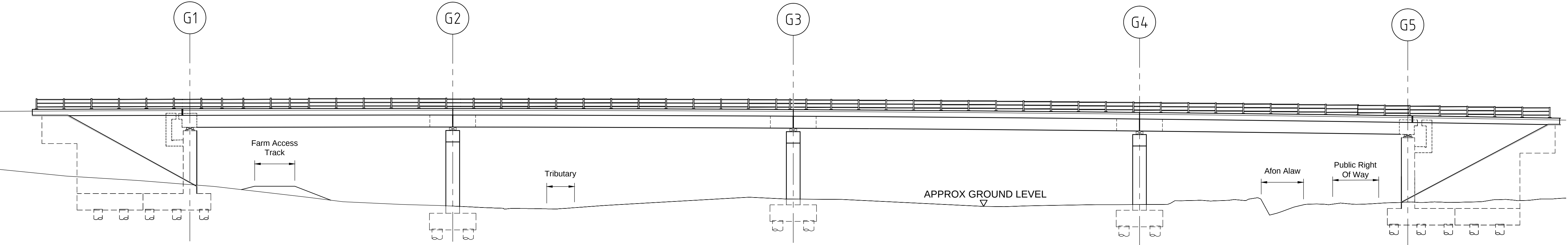
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Security Status
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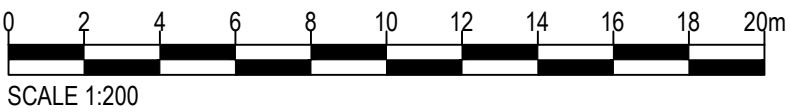
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Drawing Number	WN0902-HZDCO-OHW-DRG-00030	Rev	1.0		



PLAN -Viaduct
(1:200)



ELEVATION A-A
(1:200)



NOTES

1. All dimensions are in metres unless otherwise stated.
2. Concrete strength class:
Precast beams C50/60
Deck slabs C40/50
Abutments & piers C40/50
Piles C32/40
3. Notation:-
Class of formed concrete finish is indicated thus

F1 For class F1

Class of unformed concrete finish is indicated thus

U1 For class U1

REFERENCE DRAWINGS

1. For Sheet 2 refer to document WN0902-HZDCO-OHW-DRG-00032.

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

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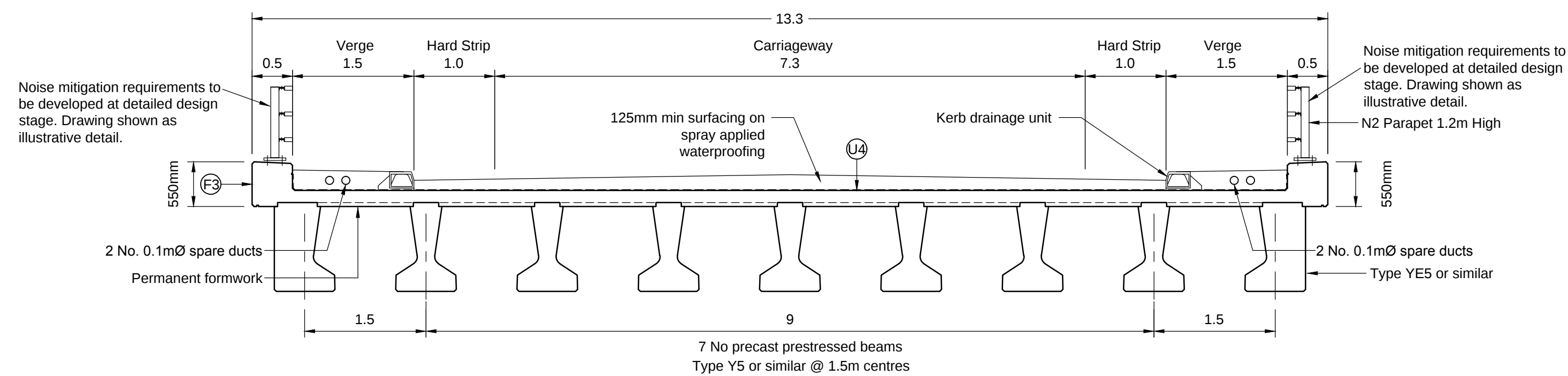
Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK
Freephone: 0845 300 6816 Email: info@horizonnuclearpower.com

Project
**WYLFA NEWYDD
DCO PROJECT**

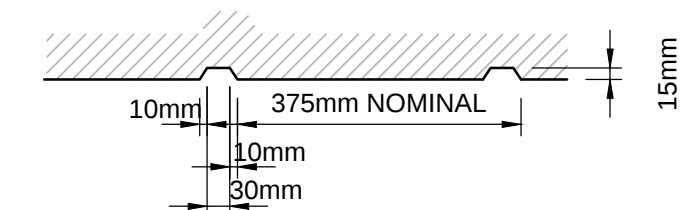
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**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
LLANFACHRAETH VIADUCT
GENERAL ARRANGEMENT - SHEET 1
Regulation 5 (2) (o)**

Security Status
NOT PROTECTIVELY MARKED

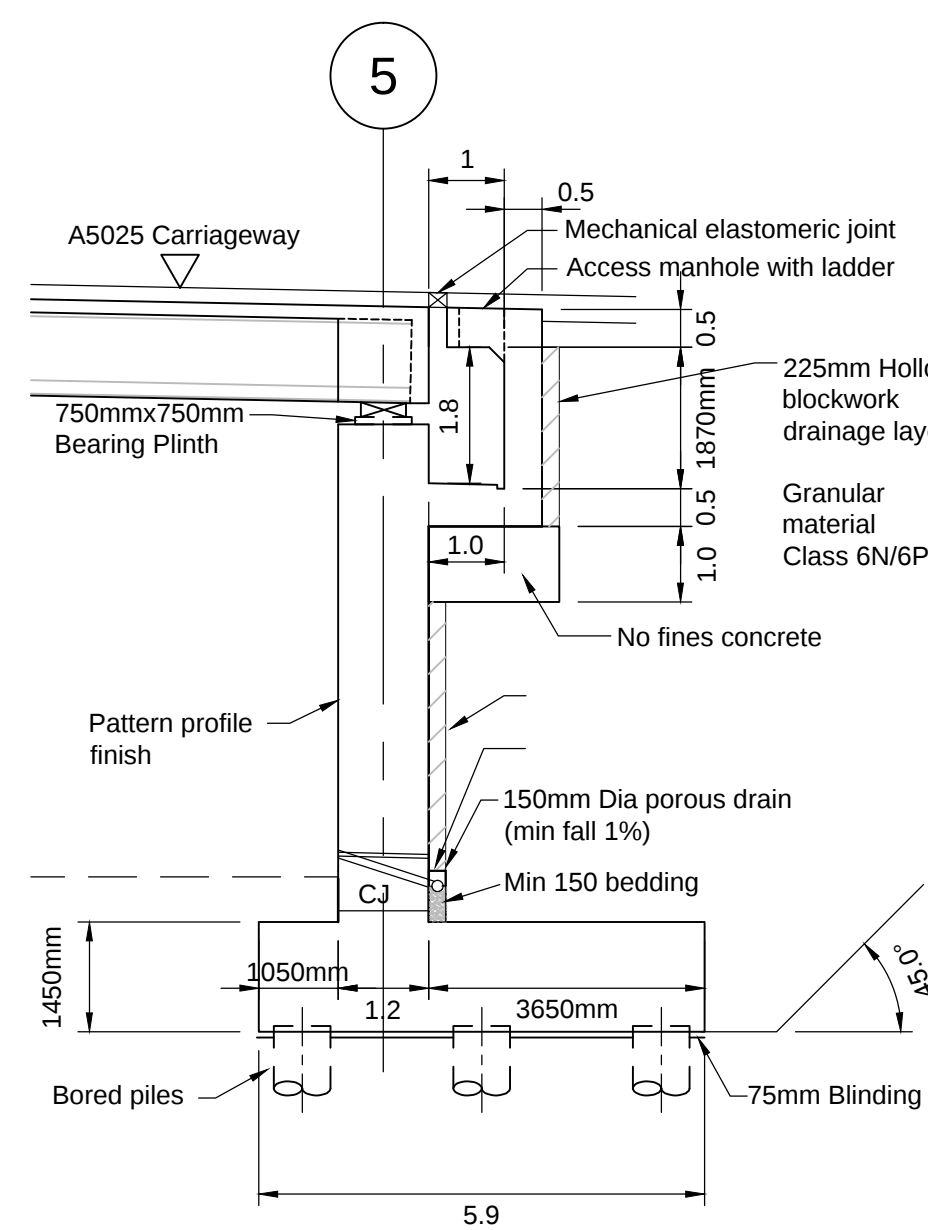
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Drawing Number	WN0902-HZDCO-OHW-DRG-00031				Rev 1.0



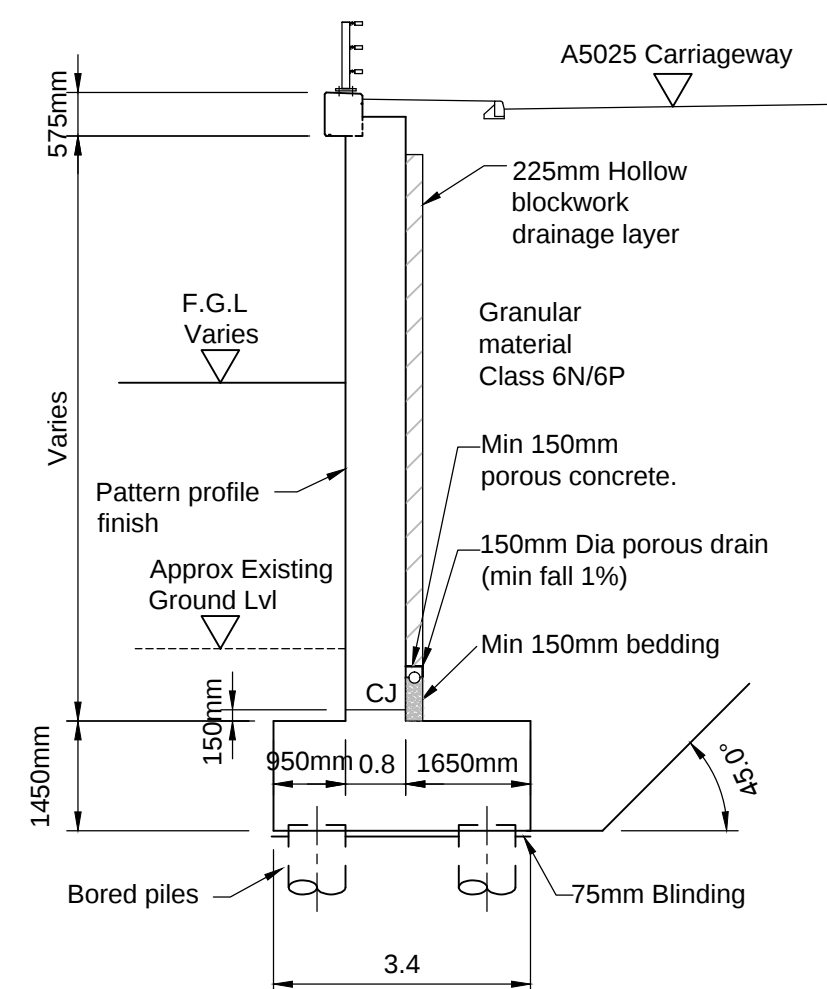
SECTION 1-1
(1:50)



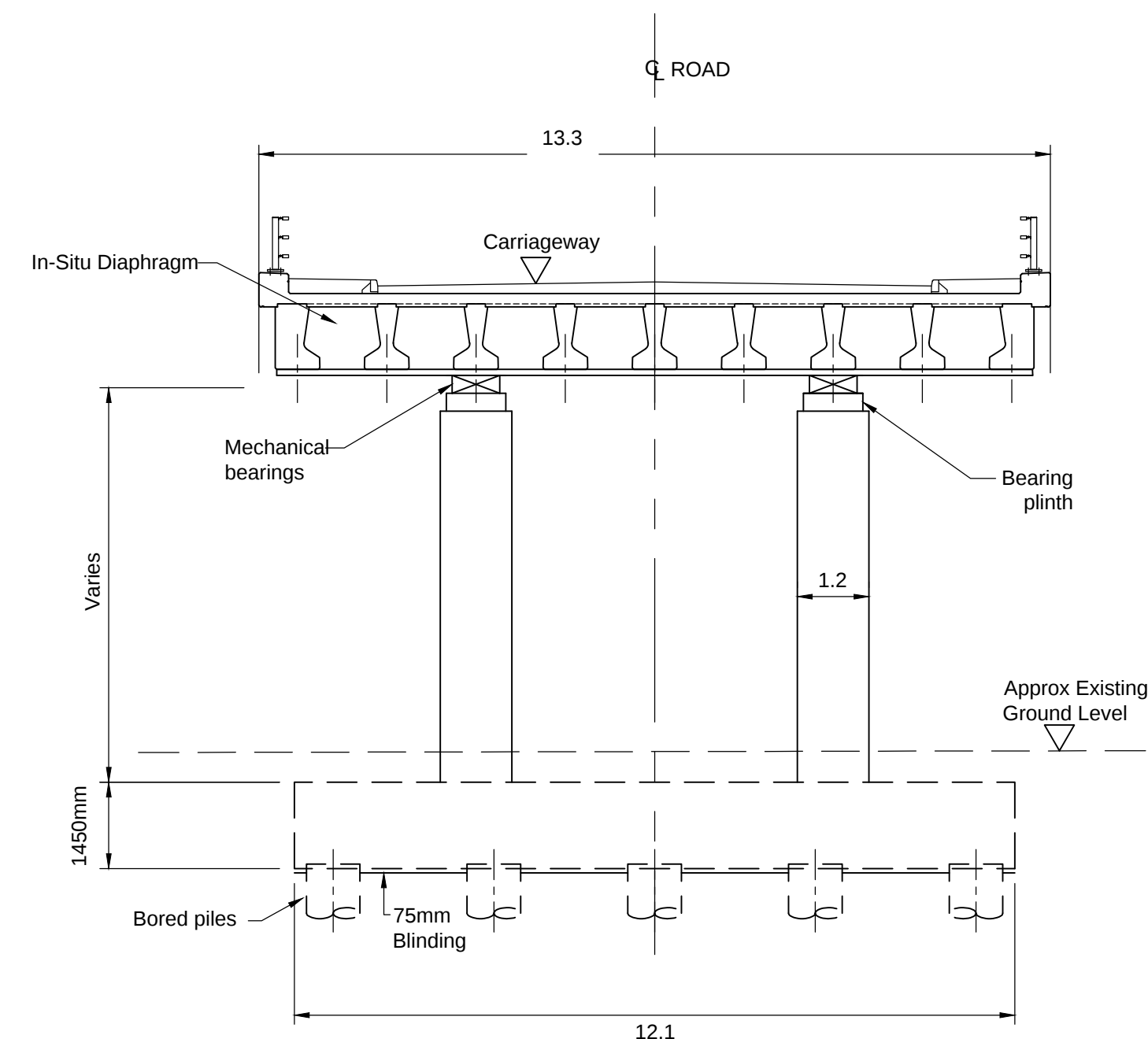
PATTERNED PROFILE FINISH DETAIL



SECTION 2-2
(1:100)



SECTION 3-3
(1:100)



SECTION 4-4
(1:100)

NOTES	
1.	All dimensions are in metres unless otherwise stated.
2.	Concrete strength class:
Precast beams	C50/60
Deck slab	C40/50
Abutments & piers	C40/50
Piles	C32/40
3.	Notation:-
	Class of formed concrete finish is indicated thus
	For class F1
	Class of unformed concrete finish is indicated thus
	For class U1

REFERENCE DRAWINGS
1. For Sheet 1 refer to document WN0902-HZDCO-OHW-DRG-00031.

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

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Project	WYLFA NEWYDD DCO PROJECT
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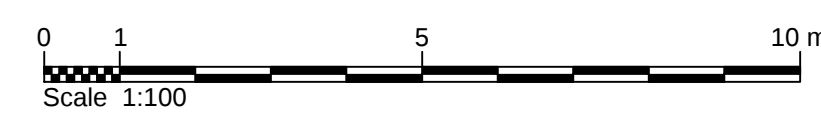
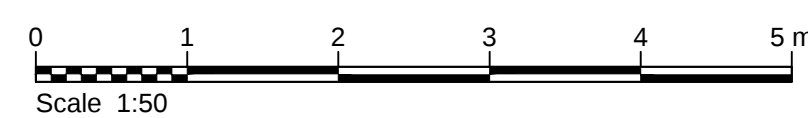
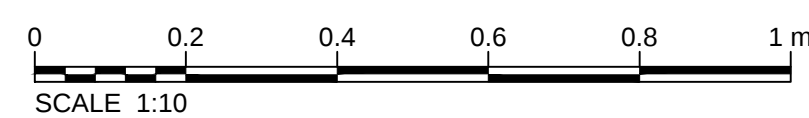
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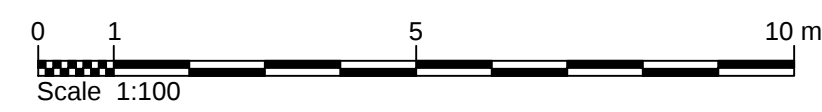
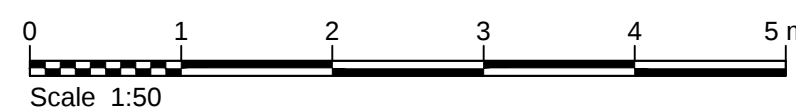
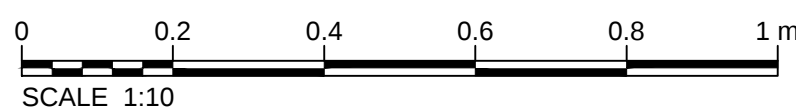
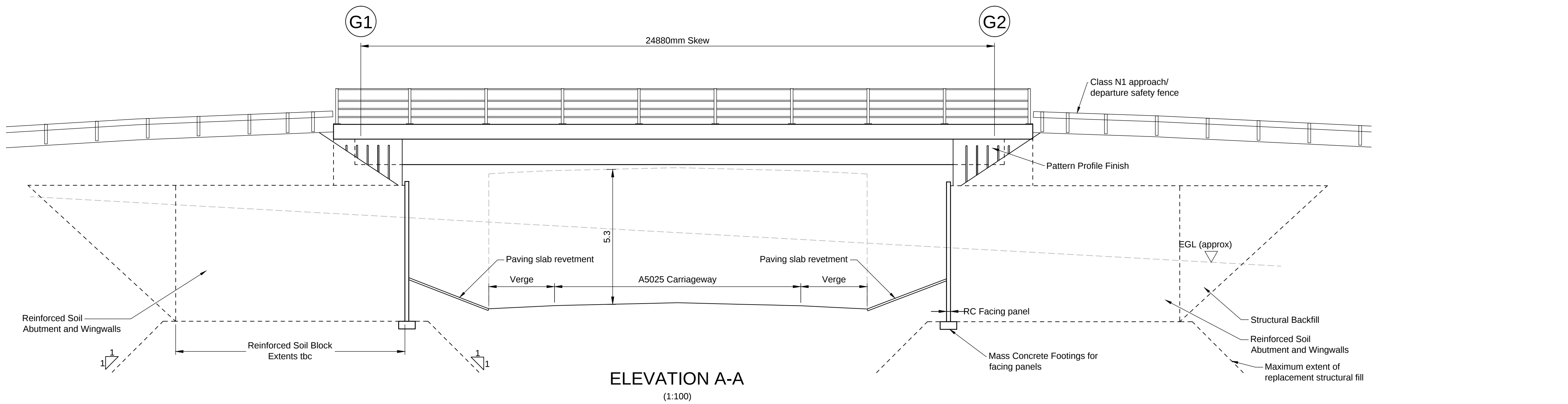
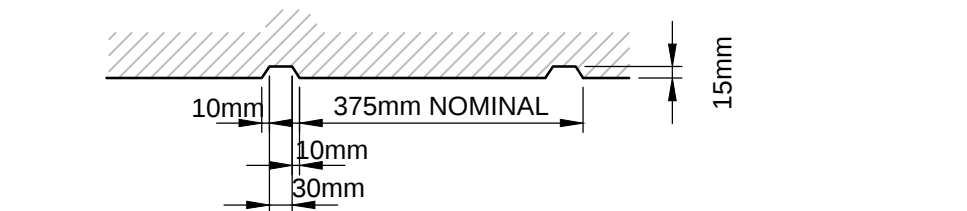
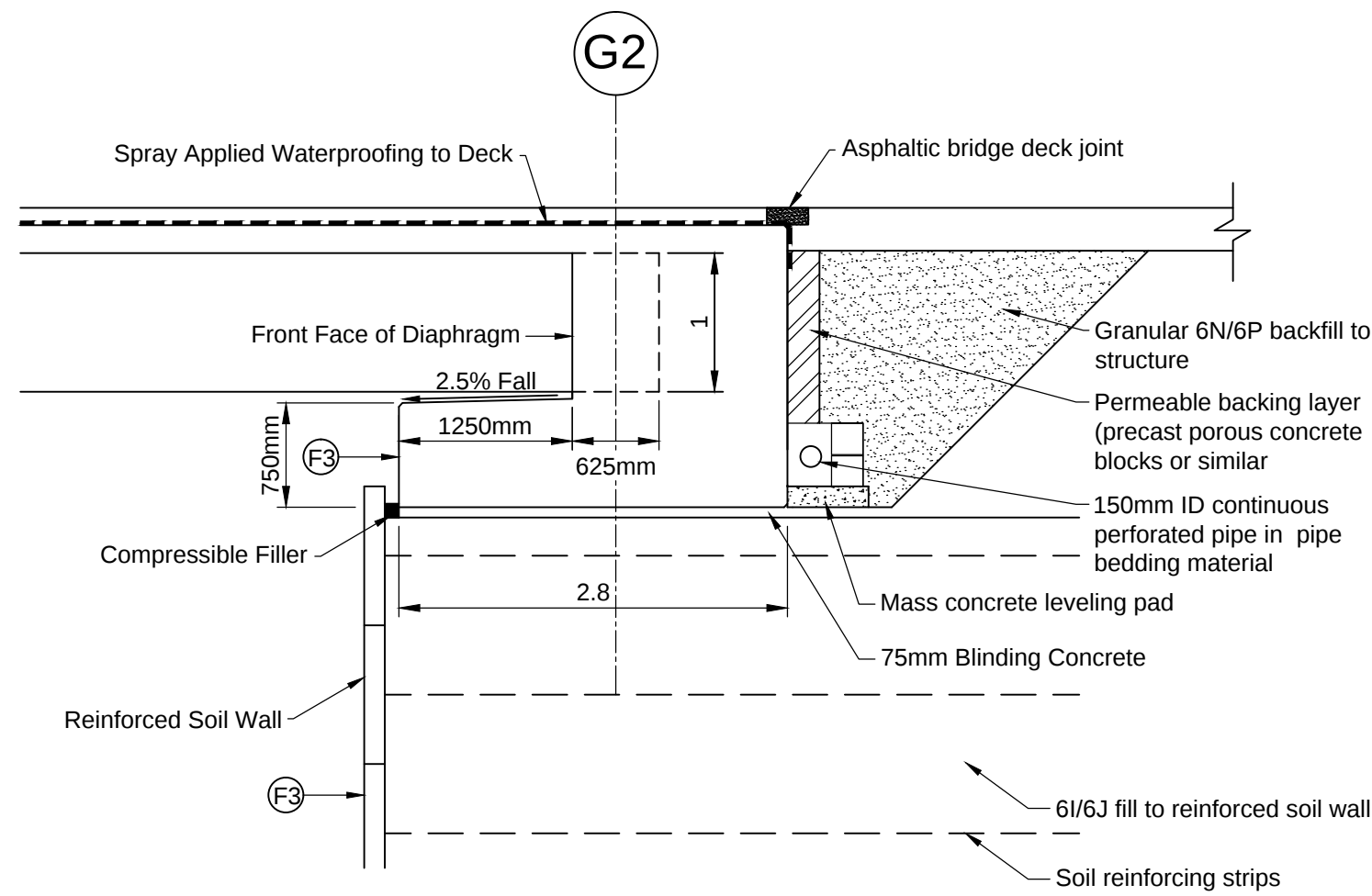
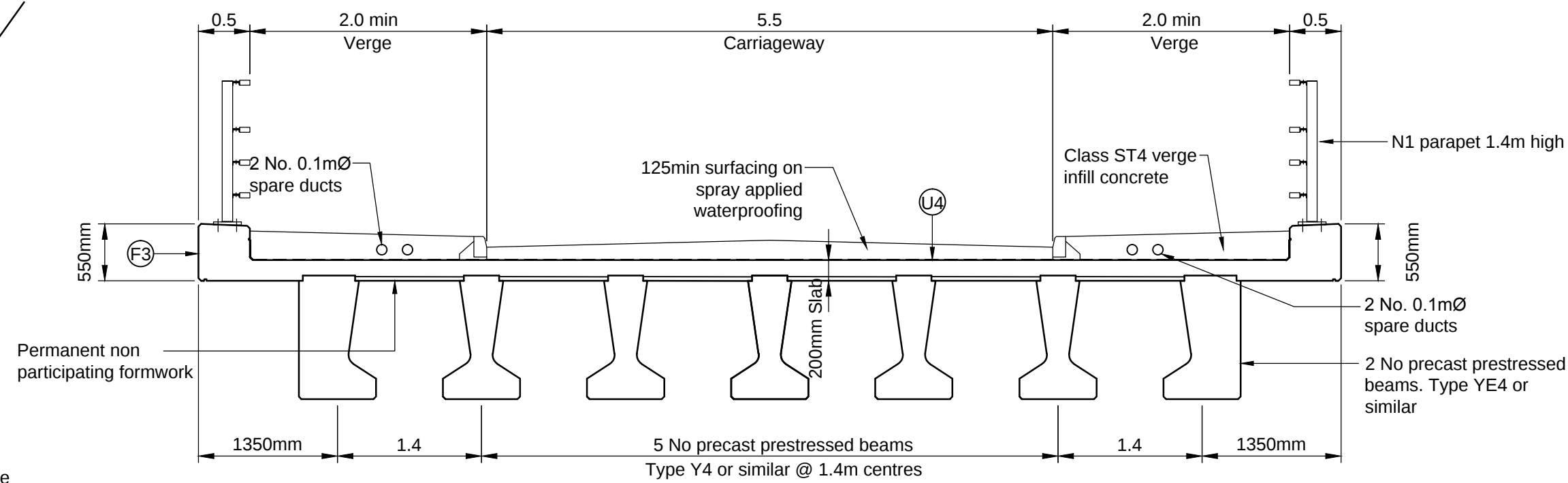
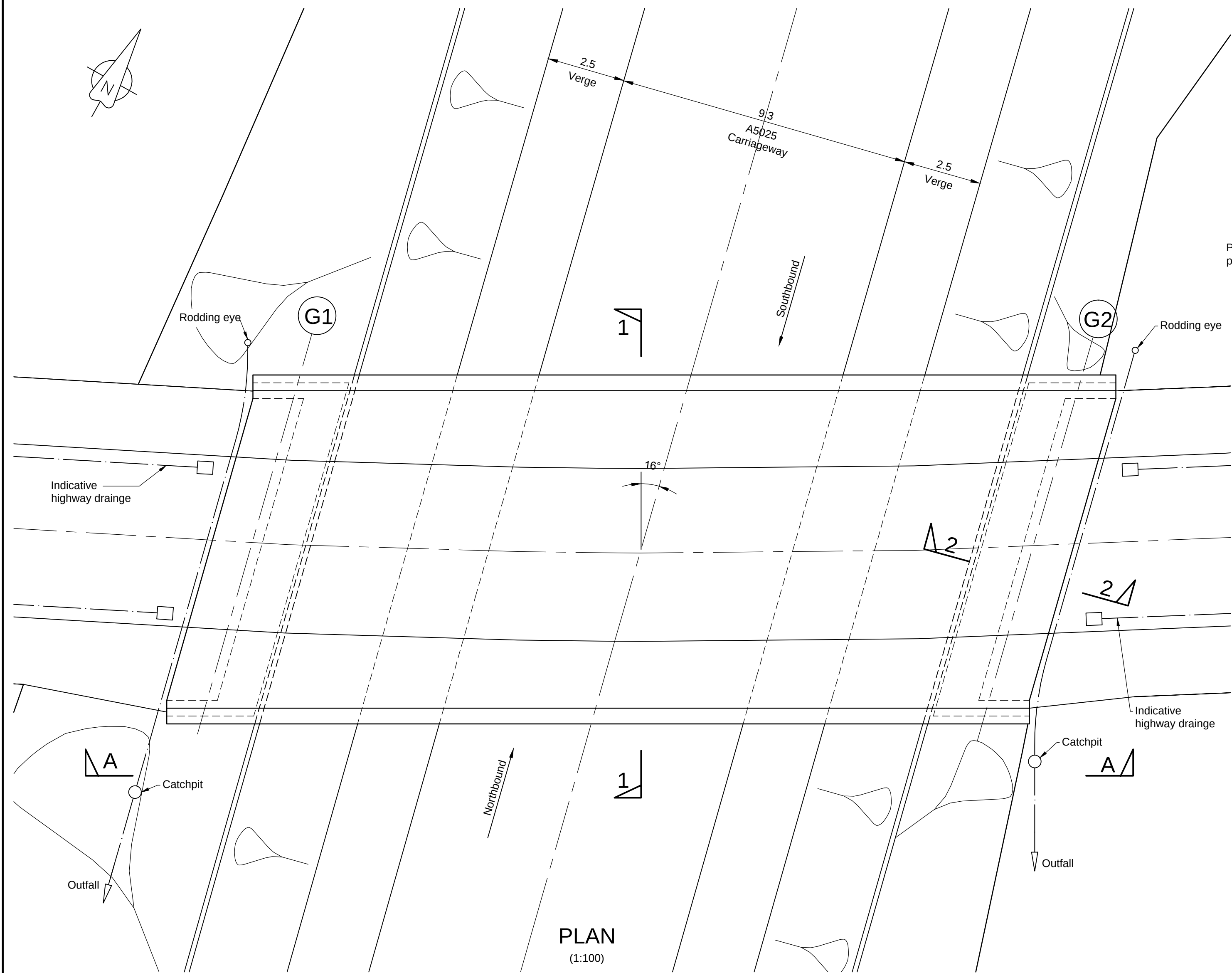
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
LLANFACHRAETH VIADUCT
GENERAL ARRANGEMENT - SHEET 2

Regulation 5 (2) (o)

Security Status	NOT PROTECTIVELY MARKED
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Scale	AS SHOWN	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number WN0902-HZDCO-OHW-DRG-00032					Rev 1.0





NOTES

- All dimensions are in metres unless otherwise stated.
- Concrete strength class:
 - Precast beams C50/60
 - Deck slab C40/50
 - Abutments & piers C40/50
 - Piles C32/40
- Notation:-
 - Class of formed concrete finish is indicated thus
 - F1 For class F1
 - Class of unformed concrete finish is indicated thus
 - U1 For class U1

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

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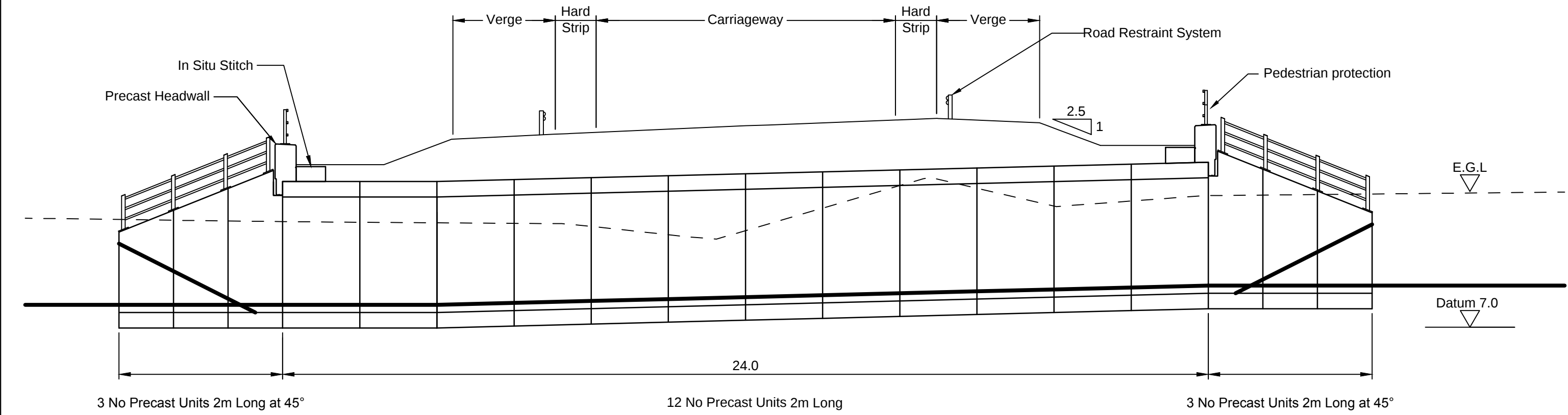
Project
WYLFA NEWYDD
DCO PROJECT

Drawing Title
A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
LLANFACHRAETH OVERBRIDGE
GENERAL ARRANGEMENT

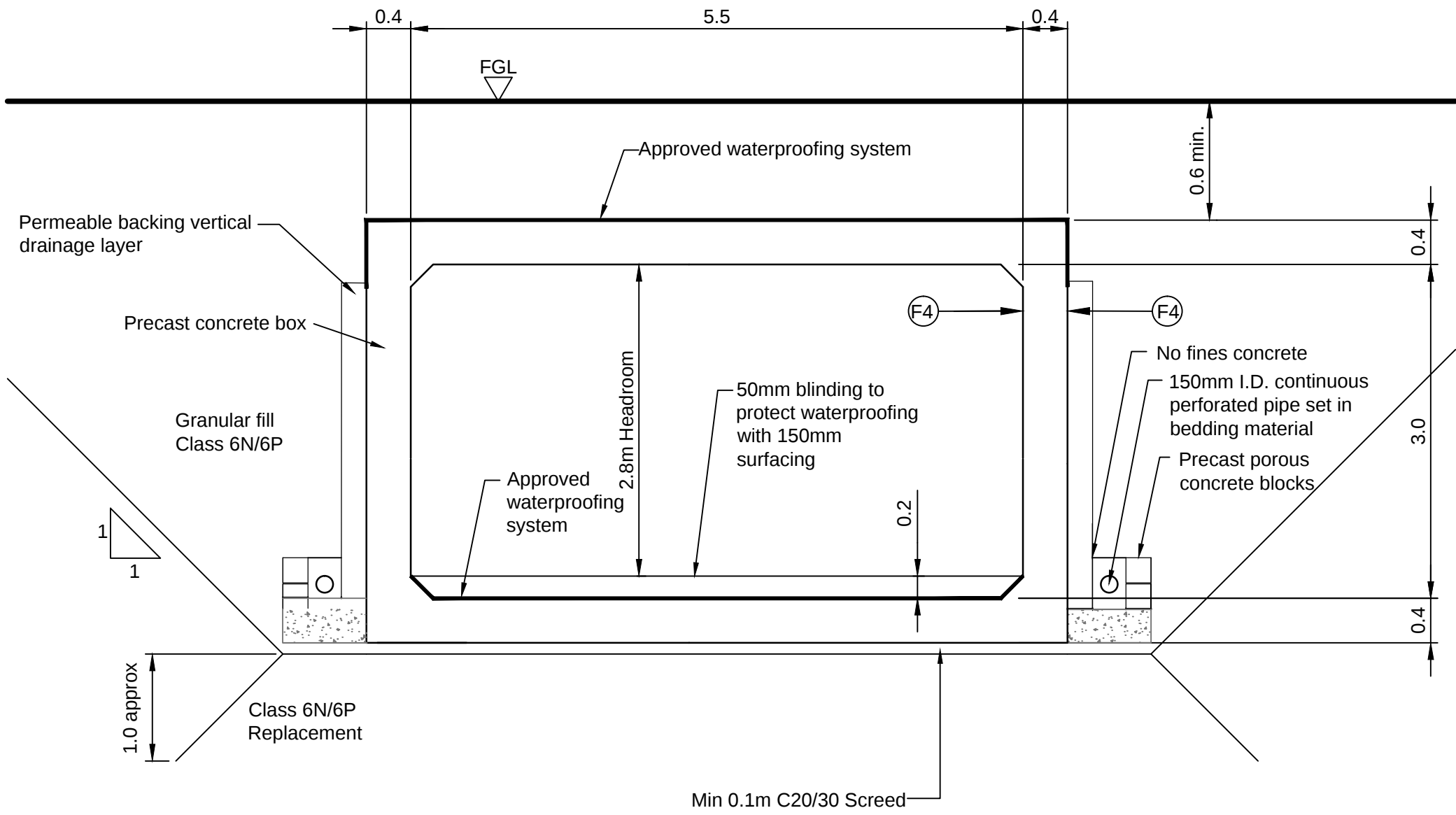
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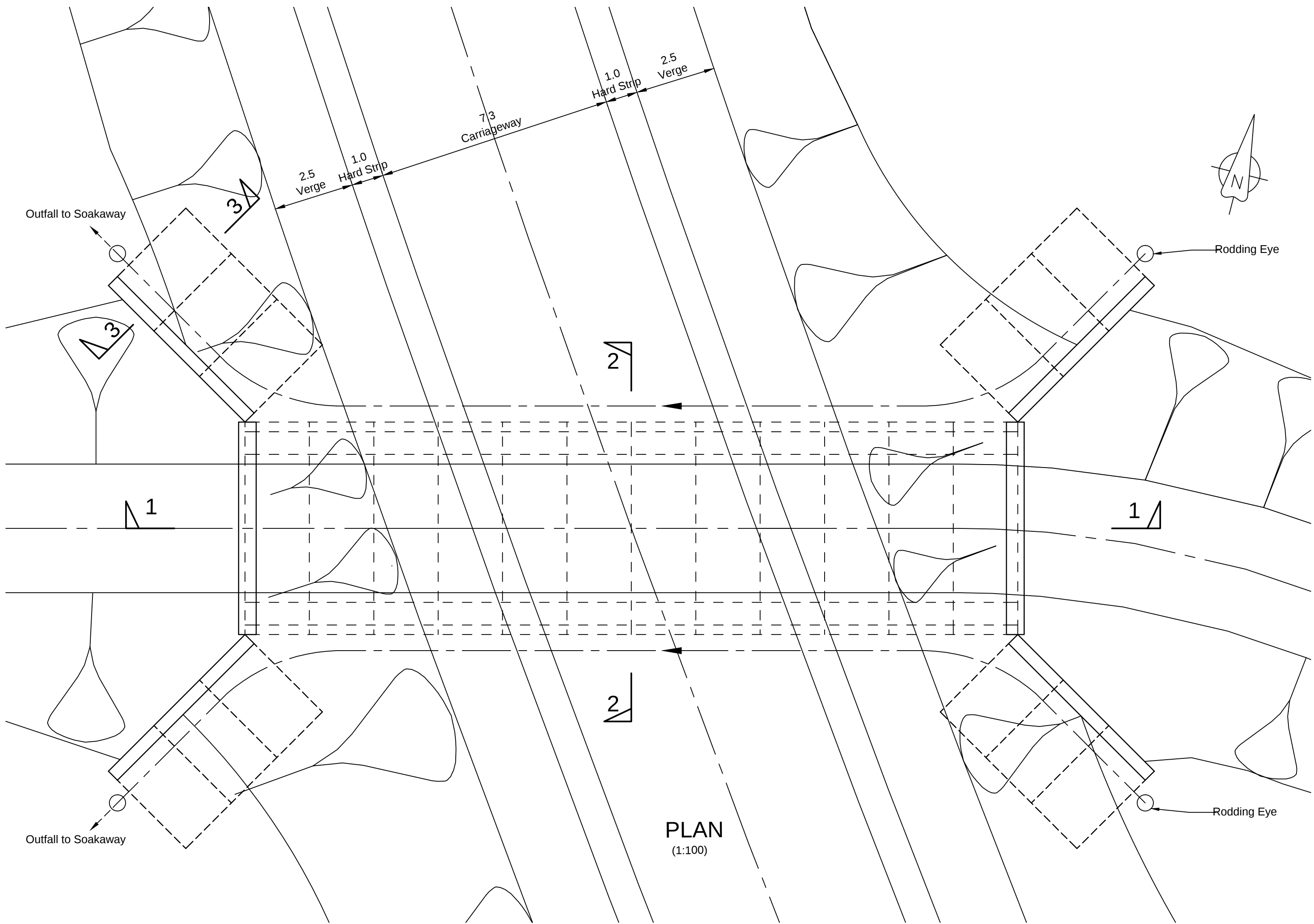
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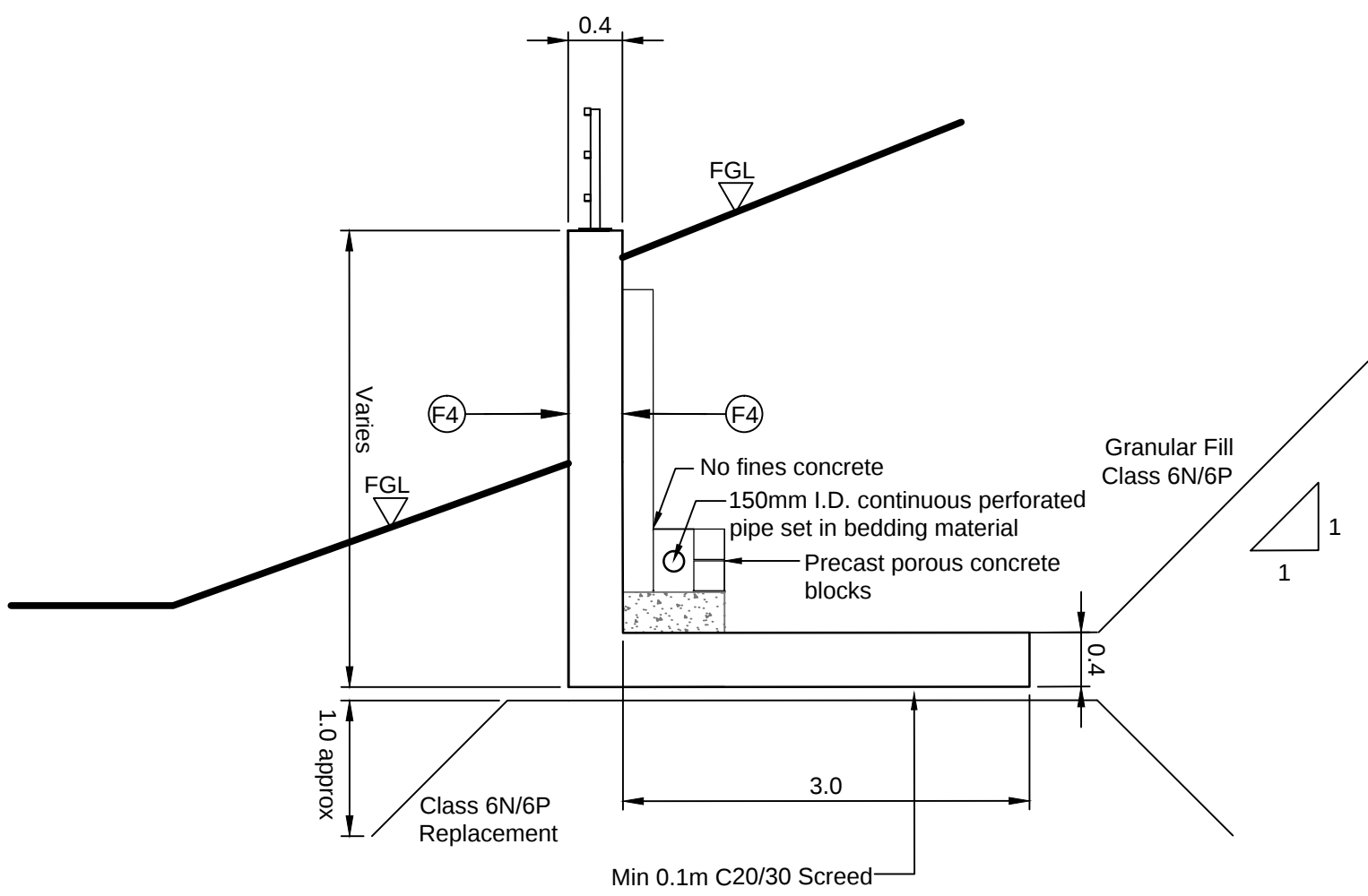
SECTION 1-1
(1:100)



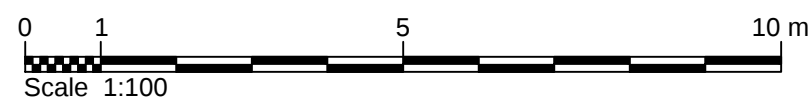
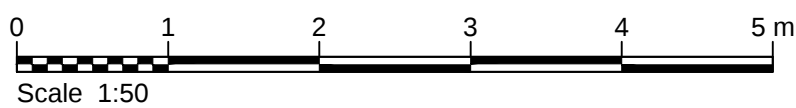
SECTION 2-2
(1:50)



PLAN
(1:100)



SECTION 3-3
(1:50)



NOTES

1. All levels in metres unless stated otherwise.
2. All dimensions in metres unless stated otherwise.
3. All chainages and coordinates are in metres unless otherwise stated.
4. Concrete strength class:
Precast box and wing walls C50/60
5. Notation:-
Class of formed concrete finish is indicated thus
(F4) for class F4

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

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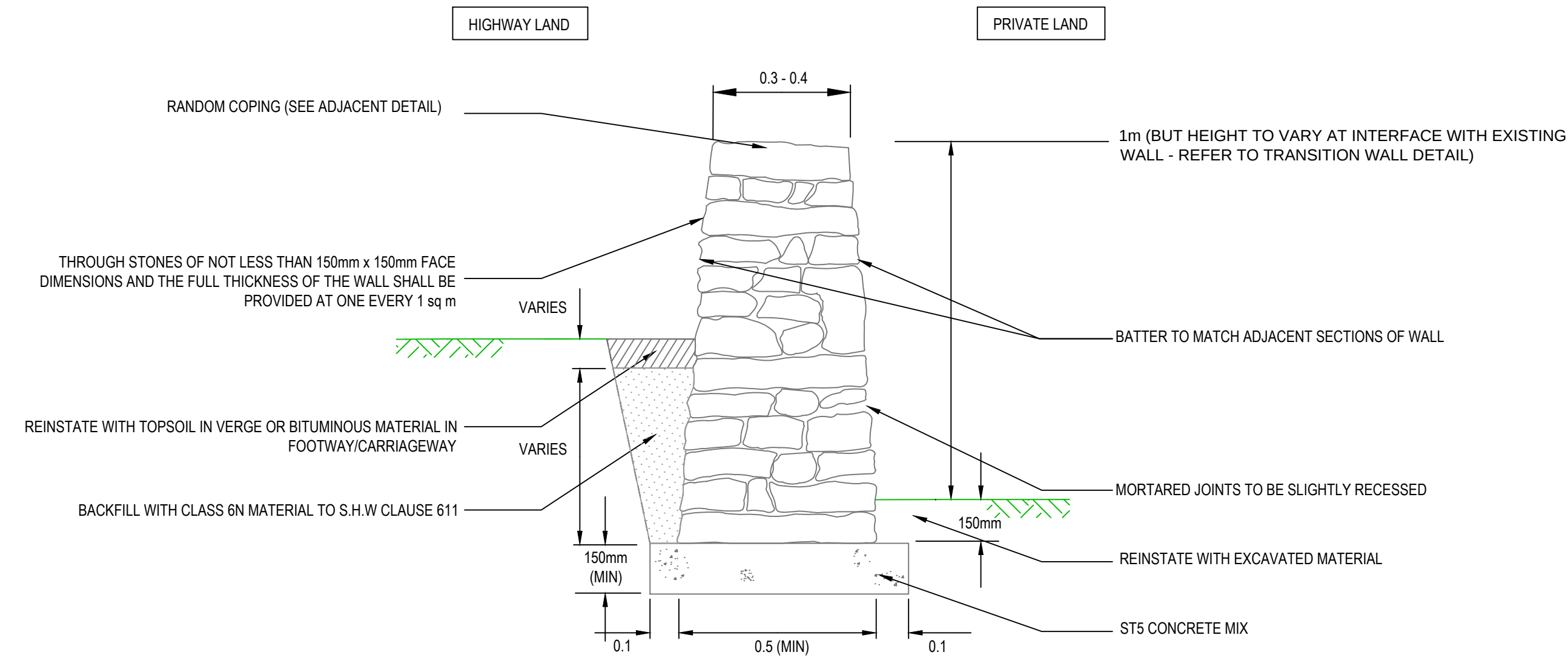
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 3 - LLANFACHRAETH
LLANFACHRAETH UNDERPASS
GENERAL ARRANGEMENT**

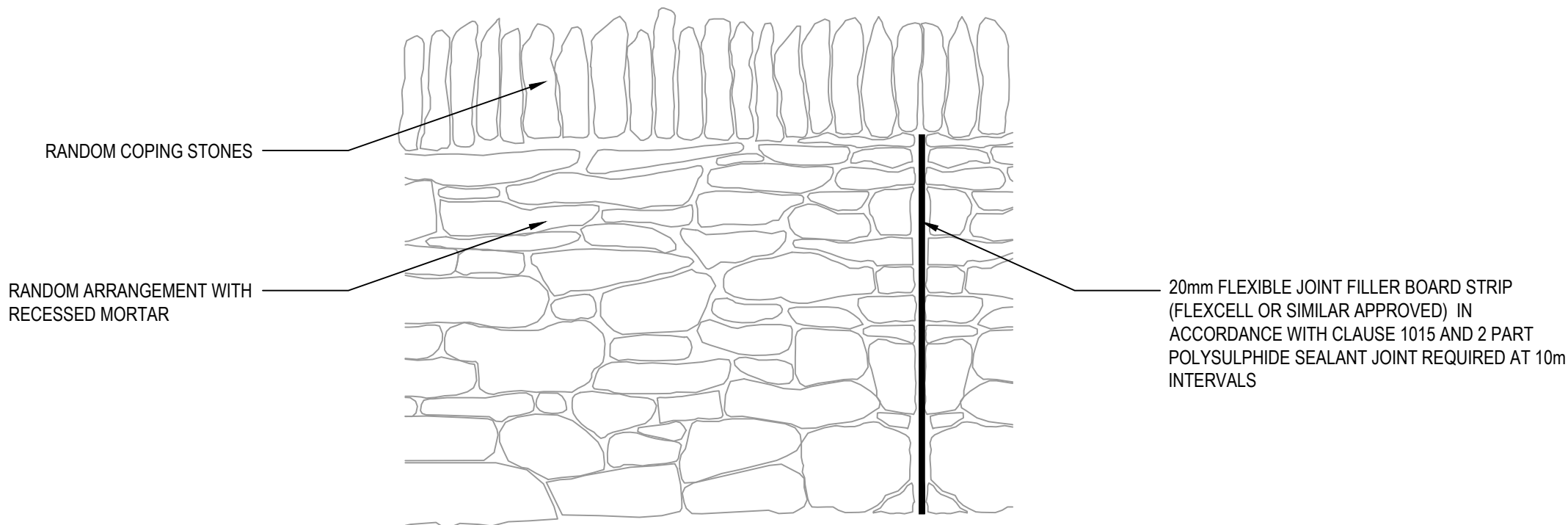
Regulation 5 (2) (o)

Security Status NOT PROTECTIVELY MARKED					
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Drawing Number	WN0902-HZDCO-OHW-DRG-00034				Rev 1.0

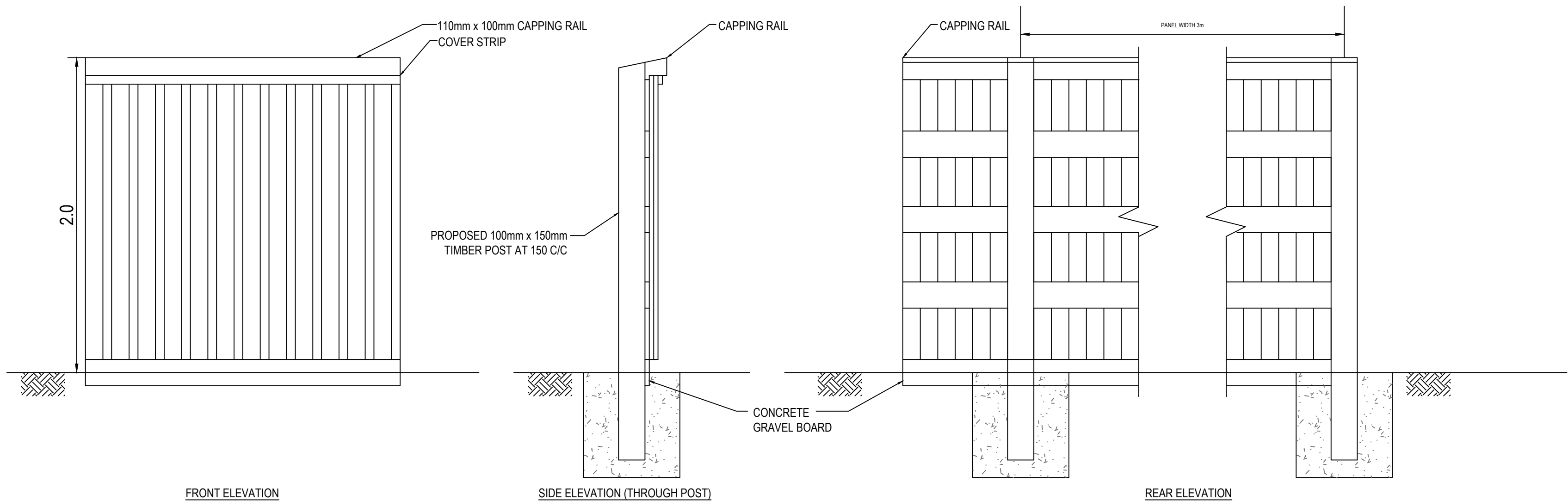
1. All dimensions in metres unless stated otherwise.
2. Only written dimensions are to be used.
3. All timber post & rail fences and timber post & wire fences to have 2 barbed wire strands.
4. For details of timber post & wire fences refer to DMRB MCHW standard detail H1.
4. For details of timber post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



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



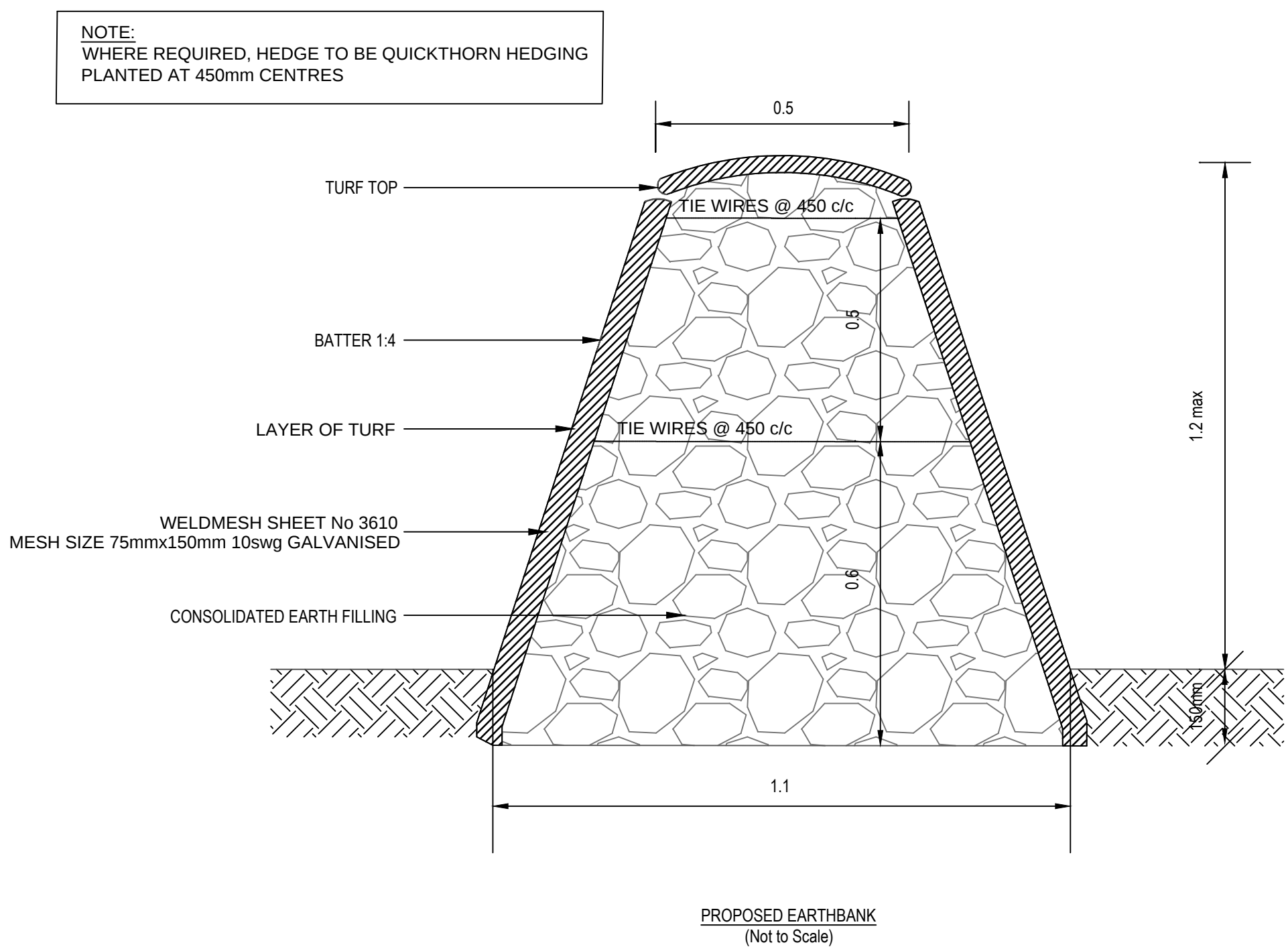
PROPOSED MORTARED STONE WALL (ELEVATION) (Not to Scale)



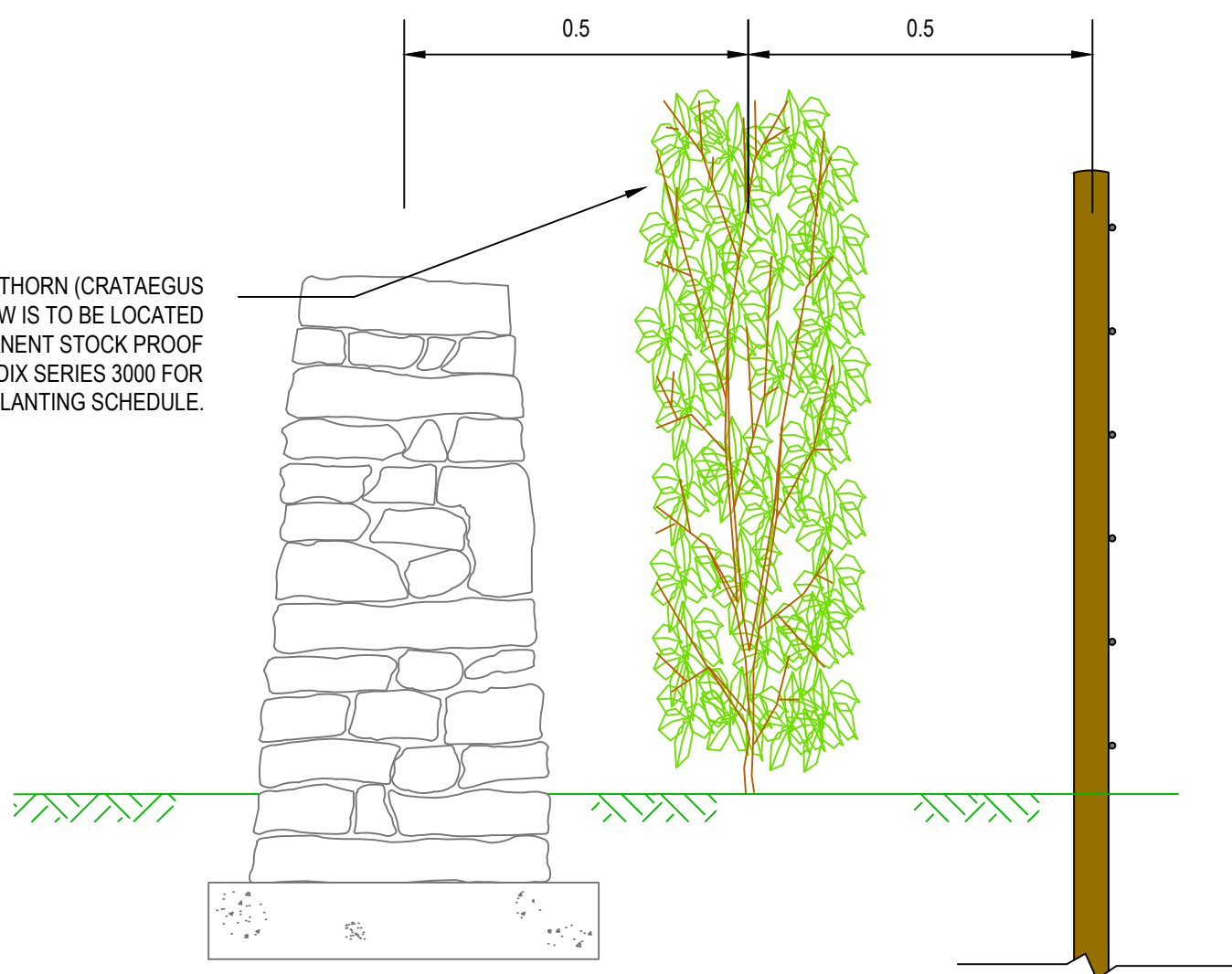
PROPOSED 2.0m NOISEWALL SINGLE SIDED REFLECTIVE TIMBER SOUND SCREEN (Not to Scale)

HIGHWAY LAND

PRIVATE LAND



HEDGEROW TO BE SINGLE SPECIES HAWTHORN (CRATAEGUS MONOGYNA). WHEN REQUIRED THE HEDGEROW IS TO BE LOCATED BETWEEN THE ADJACENT NEW WALL AND PERMANENT STOCK PROOF FENCE. REFER TO SPECIFICATION APPENDIX SERIES 3000 FOR PLANTING SCHEDULE.



FEATURE (Not to Scale)

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

ILLUSTRATIVE

HORIZON
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Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
STANDARD DETAILS
BOUNDARY DETAILS**

Regulation 5 (2) (o)

Security Status					
NOT PROTECTIVELY MARKED					
Scale	Not to Scale	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00068					1.0

NOTES

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 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:

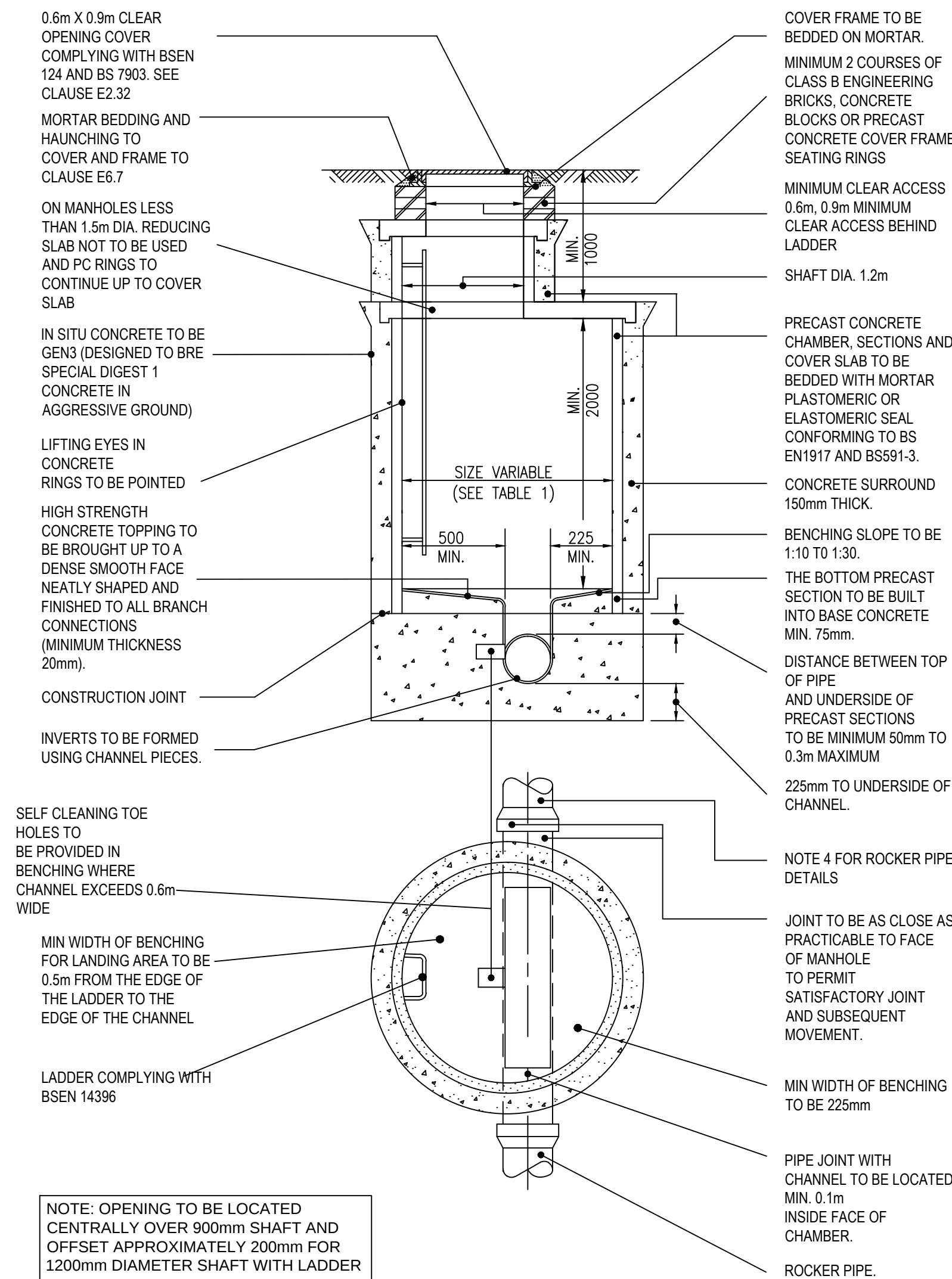
Table 1 rocker pipe lengths

Pipe diameter (mm)	Length (m)
DN150 - DN600	0.6
DN675 - DN750	1.0
DN825 +	1.25

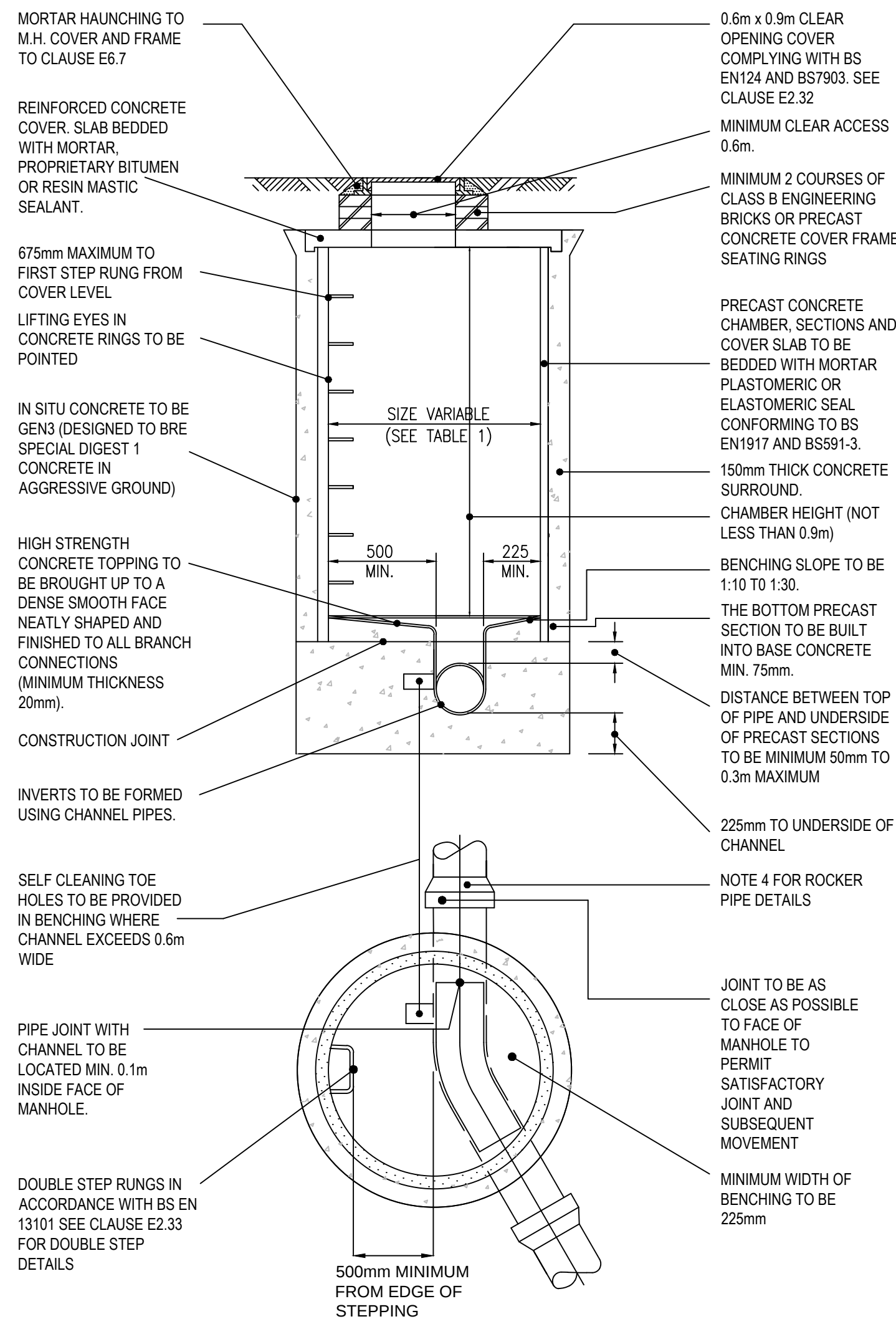
6. Only written dimensions are to be used.
7. Concrete benching and pipe surround shall be placed in single continuous operation from top of base slab.
8. Surface water connections shall be constructed with soffits level unless shown otherwise.
9. Cut ends of reinforced concrete pipes shall be treated with epoxy resin paint/mortar.
10. Manholes are to be to 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



TYPICAL MANHOLE DETAIL - TYPE 1A
(DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m - 6.0m)
(Not to Scale)



TYPICAL MANHOLE DETAIL - TYPE 2
(MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3m)
(Not to Scale)

1.0	MARCH 2018	FOR DCO SUBMISSION	HNPWL	HNPWL	HNPWL
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FOR INFORMATION

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Project	WYLFA NEWYDD DCO PROJECT
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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
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Drawing Number	Rev
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