

Wylfa Newydd Project

Volume 2: Plans, Sections and Drawings (Part 13/19)

2.10 A5025 Off-line Highway Improvements – Section 7

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Application Reference Number: 2.10

June 2018

Revision 1.0

Regulation Number: 5(2)(o)

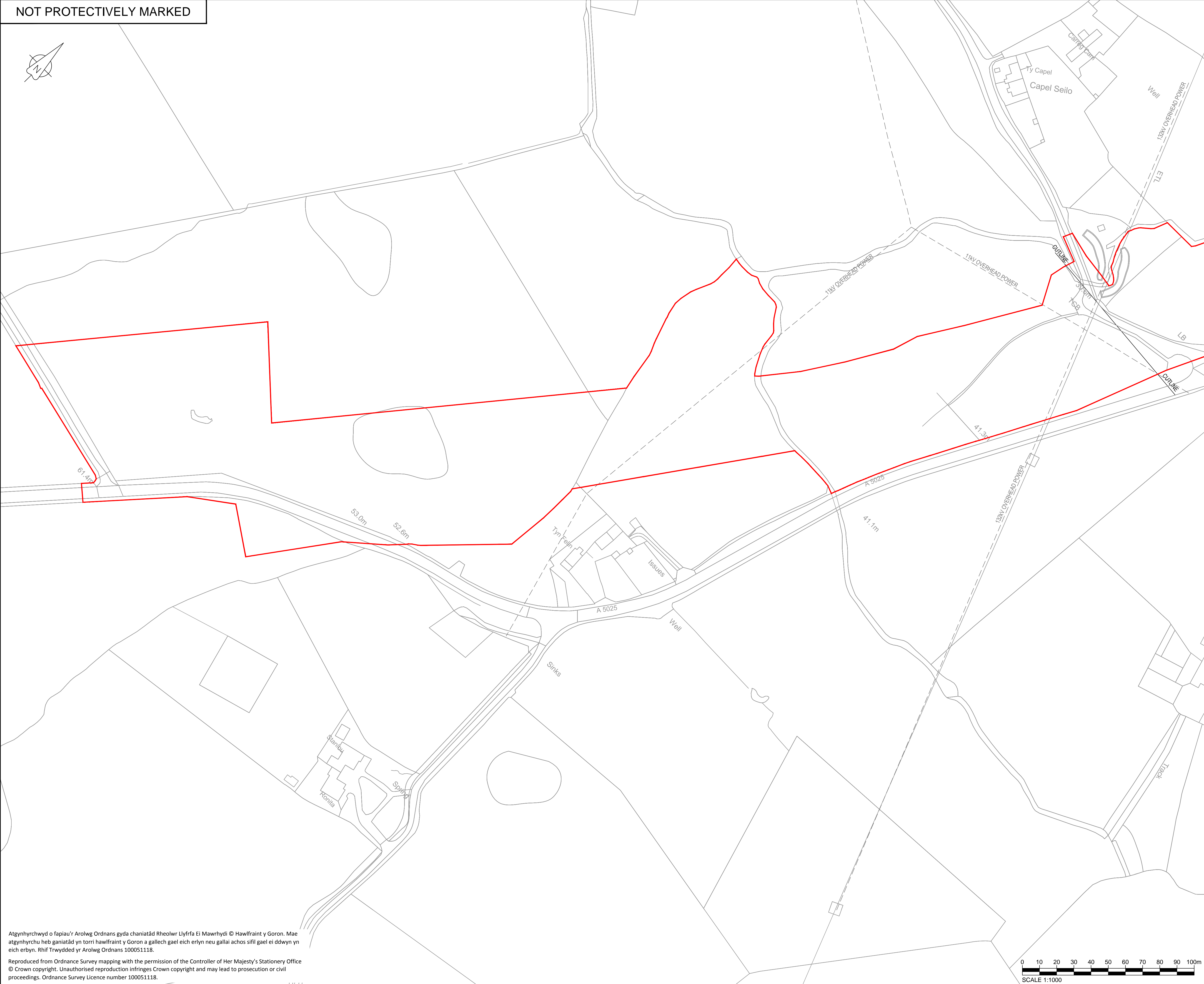
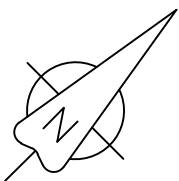
Planning Act 2008

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

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NOTES

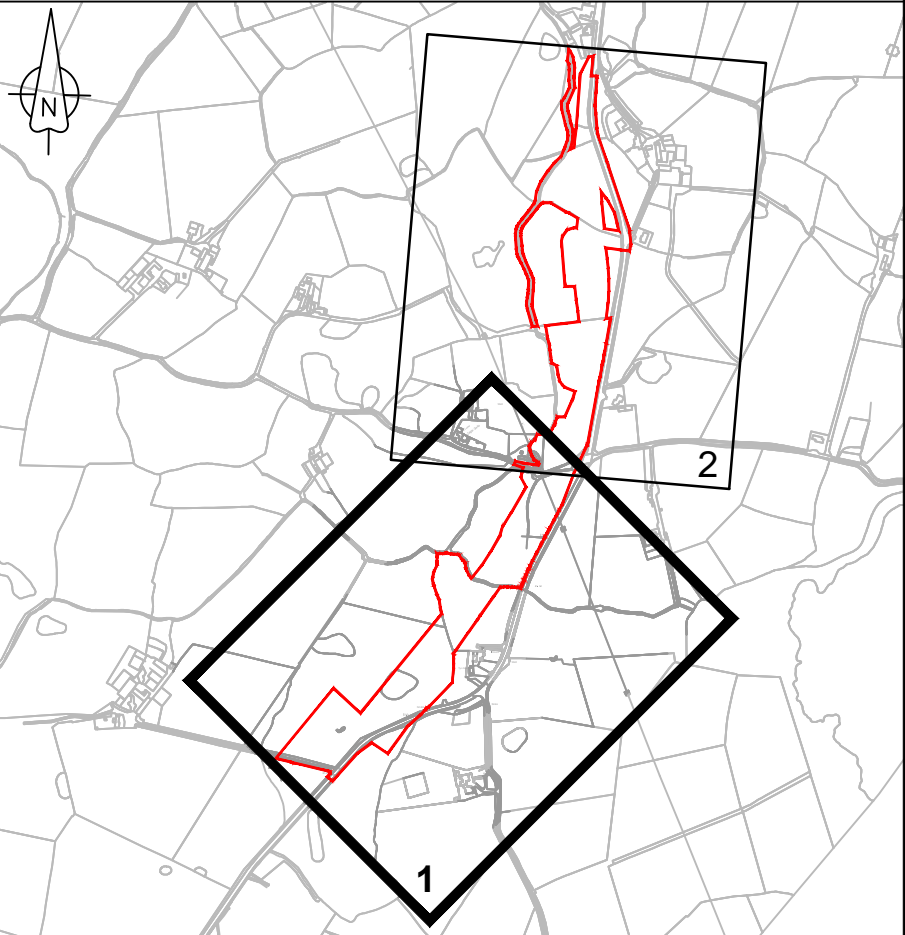
1. Existing ground levels based on topographical survey information from surveys undertaken.

LEGEND

- Order Limits
--- Existing overhead services

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00048 - SHEET 2



KEY PLAN
(NOT TO SCALE)

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

FOR INFORMATION



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WYLFA NEWYDD
DCO PROJECT

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
EXISTING SITE PLAN
SHEET 1**

Regulation 5 (2) (o)

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Scale	1:1000	Sheet Size	A1	Sheet(s)	1 of 1
Drawing Number	WN0902-HZDCO-OHW-DRG-00047	Rev	1.0		

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NOTES

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

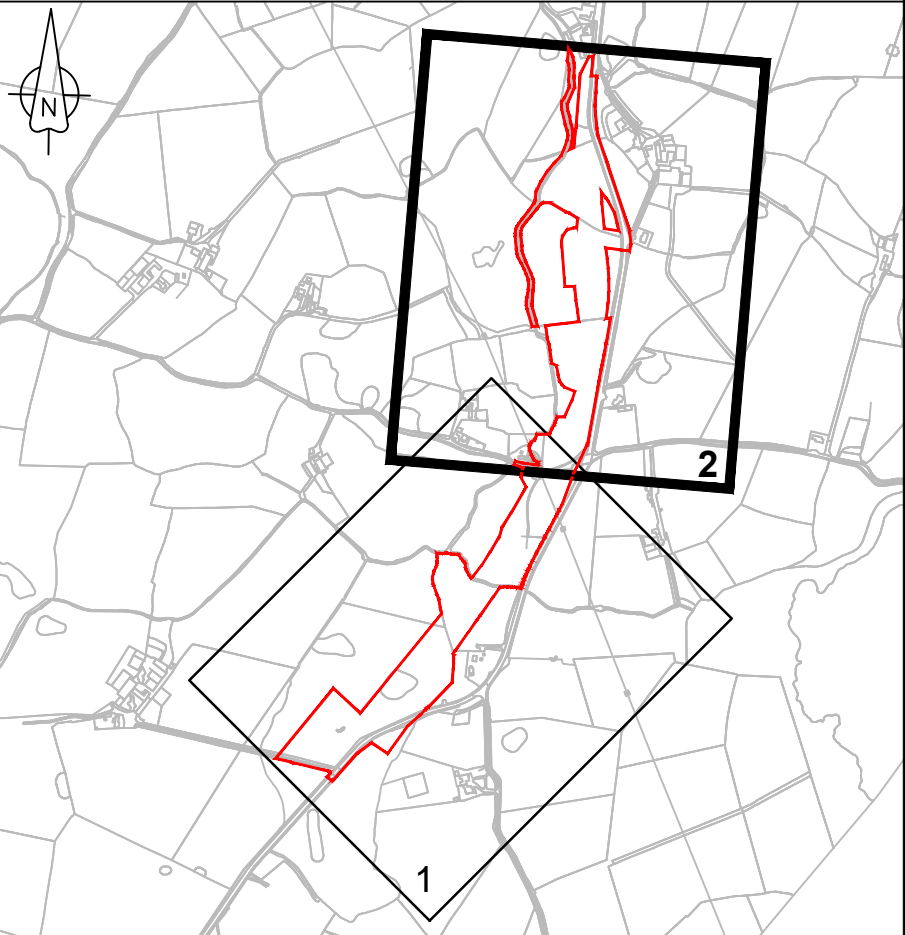
LEGEND

— — — Existing overhead services

— — — Order Limits

REFERENCE DRAWINGS

1. WN0902-HZDCO-OHW-DRG-00047 - SHEET 1



KEY PLAN
(NOT TO SCALE)

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 7 - CEFN COCH
EXISTING SITE PLAN

SHEET 2
Regulation 5 (2) (o)

Security Status

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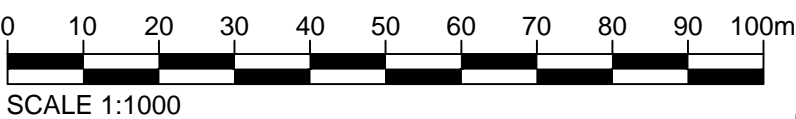
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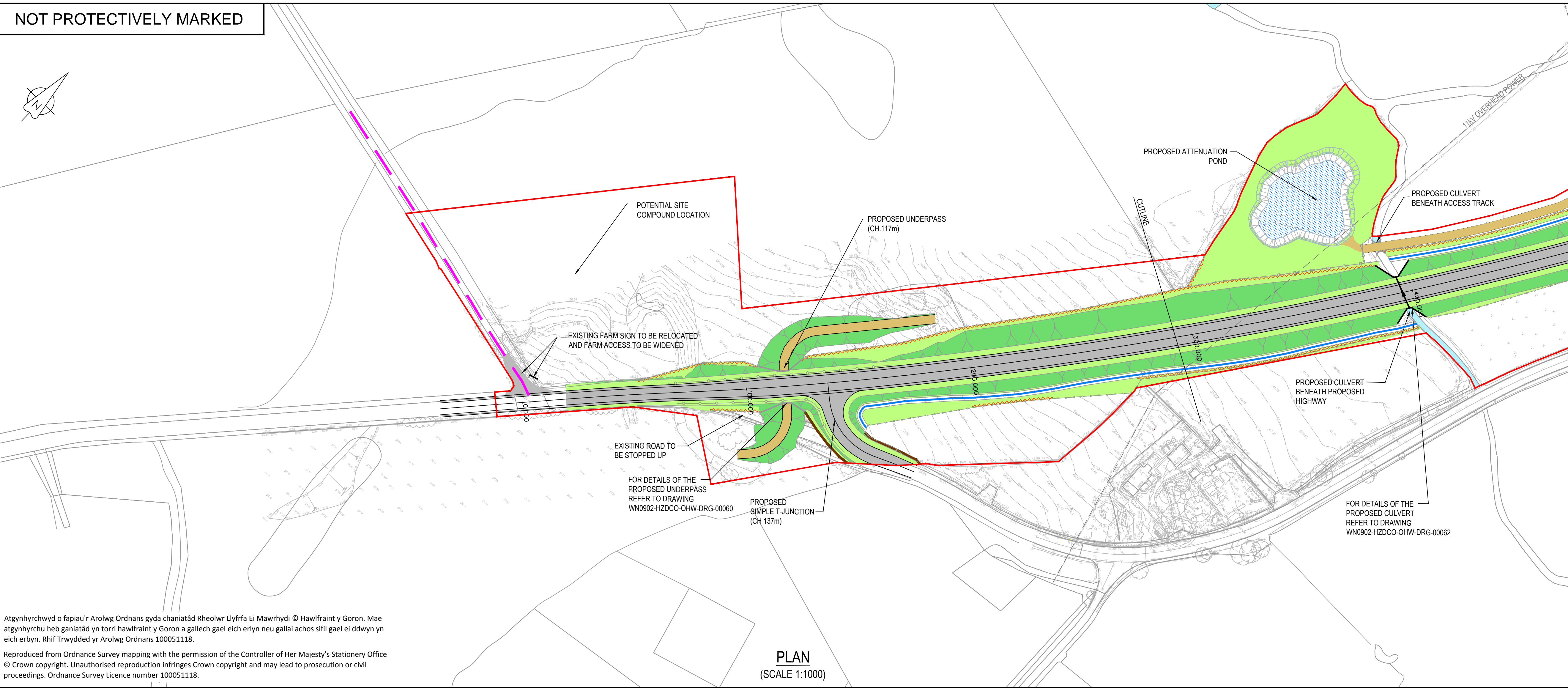
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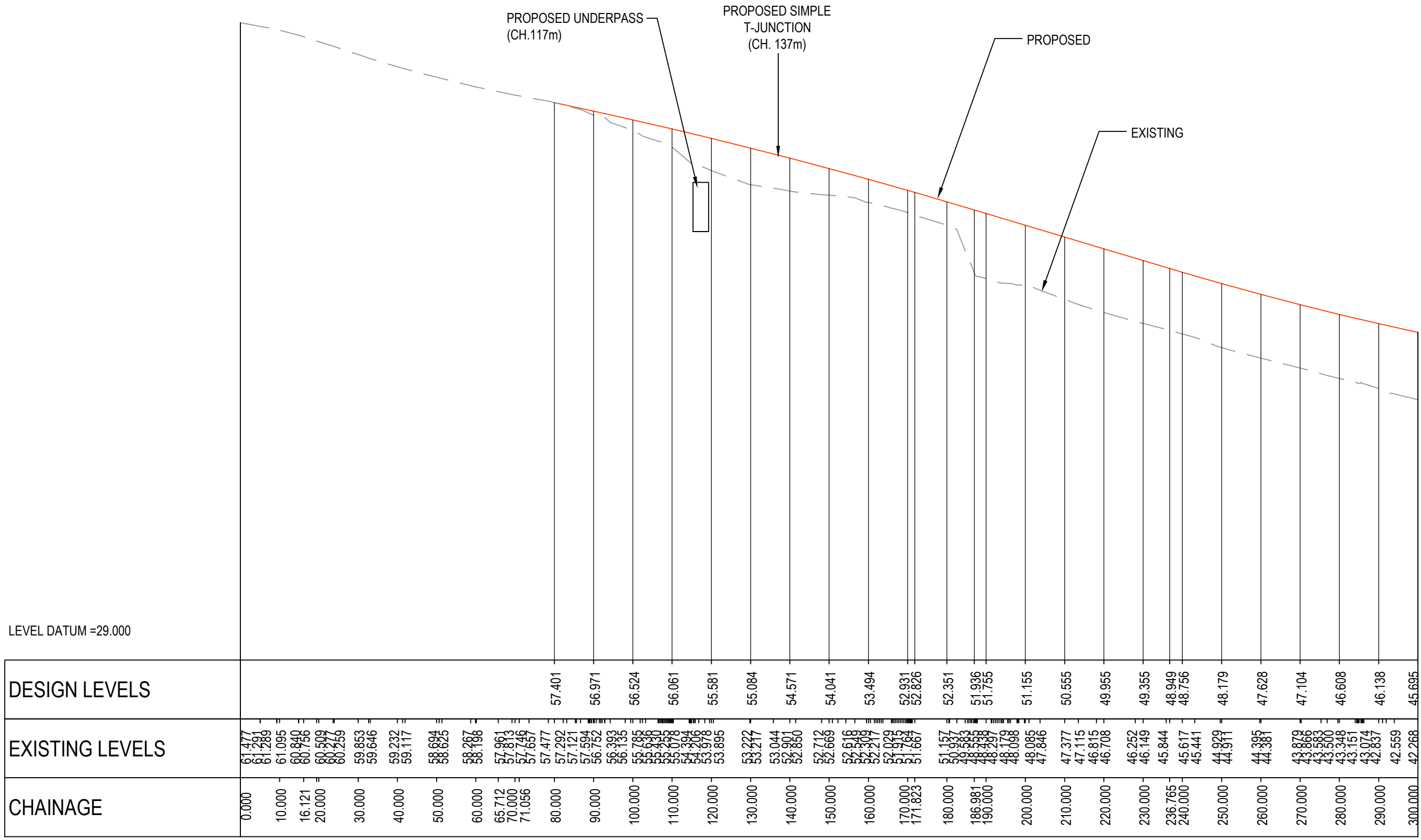




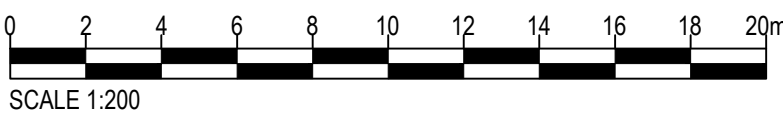
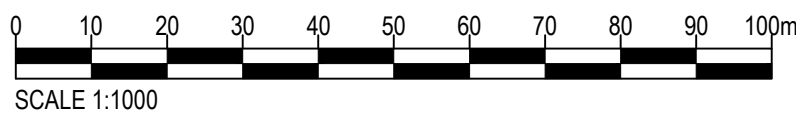
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PLAN
(SCALE 1:1000)



LONGITUDINAL SECTION
(CHAINAGE 0m - 300m)
(SCALE 1:1000H & 1:200V)



NOTES

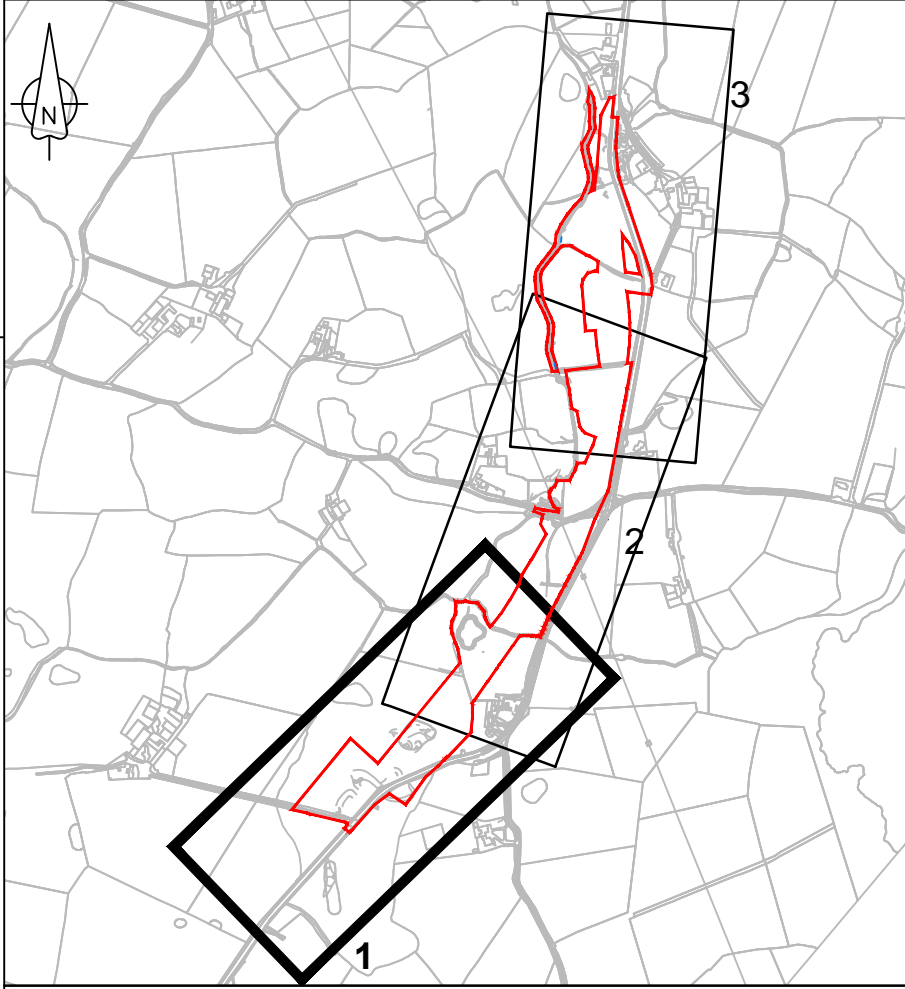
- All earthworks batter slopes are shown at a gradient of 1 in 2.5.
- Existing ground levels based on topographical survey information from surveys undertaken.
- The proposed carriageway width is 7.3m wide with 1.0m hardstrips on both sides of the carriageway providing a 9.3m total paved width.
- Road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

LEGEND

- Order Limits
- Proposed carriageway
- Proposed verge
- Proposed earthworks slopes
- Proposed access track
- Proposed attenuation pond
- Proposed highway boundary fence
- Proposed stone wall
- Proposed hedgerow
- Proposed gated private means of access
- Proposed land drainage ditch
- Existing public right of way (PROW)
- Proposed culvert (to include mammal ledges where practicable)
- Existing watercourse

REFERENCE DRAWINGS

- For details of the proposed underpass refer to drawing WN0902-HZDCO-OHW-DRG-00060
- For details of the proposed culvert refer to drawing WN0902-HZDCO-OHW-DRG-00062
- WN0902-HZDCO-OHW-DRG-00050 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00051 - SHEET 3



KEY PLAN
(NOT TO SCALE)

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

FOR APPROVAL

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Project
**WYLFA NEWYDD
DCO PROJECT**

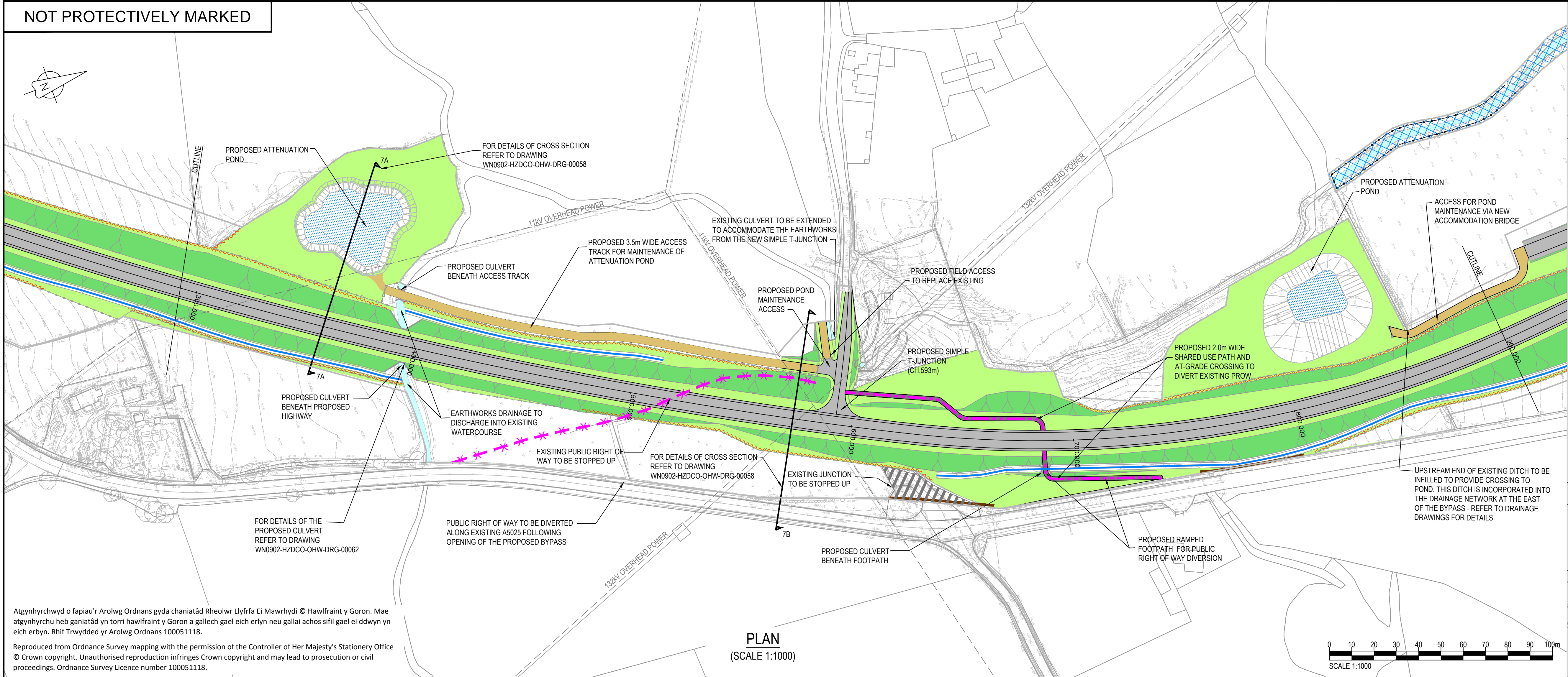
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**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED GENERAL ARRANGEMENT
SHEET 1**

Regulation 5 (2) (o)

Security Status					
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Scale	AS SHOWN	Sheet Size	A1	Sheet(s)	1 OF 1
Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00049					1.0

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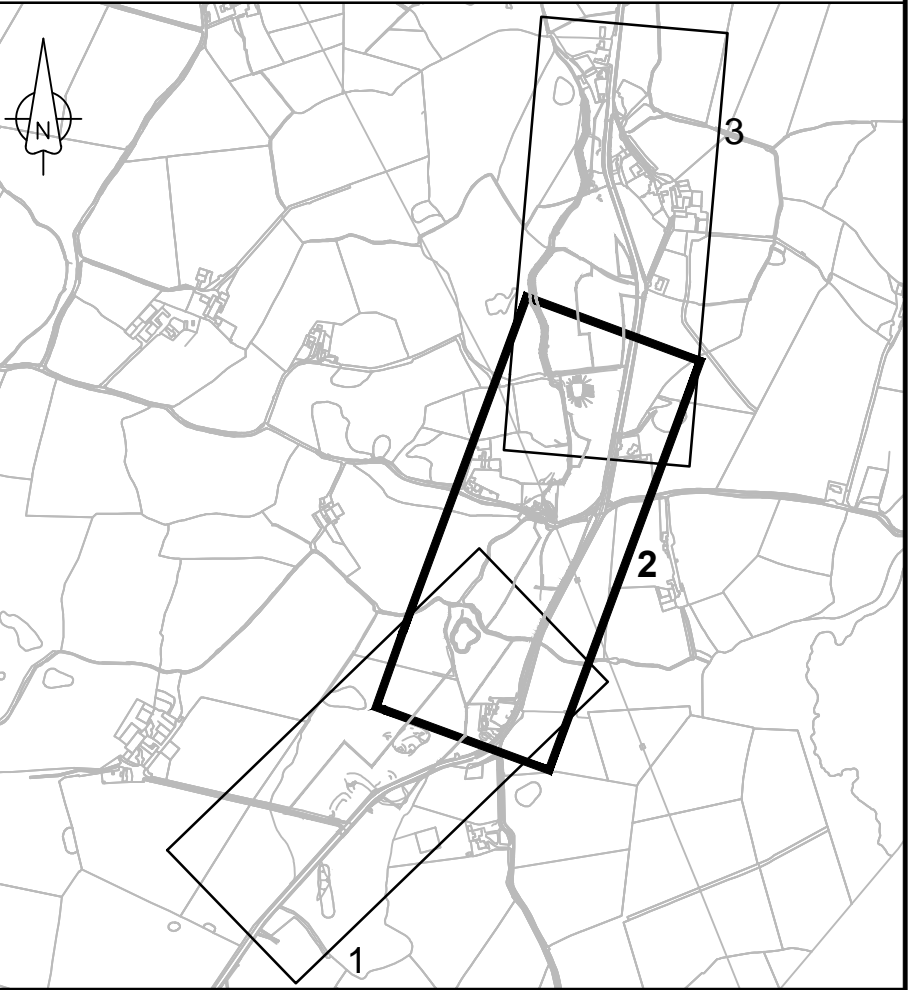
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NOTES

LEGEND

REFERENCE DRAWINGS

1. All earthworks batter slopes are shown at a gradient of 1 in 2.5.
2. Existing ground levels based on topographical survey information from surveys undertaken.
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.
1. For details of cross section refer to drawing WN0902-HZDCO-OHW-DRG-00058
2. For details of the proposed culvert refer to drawing WN0902-HZDCO-OHW-DRG-00062
3. WN0902-HZDCO-OHW-DRG-00049 - SHEET 1
4. WN0902-HZDCO-OHW-DRG-00051 - SHEET 3



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

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Project

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DCO PROJECT

Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED GENERAL ARRANGEMENT
SHEET 2

Regulation 5 (2) (o)

Security Status

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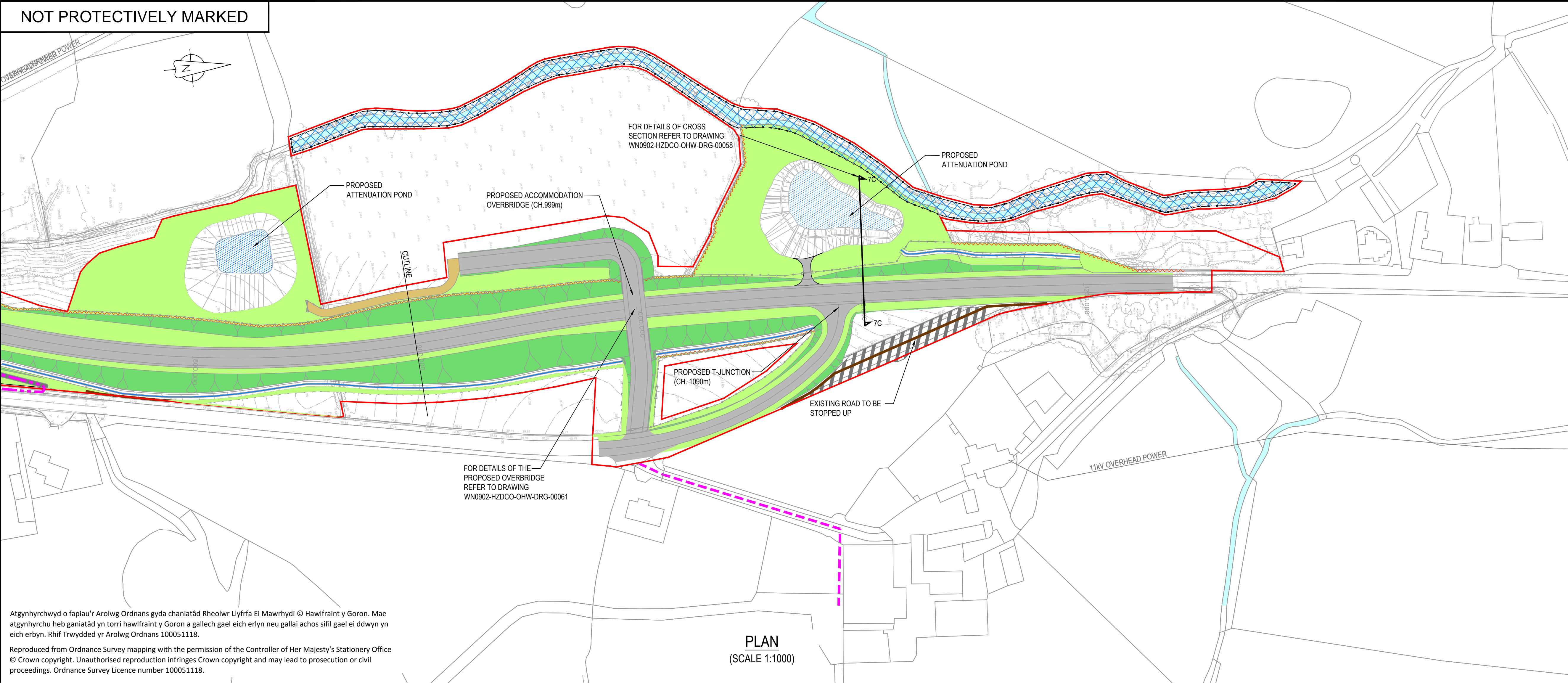
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Drawing Number	WN0902-HZDCO-OHW-DRG-00050	Rev	1.0		

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LEVEL DATUM =29.000

DESIGN LEVELS	45.685	45.690	45.695	45.700	45.705	45.710	45.715	45.720	45.725	45.730	45.735	45.740	45.745	45.750	45.755	45.760	45.765	45.770	45.775	45.780	45.785	45.790	45.795	45.800	45.805	45.810	45.815	45.820	45.825	45.830	45.835	45.840	45.845	45.850	45.855	45.860	45.865	45.870	45.875	45.880	45.885	45.890	45.895	45.900	45.905	45.910	45.915	45.920	45.925	45.930	45.935	45.940	45.945	45.950	45.955	45.960	45.965	45.970	45.975	45.980	45.985	45.990	45.995	46.000	46.005	46.010	46.015	46.020	46.025	46.030	46.035	46.040	46.045	46.050	46.055	46.060	46.065	46.070	46.075	46.080	46.085	46.090	46.095	46.100	46.105	46.110	46.115	46.120	46.125	46.130	46.135	46.140	46.145	46.150	46.155	46.160	46.165	46.170	46.175	46.180	46.185	46.190	46.195	46.200	46.205	46.210	46.215	46.220	46.225	46.230	46.235	46.240	46.245	46.250	46.255	46.260	46.265	46.270	46.275	46.280	46.285	46.290	46.295	46.300	46.305	46.310	46.315	46.320	46.325	46.330	46.335	46.340	46.345	46.350	46.355	46.360	46.365	46.370	46.375	46.380	46.385	46.390	46.395	46.400	46.405	46.410	46.415	46.420	46.425	46.430	46.435	46.440	46.445	46.450	46.455	46.460	46.465	46.470	46.475	46.480	46.485	46.490	46.495	46.500	46.505	46.510	46.515	46.520	46.525	46.530	46.535	46.540	46.545	46.550	46.555	46.560	46.565	46.570	46.575	46.580	46.585	46.590	46.595	46.600	46.605	46.610	46.615	46.620	46.625	46.630	46.635	46.640	46.645	46.650	46.655	46.660	46.665	46.670	46.675	46.680	46.685	46.690	46.695	46.700	46.705	46.710	46.715	46.720	46.725	46.730	46.735	46.740	46.745	46.750	46.755	46.760	46.765	46.770	46.775	46.780	46.785	46.790	46.795	46.800	46.805	46.810	46.815	46.820	46.825	46.830	46.835	46.840	46.845	46.850	46.855	46.860	46.865	46.870	46.875	46.880	46.885	46.890	46.895	46.900	46.905	46.910	46.915	46.920	46.925	46.930	46.935	46.940	46.945	46.950	46.955	46.960	46.965	46.970	46.975	46.980	46.985	46.990	46.995	47.000	47.005	47.010	47.015	47.020	47.025	47.030	47.035	47.040	47.045	47.050	47.055	47.060	47.065	47.070	47.075	47.080	47.085	47.090	47.095	47.100	47.105	47.110	47.115	47.120	47.125	47.130	47.135	47.140	47.145	47.150	47.155	47.160	47.165	47.170	47.175	47.180	47.185	47.190	47.195	47.200	47.205	47.210	47.215	47.220	47.225	47.230	47.235	47.240	47.245	47.250	47.255	47.260	47.265	47.270	47.275	47.280	47.285	47.290	47.295	47.300	47.305	47.310	47.315	47.320	47.325	47.330	47.335	47.340	47.345	47.350	47.355	47.360	47.365	47.370	47.375	47.380	47.385	47.390	47.395	47.400	47.405	47.410	47.415	47.420	47.425	47.430	47.435	47.440	47.445	47.450	47.455	47.460	47.465	47.470	47.475	47.480	47.485	47.490	47.495	47.500	47.505	47.510	47.515	47.520	47.525	47.530	47.535	47.540	47.545	47.550	47.555	47.560	47.565	47.570	47.575	47.580	47.585	47.590	47.595	47.600	47.605	47.610	47.615	47.620	47.625	47.630	47.635	47.640	47.645	47.650	47.655	47.660	47.665	47.670	47.675	47.680	47.685	47.690	47.695	47.700	47.705	47.710	47.715	47.720	47.725	47.730	47.735	47.740	47.745	47.750	47.755	47.760	47.765	47.770	47.775	47.780	47.785	47.790	47.795	47.800	47.805	47.810	47.815	47.820	47.825	47.830	47.835	47.840	47.845	47.850	47.855	47.860	47.865	47.870	47.875	47.880	47.885	47.890	47.895	47.900	47.905	47.910	47.915	47.920	47.925	47.930	47.935	47.940	47.945	47.950	47.955	47.960	47.965	47.970	47.975	47.980	47.985	47.990	47.995	48.000	48.005	48.010	48.015	48.020	48.025	48.030	48.035	48.040	48.045	48.050	48.055	48.060	48.065	48.070	48.075	48.080	48.085	48.090	48.095	48.100	48.105	48.110	48.115	48.120	48.125	48.130	48.135	48.140	48.145	48.150	48.155	48.160	48.165	48.170	48.175	48.180	48.185	48.190	48.195	48.200	48.205	48.210	48.215	48.220	48.225	48.230	48.235	48.240	48.245	48.250	48.255	48.260	48.265	48.270	48.275	48.280	48.285	48.290	48.295	48.300	48.305	48.310	48.315	48.320	48.325	48.330	48.335	48.340	48.345	48.350	48.355	48.360	48.365	48.370	48.375	48.380	48.385	48.390	48.395	48.400	48.405	48.410	48.415	48.420	48.425	48.430	48.435	48.440	48.445	48.450	48.455	48.460	48.465	48.470	48.475	48.480	48.485	48.490	48.495	48.500	48.505	48.510	48.515	48.520	48.525	48.530	48.535	48.540	48.545	48.550	48.555	48.560	48.565	48.570	48.575	48.580	48.585	48.590	48.595	48.600	48.605	48.610	48.615	48.620	48.625	48.630	48.635	48.640	48.645	48.650	48.655	48.660	48.665	48.670	48.675	48.680	48.685	48.690	48.695	48.700	48.705	48.710	48.715	48.720	48.725	48.730	48.735	48.740	48.745	48.750	48.755	48.760	48.765	48.770	48.775	48.780	48.785	48.790	48.795	48.800	48.805	48.810	48.815	48.820	48.825	48.830	48.835	48.840	48.845	48.850	48.855	48.860	48.865	48.870	48.875	48.880	48.885	48.890	48.895	48.900	48.905	48.910	48.915	48.920	48.925	48.930	48.935	48.940	48.945	48.950	48.955	48.960	48.965	48.970	48.975	48.980	48.985	48.990	48.995	49.000	49.005	49.010	49.015	49.020	49.025	49.030	49.035	49.040	49.045	49.050	49.055	49.060	49.065	49.070	49.075	49.080	49.085	49.090	49.095	49.100	49.105	49.110	49.115	49.120	49.125	49.130	49.135	49.140	49.145	49.150	49.155	49.160	49.165	49.170	49.175	49.180	49.185	49.190	49.195	49.200	49.205	49.210	49.215	49.220	49.225	49.230	49.235	49.240	49.245	49.250	49.255	49.260	49.265	49.270	49.275	49.280	49.285	49.290	49.295	49.300	49.305	49.310	49.315	49.320	49.325	49.330	49.335	49.340	49.345	49.350	49.355	49.360	49.365	49.370	49.375	49.380	49.385	49.390	49.395	49.400	49.405	49.410	49.415	49.420	49.425	49.430	49.435	49.440	49.445	49.450	49.455	49.460	49.465	49.470	49.475	49.480	49.485	49.490	49.495	49.500	49.505	49.510	49.515	49.520	49.525	49.530	49.535	49.540	49.545	49.550	49.555	49.560	49.565	49.570	49.575	49.580	49.585	49.590	49.595	49.600	49.605	49.610	49.615	49.620	49.625	49.630	49.635	49.640	49.645	49.650	49.655	49.660	49.665	49.670	49.675	49.680	49.685	49.690	49.695	49.700	49.705	49.710	49.715	49.720	49.725	49.730	49.735	49.740	49.745	49.750	49.755	49.760	49.765	49.770	49.775	49.780	49.785	49.790	49.795	49.800	49.805	49.810	49.815	49.820	49.825	49.830	49.835	49.840	49.845	49.850	49.855	49.860	49.865	49.870	49.875	49.880	49.885	49.890	49.895	49.900	49.905	49.910	49.915	49.920	49.925	49.930	49.935	49.940	49.945	49.950	49.955	49.960	49.965	49.970	49.975	49.980	49.985	49.990	49.995	50.000	50.005	50.010	50.015	50.020	50.025	50.030	50.035	50.040	50.045	50.050	50.055	50.060	50.065	50.070	50.075	50.080	50.085	50.090	50.095	50.100	50.105	50.110	50.115	50.120	50.125	50.130	50.135	50.140	50.145	50.150	50.155	50.160	50.165	50.170	50.175	50.180	50.185	50.190	50.195	50.200	50.205	50.210	50.215	50.220	50.225	50.230	50.235	50.240	50.245	50.250	50.255	50.260	50.265	50.270	50.275	50.280	50.285	50.290	50.295	50.300	50.305	50.310	50.315	50.320	50.325	50.330	50.335	50.340	50.345	50.350	50.355	50.360	50.365	50.370	50.375	50.380	50.385	50.390	50.395	50.400	50.405	50.410	50.415	50.420	50.425	50.430	50.435	50.440	50.445	50.450	50.455	50.460	50.465	50.470	50.475	50.480	50.485	50.490	50.495	50.500	50.505	50.510	50.515	50.520	50.525	50.530	50.535	50.540	50.545	50.550	50.555	50.560	50.565	50.570	50.575	50.580	50.585	50.590	50.595	50.600	50.605	50.610	50.615	50.620	50.625	50.630	50.635	50.640	50.645	50.650	50.655	50.660	50.665	50.670	50.675	50.680	50.685	50.690	50.695	50.700	50.705	50.710	50.715	50.720	50.725	50.730	50.735	50.740	50.745	50.750	50.755	50.760	50.765	50.770	50.775	50.780	50.785	50.790	50.795	50.800	50.805	50.810	50.815	50.820	50.825	50.830	50.835	50.840	50.845	50.850	50.855	50.860	50.865	50.870	50.875	50.880	50.885	50.890	50.895	50.900	50.905	50.910	50.915	50.920	50.925	50.930	50.935	50.940	50.945	50.950	50.955	50.960	50.965	50.970	50.975	50.980	50.985	50.990	50.995	51.000	51.005	51.010	51.015	51.020	51.025	51.030	51.035	51.040	51.045	51.050	51.055	51.060	51.065	51.070	51.075	51.080	51.085	51.090	51.095	51.100	51.105	51.110	51.115	51.120	51.125	51.130	51.135	51.140	51.145	51.150	51.155	51.160	51.165	51.170	51.175	51.180	51.185	51.190	51.195	51.200	51.205	51.210	51.215	51.220	51.225	51.230	51.235	51.240	51.245	51.250	51.255	51.260	51.265	51.270	51.275	51.280	51.285	51.290	51.295	51.300	51.30
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NOT PROTECTIVELY MARKED



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NOTES

- 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.

LEGEND

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

REFERENCE DRAWINGS

- For details of cross section refer to drawing WN0902-HZDCO-OHW-DRG-00058
- For details of the proposed culvert refer to drawing WN0902-HZDCO-OHW-DRG-00061
- WN0902-HZDCO-OHW-DRG-00050 - SHEET 2
- WN0902-HZDCO-OHW-DRG-00051 - SHEET 3

KEY PLAN
(NOT TO SCALE)

1.0	MAY 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 7 - CEFN COCH
PROPOSED GENERAL ARRANGEMENT
SHEET 3

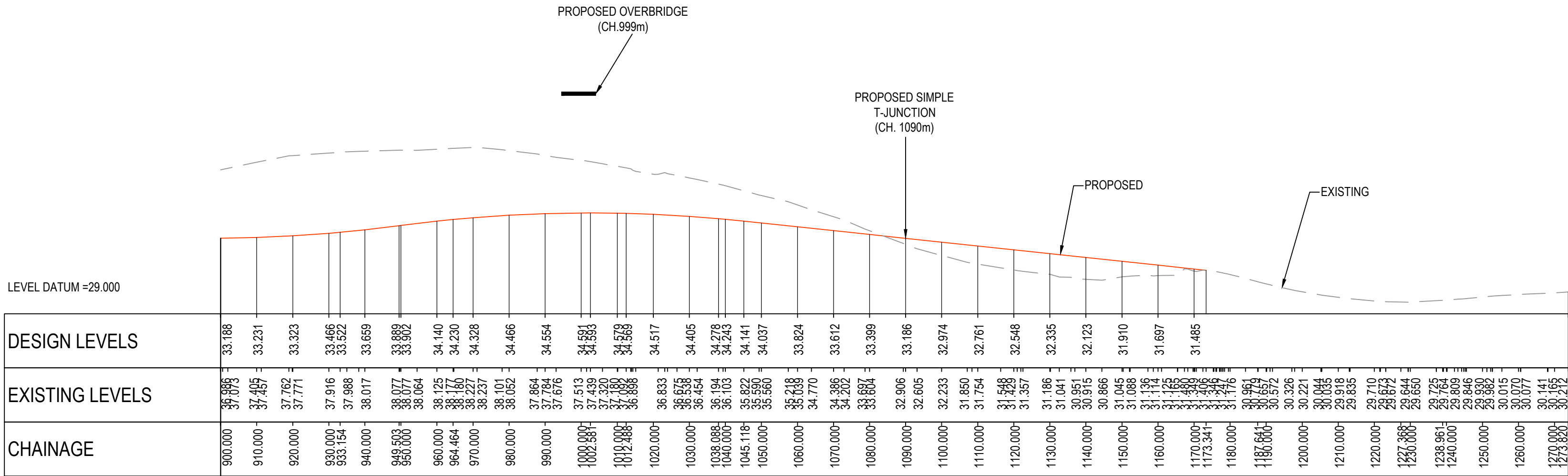
Regulation 5 (2) (o)

Security Status

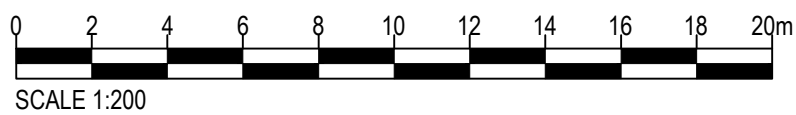
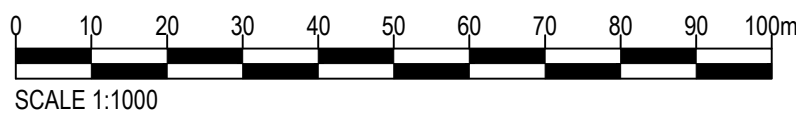
NOT PROTECTIVELY MARKED

Scale	AS SHOWN	Sheet Size	A1	Sheet(s)	1 OF 1
Drawing Number	WN0902-HZDCO-OHW-DRG-00051				Rev
				1.0	

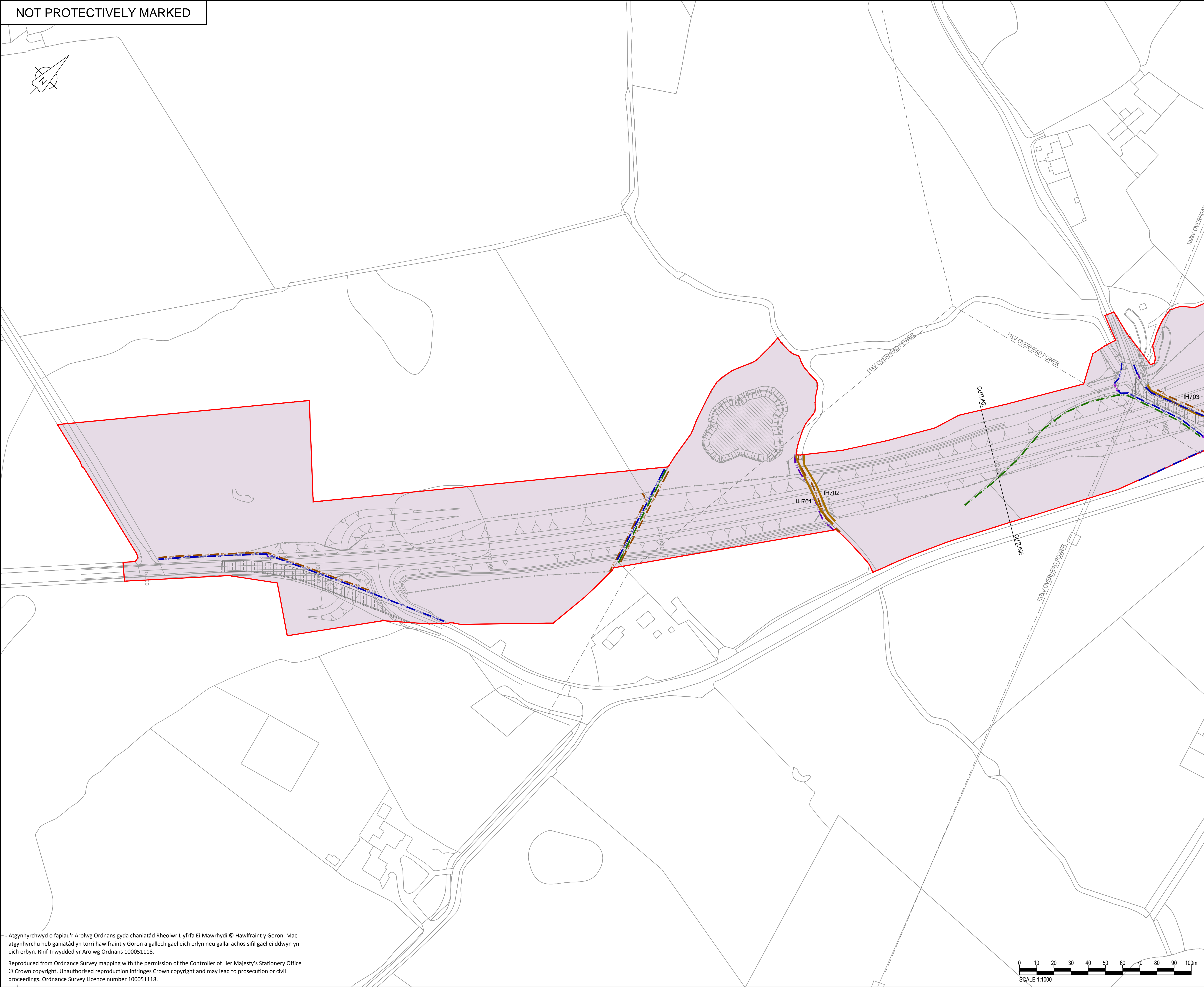
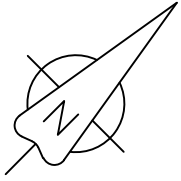
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LONGITUDINAL SECTION
(CHAINAGE 900m - 1273m)
(SCALE 1:1000H & 1:200V)



NOT PROTECTIVELY MARKED



NOTES

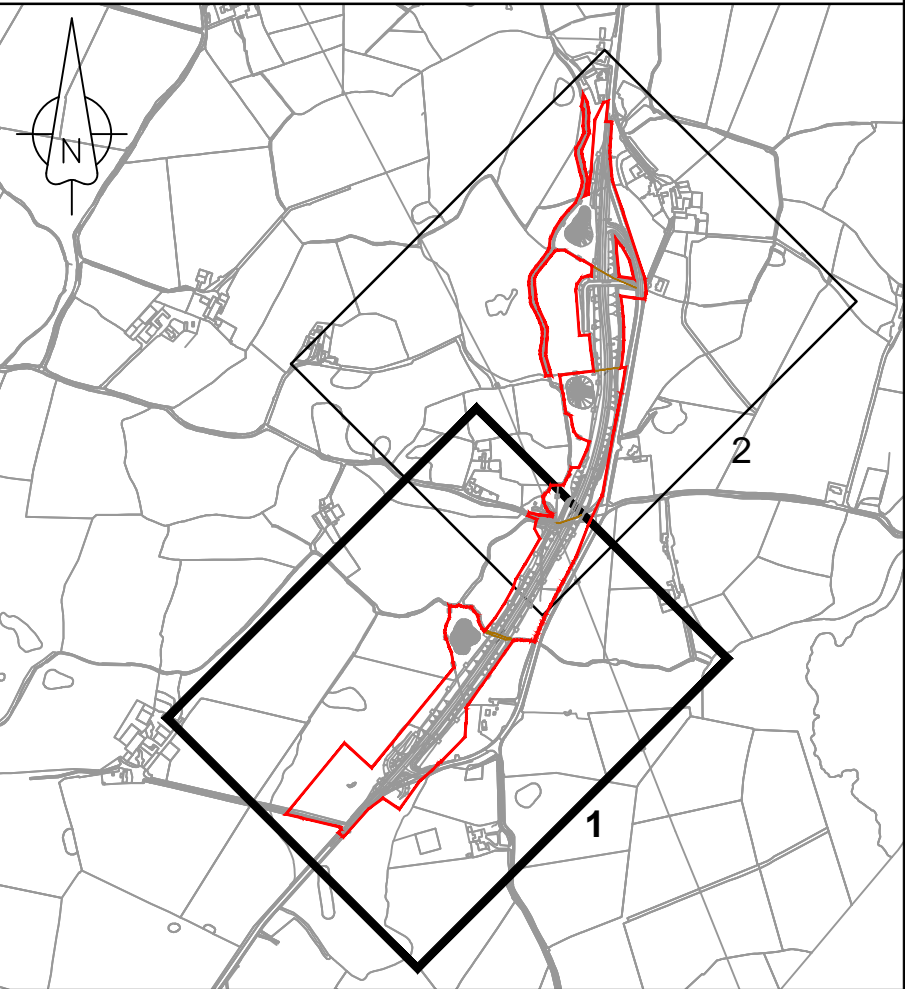
- The area shown as 'general site clearance' does not mean that everything within this area is to be cleared. Site clearance will be the minimum required to undertake the works, general site clearance consists of removal of overgrowth in verges, topsoil removal and disposal.
- Only fencing, hedgerows & 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
- Earth bank to be removed
- Gate to be removed
- Important Hedgerow (Hedgerow Regulations 1997) To be removed

REFERENCE DRAWINGS

- For sheet 2 refer to drawing WN0902-HZDCO-OHW-DRG-00053.



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

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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 7 - CEFN COCH
PROPOSED SITE CLEARANCE PLAN
SHEET 1**

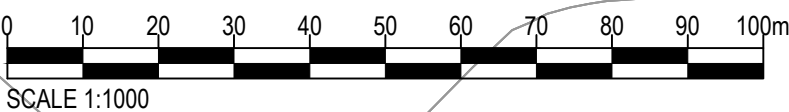
Regulation 5 (2) (o)

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Drawing Number	WN0902-HZDCO-OHW-DRG-00052				Rev
					1.0

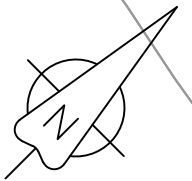
Atgynhychwyd o fapiau'r Arolwg Ordnans gyda chaniatâd Rheolwr Llyfrfa Ei Mawrhydi © Hawlfraint y Goron. Mae atgynhychu heb ganiatâd yn torri hawlfraint y Goron a gallech gael eich erlyn neu gallai achos sifil gael ei ddwyn yn eich erbyn. Rhif Trwydded yr Arolwg Ordnans 100051118.

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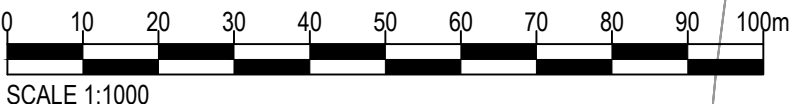
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NOTES

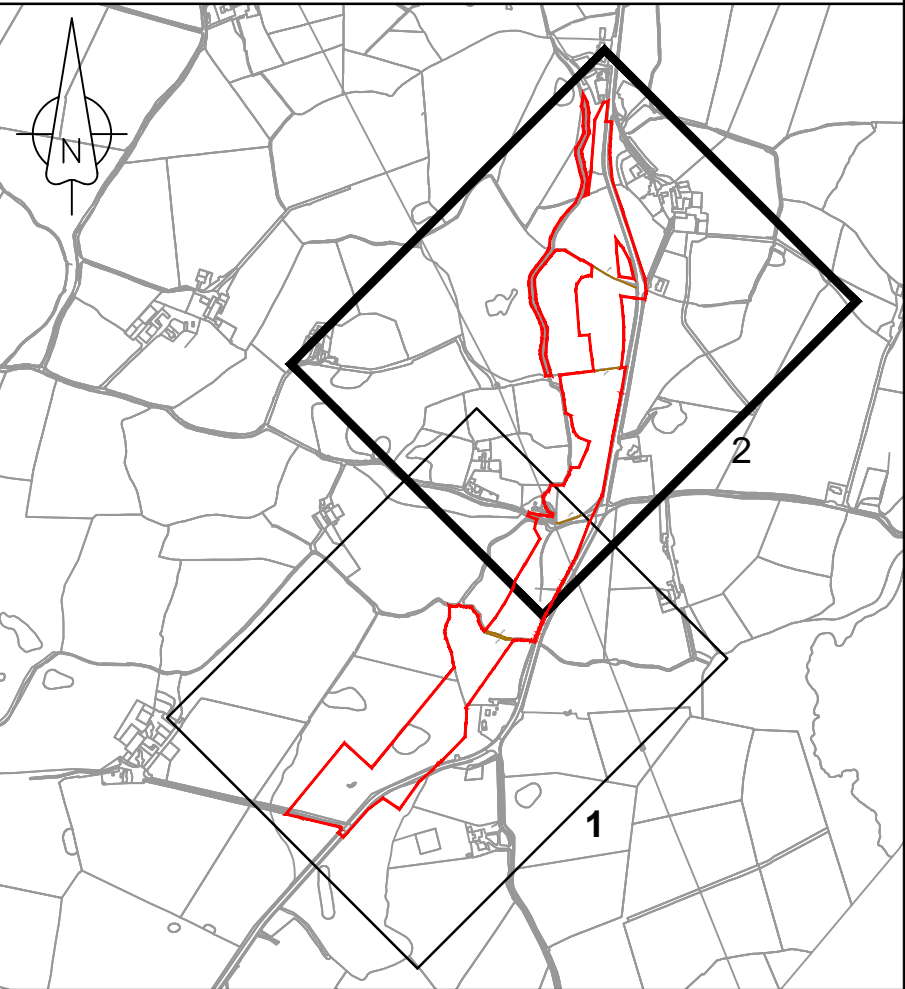
- The area shown as 'general site clearance' does not mean that everything within this area is to be cleared. Site clearance will be the minimum required to undertake the works, general site clearance consists of removal of overgrowth in verges, topsoil removal and disposal.
- Only fencing, hedgerows & 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) IH** To be removed

REFERENCE DRAWINGS

- For sheet 2 refer to drawing WN0902-HZDCO-OHW-DRG-00052.



KEY PLAN
(NOT TO SCALE)

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

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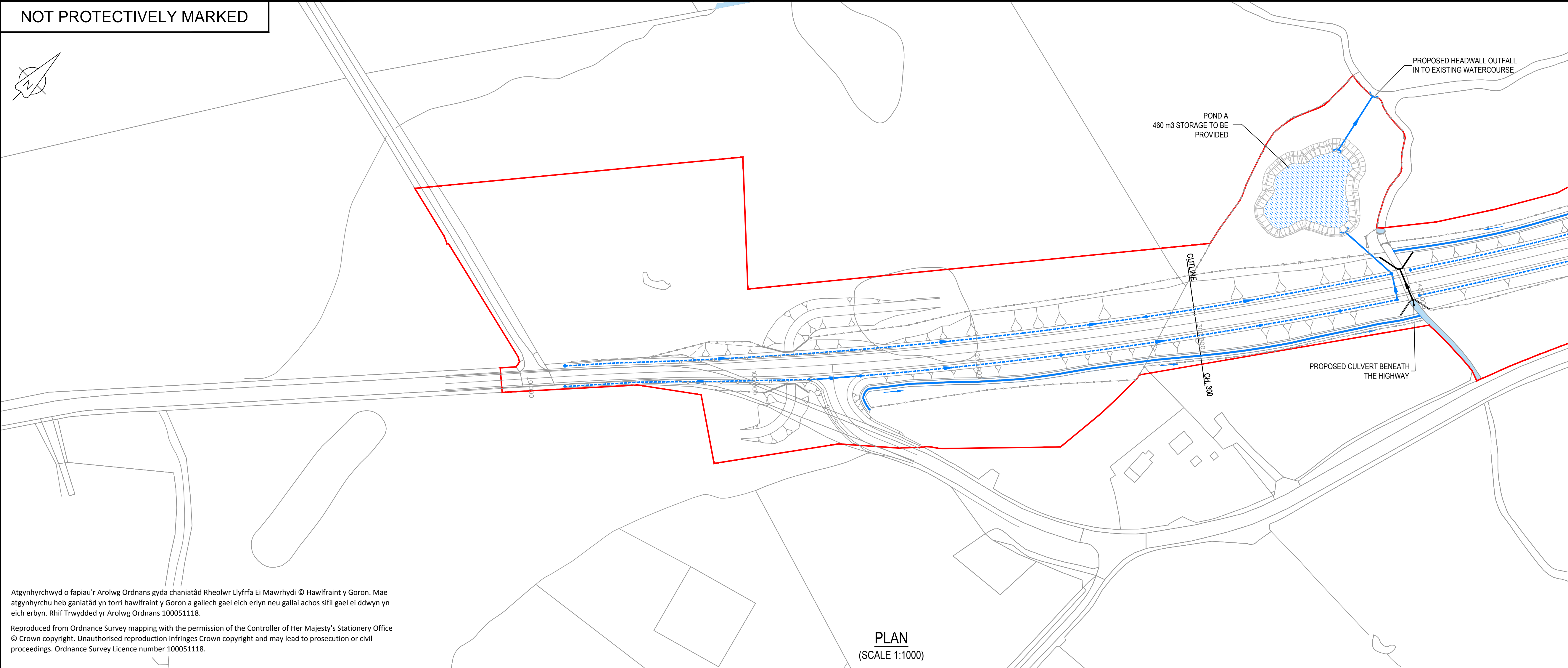
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED SITE CLEARANCE PLAN
SHEET 2**

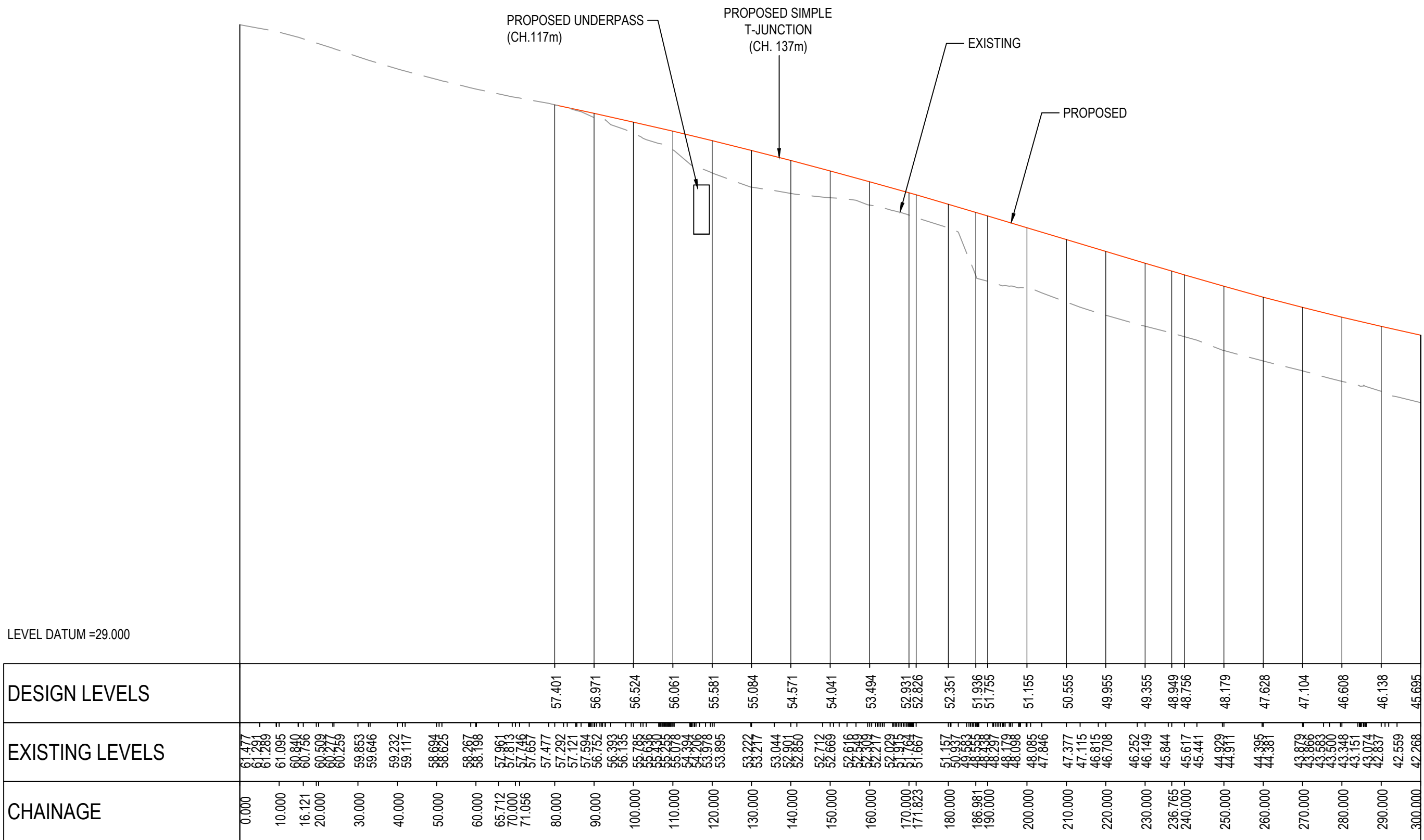
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					1.0

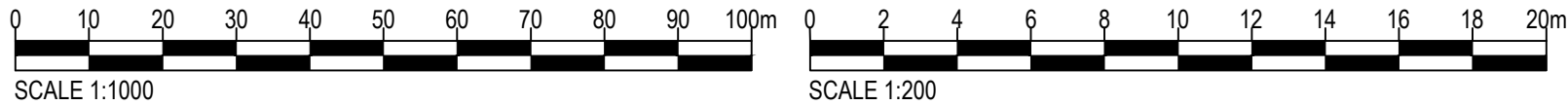
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PLAN
(SCALE 1:1000)



LONGITUDINAL SECTION
(CHAINAGE 0m - 300m)
(SCALE 1:1000H & 1:200V)

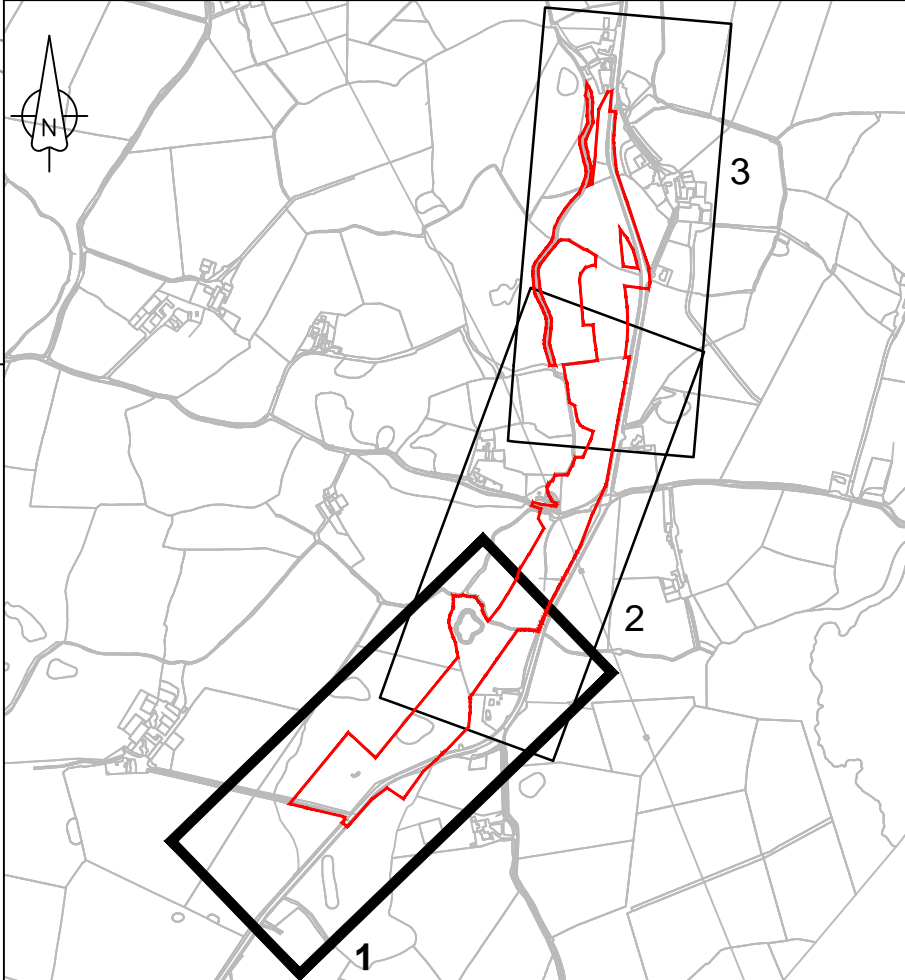


NOTES

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 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 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).



KEY PLAN
(NOT TO SCALE)

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

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**WYLFA NEWYDD
DCO PROJECT**

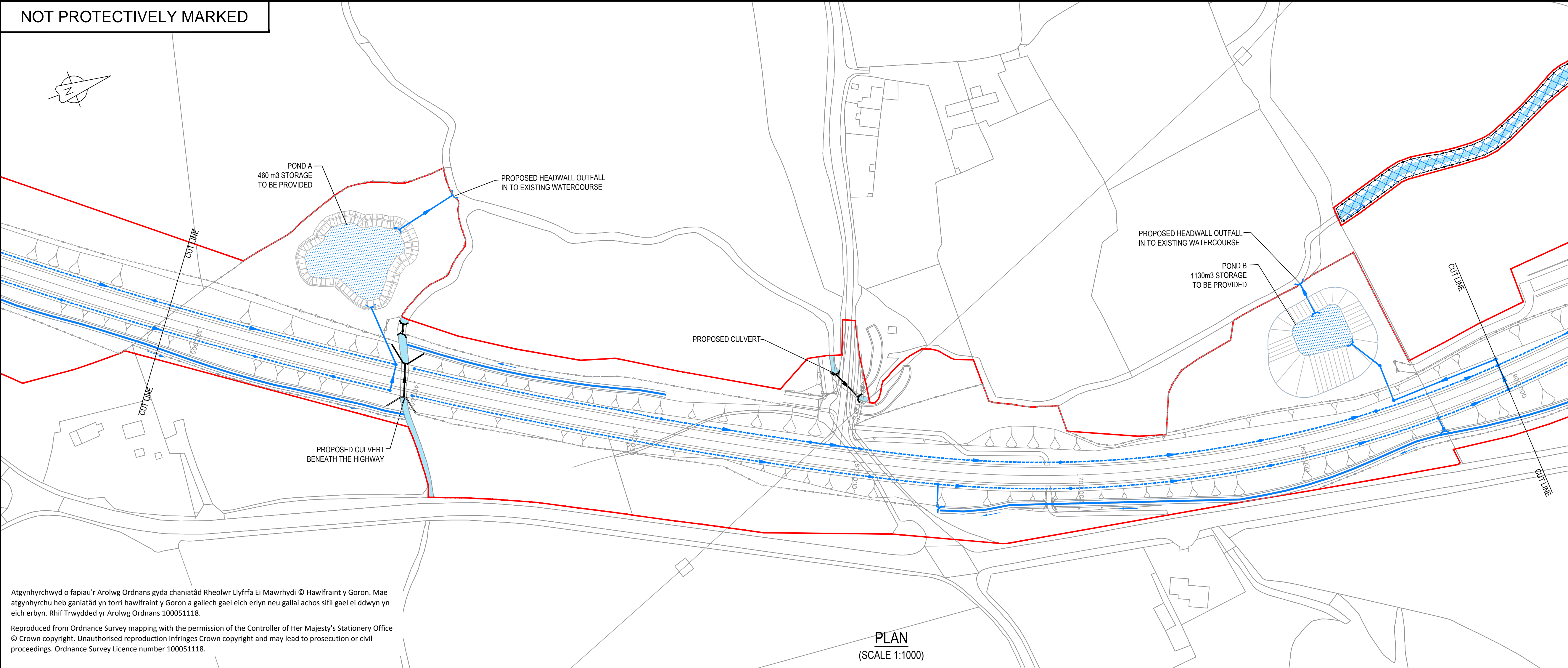
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**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED DRAINAGE PLAN
SHEET 1**

Regulation 5 (2) (o)

NOT PROTECTIVELY MARKED

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Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00054					1.0

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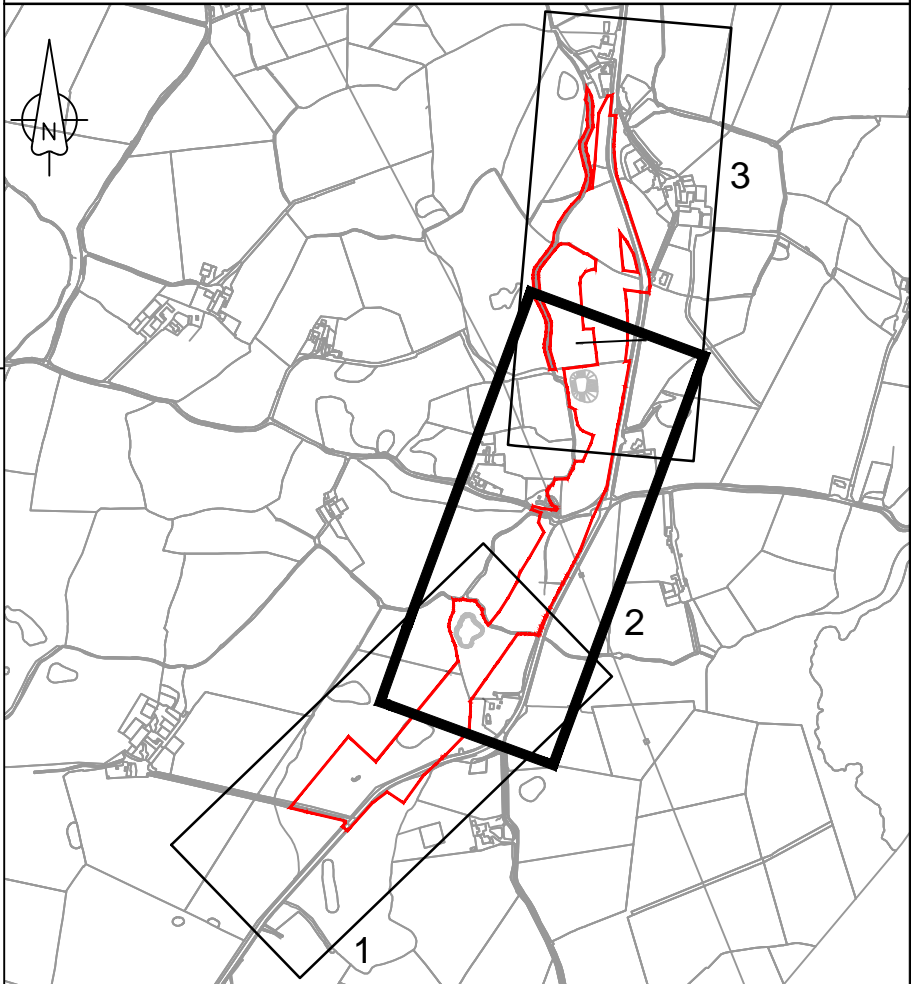


NOTES

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 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 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).
- Ecological mitigation area



KEY PLAN
(NOT TO SCALE)

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

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Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED DRAINAGE PLAN
SHEET 2

Regulation 5 (2) (o)

Security Status

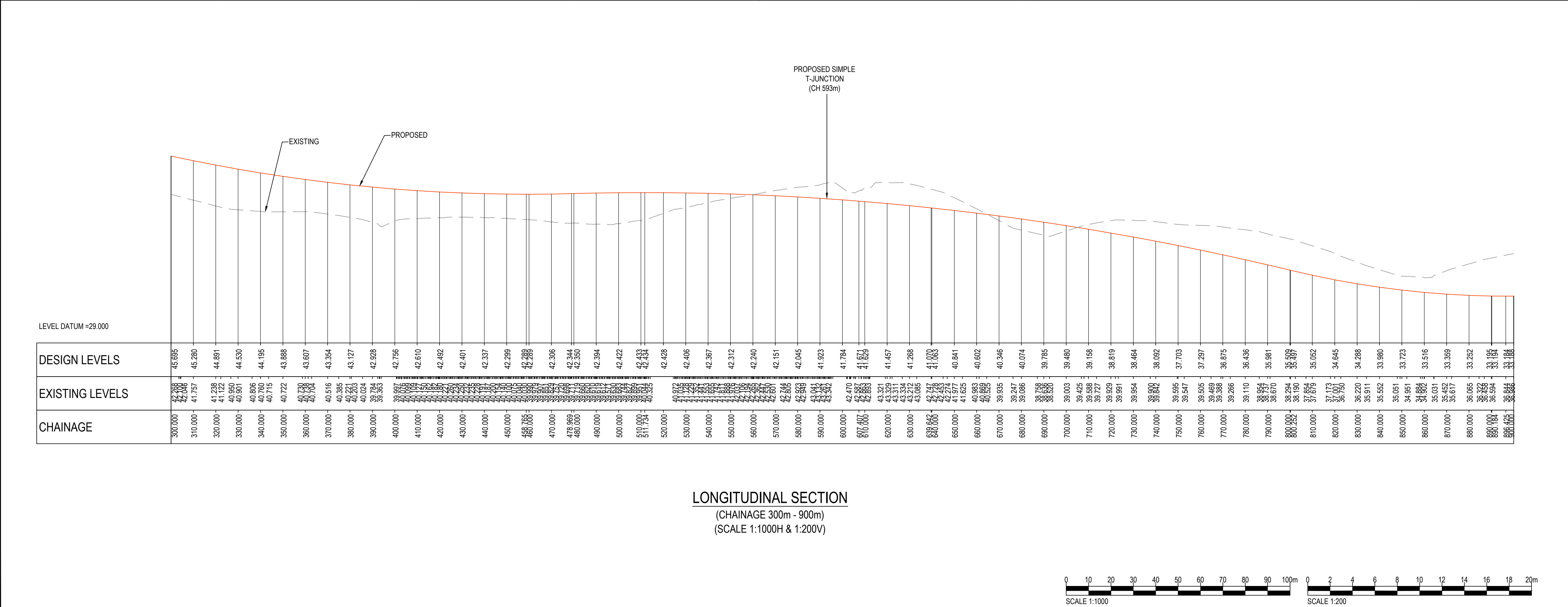
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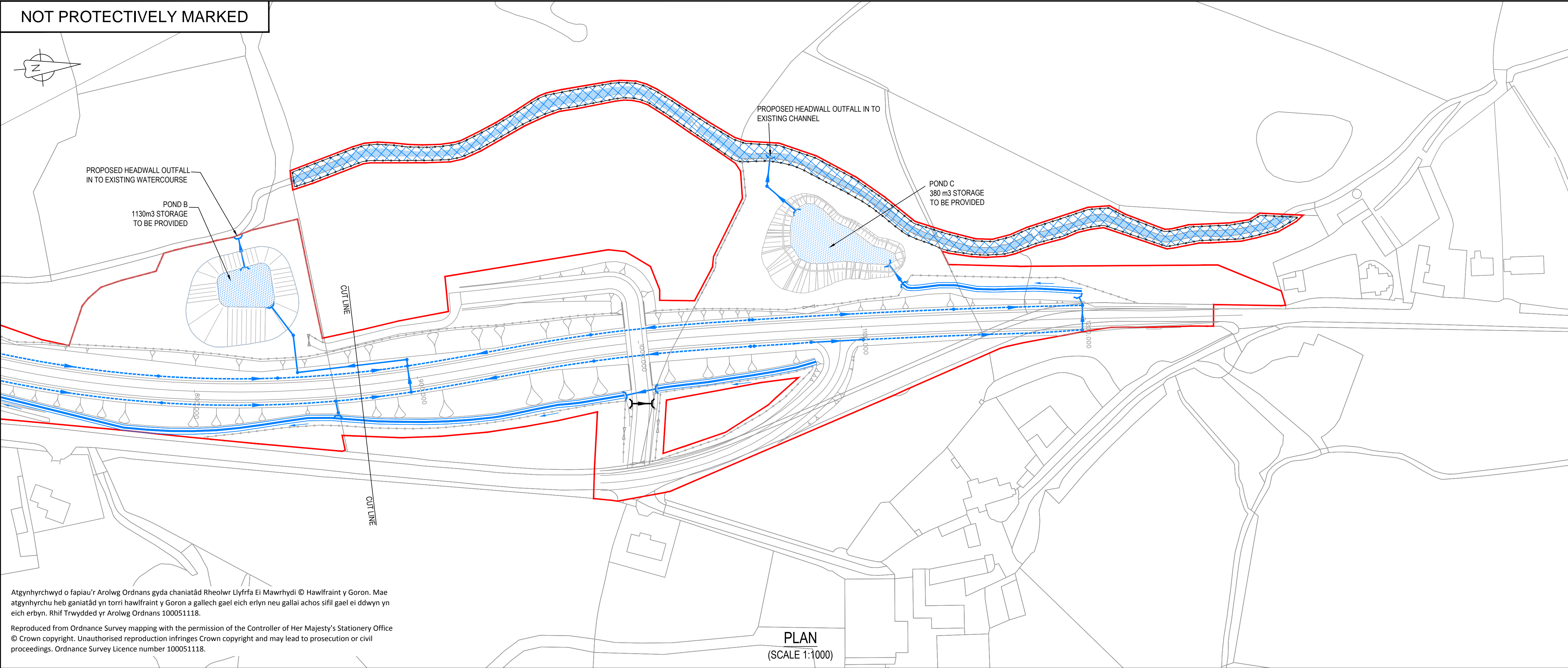
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Drawing Number WN0902-HZDCO-OHW-DRG-00055 Rev 1.0

LONGITUDINAL SECTION

(CHAINAGE 300m - 900m)
(SCALE 1:1000H & 1:200V)





- 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 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 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

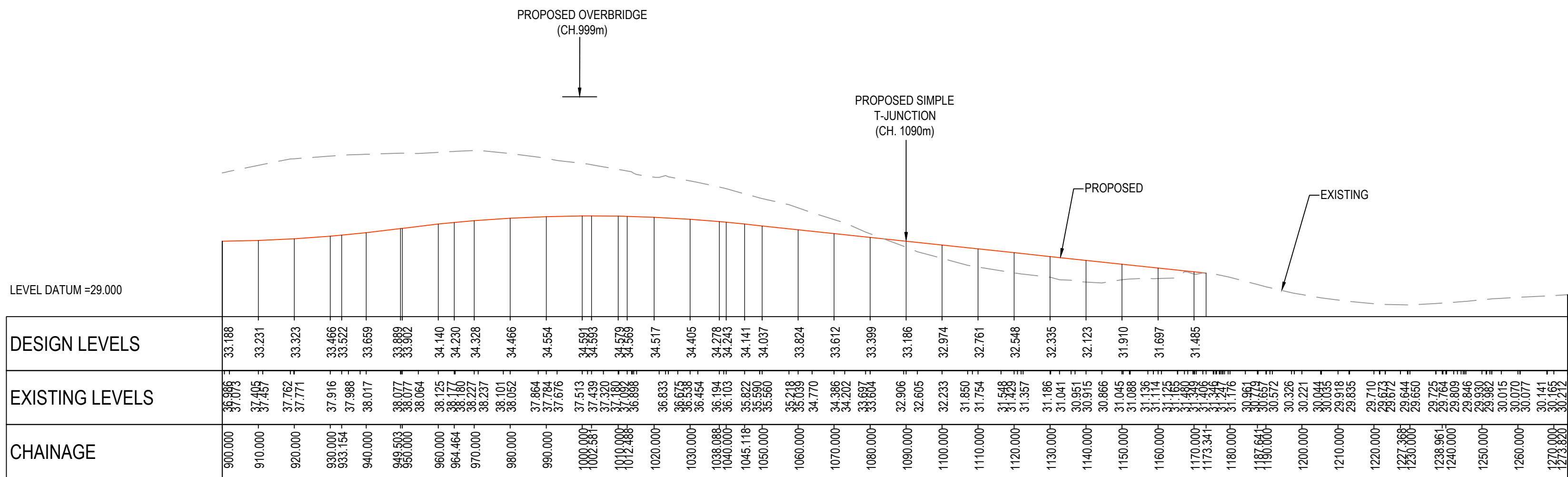
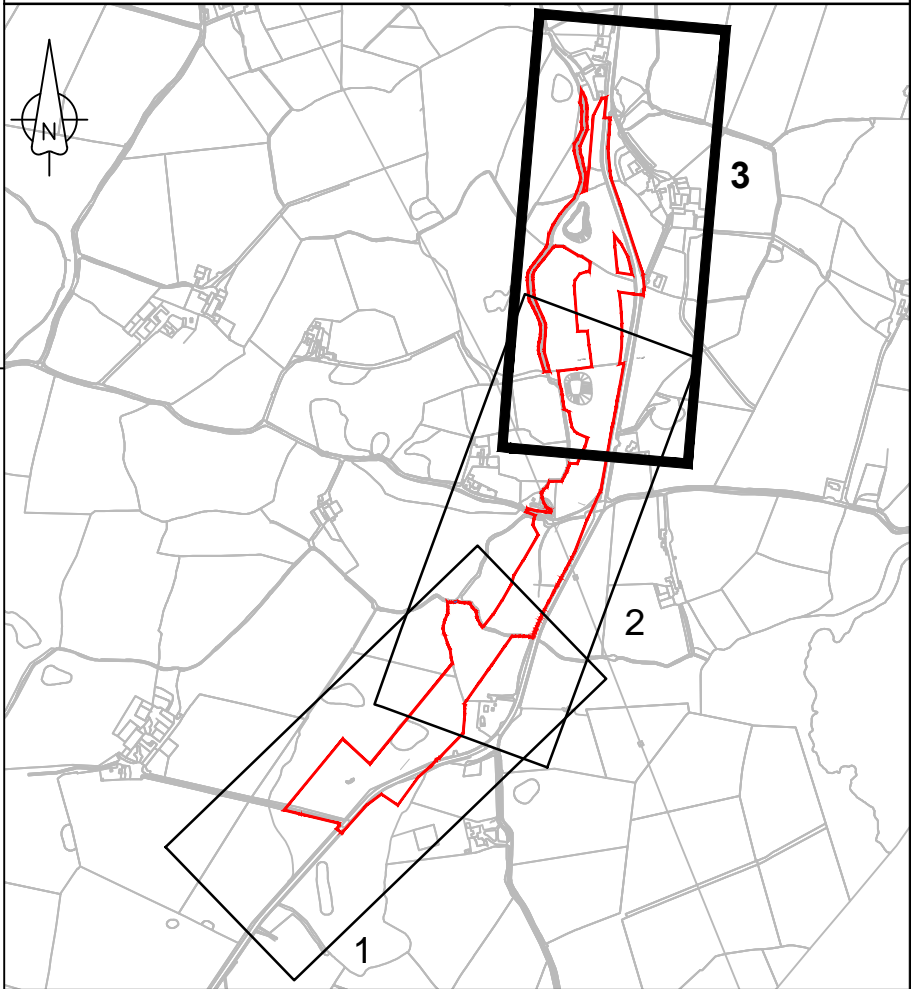
Proposed catchpit

Proposed carrier drain

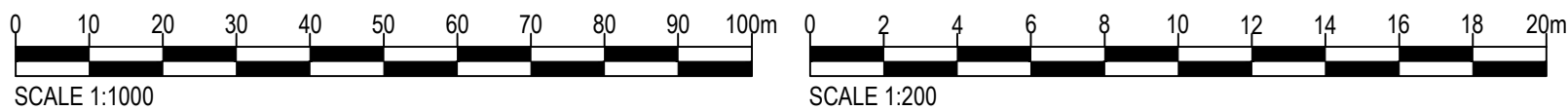
Proposed filter drain

Proposed culvert (to include mammal ledges where practicable).

Ecological mitigation area



LONGITUDINAL SECTION
(CHAINAGE 900m - 1273m)
(SCALE 1:1000H & 1:200V)



1.0 MARCH 2018 FOR DCO SUBMISSION

Rev Rev. Date Purpose of revision

Drawn Checked Approved

FOR APPROVAL

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NUCLEAR POWER

Sunrise House, 1420 Charlton Court, Gloucester Business Park, Gloucester, GL3 4AE, UK
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Project

WYLFA NEWYDD
DCO PROJECT

Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED DRAINAGE PLAN
SHEET 3

Regulation 5 (2) (o)

Security Status

NOT PROTECTIVELY MARKED

Scale AS SHOWN

Sheet Size A1

Sheet(s) 1

1 OF 1

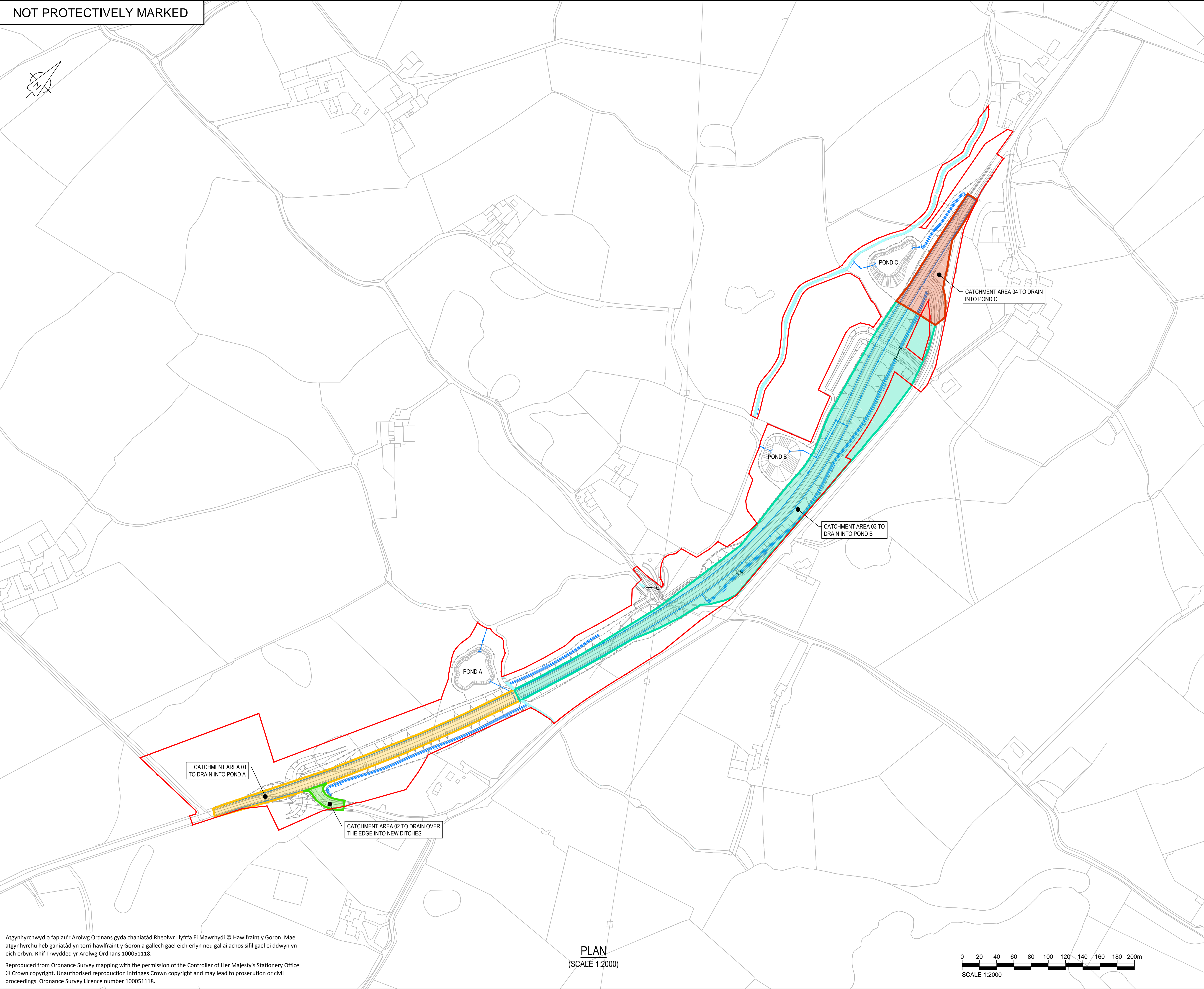
Drawing Number

WN0902-HZDCO-OHW-DRG-00056

Rev

1.0

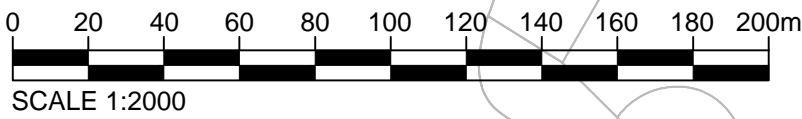
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PLAN
(SCALE 1:2000)



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 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 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
- Catchment area 01
- Catchment area 02
- Catchment area 03
- Catchment area 04

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

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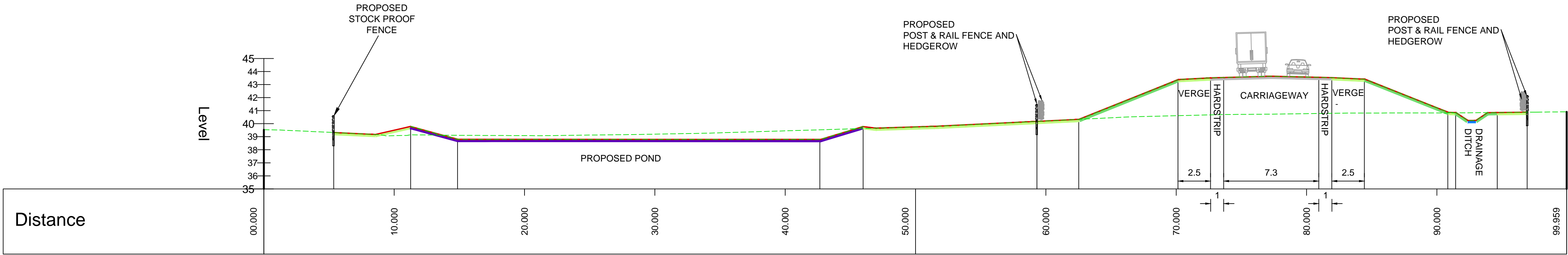
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED DRAINAGE CATCHMENT PLAN**

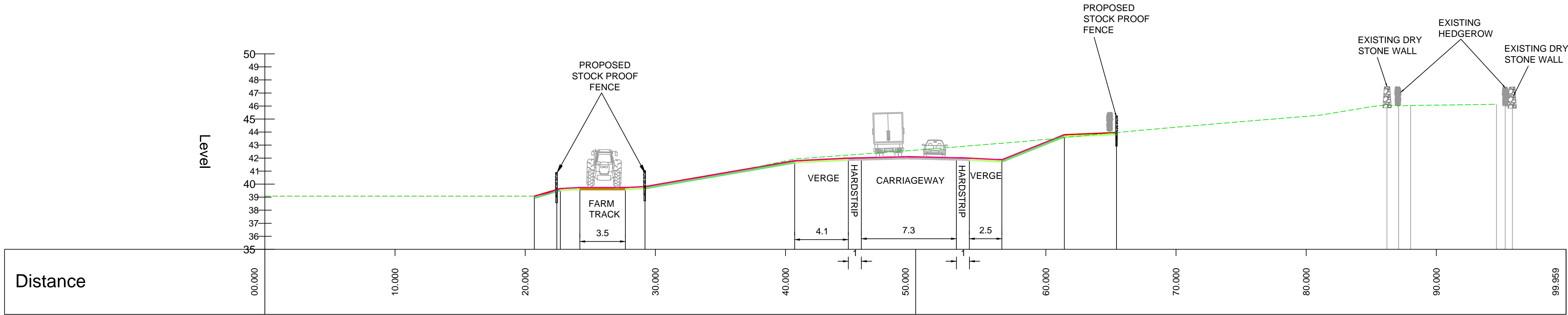
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Drawing Number					Rev
WN0902-HZDCO-OHW-DRG-00057					1.0

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PROPOSED CROSS SECTION 7A-A
(SCALE 1:200)



PROPOSED CROSS SECTION 7B-B
(SCALE 1:200)

NOTES

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

LEGEND

- Proposed levels
- Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00050 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 7 - CEFN COCH PROPOSED GENERAL ARRANGEMENT (SHEET 2)

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

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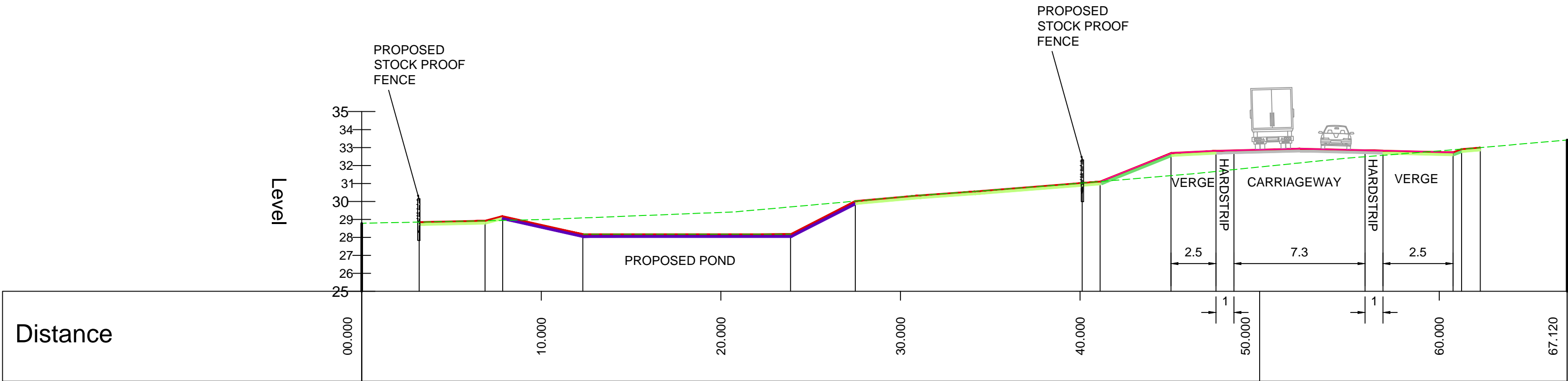
Project
**WYLFA NEWYDD
DCO PROJECT**

Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED CROSS SECTION 7A-A & 7B-B**

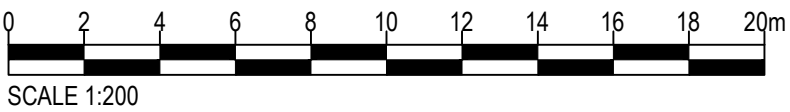
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Security Status
NOT PROTECTIVELY MARKED

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Drawing Number	WN0902-HZDCO-OHW-DRG-00058				Rev 1.0



PROPOSED CROSS SECTION 7C-C
(SCALE 1:200)



NOTES

1. All levels in metres unless stated otherwise.

2. All dimensions in metres unless stated otherwise.

3. Refer to drawing number WN0902-HZDCO-OHW-DRG-00051 for details of section locations.

LEGEND

Proposed levels

Existing levels

REFERENCE DRAWINGS

WN0902-H2DCO-OHW-DRG-00051 - A5025 OFF-LINE HIGHWAYS IMPROVEMENTS SECTION 7 - CEFN COCH 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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Project

WYLFA NEWYDD
DCO PROJECT

Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
PROPOSED CROSS SECTION 7C-C

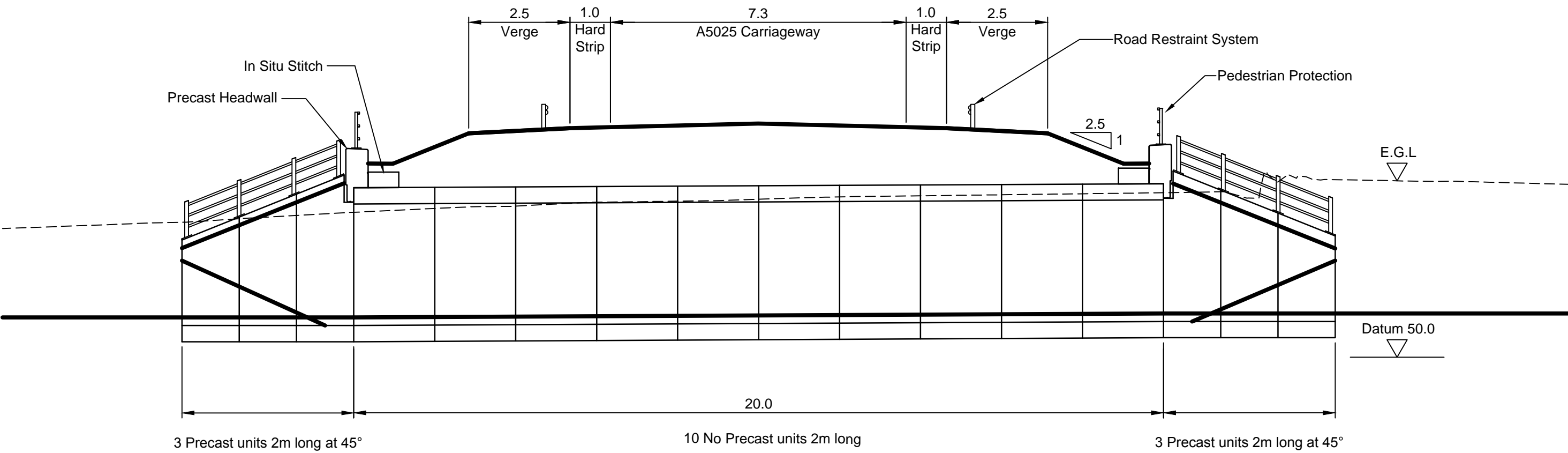
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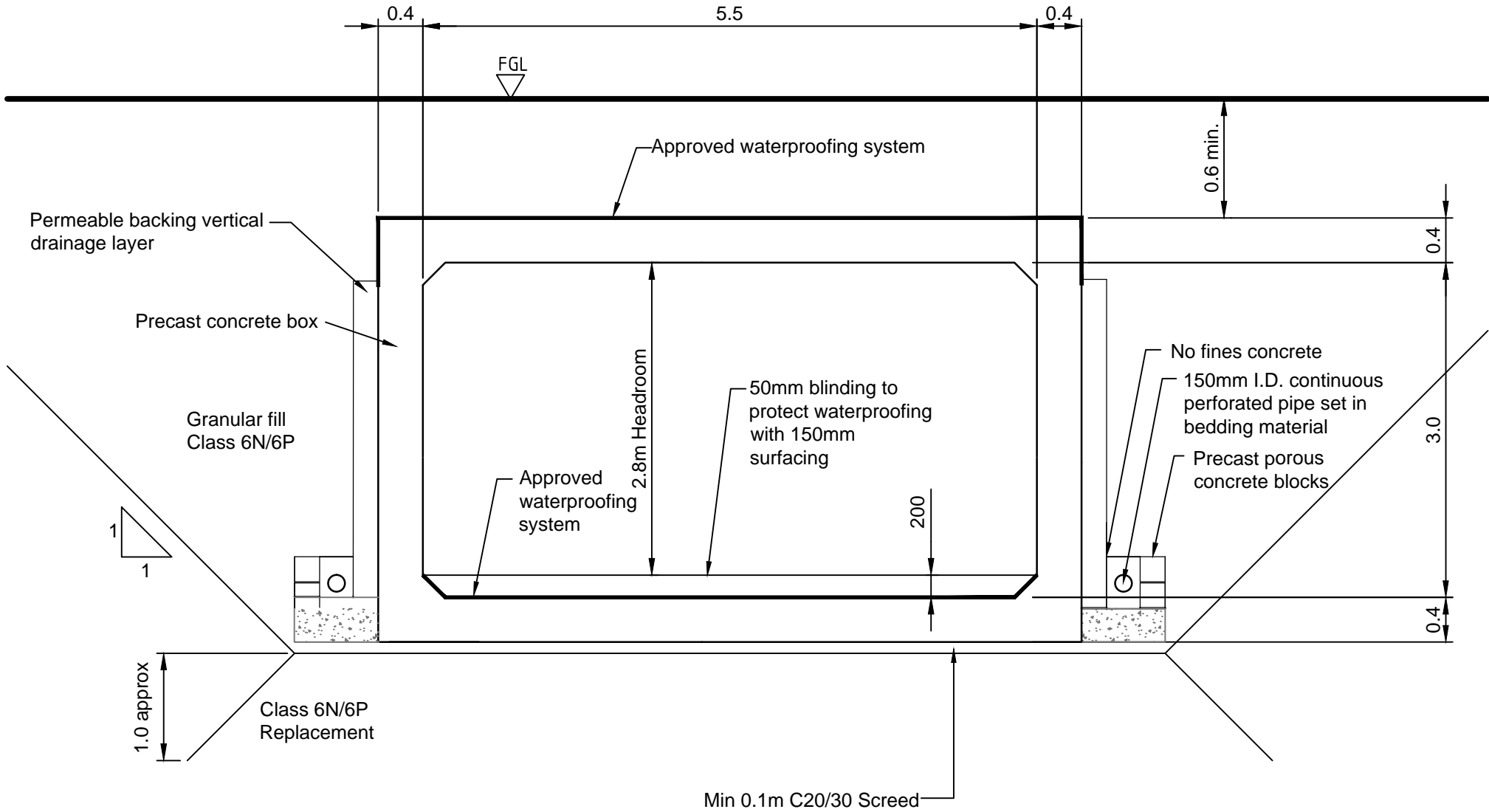
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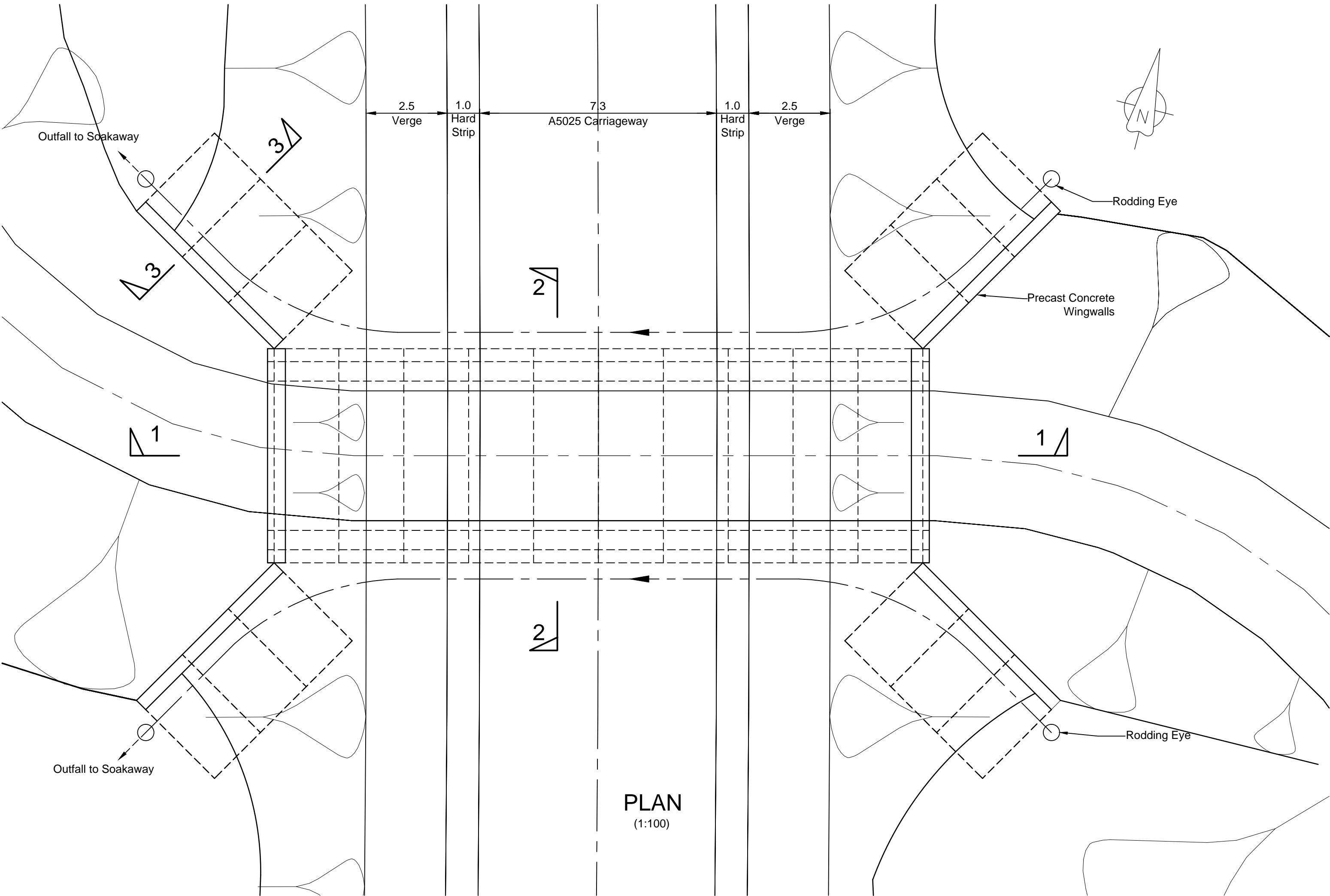
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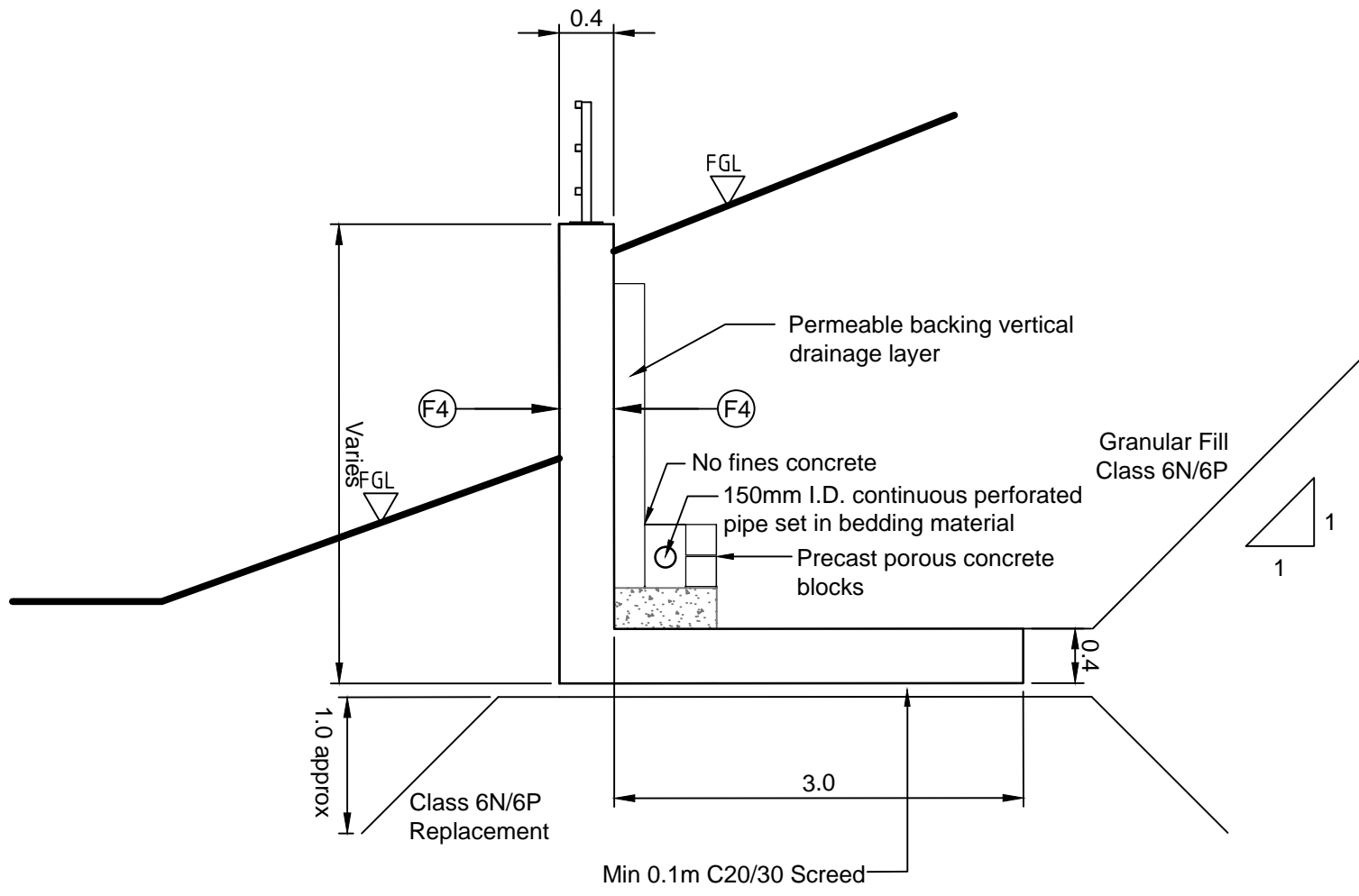
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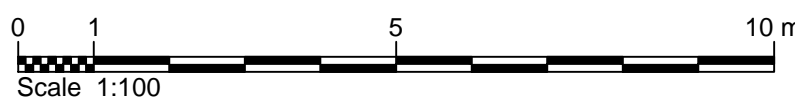
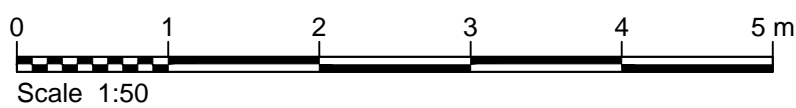
SECTION 2-2
(1:50)



PLAN
(1:100)



SECTION 3-3
(1:50)



NOTES

- All levels in metres unless stated otherwise.
- All dimensions in metres unless stated otherwise.
- All chainages and coordinates are in metres unless otherwise stated.
- Concrete strength class:
Precast box and wing walls C50/60
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

ILLUSTRATIVE

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Project
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DCO PROJECT**

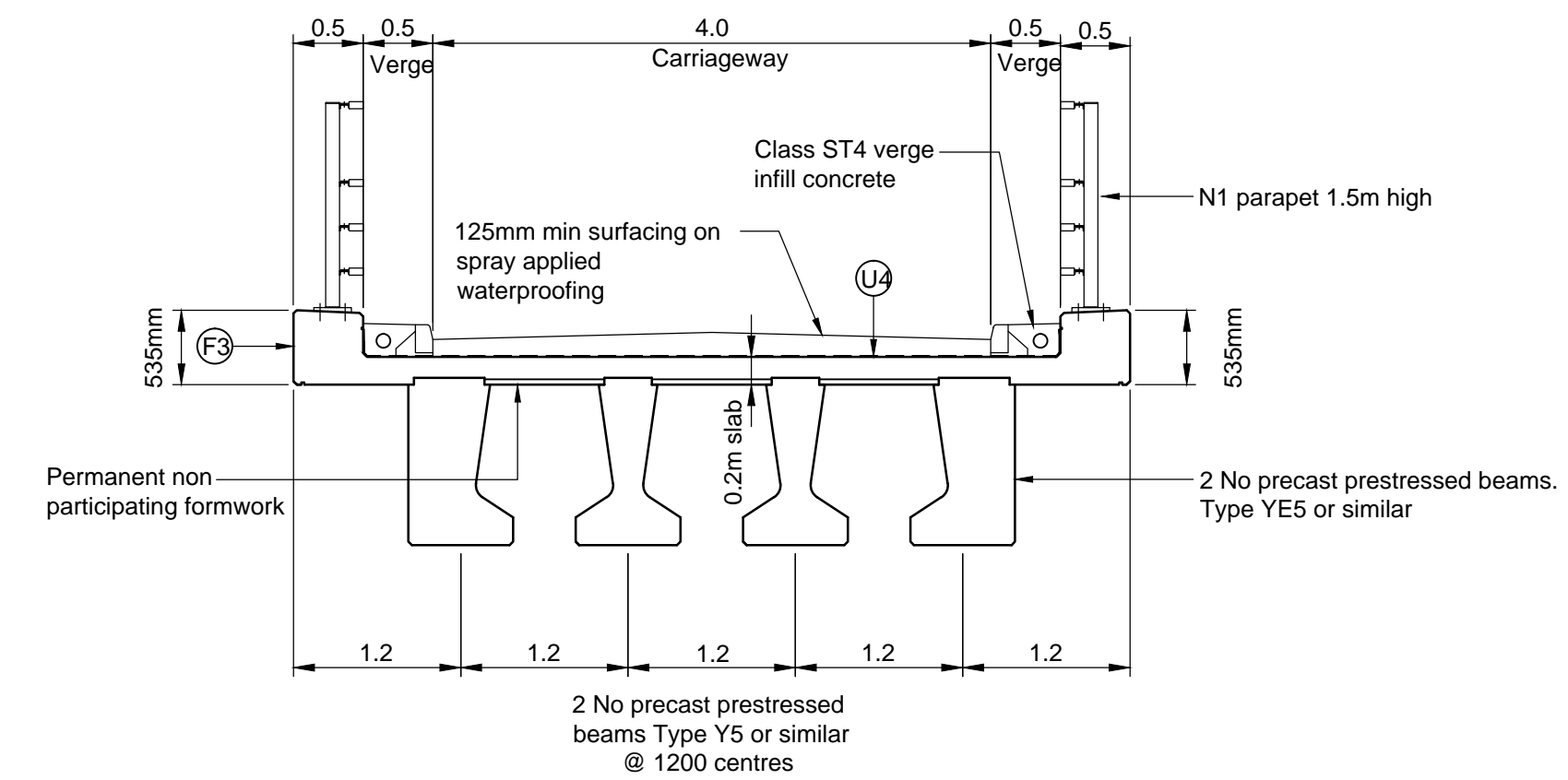
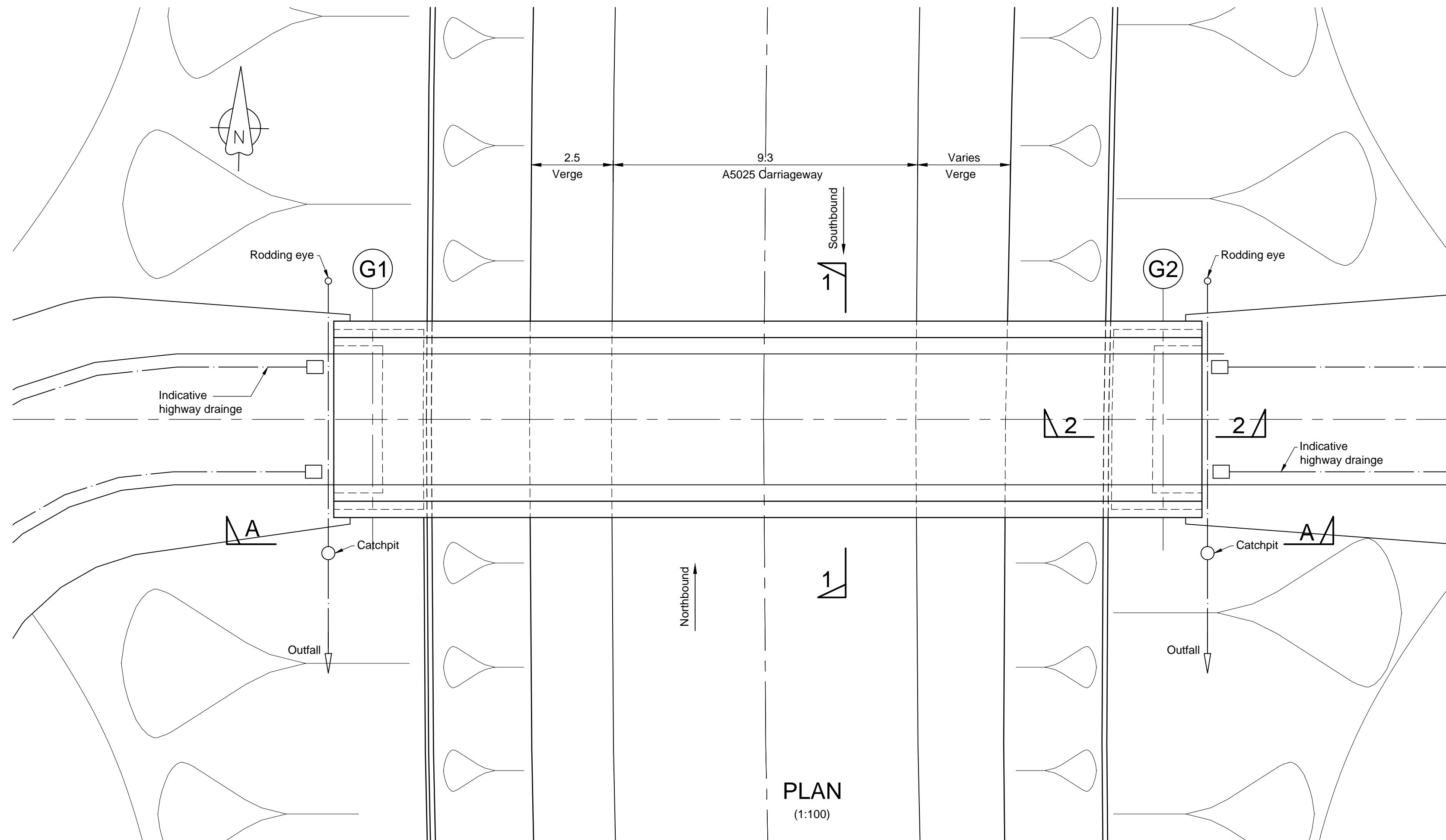
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**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
CEFN COCH UNDERPASS
GENERAL ARRANGEMENT**

Regulation 5 (2) (o)

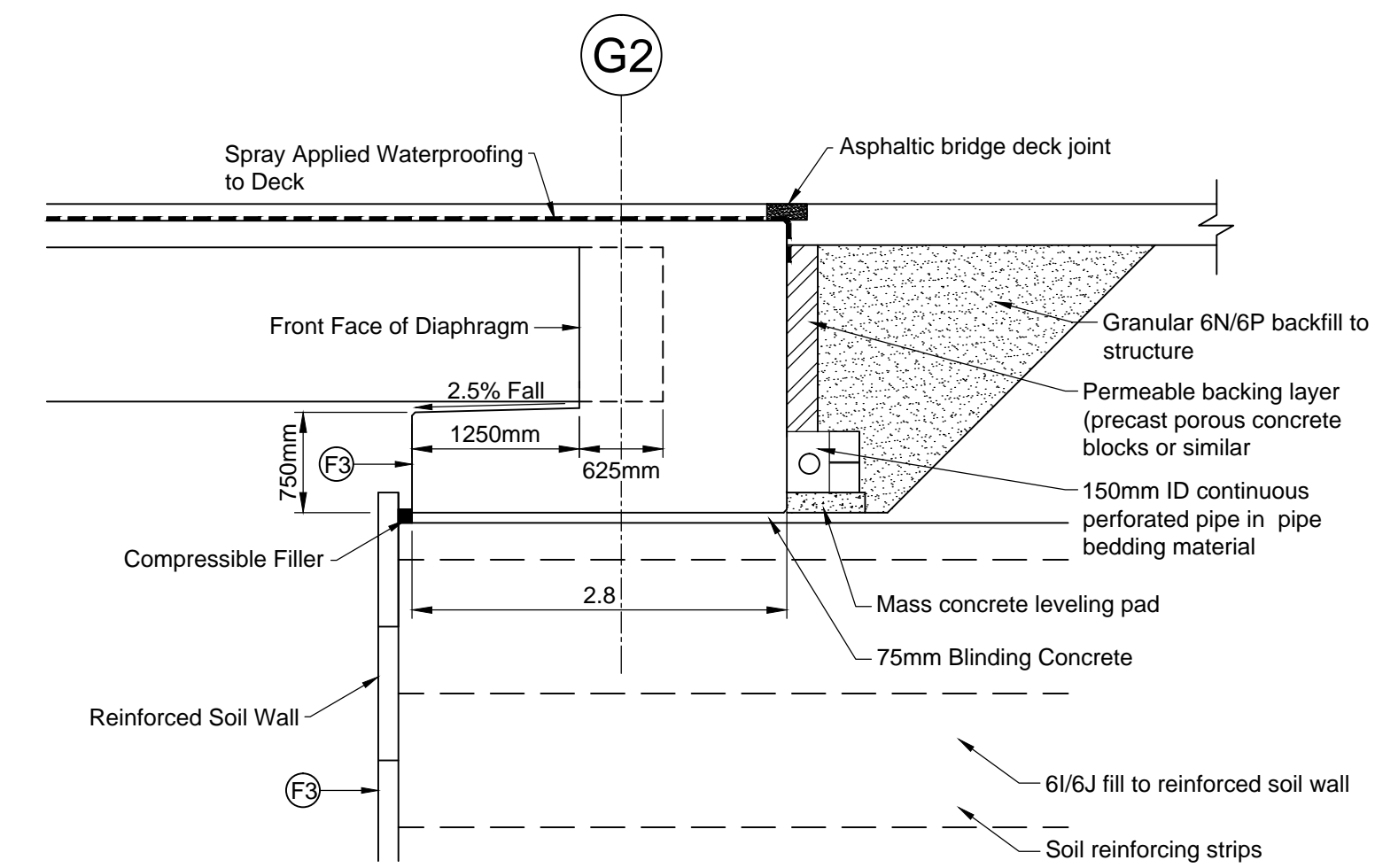
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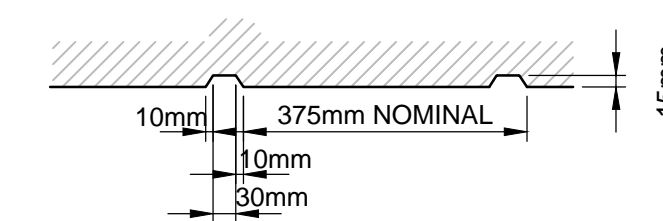
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1.0



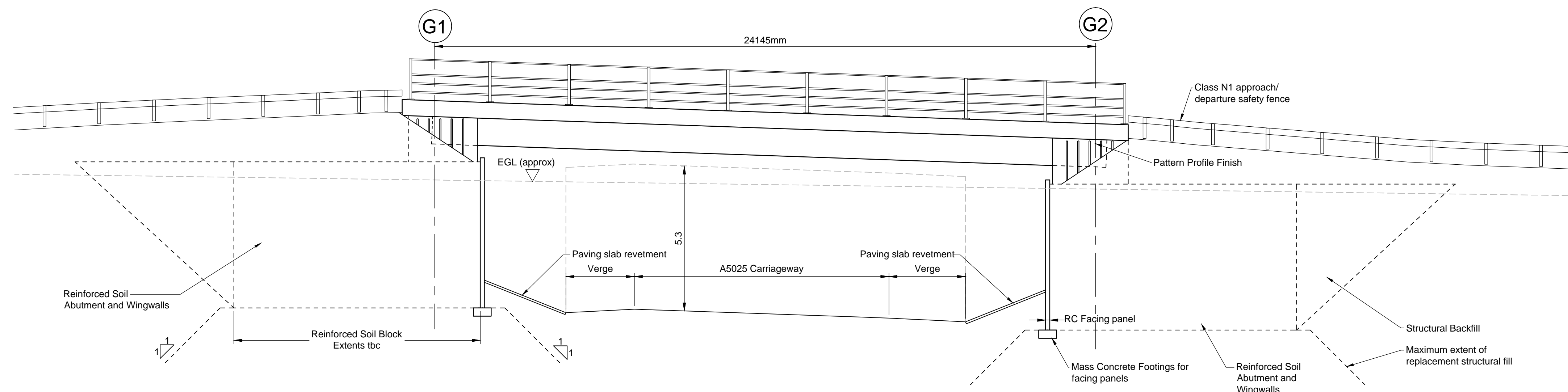
SECTION 1-1
(1:50)



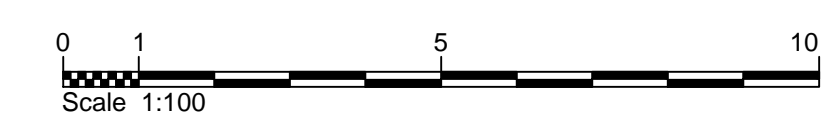
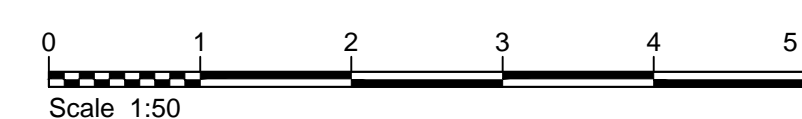
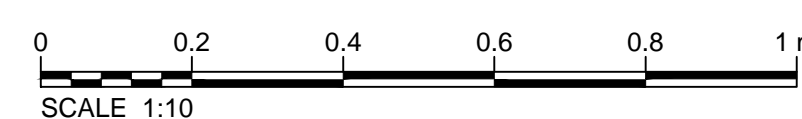
SECTION 2-2
(1:50)



PATTERNED PROFILE FINISH DETAIL



ELEVATION A-A
(1:100)



NOTES

1. All dimensions are in metres unless otherwise stated.
2. Concrete strength class:
Precast beams C40/50
Deck slab C40/50
Bank seats C40/50
Facing panels C40/50
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

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

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DCO PROJECT

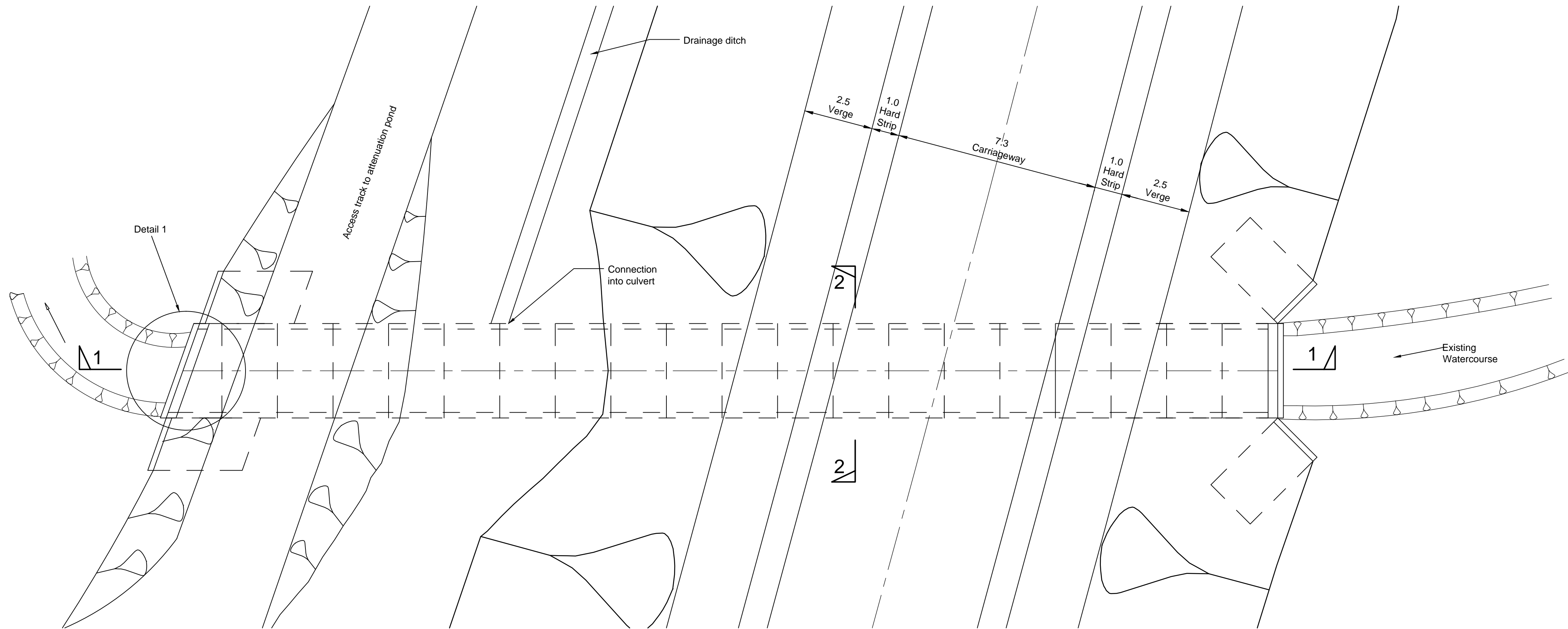
Drawing Title

A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
CEF N COCH OVERBRIDGE

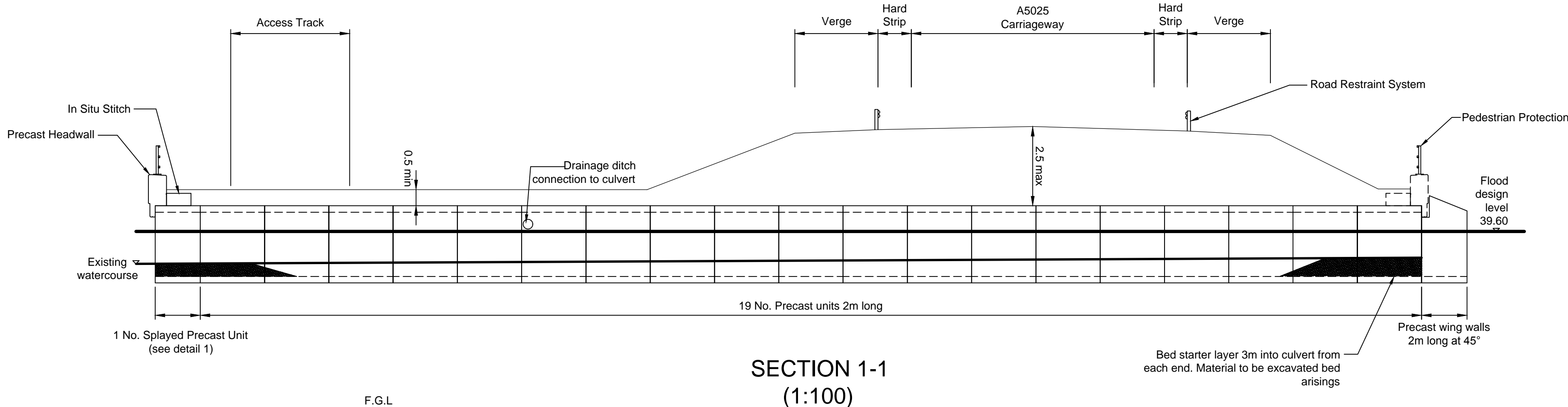
Regulation 5 (2) (o)

Security Status	NOT PROTECTIVELY MARKED
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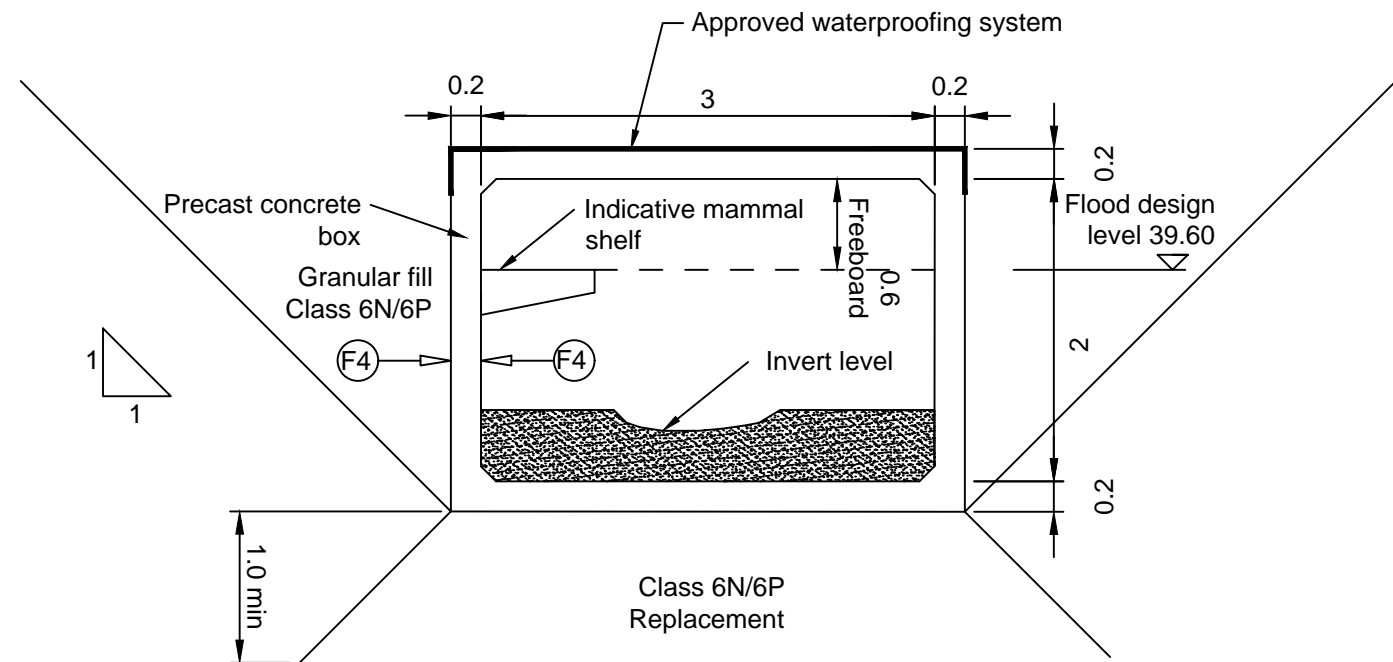
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Drawing Number WN0902-HZDCO-OHW-DRG-00061					Rev 1.0



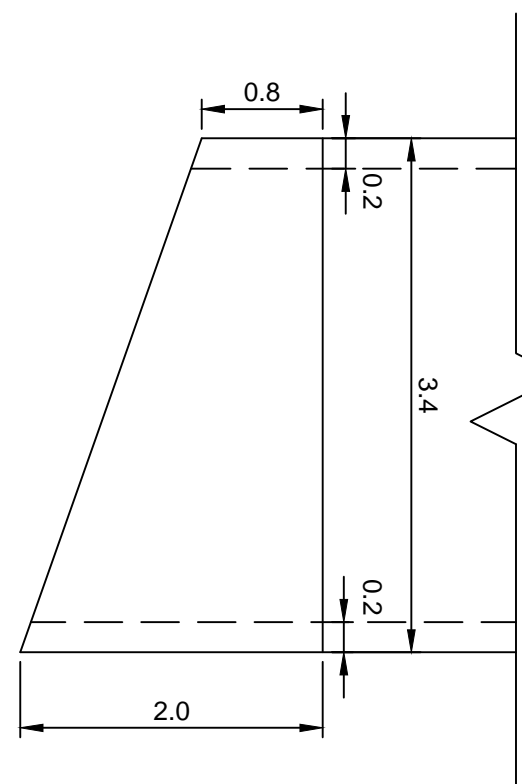
PLAN
(1:100)



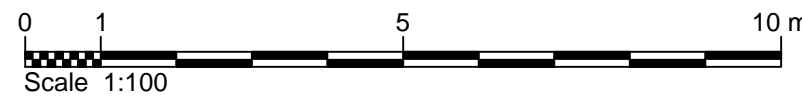
SECTION 1-1
(1:100)



SECTION 2-2
(1:50)



DETAIL 1
(1:50)



NOTES

- All levels in metres unless stated otherwise.
- All dimensions in metres unless stated otherwise.
- All chainages and coordinates are in metres unless otherwise stated.
- Concrete strength class:
Precast box and wing walls C50/60
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
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DCO PROJECT**

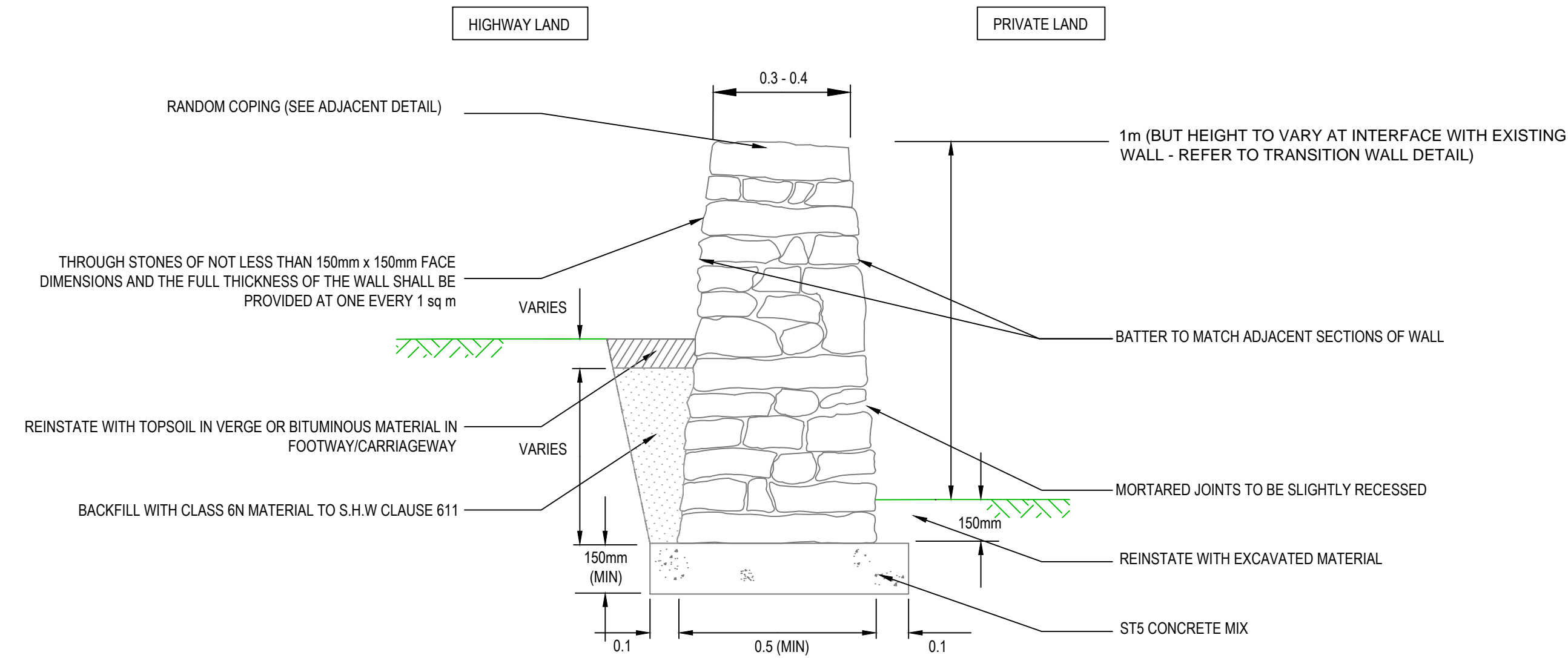
Drawing Title
**A5025 OFF-LINE HIGHWAY IMPROVEMENTS
SECTION 7 - CEFN COCH
CEFN COCH CULVERT
GENERAL ARRANGEMENT
Regulation 5 (2) (o)**

Security Status
NOT PROTECTIVELY MARKED

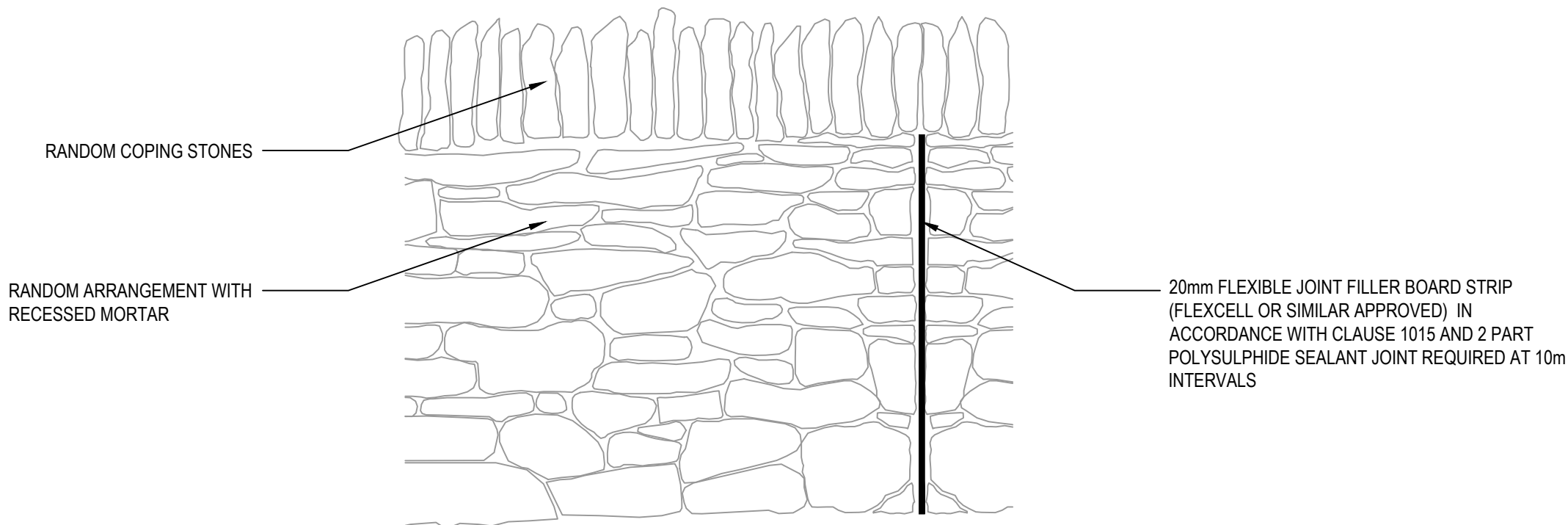
Scale AS SHOWN Sheet Size A1 Sheet(s) 1 of 1

Drawing Number
WN0902-HZDCO-OHW-DRG-00062 Rev
1.0

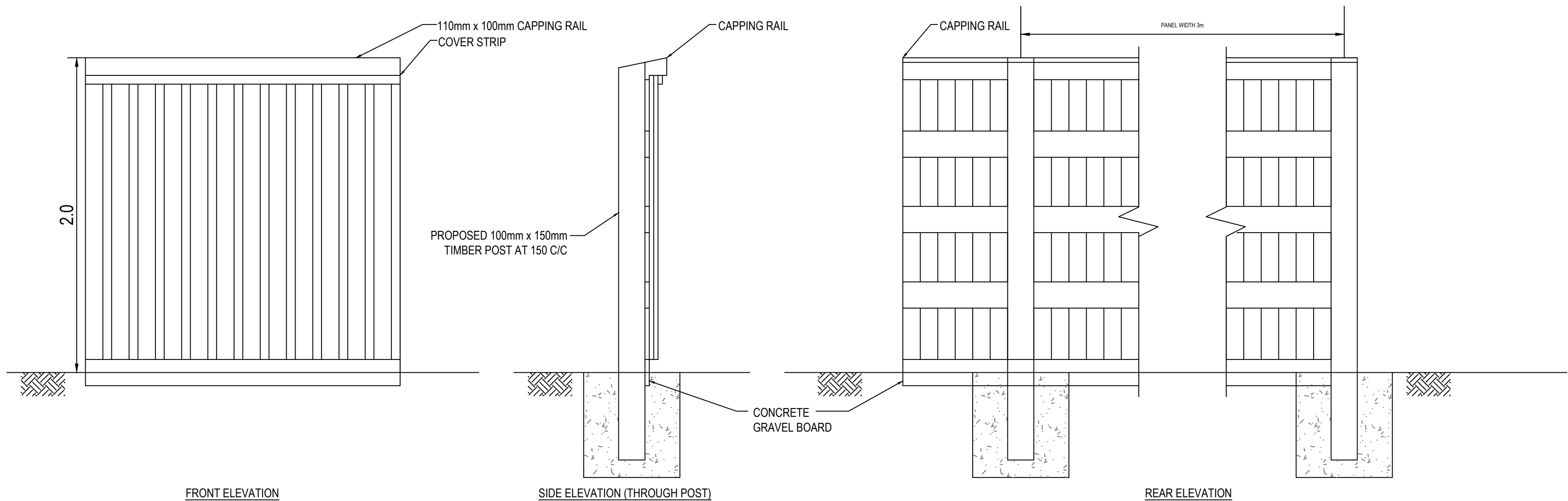
1. All dimensions in metres unless stated otherwise.
2. Only written dimensions are to be used.
3. All timber post & rail fences and timber post & wire fences to have 2 barbed wire strands.
4. For details of timber post & wire fences refer to DMRB MCHW standard detail H1.
4. For details of timber post & 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)

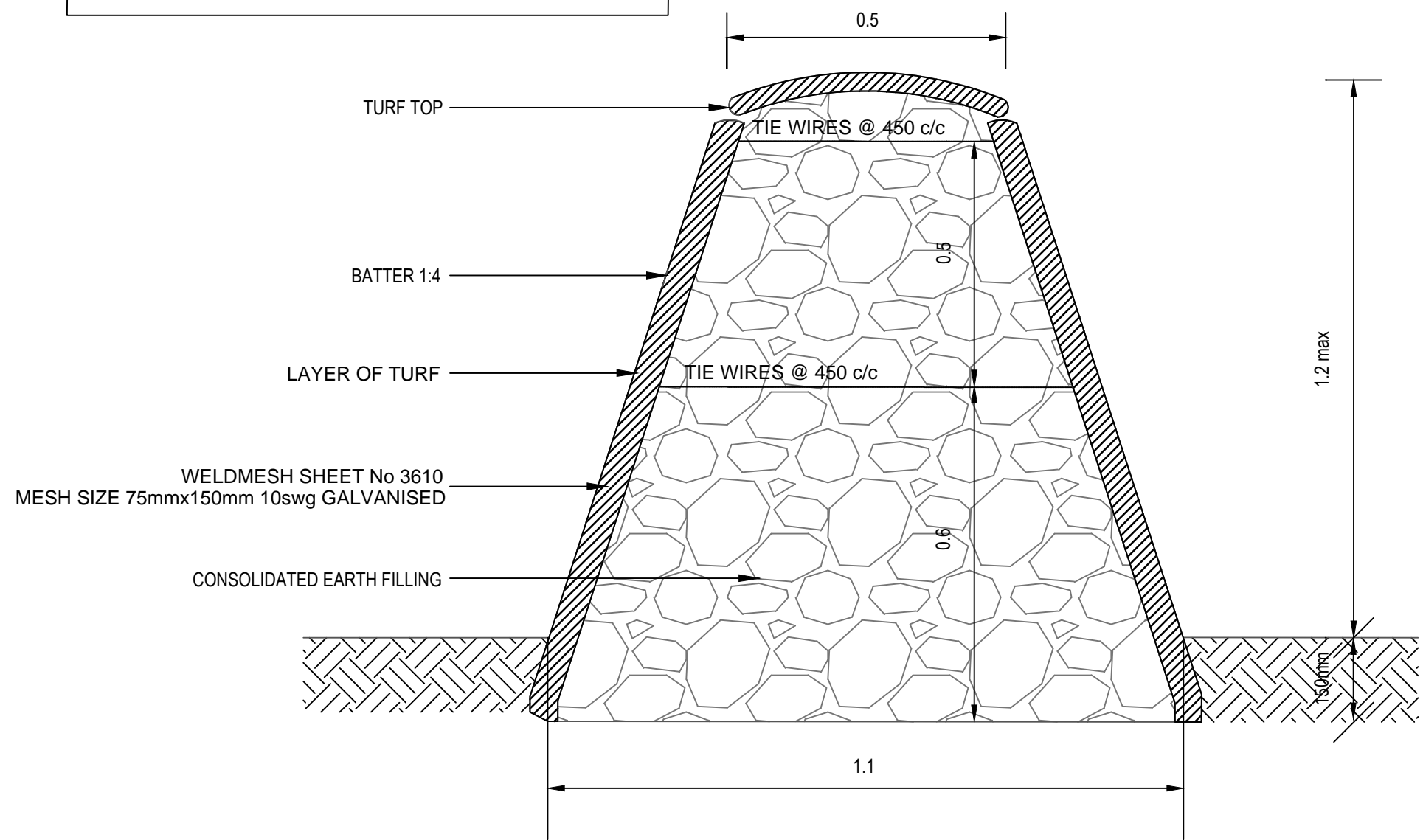


SIDE ELEVATION (THROUGH POST)

REAR ELEVATION

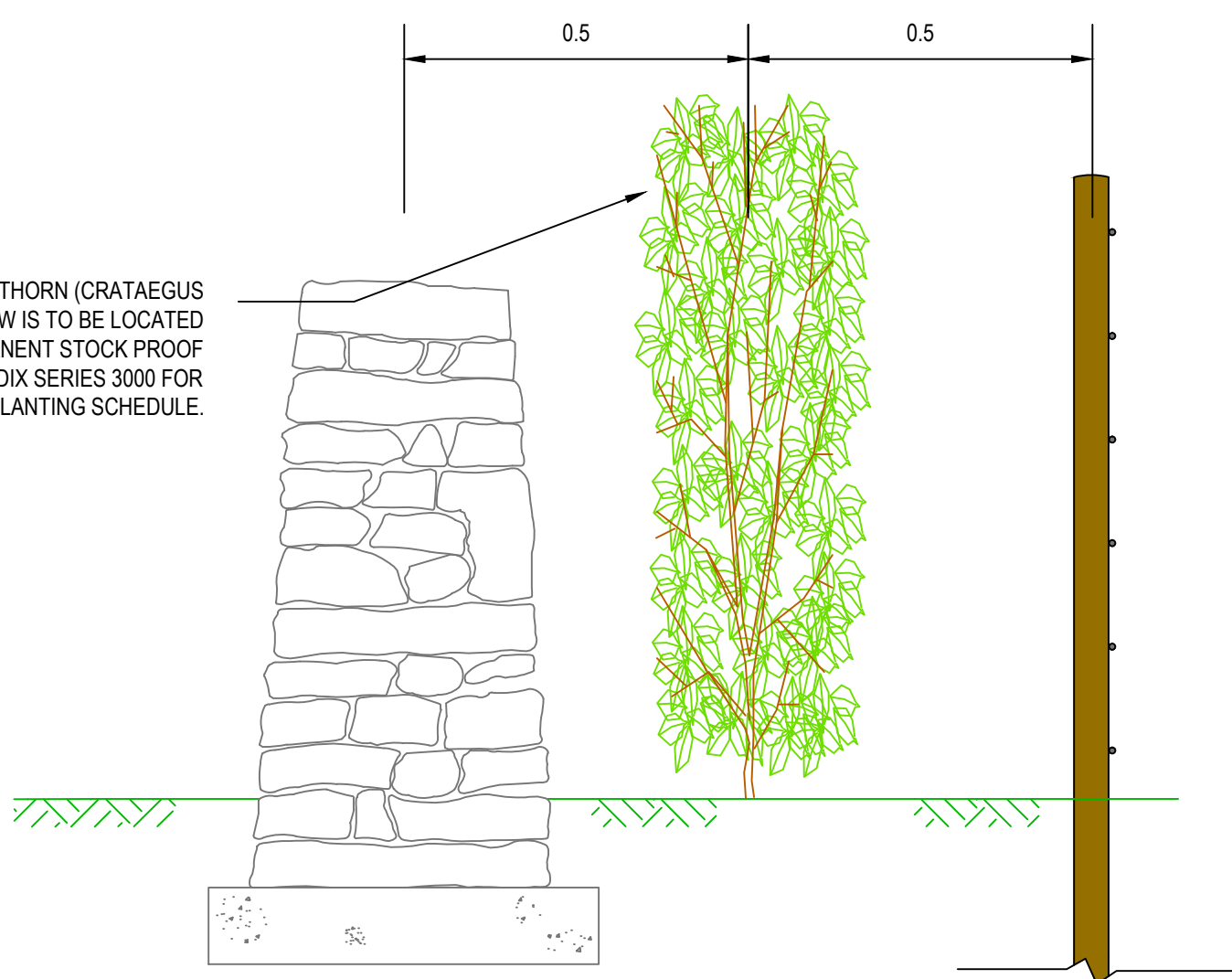
PROPOSED 2.0m NOISEWALL SINGLE SIDED REFLECTIVE TIMBER SOUND SCREEN (Not to Scale)

NOTE:
WHERE REQUIRED, HEDGE TO BE QUICKTHORN HEDGING PLANTED AT 450mm CENTRES



PROPOSED EARTHBANK (Not to Scale)

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.



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

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
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	WN0902-HZDCO-OHW-DRG-00068				Rev 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:

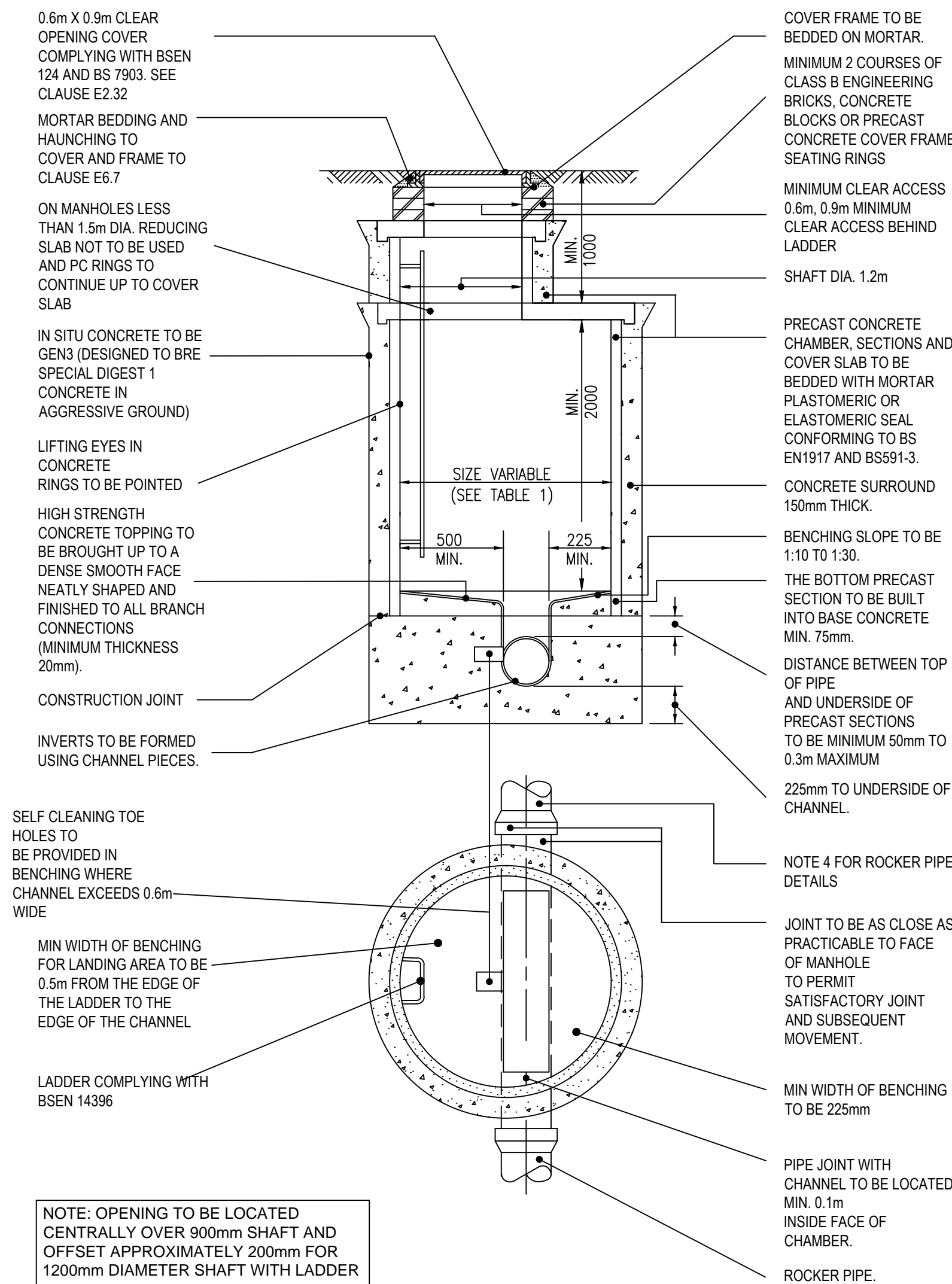
Table 1 rocker pipe lengths

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

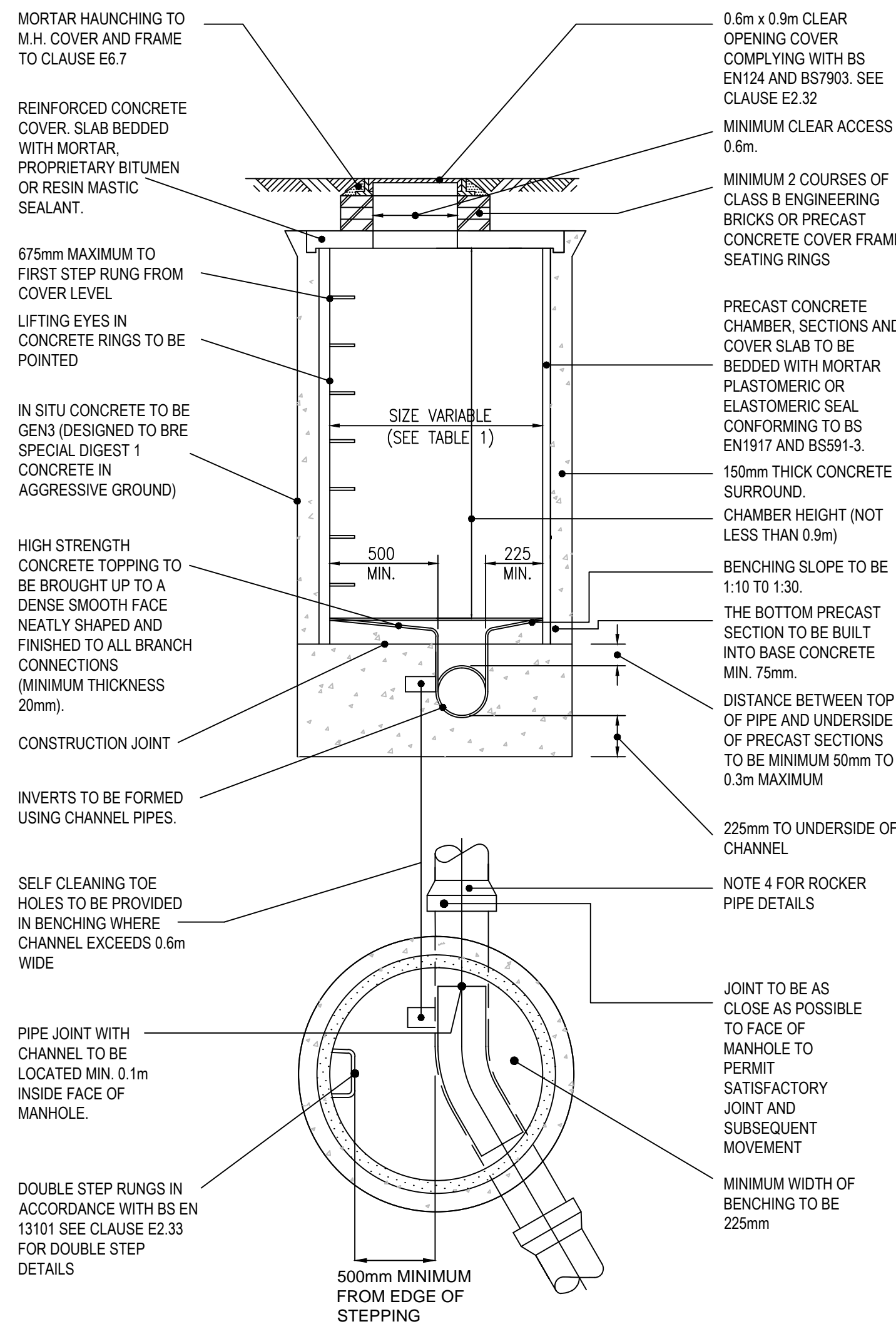
6. Only written dimensions are to be used.
7. Concrete benching and pipe surround shall be placed in single continuous operation from top of base slab.
8. Surface water connections shall be constructed with soffits level unless shown otherwise.
9. Cut ends of reinforced concrete pipes shall be treated 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
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Apprv'd

FOR INFORMATION

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