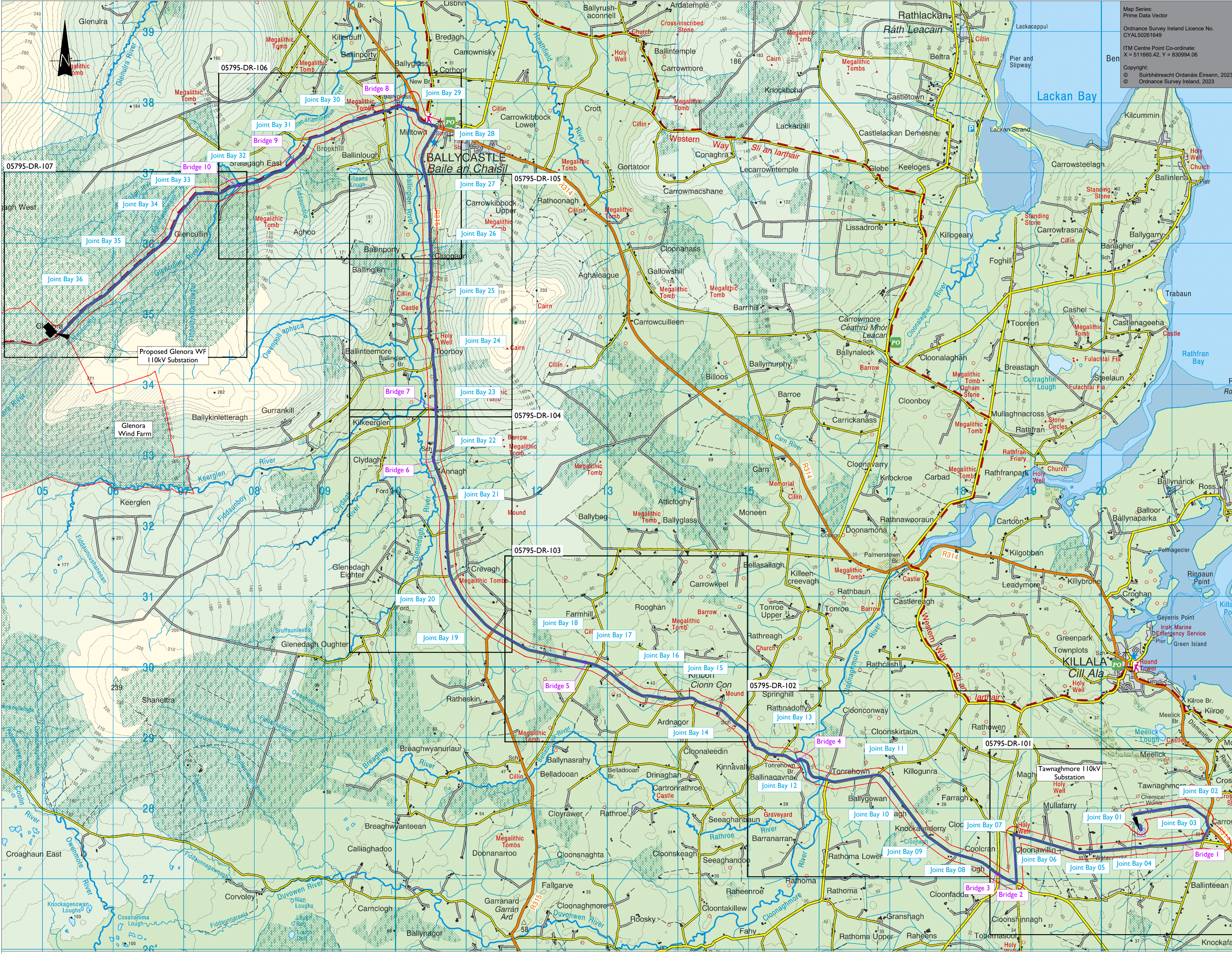


ISO A1 594mm x 841mm
 Project Management Initials: Designer: JC
 Checked: PCS
 Approved: GH



Overall Site Location Map

SCALE : 1 : 25,000

tli GROUP

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PROJECT

**Glenora Wind Farm
 110kV Grid Connection**

CLIENT

FuturaEnergy

**SSE
 Renewables**

CONSULTANTS

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- NOTES:**
- All proposed routes shown are for EIAR screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND:

- UGC Route (Aprox 28.048km) [Thick blue line]
- EIAR Assessment Area [Thin red line]
- Joint Bay Locations shown thus [Blue square]
- Bridges [Pink rectangle]
- Tawnaghmore 110kV Substation [Purple square]

ISSUE/REVISION

NO	DATE	DESCRIPTION
F04	01.11.23	Issued for Information
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

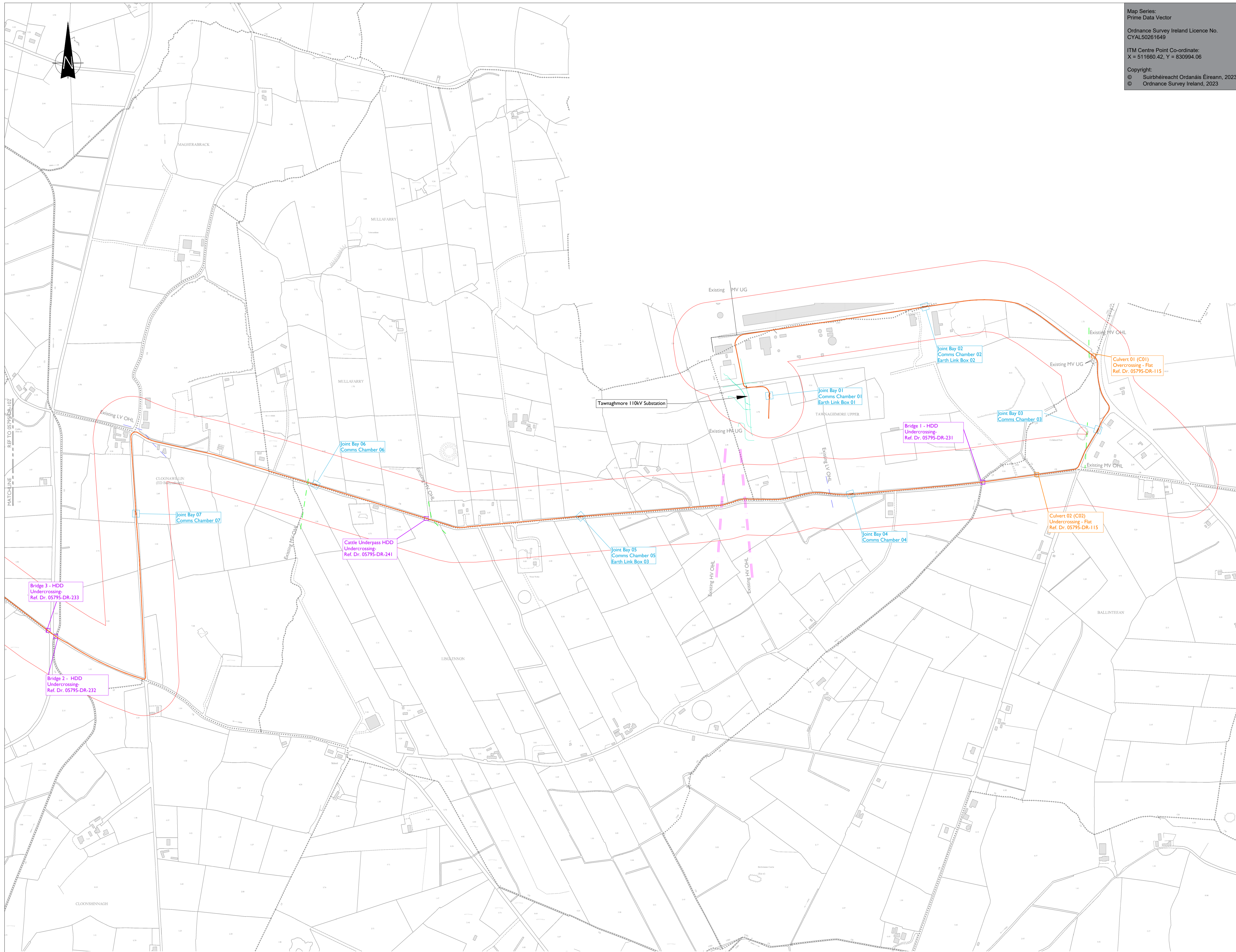
05-795

SHEET TITLE

Overall Site Location Map

SHEET NUMBER

05795-DR-100



Map Series:
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PROJECT

Glenora Wind Farm 110kV Grid Connection

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- NOTES: -
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Aprox 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
HV OH ESB Network shown thus	
HV UG ESB Network shown thus	
MV UG ESB Network shown thus	
Monuments & Zones of Notification shown thus	

ISSUE/REVISION

I/R	DATE	DESCRIPTION
F04	01.11.23	Issued for Information
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
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PROJECT NUMBER
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SHEET TITLE
Site Layout Plan
Sheet 1 of 7

SHEET NUMBER
05795-DR-101



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PROJECT

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- NOTES:-
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND:-

UGC Route (Aprox 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
MV UG ESB Network shown thus	
Momuments & Zones of Notification shown thus	

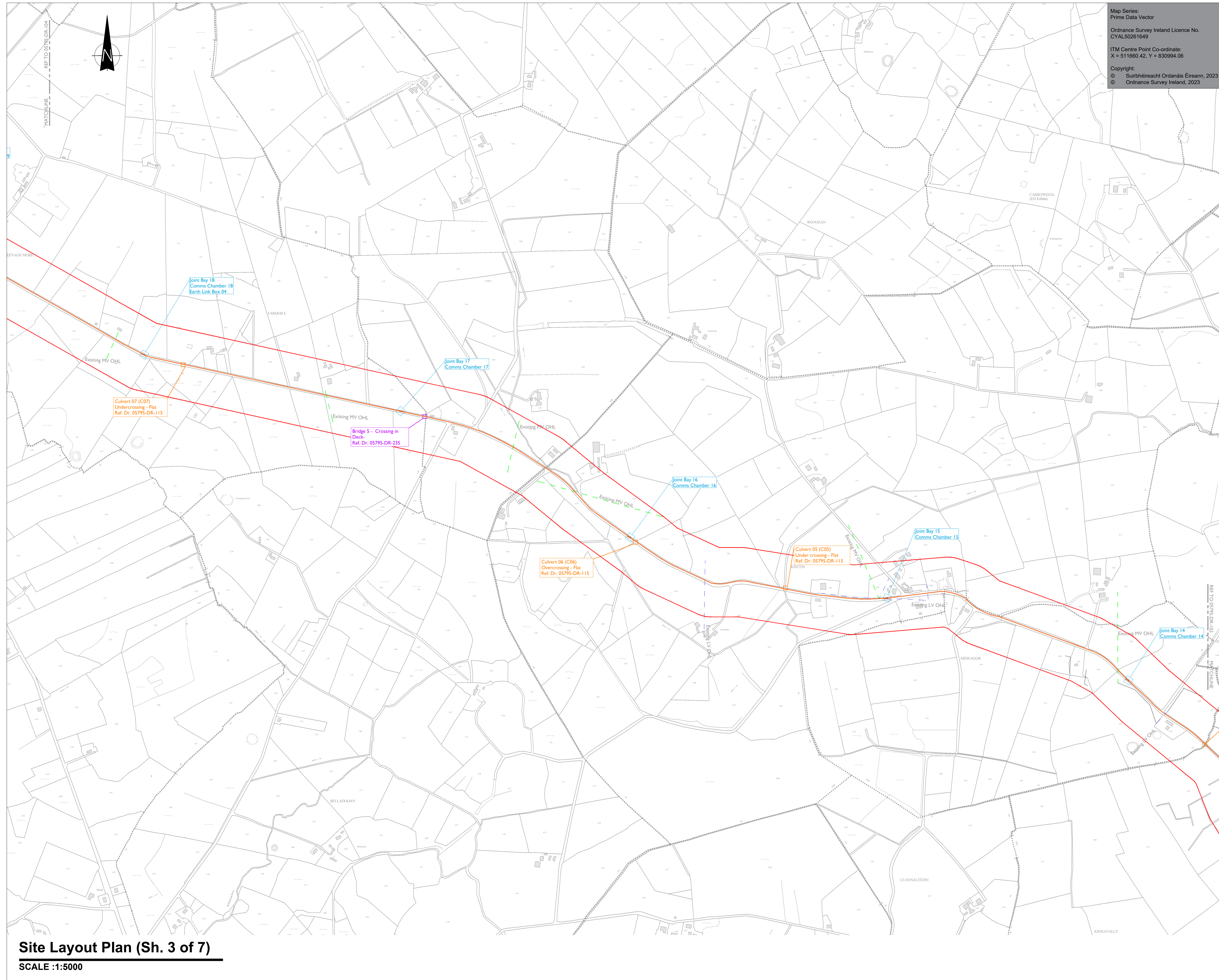
ISSUE/REVISION

NO	DATE	DESCRIPTION
F03	01.11.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
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SHEET TITLE
Site Layout Plan
Sheet 2 of 7

SHEET NUMBER
05795-DR-102



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PROJECT
Glenora Wind Farm
110kV Grid Connection

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- NOTES: -**
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Approx 28.048km)	
EIA Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
MV UG ESB Network shown thus	
Monuments & Zones of Notification shown thus	

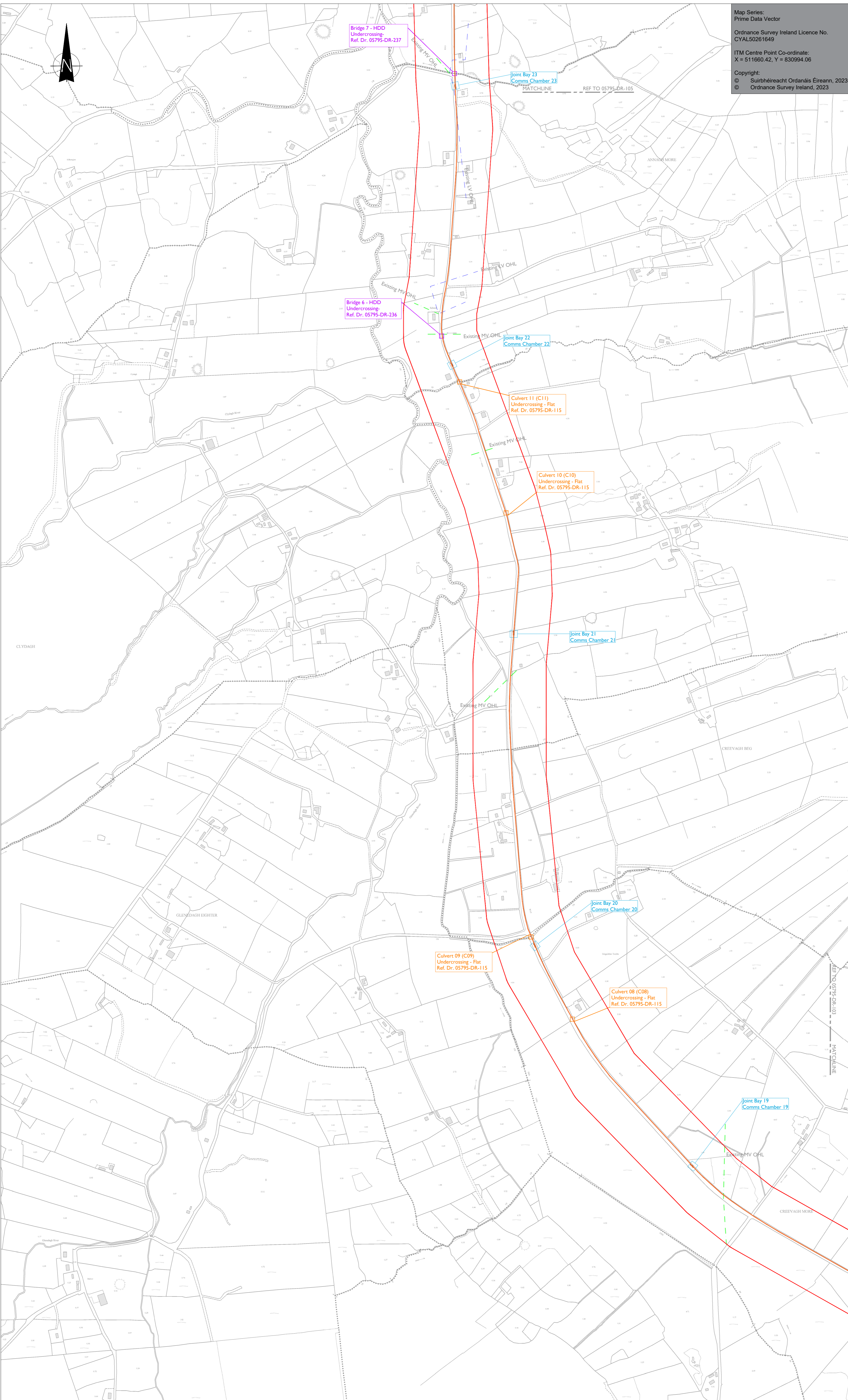
ISSUE/REVISION

NO.	DATE	DESCRIPTION
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
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05-795

SHEET TITLE
Site Layout Plan
Sheet 3 of 7

SHEET NUMBER
05795-DR-103



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LEGEND: -

UGC Route (Approx 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	

NOTES: -

- All proposed routes shown are for EIAR screening only at this stage and are subject to further assessment.
- Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
- Other services may be encountered along the route.

tli GROUP

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PROJECT

Glenora Wind Farm 110kV Grid Connection

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F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
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05-795

SHEET TITLE
Site Layout Plan
Sheet 4 of 7

SHEET NUMBER
05795-DR-104



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LEGEND: -

UGC Route (Approx 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	

- NOTES: -**
- All proposed routes shown are for EIAR screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

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PROJECT

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F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-795

SHEET TITLE

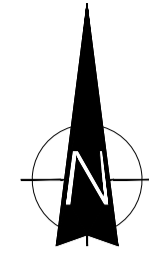
Site Layout Plan
Sheet 5 of 7

SHEET NUMBER

05795-DR-105

Site Layout Plan (Sh. 5 of 7)

SCALE :1:5000



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PROJECT

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- NOTES: -
- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
 - Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
 - Other services may be encountered along the route.

LEGEND: -

UGC Route (Aprox 28.048km)	
EIAR Assessment Area	
River & Lake Network	
Joint Bay Locations shown thus	
Bridge Locations shown thus	
Culvert Locations shown thus	
LV OH ESB Network shown thus	
MV OH ESB Network shown thus	
Momuments & Zones of Notification shown thus	

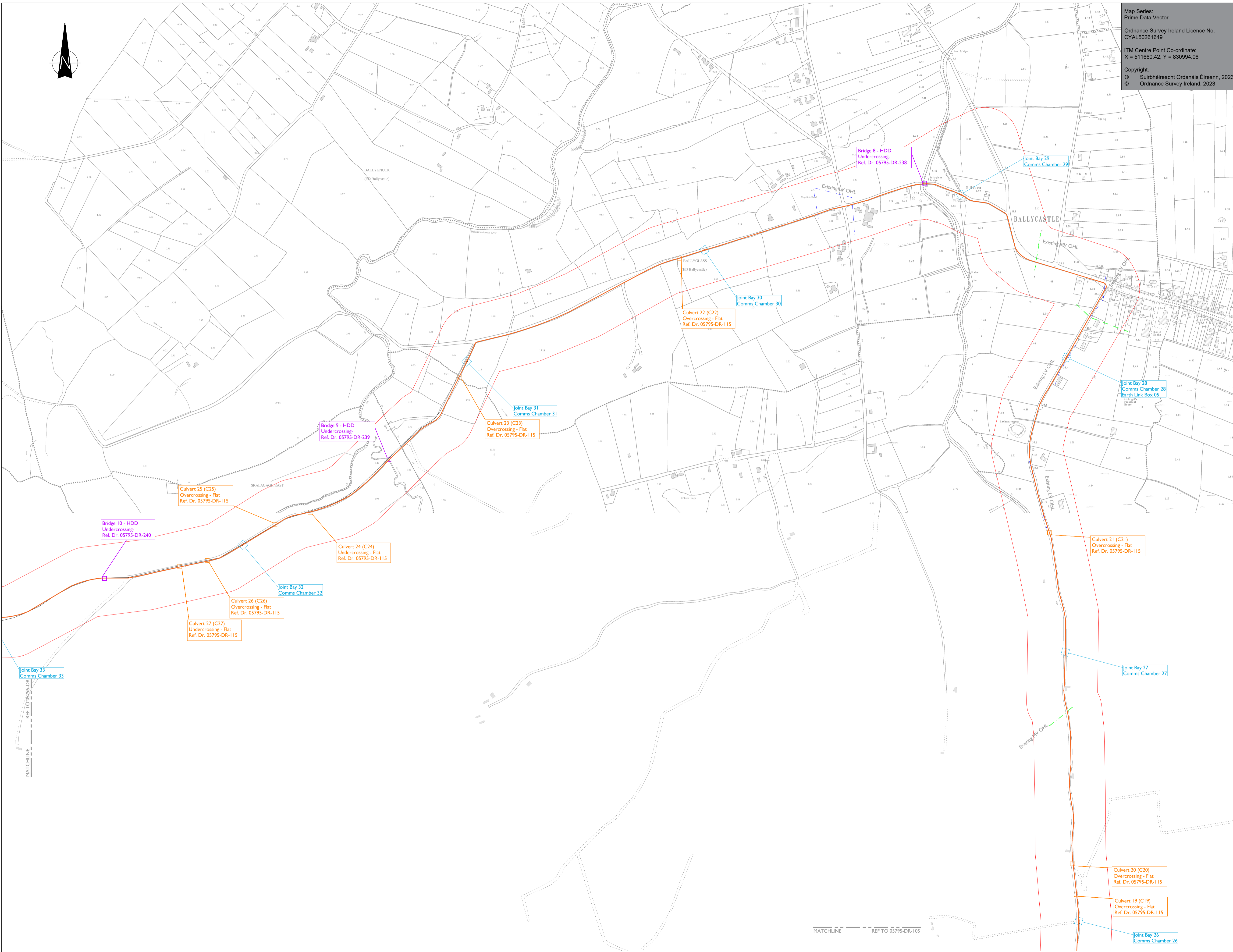
ISSUE/REVISION

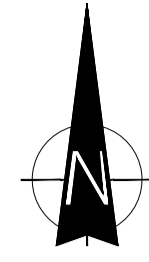
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F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information

PROJECT NUMBER
05-795

SHEET TITLE
Site Layout Plan
Sheet 6 of 7

SHEET NUMBER
05795-DR-106





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PROJECT

**Glenora Wind Farm
110kV Grid Connection**

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CONSULTANTS



NOTES: -

- All proposed routes shown are for EIA screening only at this stage and are subject to further assessment.
- Path of cable route and location of associated Joint Bays, Link Boxes and Comms Chambers may vary depending on site conditions.
- Other services may be encountered along the route.

LEGEND: -

- UGC Route (Aprox 28.048km)
- EIAR Assessment Area
- Glenora Wind Farm
- River & Lake Network
- Joint Bay Locations shown thus
- Culvert Locations shown thus
- Turbine Falling Distance

ISSUE/REVISION

I/R	DATE	DESCRIPTION
F03	27.06.23	Issued for Information
F02	01.07.22	Issued for Information
F01	03.06.21	Issued for Information
F00	13.05.21	Issued for Information

PROJECT NUMBER

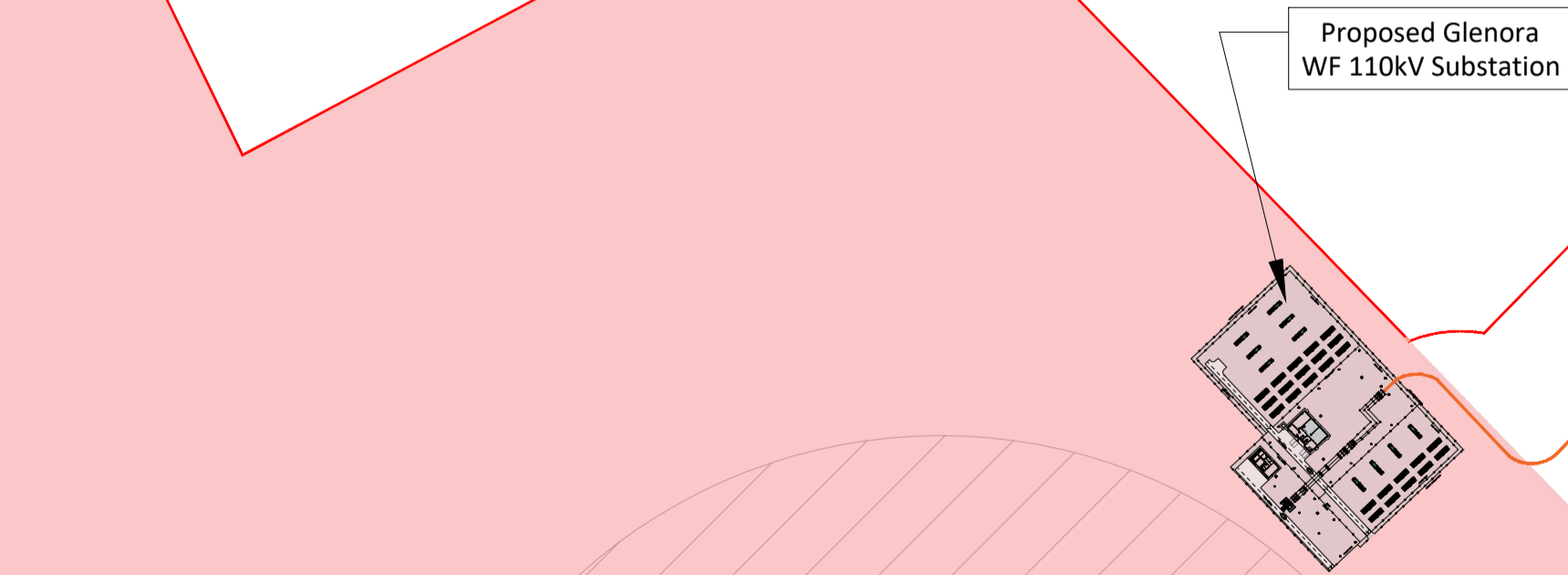
05-795

SHEET TITLE

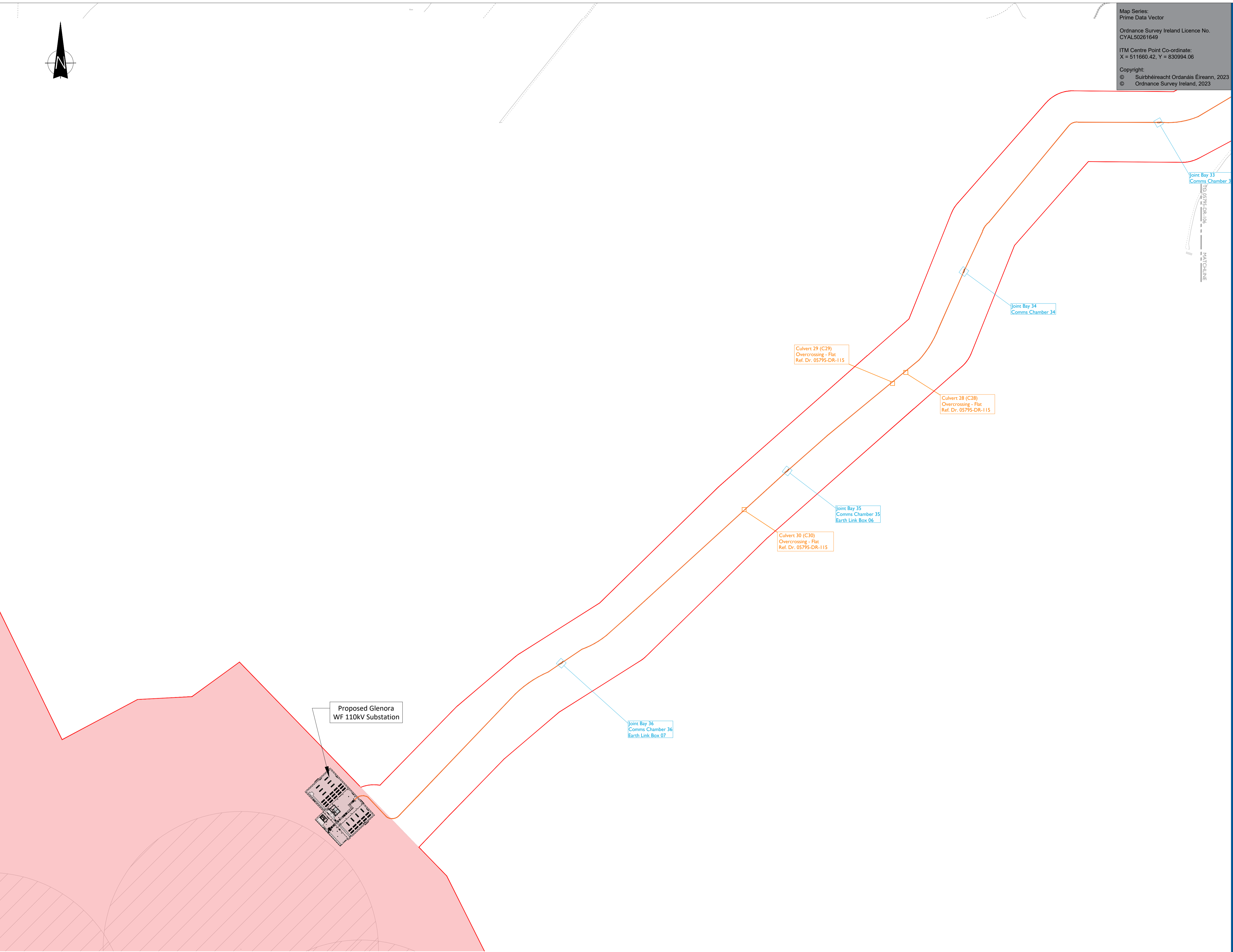
Site Layout Plan
Sheet 7 of 7

SHEET NUMBER

05795-DR-107

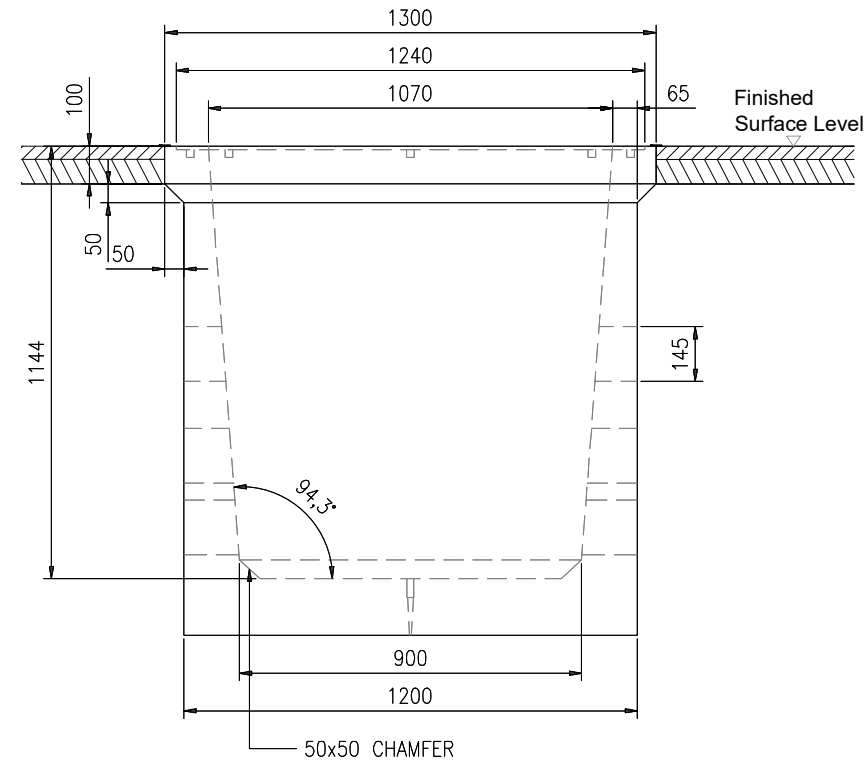


Site Layout Plan (Sh. 7 of 7)
SCALE :1:5000

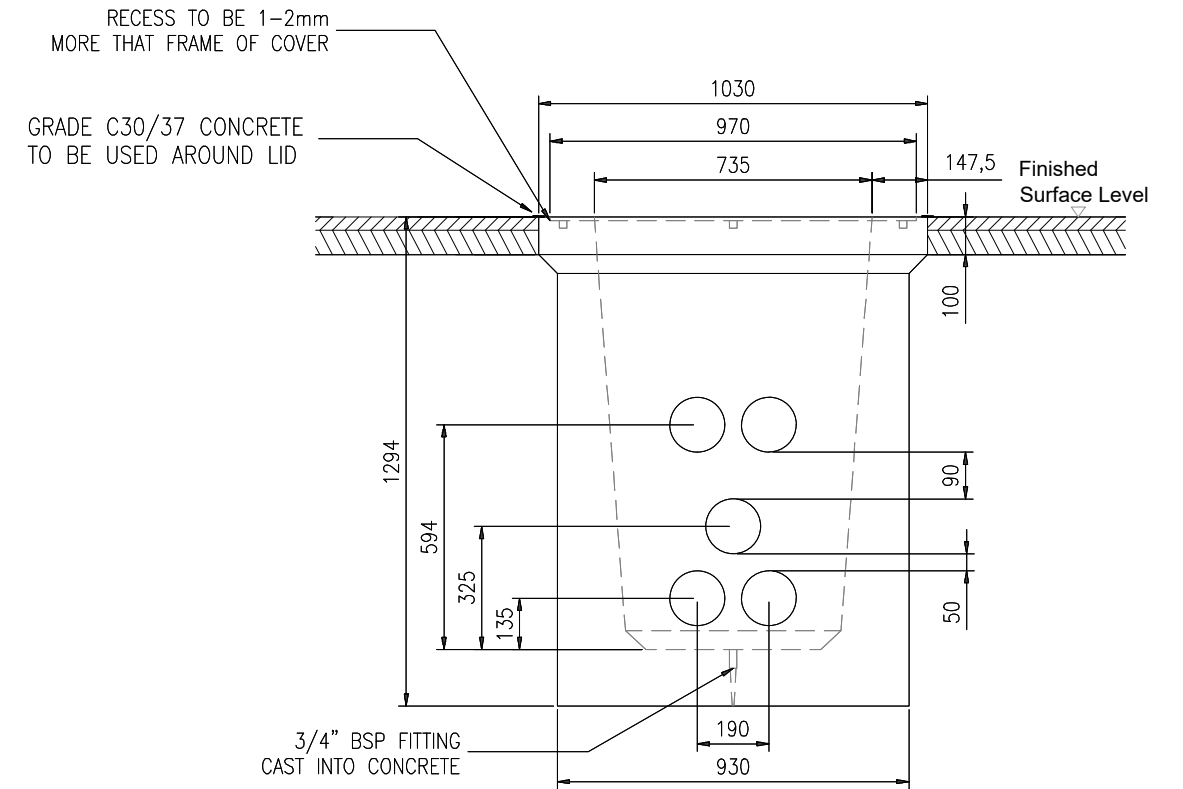


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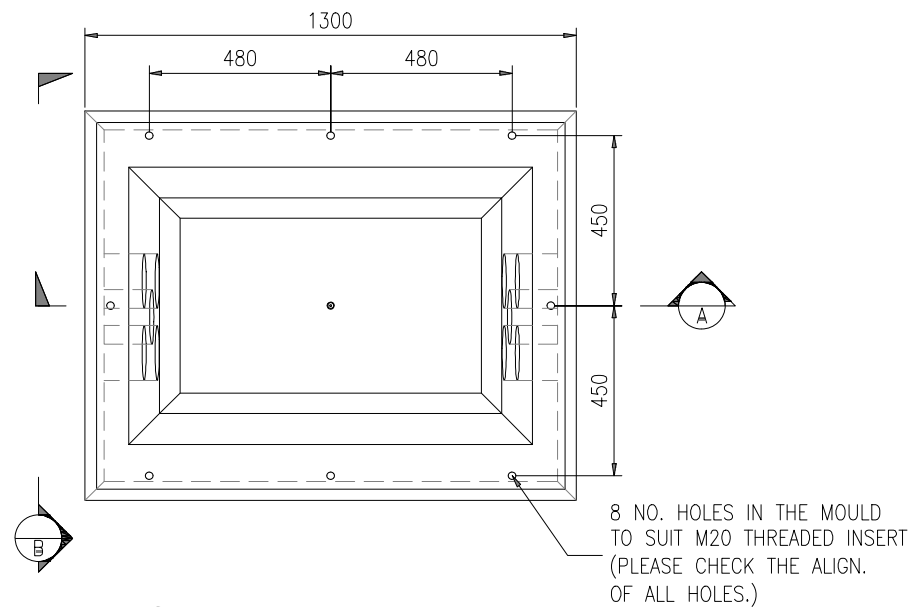
1. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
2. Dimensions are in millimetres, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. Reinstatement to comply with requirements of the relevant local Authority/Asset owner
5. Entrance & Exit ducts to be in line
6. All material and workmanship to be in accordance with the NRA./TII specification for Roadworks, May 2005 and subsequent revisions
7. Reinforced concrete to be a minimum grade C32/40, Sulphate resisting cement to be used where aggressive soil conditions apply, refer to table 6.1 of B.S. 8110.
8. Carraigeway covers and frames to be to B.S. 124.
9. All covers to have ESB logo incorporated in them to the approval of Eirgrid
10. Step irons to be hot dipped galvanized to B.S. 729 and positioned as shown on any chamber deeper than 700mm on the end remote from any side entry duct.
11. Concrete precast chamber and cover should be tested through a 5 point 40 tonnes vertical static loading test by an independent test company, if required, further details will be provided by Eirgrid.
12. Final position of C2 chambers shall be agreed with Eirgrid.
13. In a forest environment backfill with lean mix outside the cover frame.
14. This drawing is subject to Eirgrid design approval.



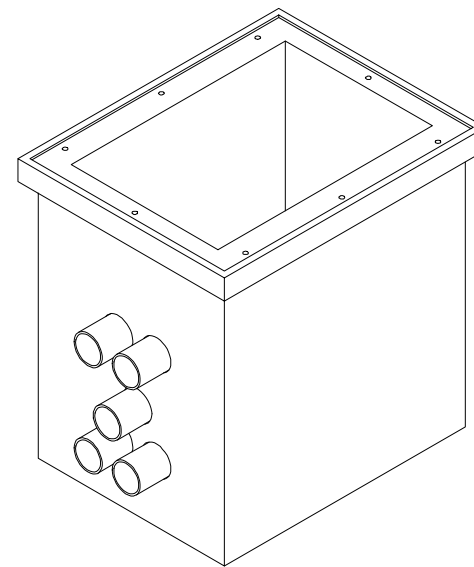
C2 Chamber Detail - Section A
SCALE 1:20



C2 Chamber Detail - Section B
SCALE 1:20



Plan of Joint Bay
SCALE 1:20



Isometric : C2 Chamber Arrangement
SCALE 1:20



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Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-109

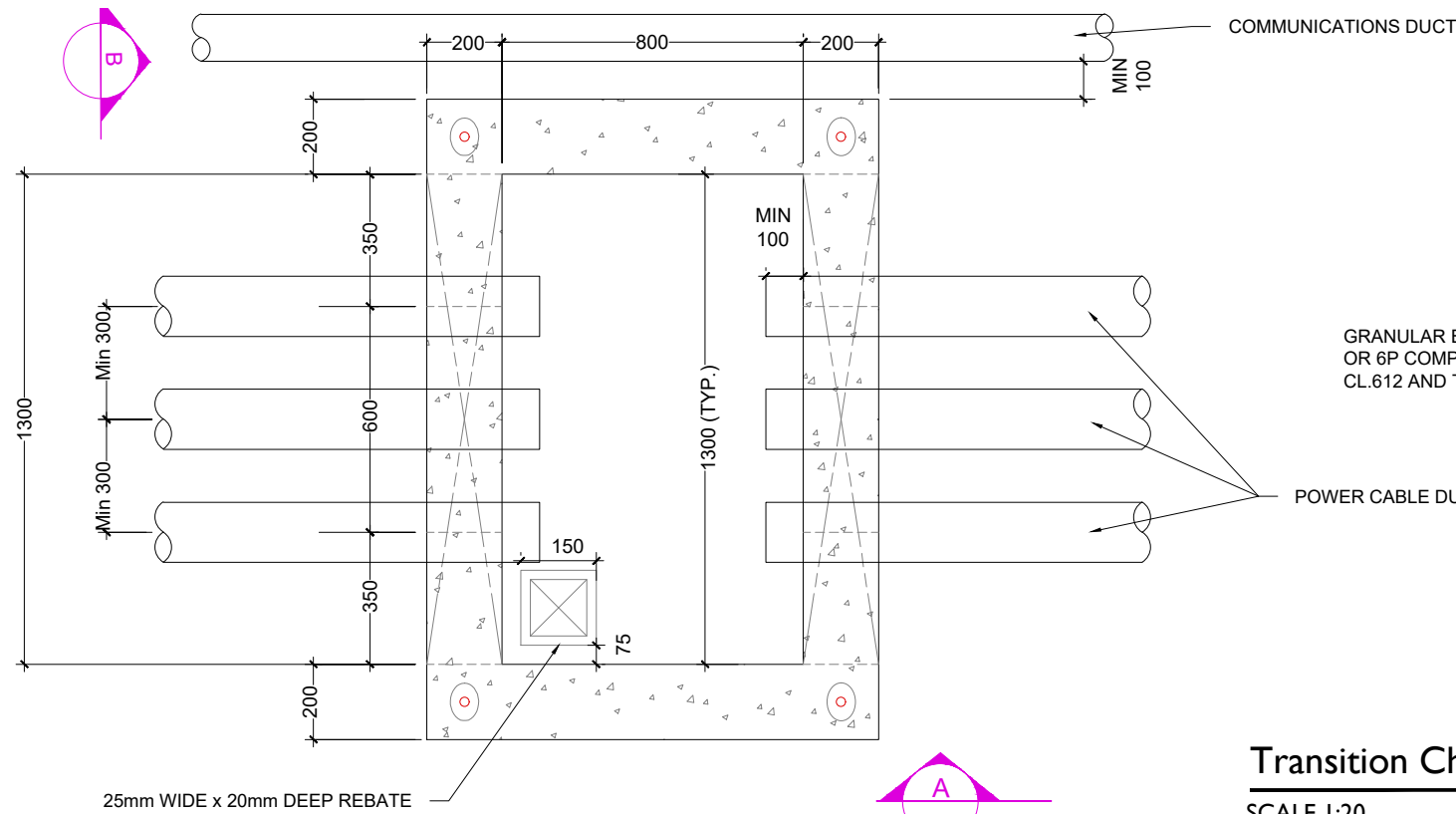
SHEET TITLE

Communications Chamber Details

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Typical Plan of Transition Chamber

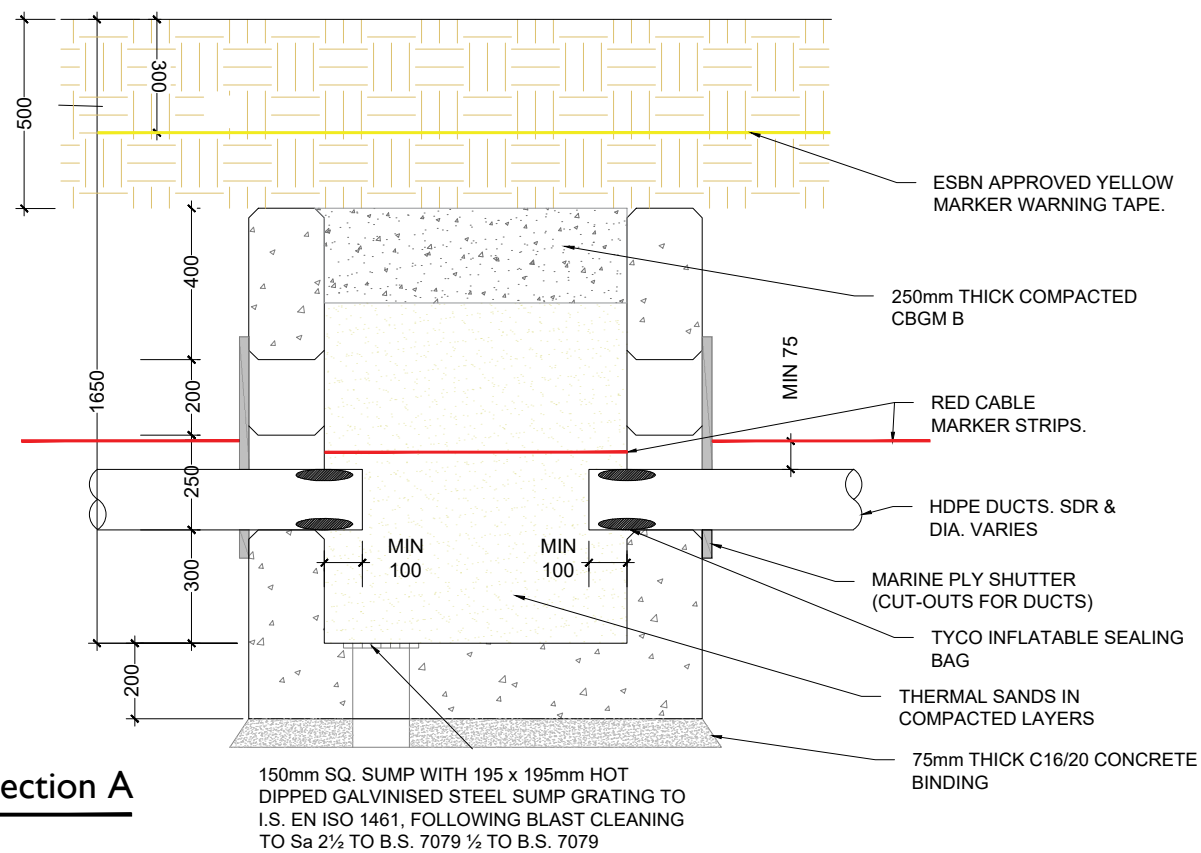
SCALE 1:20

NOTES:

1. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE STATED,
2. TELCOM DUCTS NOT TO BE ROUTED THROUGH TRANSITION CHAMBER
3. IF TRANSITION CHAMBER IS USED TO INTERFACE WITH HDD SECTION, THEN THE TELECOMS DUCT SDR 17.6 SHOULD BE CHAMFERED WHEN COUPLED WITH SDR 11 DUCTS
4. REINSTATEMENTS TO COMPLY WITH REQUIREMENTS OF THE RELEVANT LOCAL AUTHORITY/ASSET OWNER
5. TEMPORARY SUPPORTS TO THE SIDES OF THE EXCAVATION MAY BE REQUIRED DEPENDENT ON THE SUBSOIL,
6. THE CONSTRUCTION SHOWN, IS APPLICABLE ONLY WHERE THE THE SUBSOIL AT FORMATION LEVEL EXCEEDS 100kN/m BEARING CAPACITY
7. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NRA/T.I.I. SPECIFICATION FOR ROADWORKS, MAY 2005 & SUBSEQUENT REVISIONS
8. THE CENTRE LINE OF THE DUCTS ENTERING THE CHAMBER SHALL BE ALIGNED WITH THE DUCTS ON THE OPPOSITE SIDE, SO THAT THE CABLE IS PULLED IN A STRAIGHT LINE
9. DUCTS SHALL APPROACH THE CHAMBER IN A STRAIGHT ALIGNMENT (HORIZONTAL OR VERTICAL) FOR A MINIMUM OF 3 METERS BEFORE THE WALL OPENING
10. CARRAIGEWAY COVERS AND FRAMES TO BE TO B.S EN 124.
11. THE DEPTH FROM GROUND LEVEL TO THE TOP OF WALL CONSTRUCTION SHALL BE 500mm IN CULVATED FIELDS AND GRASSED LANDS.
12. FINAL POSITION OF TRANSITION CHAMBERS SHALL BE AGREED WITH ESB/EIRGRID

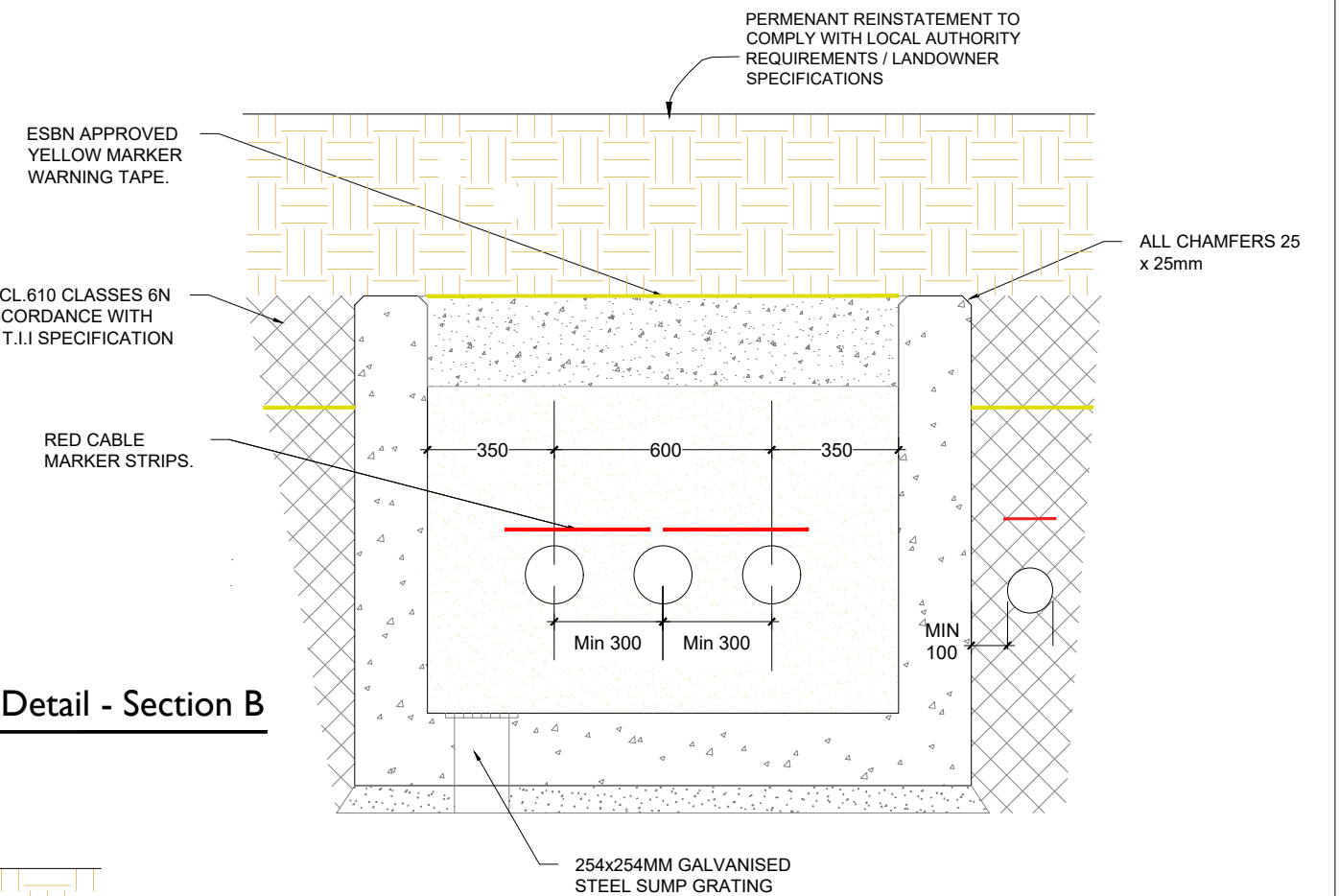
Transition Chamber Detail - Section A

SCALE 1:20



Transition Chamber Detail - Section B

SCALE 1:20



Isometric : Chamber Arrangement

SCALE 1:20



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Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-110

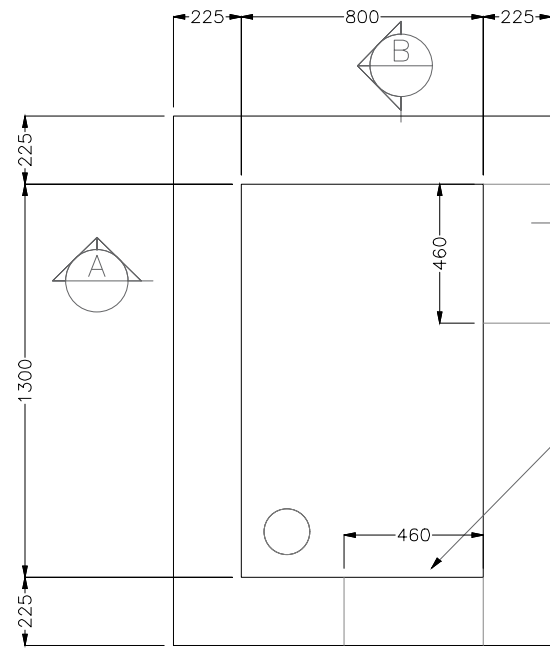
SHEET TITLE

Typical Transition
Chamber Details

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F00	01.07.22	Issued for Information
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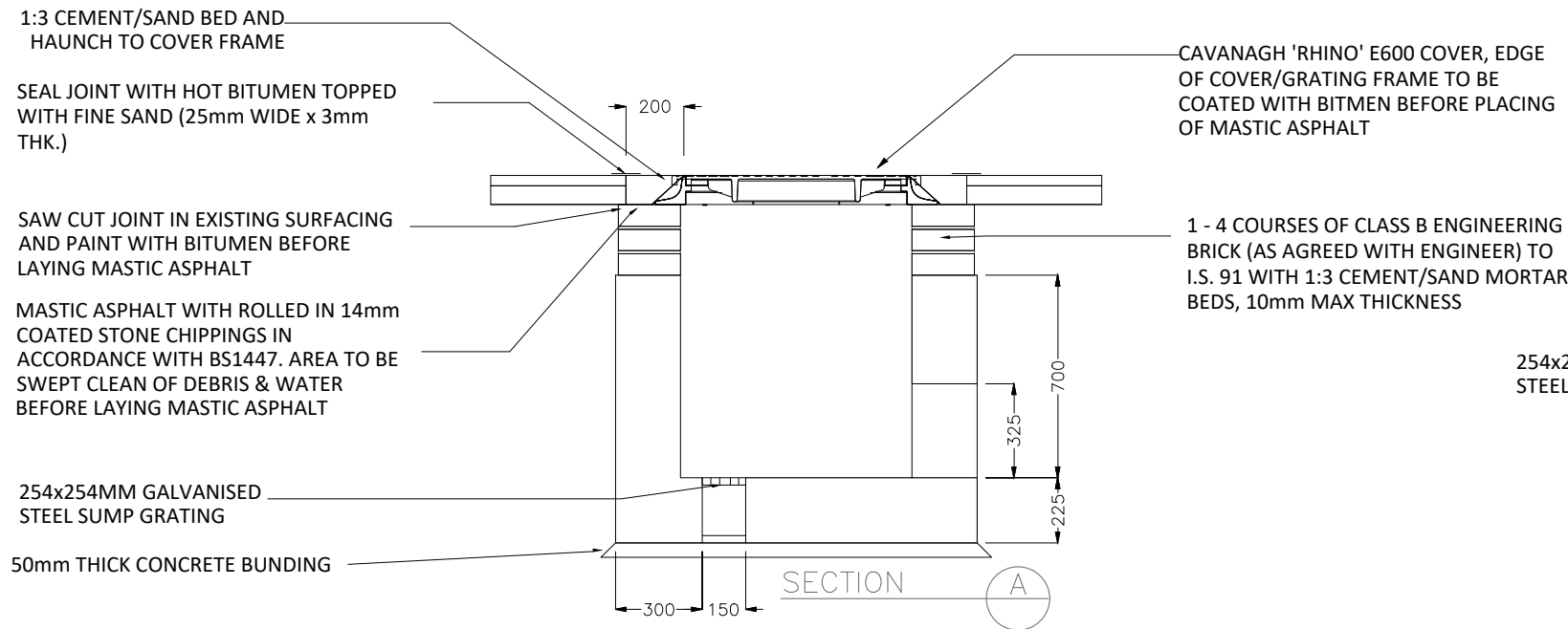


WALL OPENING 460x325 MAX. ACTUAL SIZE TO BE FORMED TO SUIT DUCT ENTRIES. VOIDS TO BE SEALED AND SURFACES MADE GOOD WITH CLASS 1 MORTAR.

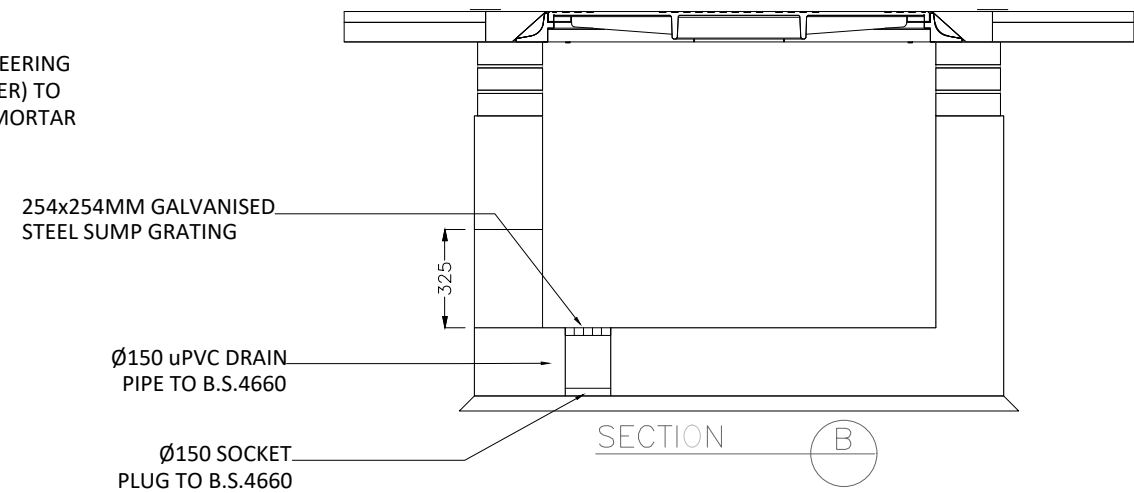
NOTES:

1. This drawing is to be read in conjunction with relevant drawings, specifications and reports.
2. Dimensions are in millimeters, unless noted otherwise.
3. Drawings are not to be scaled use figured dimensions only.
4. All material and workmanship to be in accordance with the NRA./TII specification for Roadworks, May 2005 and subsequent revisions
5. Reinforced concrete to be a minimum grade C32/40, Sulphate resisting cement to be used where aggressive soil conditions apply.
6. Carriageway covers and frames to be to B.S. 124.
7. All covers to have ESB logo incorporated in them to the approval of Eirgrid
8. Brickwork to be class B Engineering, beds and Joints to be class 1 mortar
9. Final position of Link Box to be agreed with Eirgrid prior to installation

Link Box Chamber Detail - Plan
SCALE 1:20



Link Box Chamber Detail - Section A-A
SCALE 1:20



Link Box Chamber Detail - Section B-B
SCALE 1:20



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PROJECT

Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-111

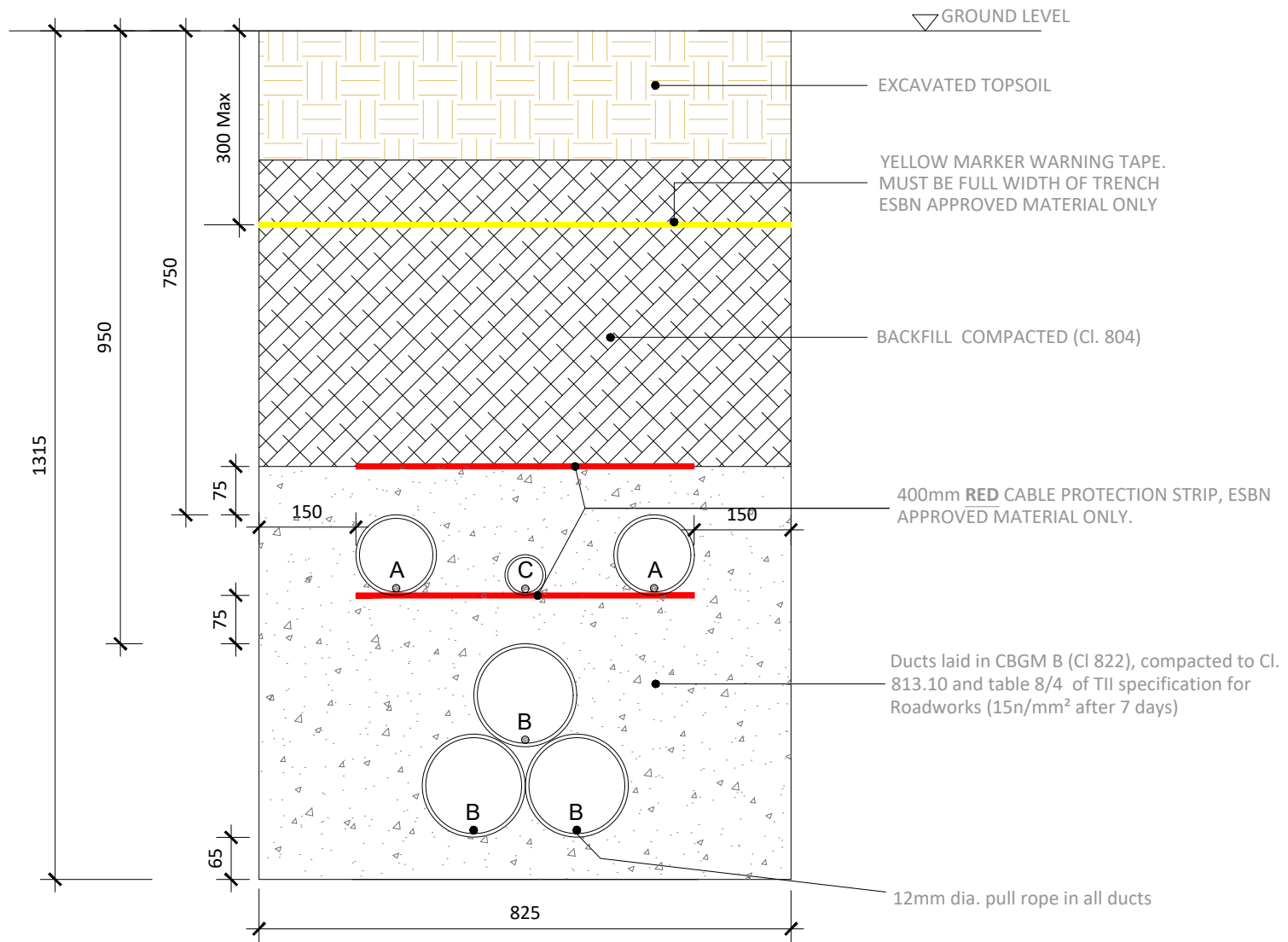
SHEET TITLE

Link Box Chamber Details

DRAWING STATUS
For Information

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F00	01.07.22	Issued for Information
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A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Off Road Sections

SCALE 1:10

Note:

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNER REQUIREMENTS

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD14



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PROJECT

Glenora Wind Farm
 110kV Grid Connection

PROJECT NUMBER
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SHEET NUMBER
 05795-DR-112

SHEET TITLE

Ducting through Off Road Sections

DRAWING STATUS
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PROJECT

Glenora Wind
 Farm 110kV Grid
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NOTES: -

See General Notes

LEGEND: -

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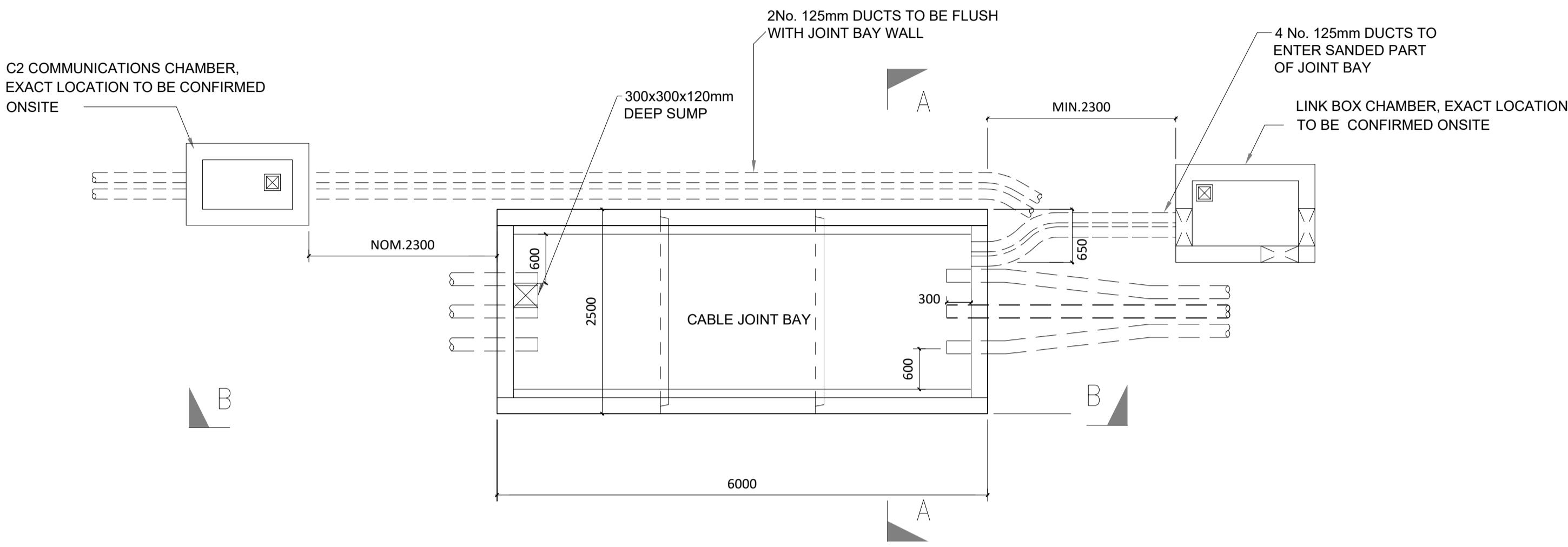
05-795

SHEET TITLE

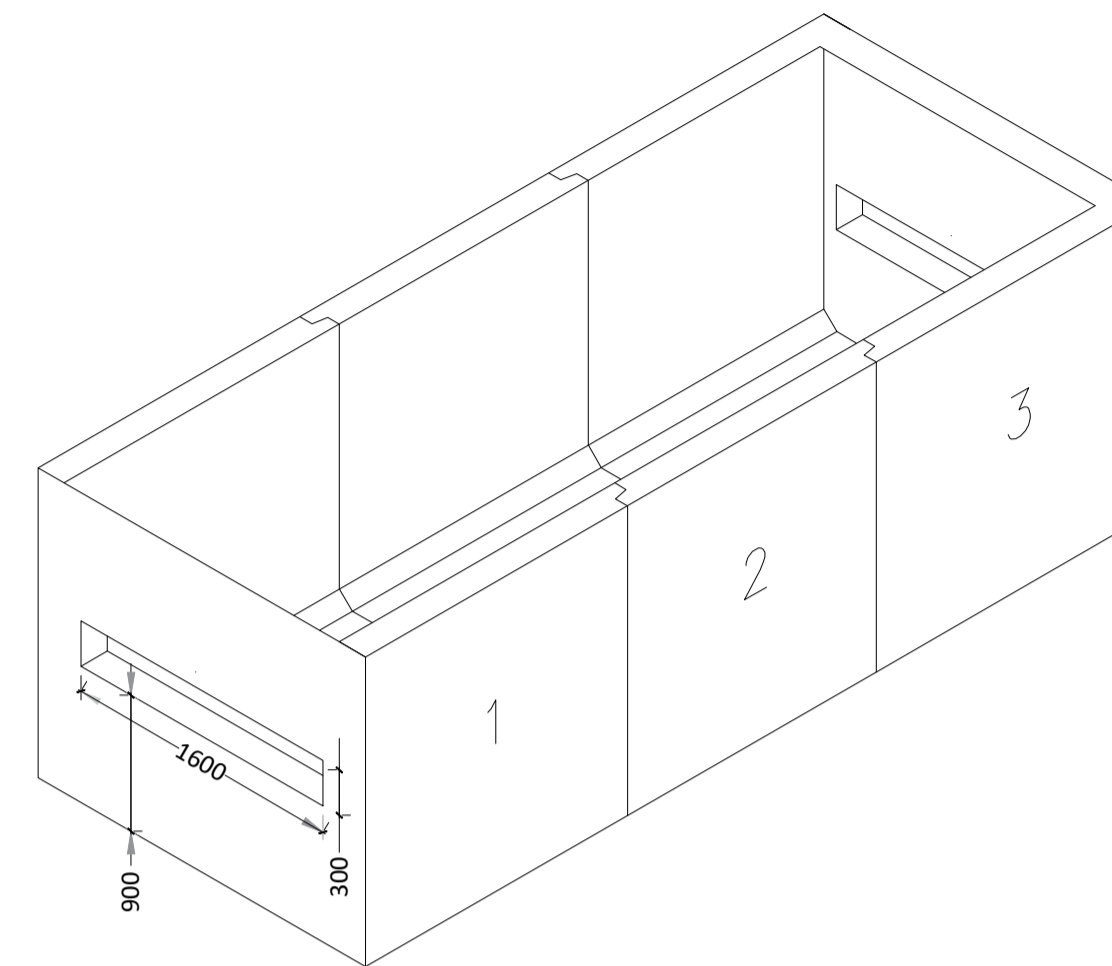
110kV Joint Bay General
 Arrangement and Details

SHEET NUMBER

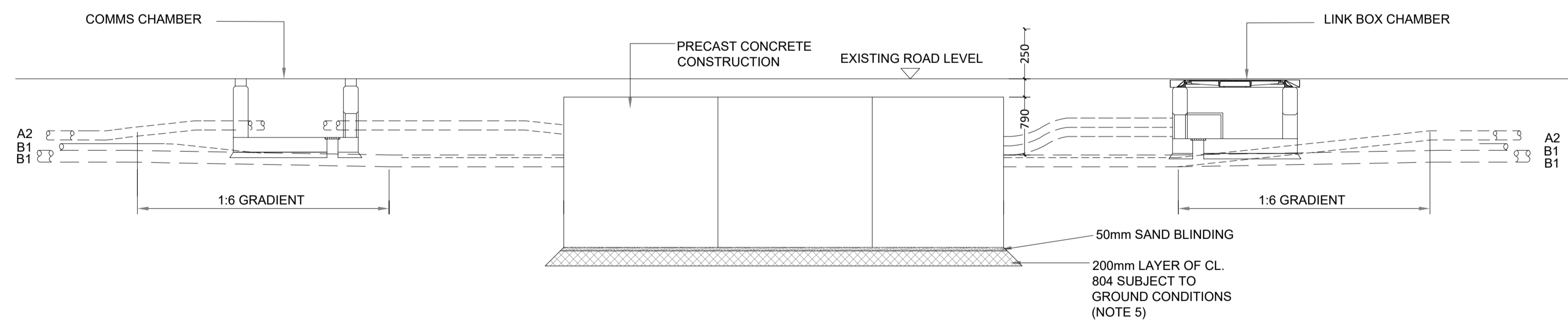
05795-DR-113



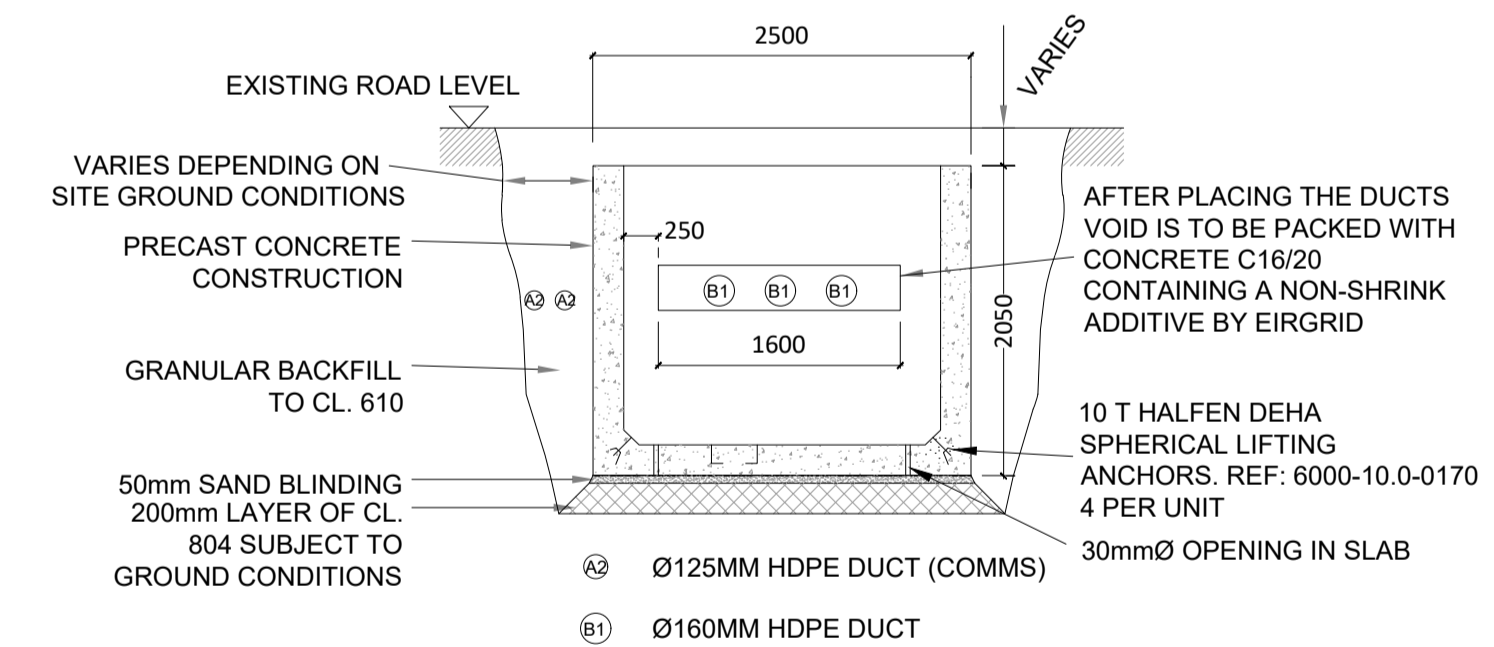
PLAN VIEW
 SCALE 1:50



ISOMETRIC VIEW PRECAST CHAMBER
 SCALE 1:50



SECTION B-B
 SCALE 1:50



SECTION A-A
 SCALE 1:50

GENERAL NOTES:

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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
- DO NOT SCALE FROM THIS DRAWING. USE ONLY PRINTED DIMENSIONS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS DEFINED OTHERWISE.
- STANDARD FOUNDATIONS ARE BASED ON THE FORMATION AT THE BASE OF THE EXCAVATION SHOWN BEING SUITABLE FOR A MINIMUM BEARING PRESSURE OF 100kN/m². SUITABILITY OF STANDARD JOINT BAY FOUNDATIONS CAN ONLY BE CONFIRMED FOLLOWING GROUND INVESTIGATION. HAND VANE TESTS SHALL BE REQUIRED AS PER GI SPECIFICATION. WHERE SPECIFIED MINIMUM BEARING PRESSURE IS NOT ACHIEVABLE, AND WHERE PEAT IS ENCOUNTERED, THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR GUIDANCE.
- THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE PERMITTED.
- ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
- THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE
 - 500MM - IN CULTIVATED FIELDS & GRASS LAND
 - 300MM - IN PAVED ROADS AND GRASS VERGES
 - 350MM - IN PAVED CITY ROADS AND GRASS VERGES
- LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD
- LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION

PROJECT

**Glenora Wind
 Farm 110kV Grid
 Connection**

CLIENT



CONSULTANTS



NOTES: -

See General Notes

LEGEND: -

ISSUE/REVISION

NO.	DATE	DESCRIPTION

F00	01.07.22	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-795

SHEET TITLE

110kV Joint Bay Section Details

SHEET NUMBER

05795-DR-114

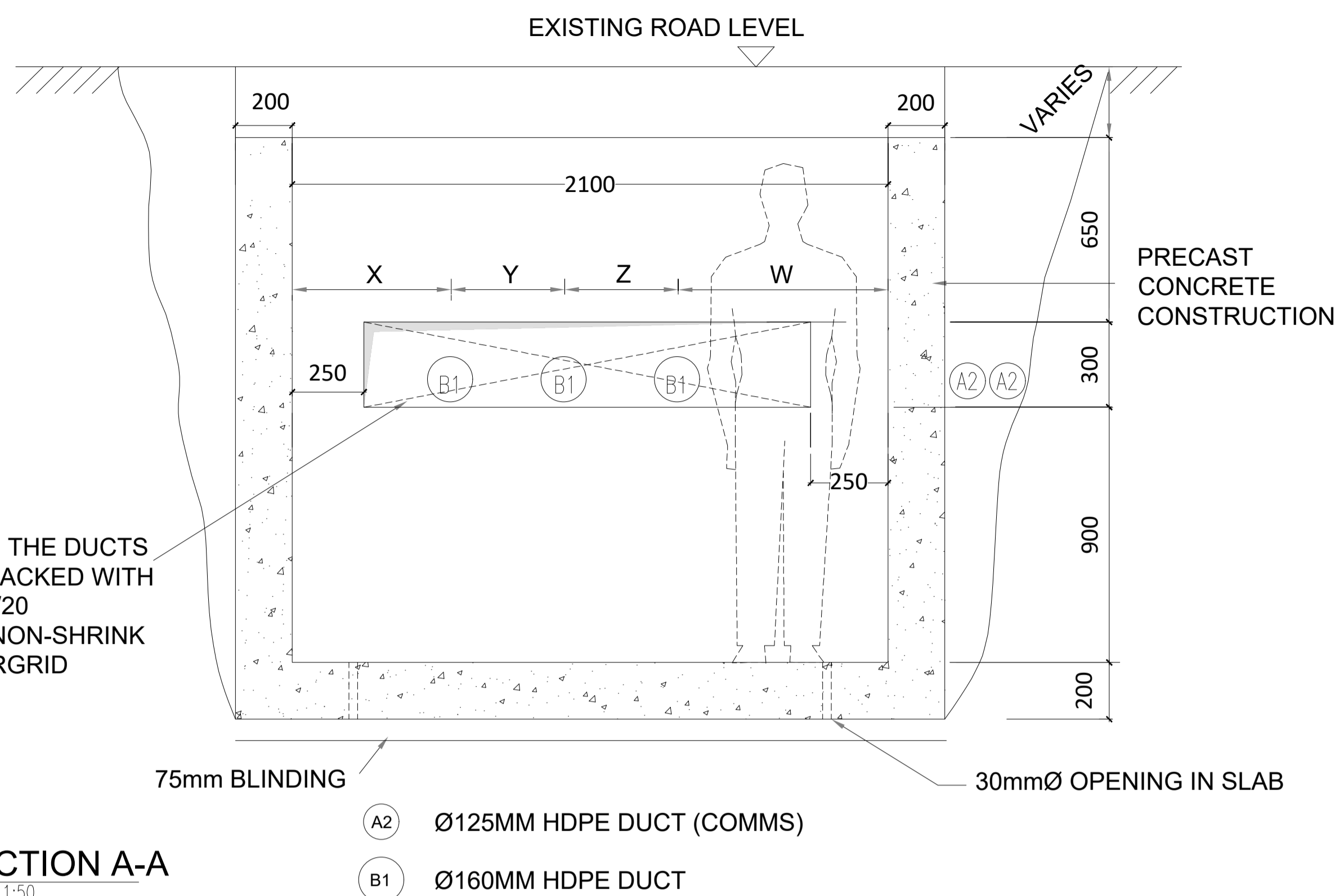
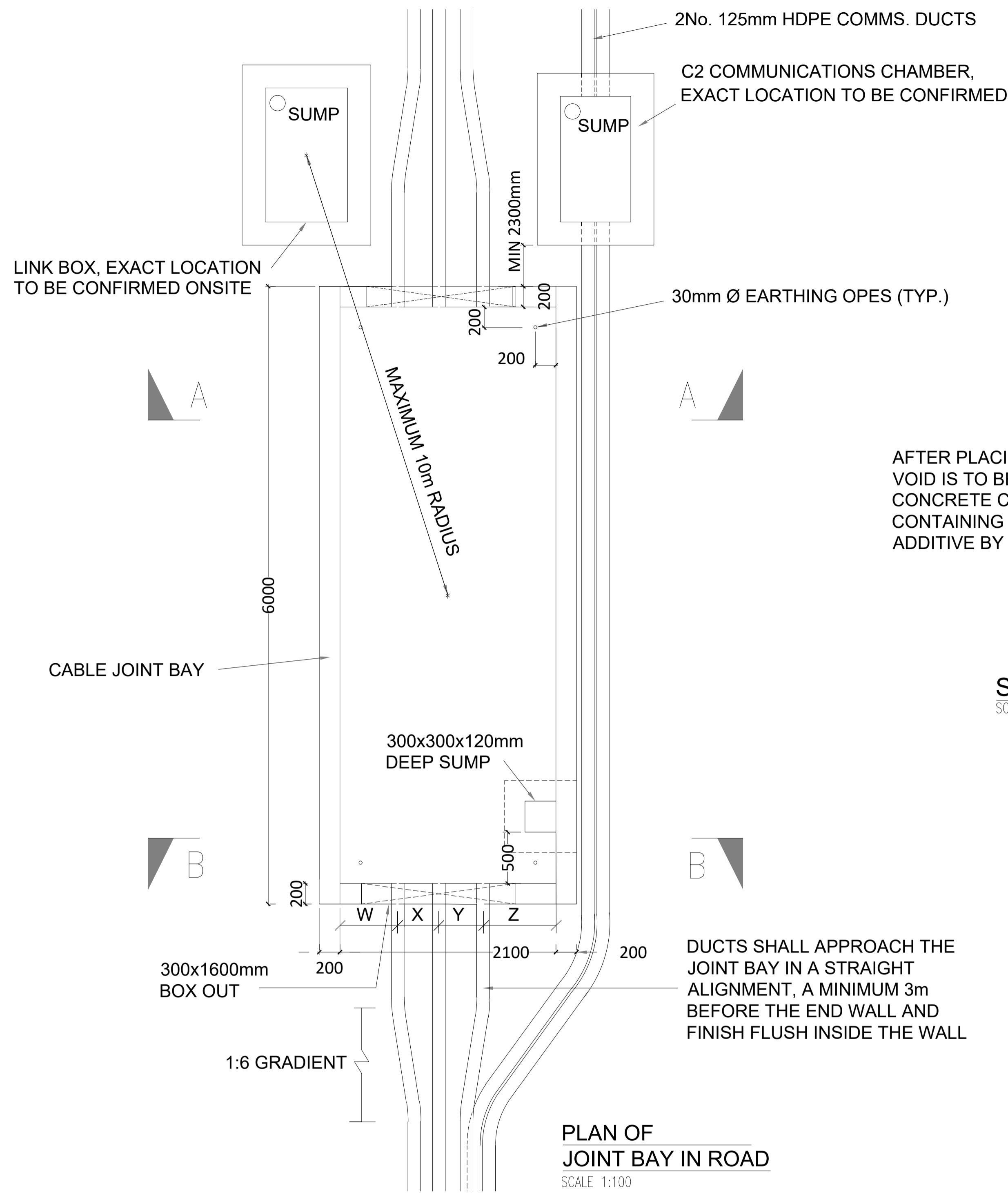
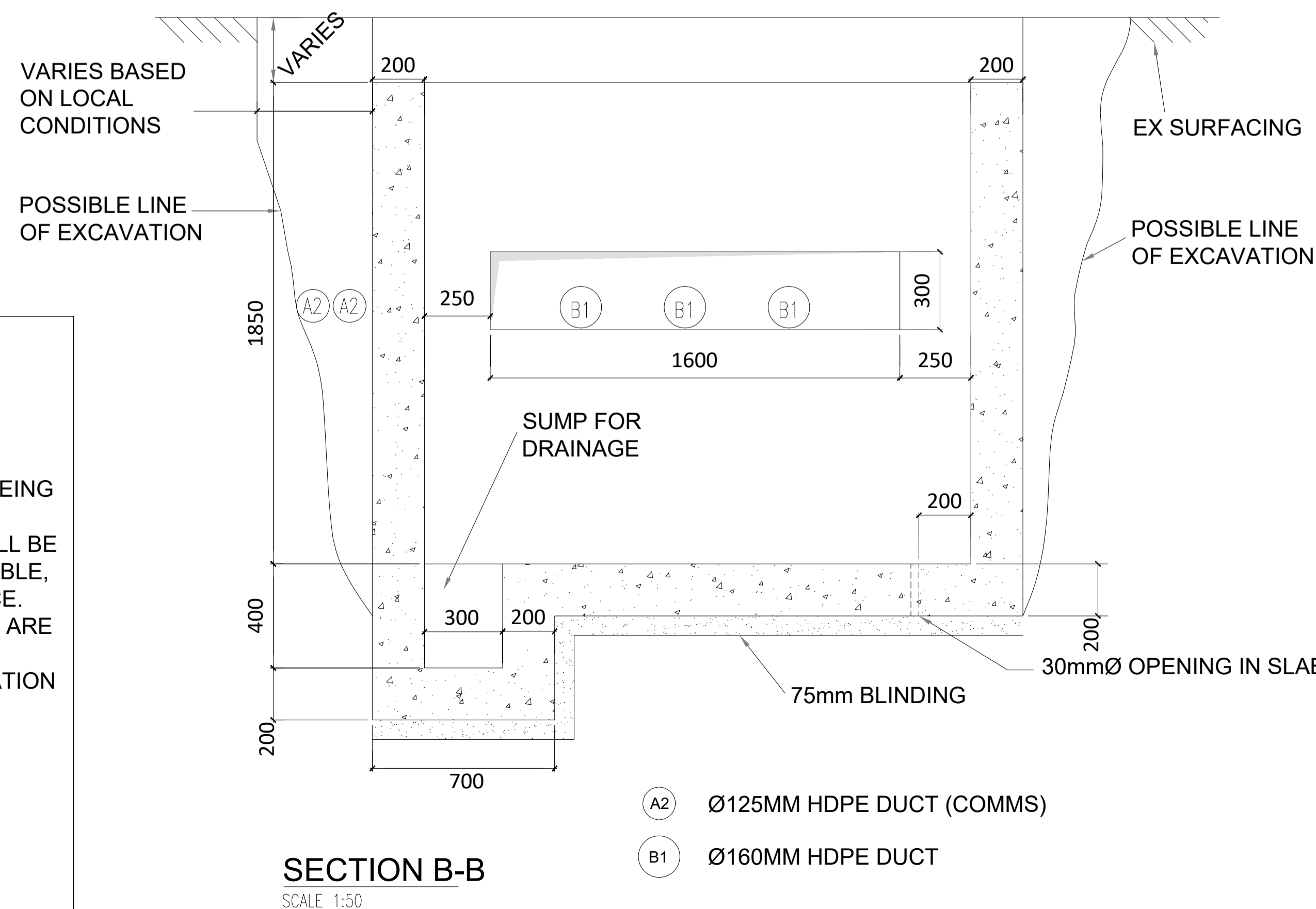


TABLE 1 - DUCT SEPERATION

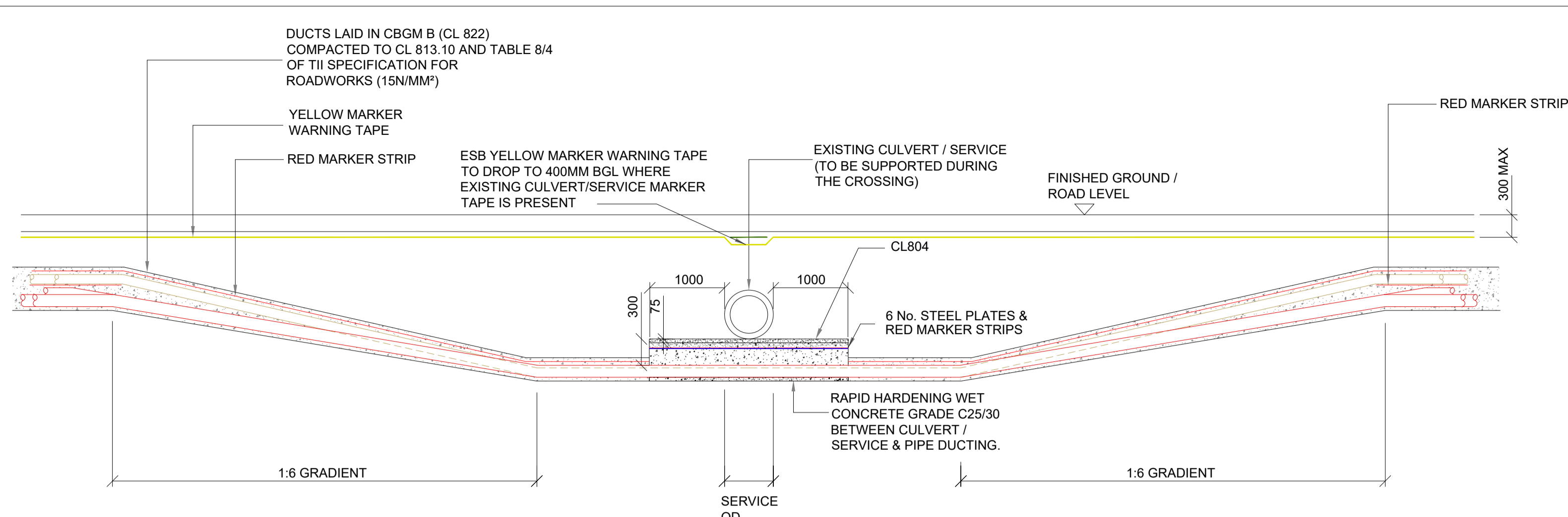
	X	Y	Z	W
110kV	560	400	400	760
220kV	375	675	675	375



GENERAL NOTES:

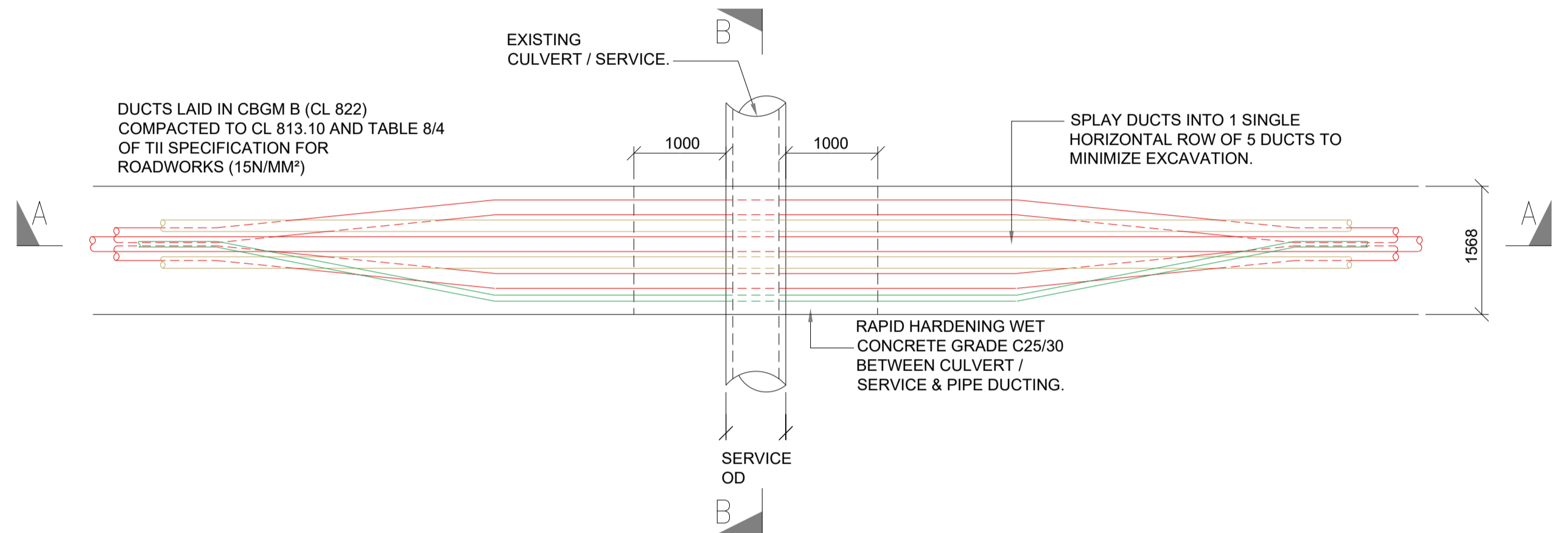
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- THE LENGTH OF BONDING LEAD LENGTH SHALL IN NO CASE EXCEED 10M. NO JOINTS IN BONDING CABLE ARE PERMITTED.
- ALL EARTHING SHALL BE IN ACCORDANCE WITH ENA ER C55 AND EIRGRID/ESBN FUNCTIONAL SPECIFICATION
- THE DEPTH FROM GROUND/ROAD LEVEL TO THE TOP OF THE CONCRETE WALL SHALL BE
 - 500MM - IN CULTIVATED FIELDS & GRASS LAND
 - 300MM - IN PAVED ROADS AND GRASS VERGES
 - 350MM - IN PAVED CITY ROADS AND GRASS VERGES
- LINK BOX CHAMBERS TO BE POSITIONED AT THE EDGE OR OFF ROAD
- LINK BOX CHAMBERS AND C2 COMM CHAMBERS FINAL POSITIONING TO BE AGREED WITH EIRGRID PRIOR TO INSTALLATION

ISO A1 594mm x 841mm
Project Management Initials: Designer: JC
Checked: POS
Approved: GH

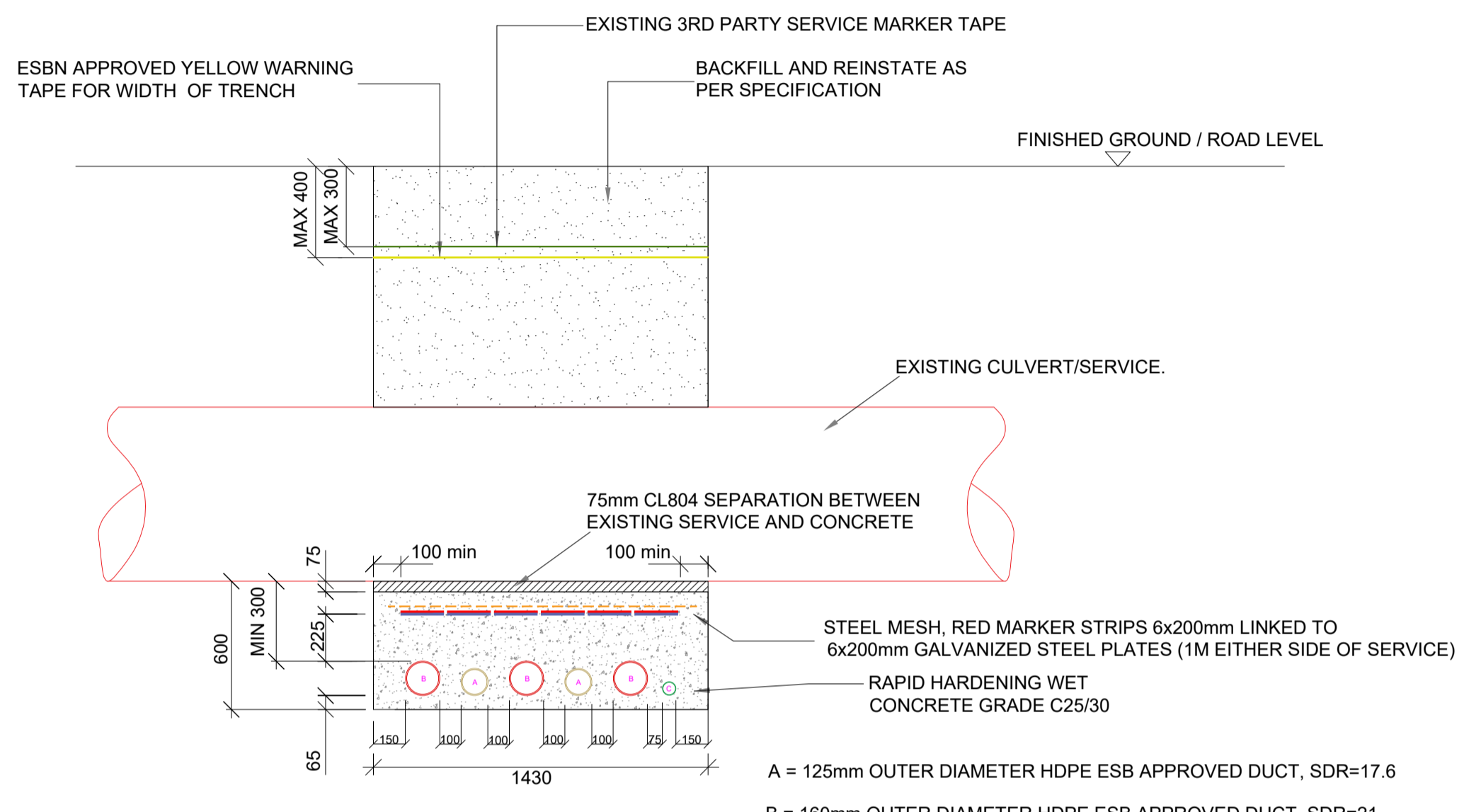


SECTION A-A
SCALE 1:50

- GENERAL NOTES**
- This drawing is to be read in conjunction with all other relevant documentation.
 - Do not scale from this drawing use only printed dimensions.
 - All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
 - This drawing is to be read in conjunction with the project Health & Safety file for any identified potential risks.
 - No excavation shall commence until the contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
 - Hand dig only within 500mm of existing services.
 - If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
 - For standard trench cross section drawings and minimum horizontal separation to existing services, see 05795-DR-117 (TREFOIL) and 05795-DR-119 (FLAT).
 - Where depths exceed 3000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
 - For Watermain crossings, see 05795-DR-116
- All Products and materials to be utilised during construction to comply with Eirgrid functional specification for road works and all relevant Irish (European) and British standards
 - 300mm minimum vertical and horizontal clearances to be observed between cable ducts and third party services (e.g. gas pipes, water mains, culverts etc.) In the case of high risk 3rd party services, greater clearances may be required. Designer to consult Eirgrid and 3rd party service owners for guidance
 - Steel plates must cover ducts. No overlap is required however standard dimensions may result in an overlap. Spacing of 10mm to be maintained between steel plates to prevent the transfer of stray current.
 - Templates are to be used at 5m intervals during duct installation in CBGM. Pre-made 75mm wide concrete spacers to be used during duct installation in wet concrete
 - If existing service marker tape is not present, the ESBN yellow marker tape should be installed at maximum 300mm below finished surface level

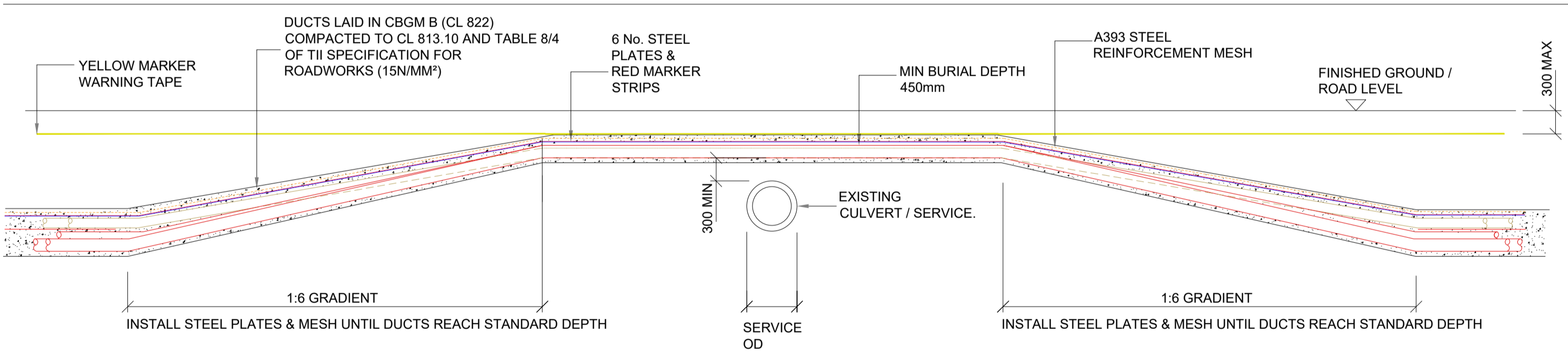


PLAN VIEW
SCALE 1:50

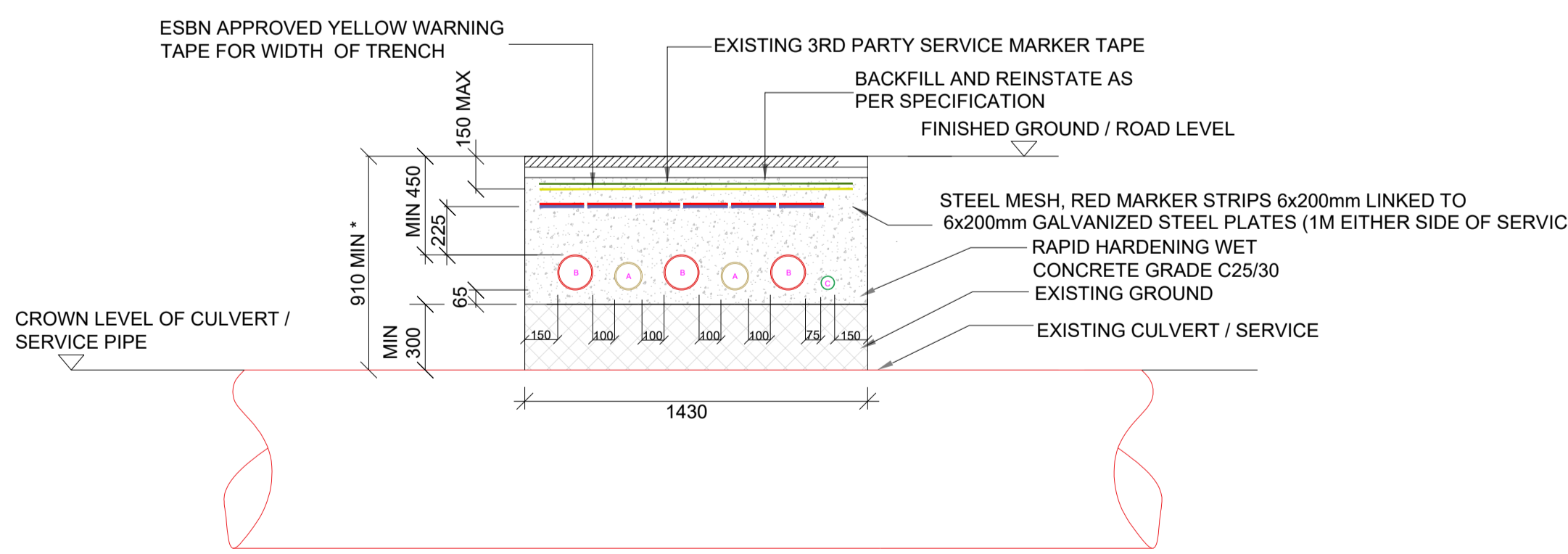


SECTION B-B
SCALE: NTS

SERVICE UNDERCROSSING

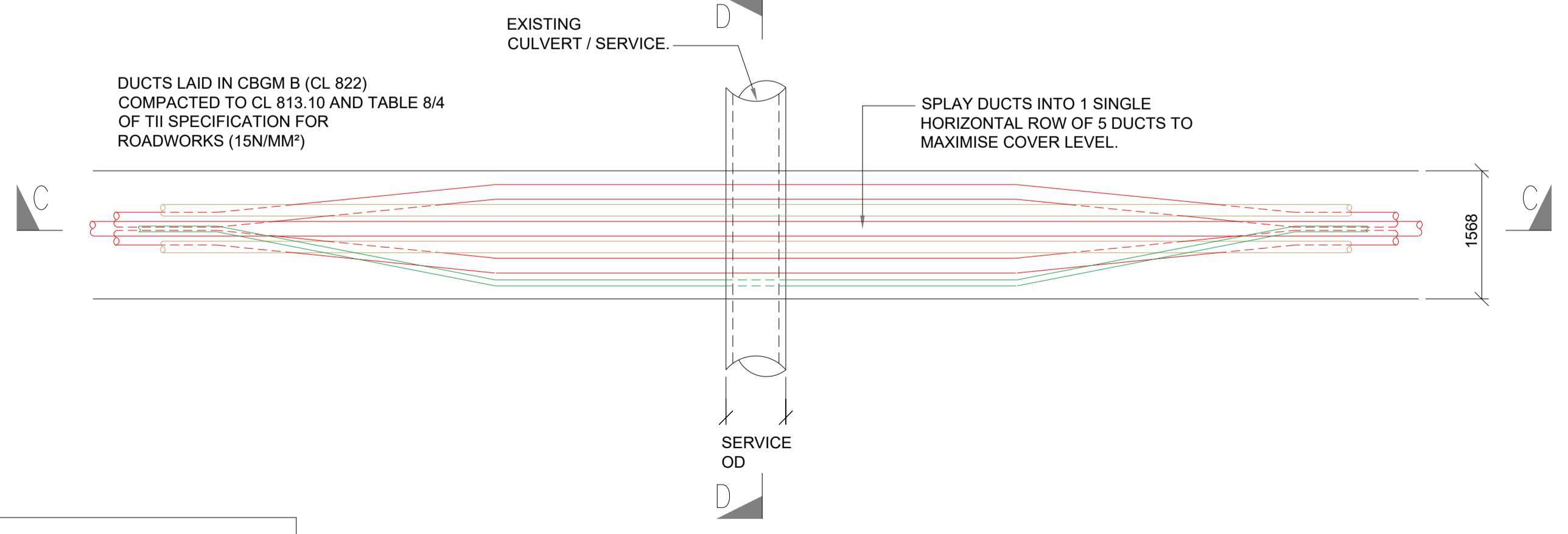


SECTION C-C
SCALE 1:50



SECTION D-D
SCALE: NTS

* ALL EXISTING SERVICES WITH COVER LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD



PLAN VIEW
SCALE 1:50

SERVICE OVERCROSSING

LEGEND

	160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE		YELLOW MARKER WARNING TAPE
	125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE		A393 STEEL REINFORCEMENT MESH
	63mm Ø ECC EARTH CONTINUITY CONDUCTOR		6mm GALVANISED STEEL PLATE
			EXISTING 3RD PARTY MARKER TAPE
			RED MARKER STRIP OR STEEL PLATES

tli GROUP

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Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT
Glenora Wind Farm 110kV Grid Connection

CLIENT
Ireland FuturEnergy
SSE Renewables

CONSULTANTS
MKO Planning and Environmental Consultants

NOTES: -
See General Notes

LEGEND: -

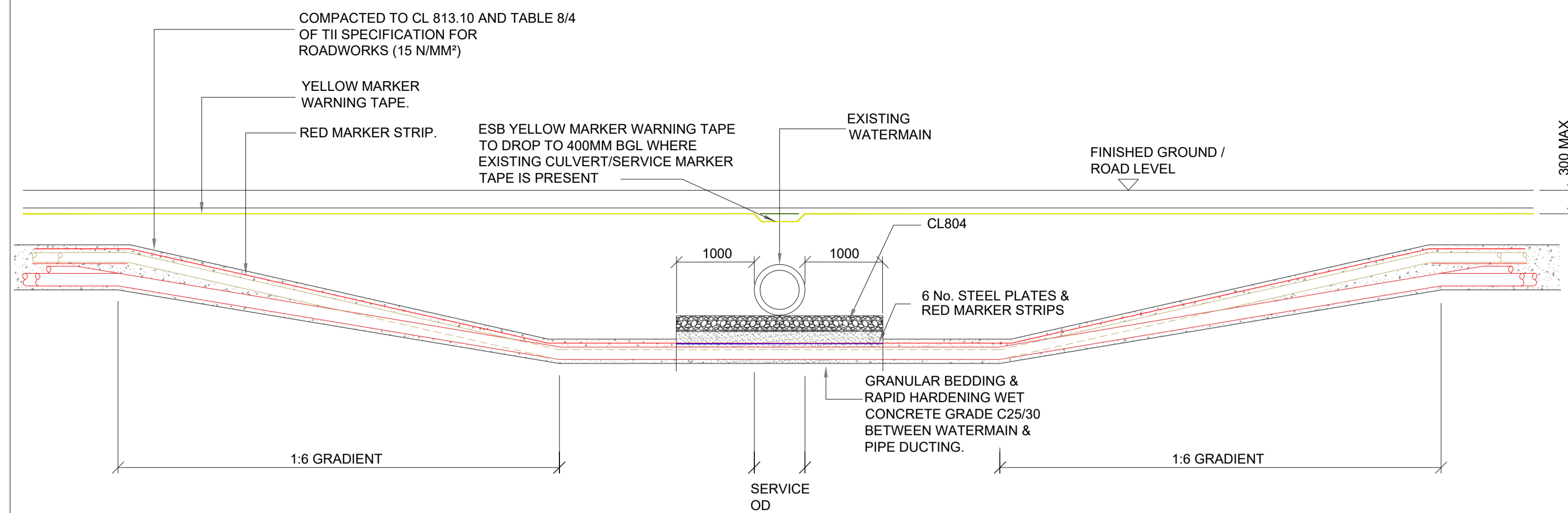
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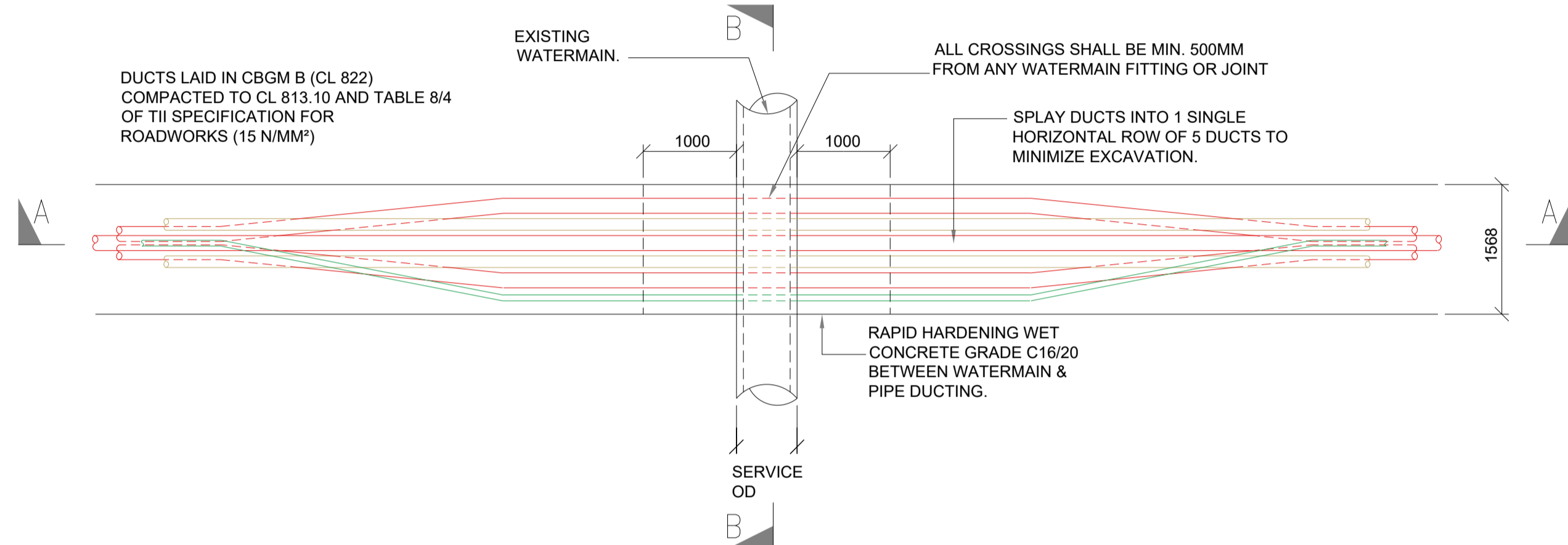
PROJECT NUMBER
05-795

SHEET TITLE
Trench Sections for Crossing Existing Culverts/Services

SHEET NUMBER
05795-DR-115

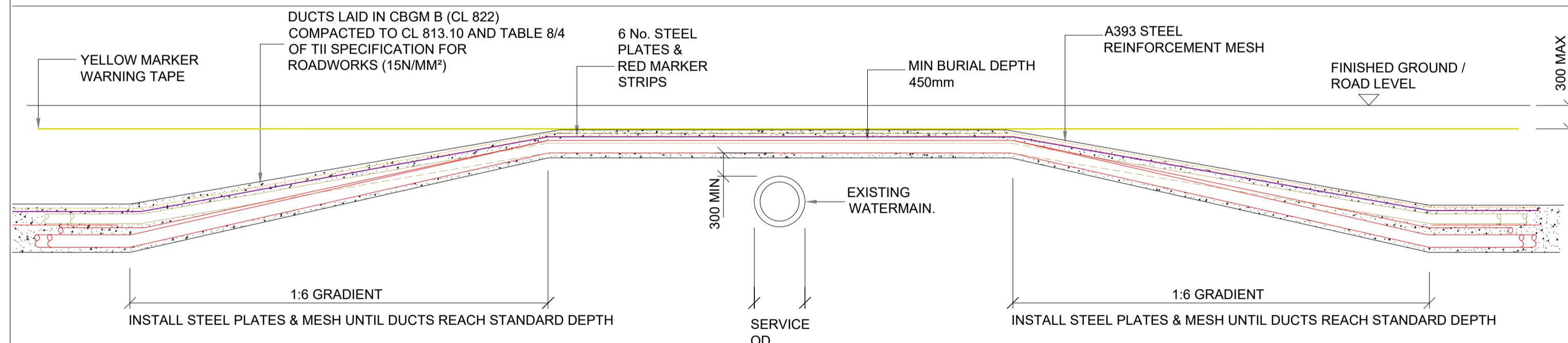


SECTION A-A
SCALE 1:50

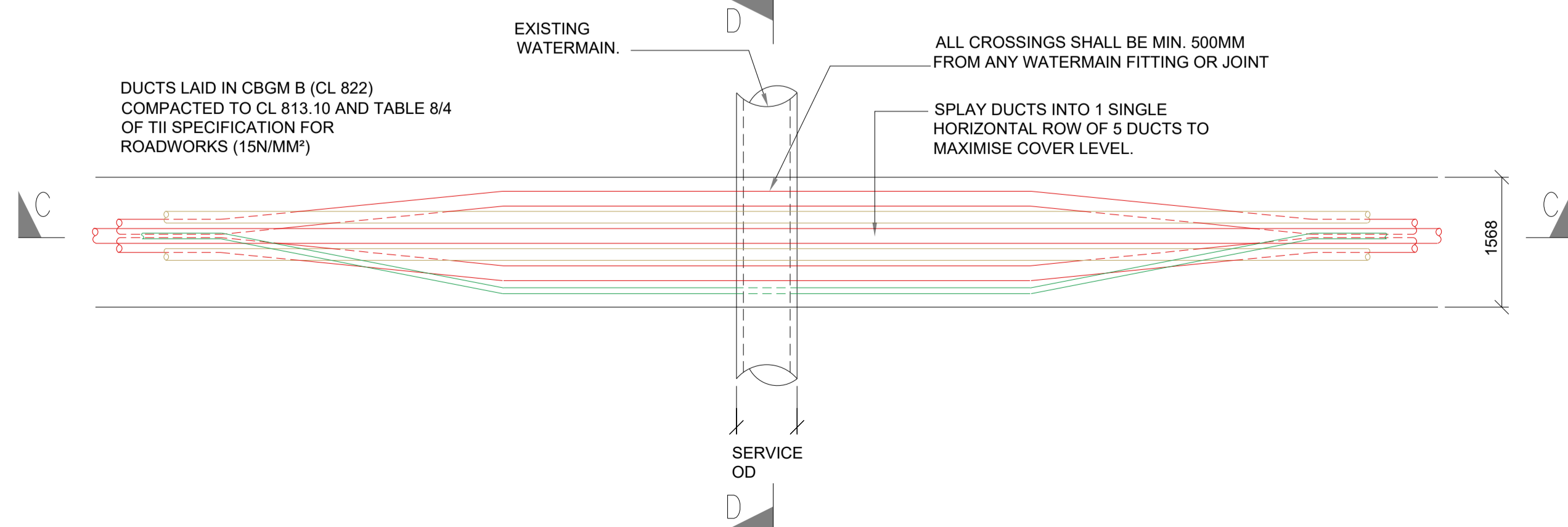


PLAN VIEW
SCALE 1:50

WATERMAIN UNDERCROSSING



SECTION C-C
SCALE 1:50

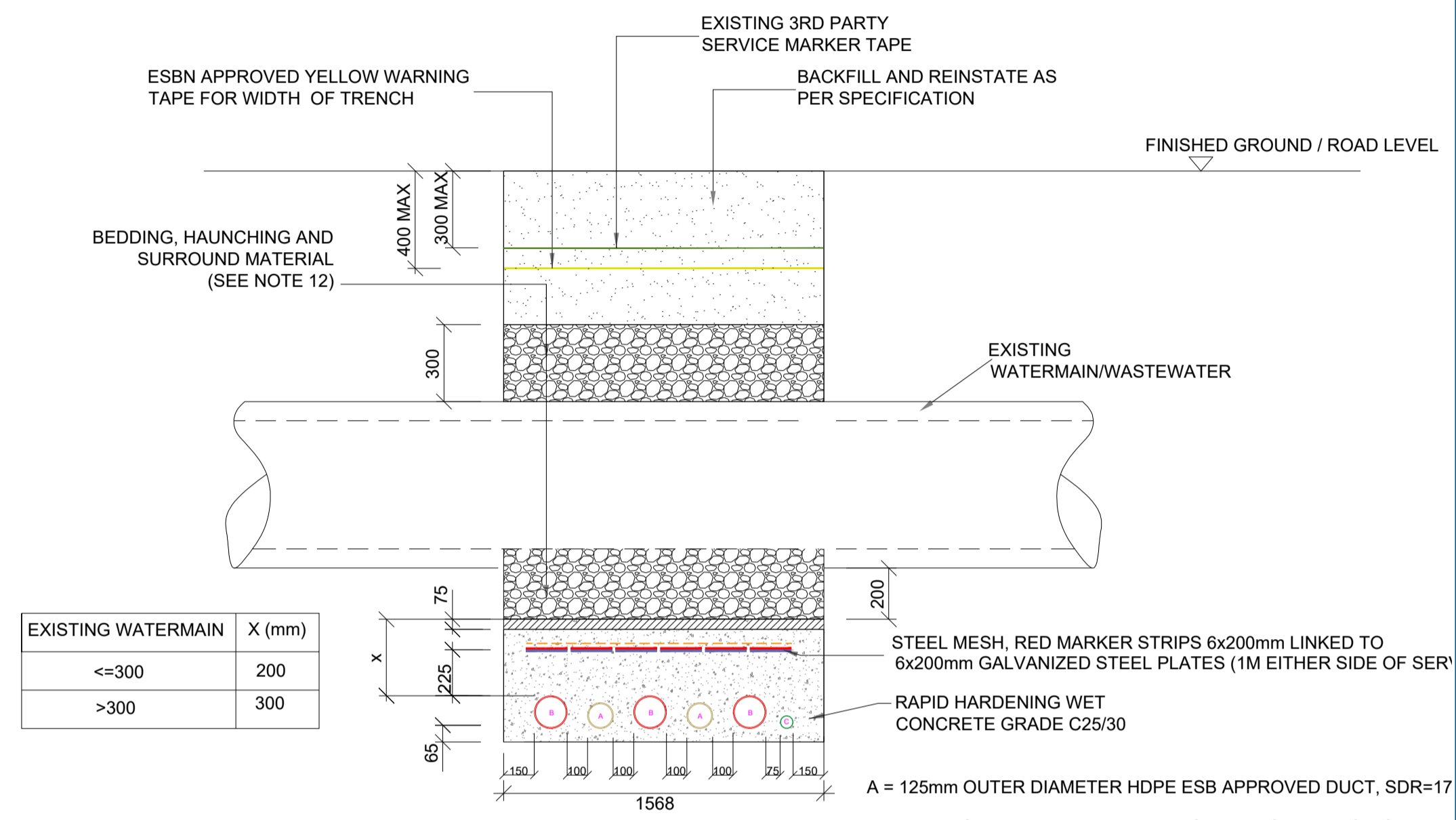


PLAN VIEW
SCALE 1:50

WATERMAIN OVERCROSSING

GENERAL NOTES

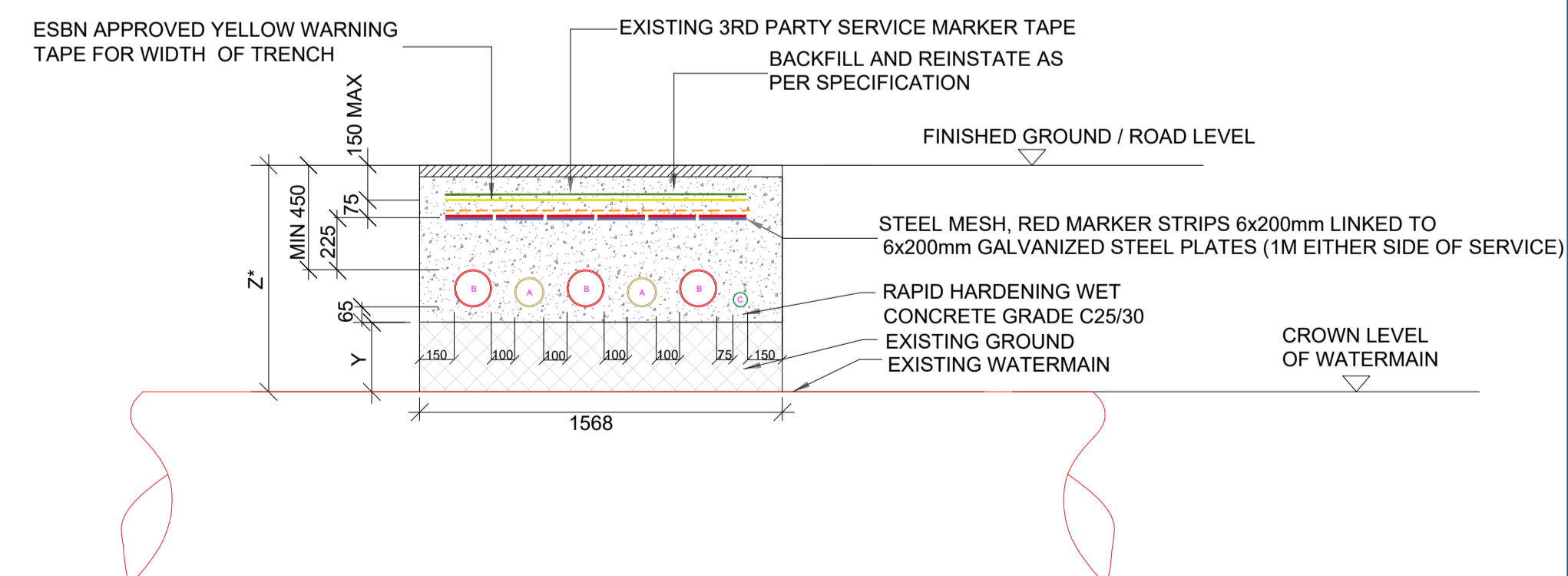
- This drawing is to be read in conjunction with all other relevant documentation.
- Do not scale from this drawing use only printed dimensions.
- All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
- This drawing is to be read in conjunction with the project Health & Safety file for any identified potential risks.
- No excavation shall commence until the contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
- Hand dig only within 500mm of existing services.
- If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
- For standard trench cross section drawings and minimum horizontal separation to existing services, see 05795-DR-117 (TREFOIL) and 05795-DR-119 (FLAT).
- Where depths exceed 3000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
- All works shall be in accordance with Irish Water code of practice for infrastructure.
- Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
- As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
- All Products and materials to be utilised during construction to comply with Eirgrid functional specification for road works and all relevant Irish (European) and British standards
- 300mm minimum vertical and horizontal clearances to be observed between cable ducts and third party services (e.g. gas pipes, water mains, culverts etc.) In the case of high risk 3rd party services, greater clearances may be required. Designer to consult Eirgrid and 3rd party service owners for guidance
- Steel plates must cover ducts. No overlap is required however standard dimensions may result in an overlap. Spacing of 10mm to be maintained between steel plates to prevent the transfer of stray current.
- Templates are to be used at 5m intervals during duct installation in CBGM. Pre-made 75mm wide concrete spacers to be used during duct installation in wet concrete
- If existing service marker tape is not present, the ESBN yellow marker tape should be installed at maximum 300mm below finished surface level



SECTION B-B
SCALE: NTS

LEGEND

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE
- 63mm Ø ECC EARTH CONTINUITY CONDUCTOR
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- EXISTING 3RD PARTY MARKER TAPE
- RED MARKER STRIP OR STEEL PLATES



SECTION D-D
SCALE: NTS

- A = 125mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6
- B = 160mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=21
- C = 63mm: ECC Earth Continuity Conductor

* ALL EXISTING SERVICES WITH COVER LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

PROJECT

**Glenora Wind
Farm 110kV Grid
Connection**

CLIENT



CONSULTANTS



NOTES: -

See General Notes

LEGEND: -

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PROJECT NUMBER

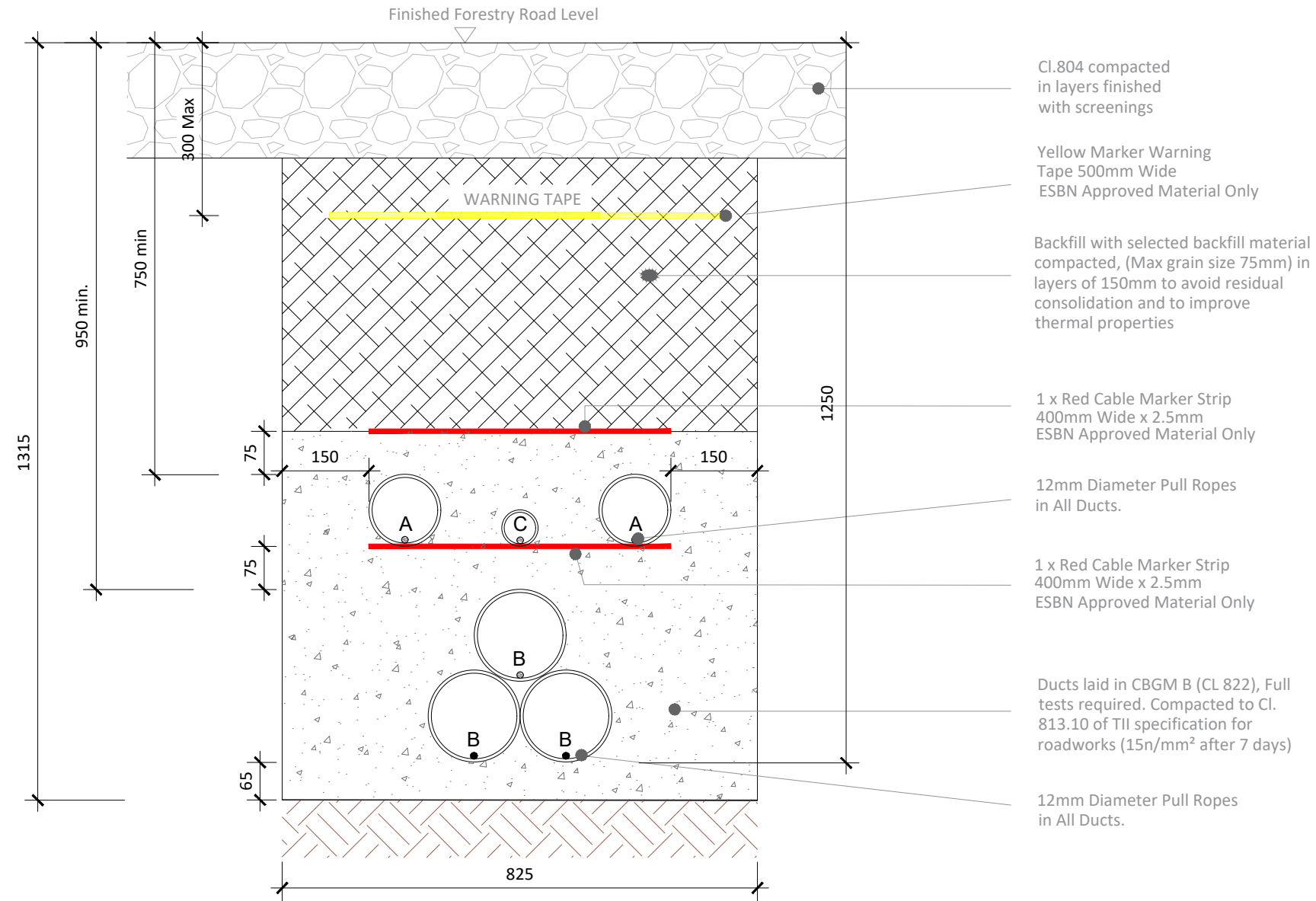
05-795

SHEET TITLE

**Trench Sections for
Crossing Watermain/Wastewater**

SHEET NUMBER

05795-DR-116



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B= 160mm : Outer Diameter HDPE ESB Approved Duct, SDR= 21
 C = 63mm: ECC Earth Continuity Conductor

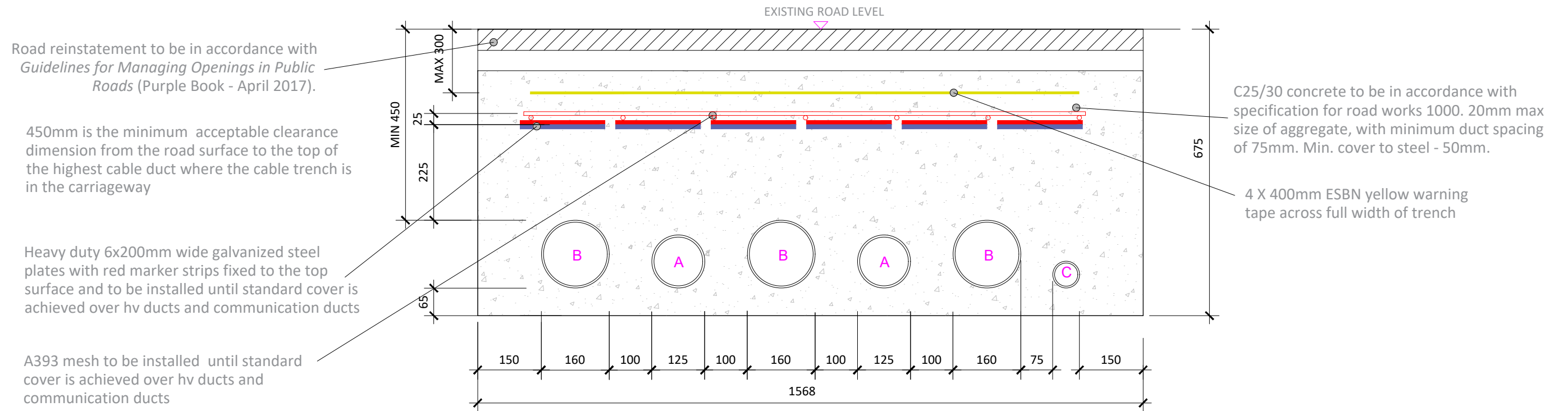
Section Through Forestry Road

SCALE 1:10

Note:

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNERS REQUIREMENTS



A = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6
 B = 160mm : Outer Diameter HDPE ESB Approved Duct, SDR=21
 C = 63mm: ECC Earth Continuity Conductor

Section Through Ducting in Flat Formation

SCALE 1:10

Note:

- This drawing is to be read in conjunction with relevant drawings, specifications and reports
- Dimensions are in millimeters, unless noted otherwise
- Drawings are not to be scaled use figured dimensions only

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LOCAL AREA ENGINEERS LANDOWNERS REQUIREMENTS AND GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS



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 Beenreigh,
 Abbeydorney,
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CLIENT



PROJECT

Glenora Wind Farm
 110 kV Grid Connection

PROJECT NUMBER
 05-795

SHEET NUMBER
 05795-DR-119

SHEET TITLE

Section Through Ducting
 in Flat Formation

DRAWING STATUS
 For Information

ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
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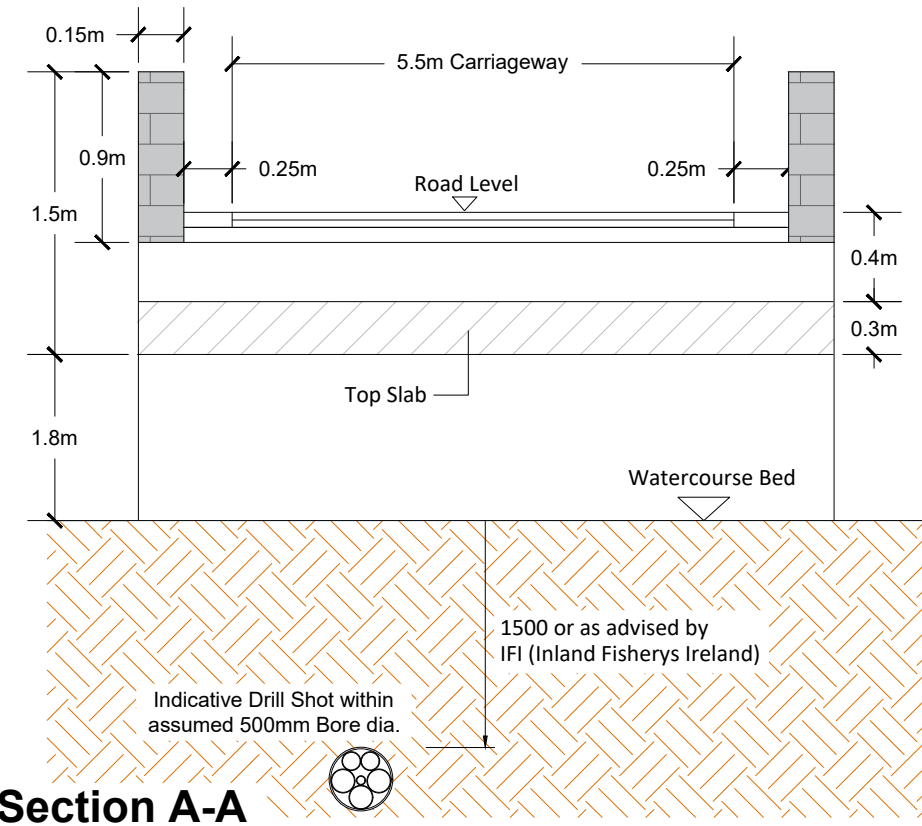
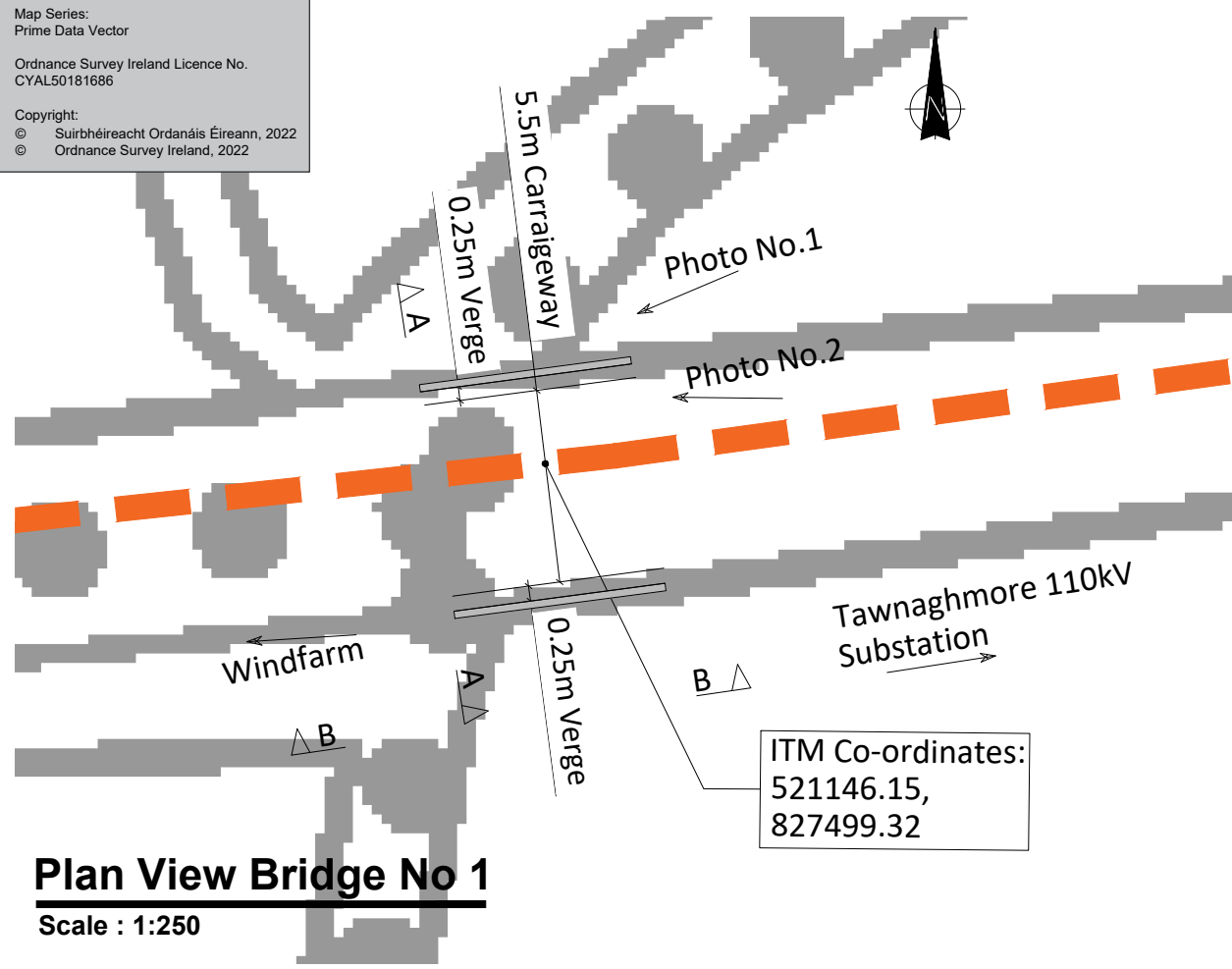
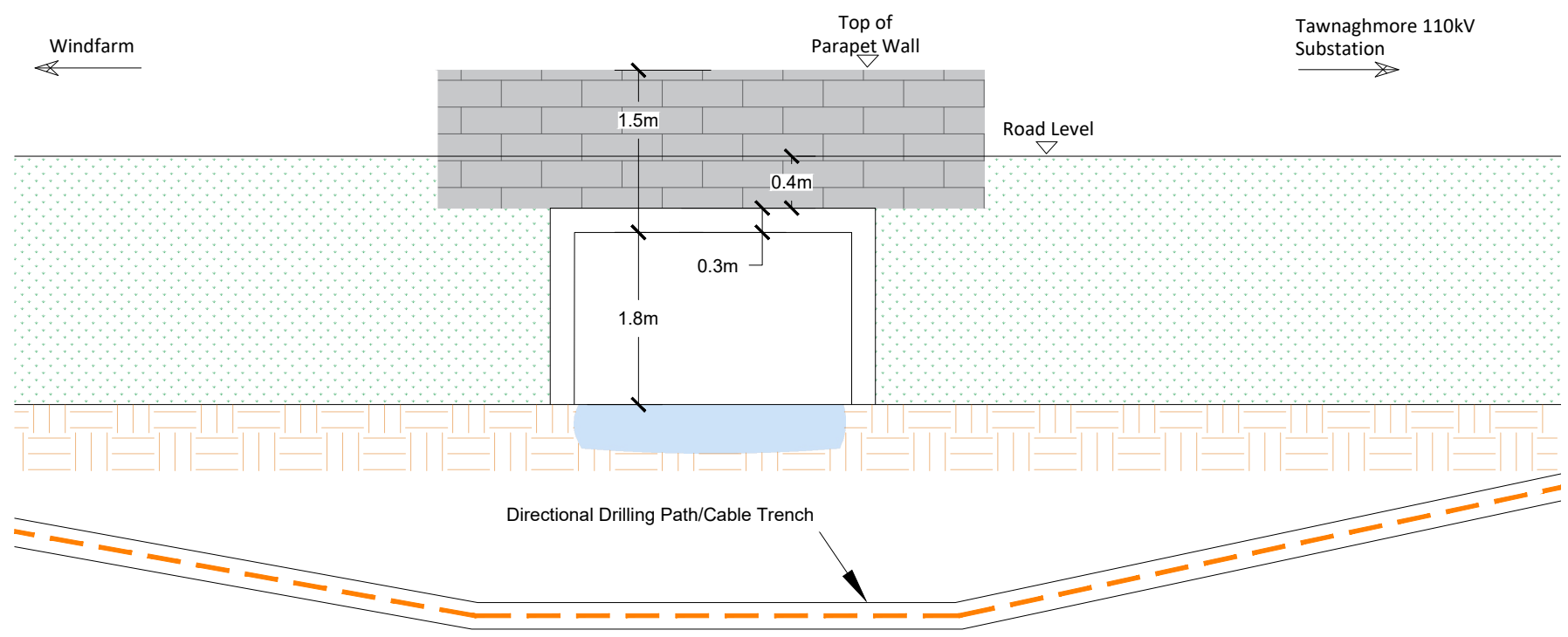


Photo No. 1



Photo No. 2



- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
 - HDD launch and reception pit locations to be determined following site investigation.



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CLIENT
FuturEnergy Ireland
SSE Renewables
PROJECT
Glenora Wind Farm
110kV Grid Connection
PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-231

SHEET TITLE
Bridge 1 - Proposed HDD Crossing
DRAWING STATUS
For Information

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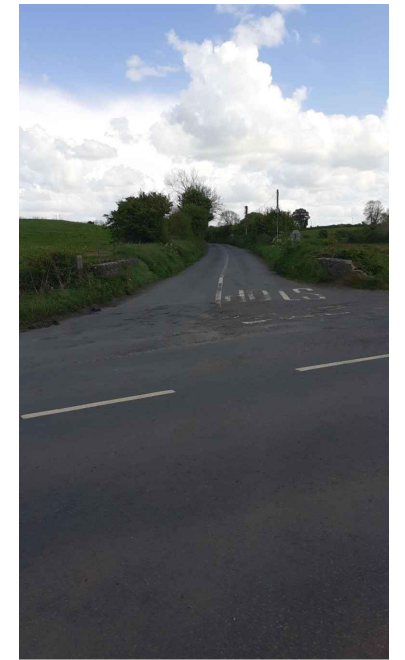
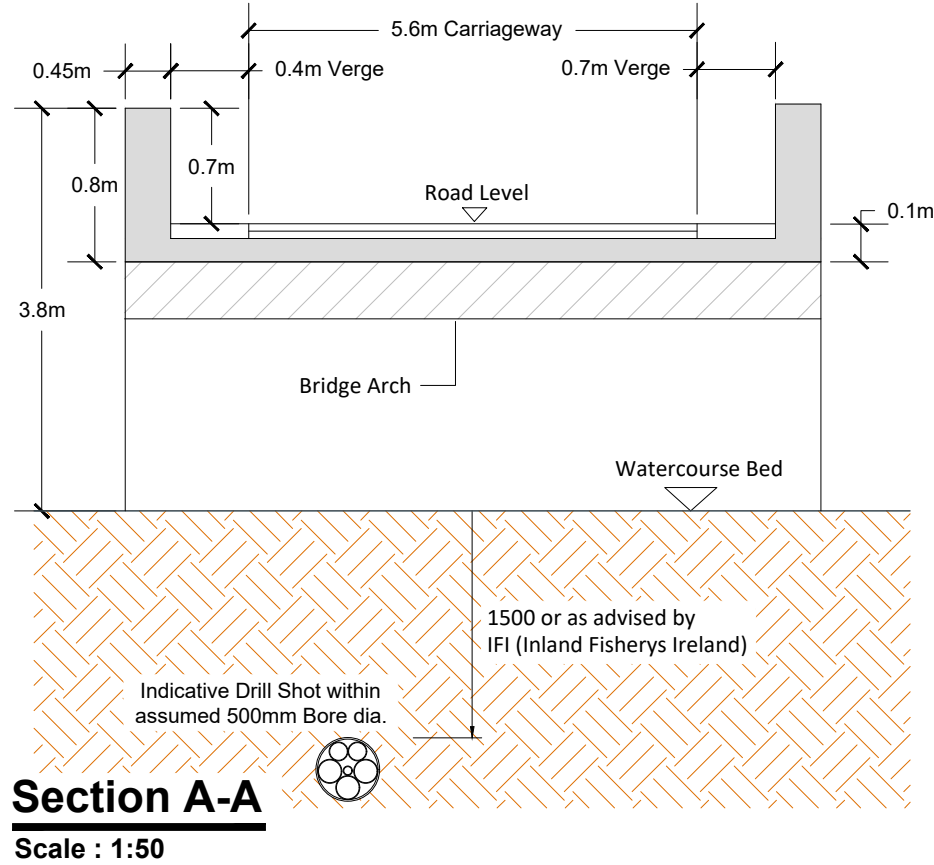
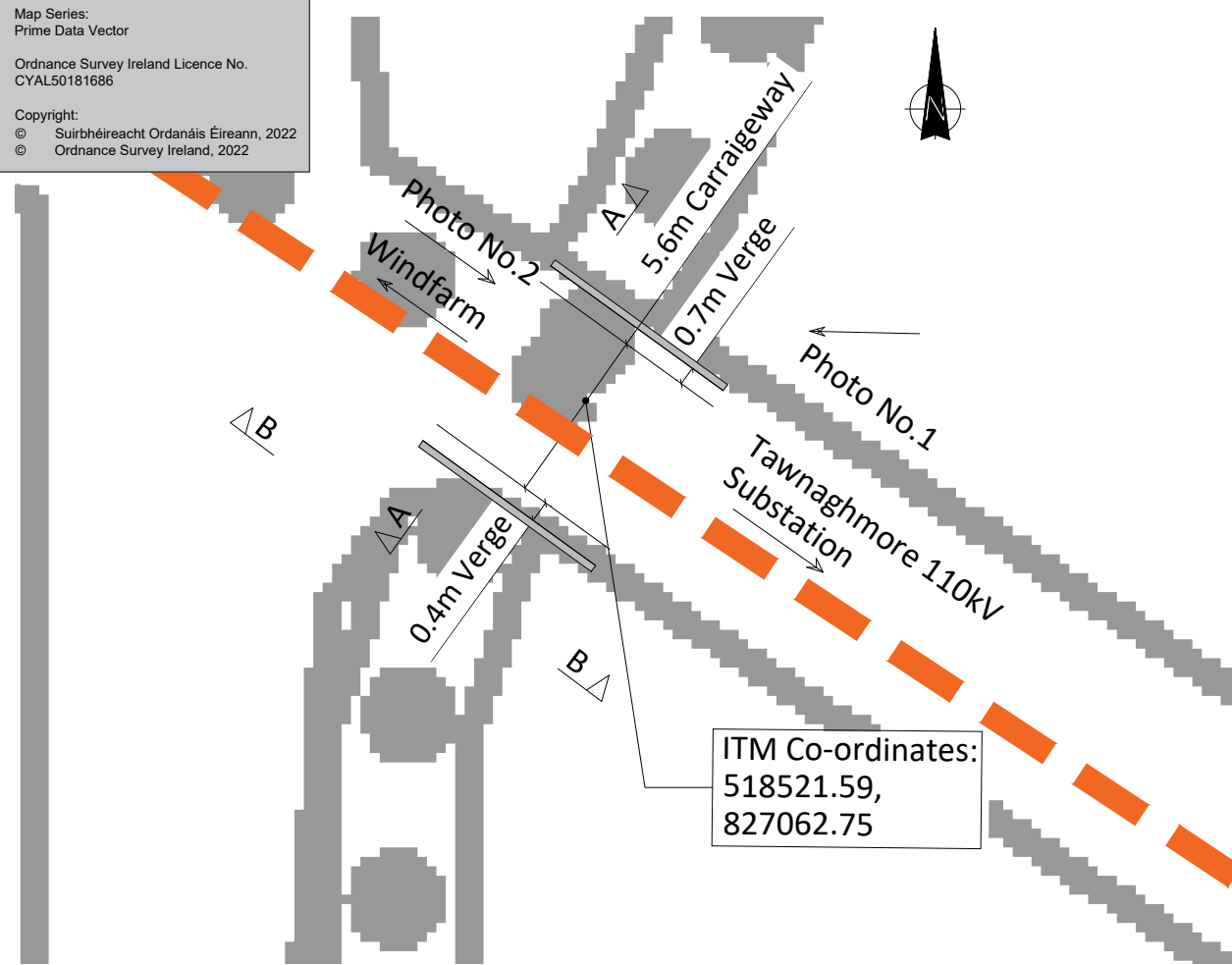
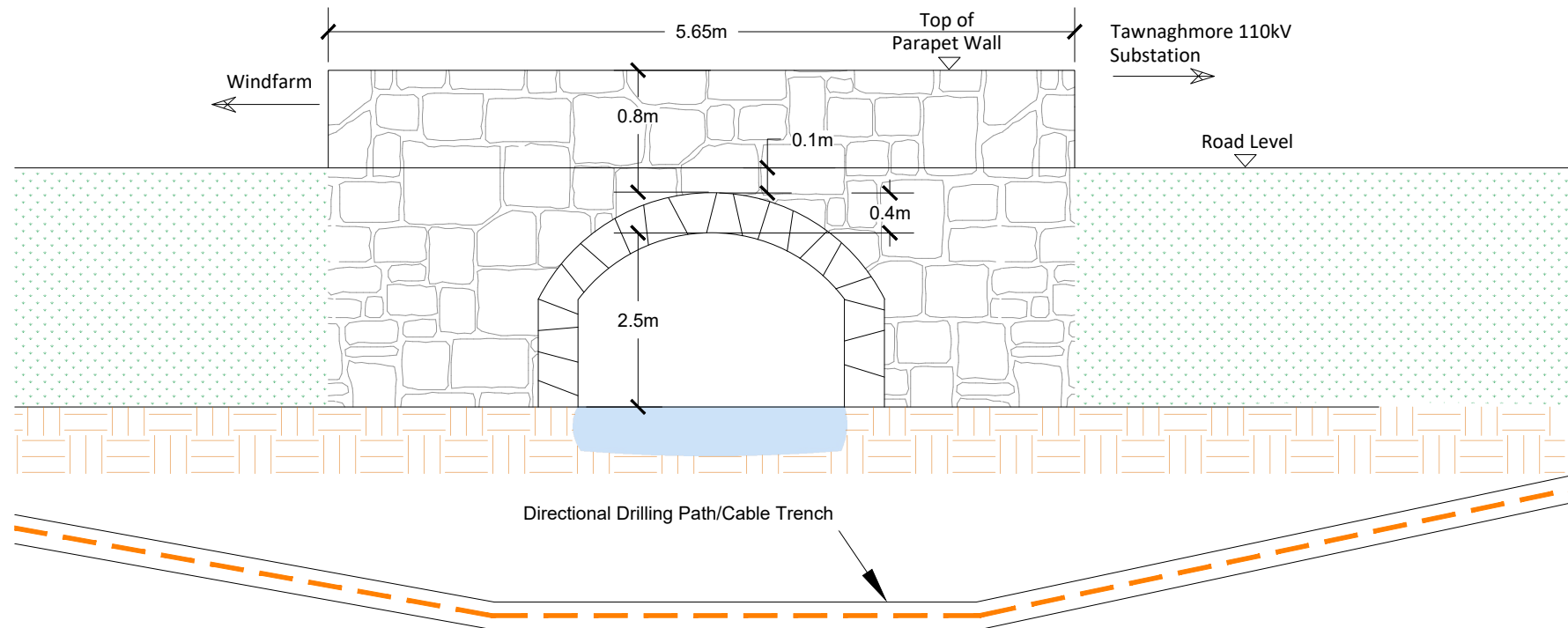


Photo No. 1



Photo No. 2



NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.



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Tralee, Co. Kerry
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PROJECT
Glenora Wind Farm
110kV Grid Connection

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-232

SHEET TITLE
Bridge 2 - Proposed HDD Crossing

DRAWING STATUS
For Information

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I/R	DATE	DESCRIPTION
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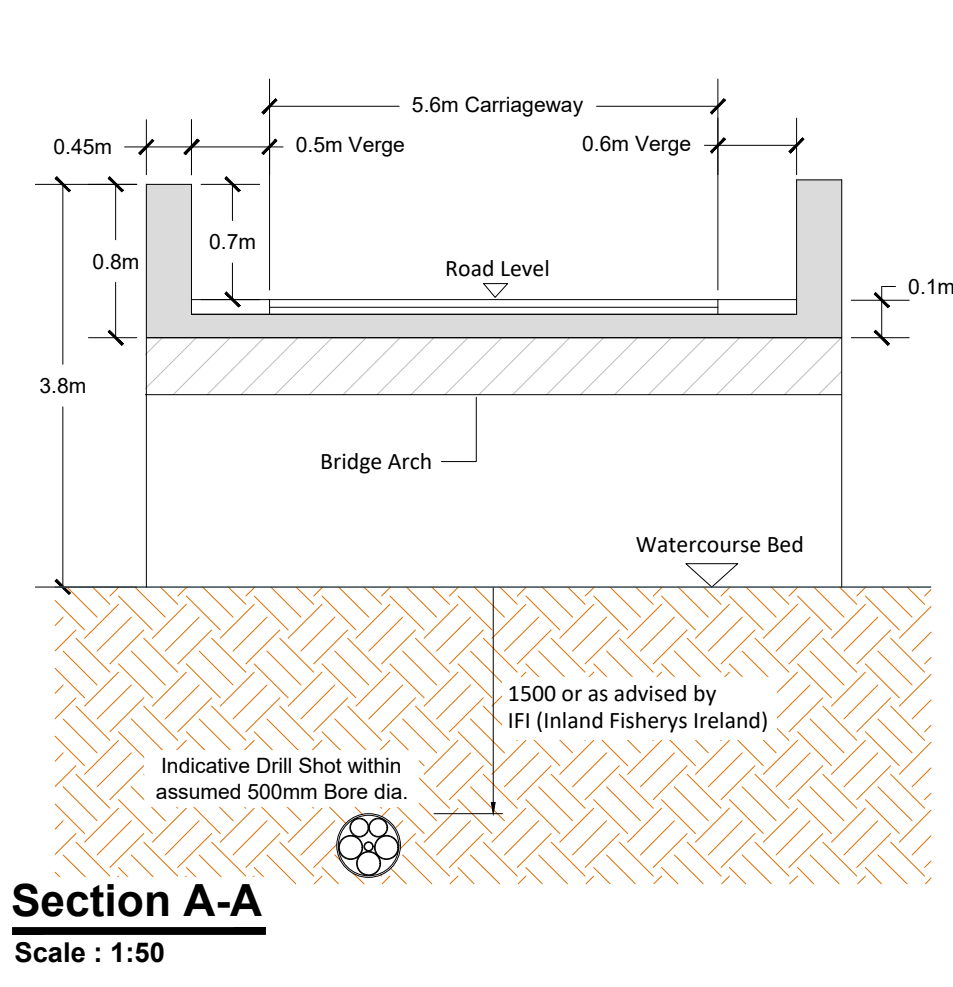
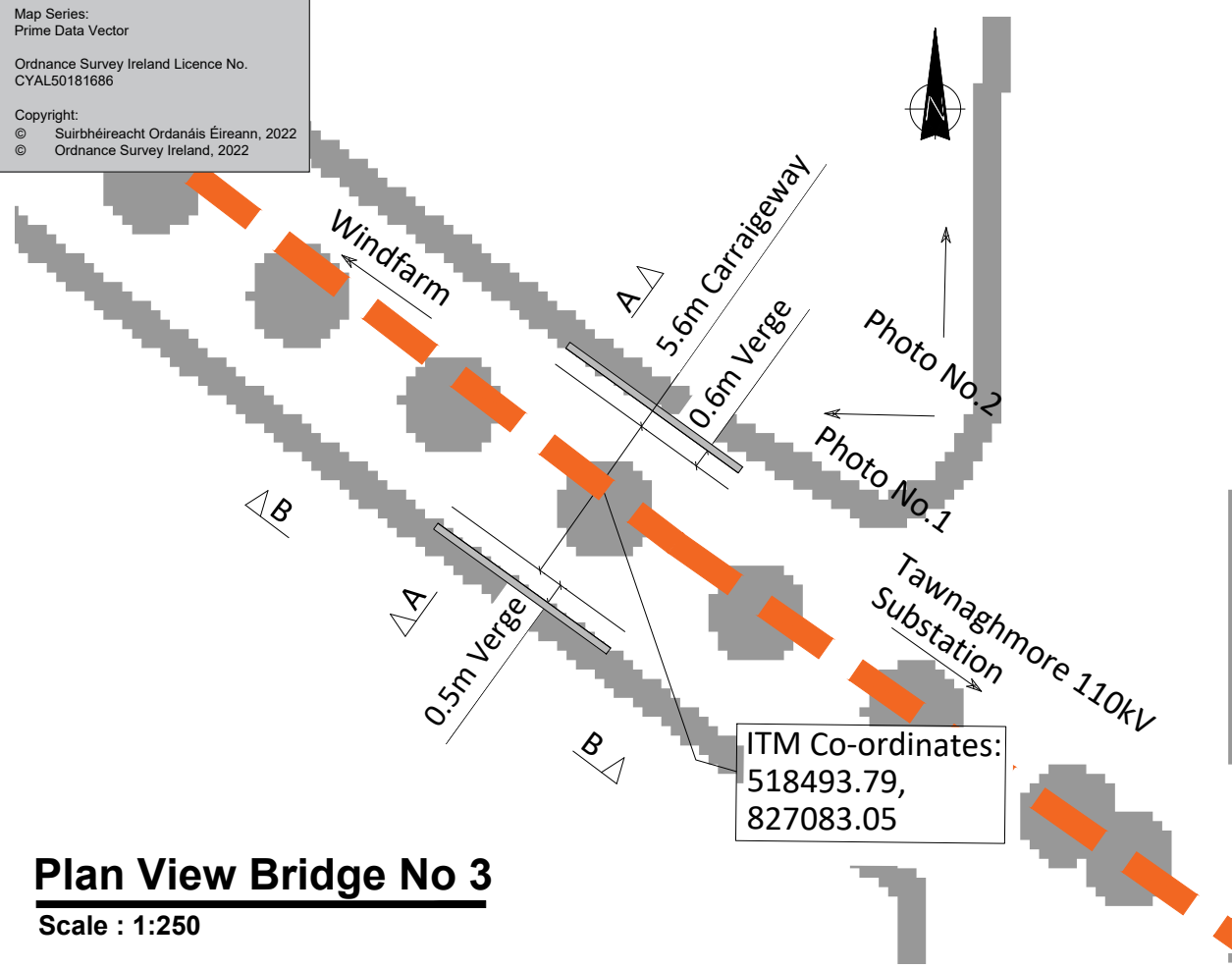
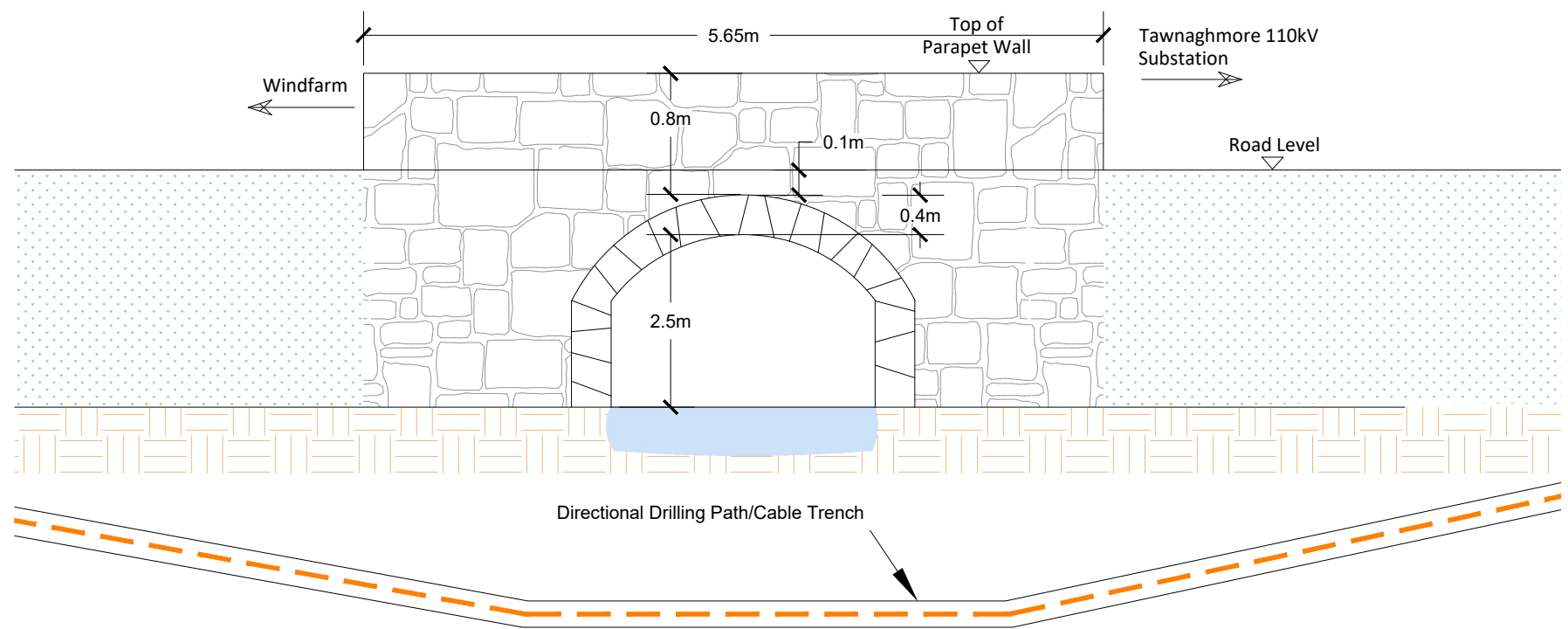


Photo No. 1



Photo No. 2



- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESBN specification requirements for shallow formation, bridge crossings, etc.
 - HDD launch and reception pit locations to be determined following site investigation.



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Abbeydorney,
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Tel: 00353 66 7135710



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FuturEnergy Ireland
SSE Renewables

PROJECT
**Glenora Wind Farm
110kV Grid Connection**

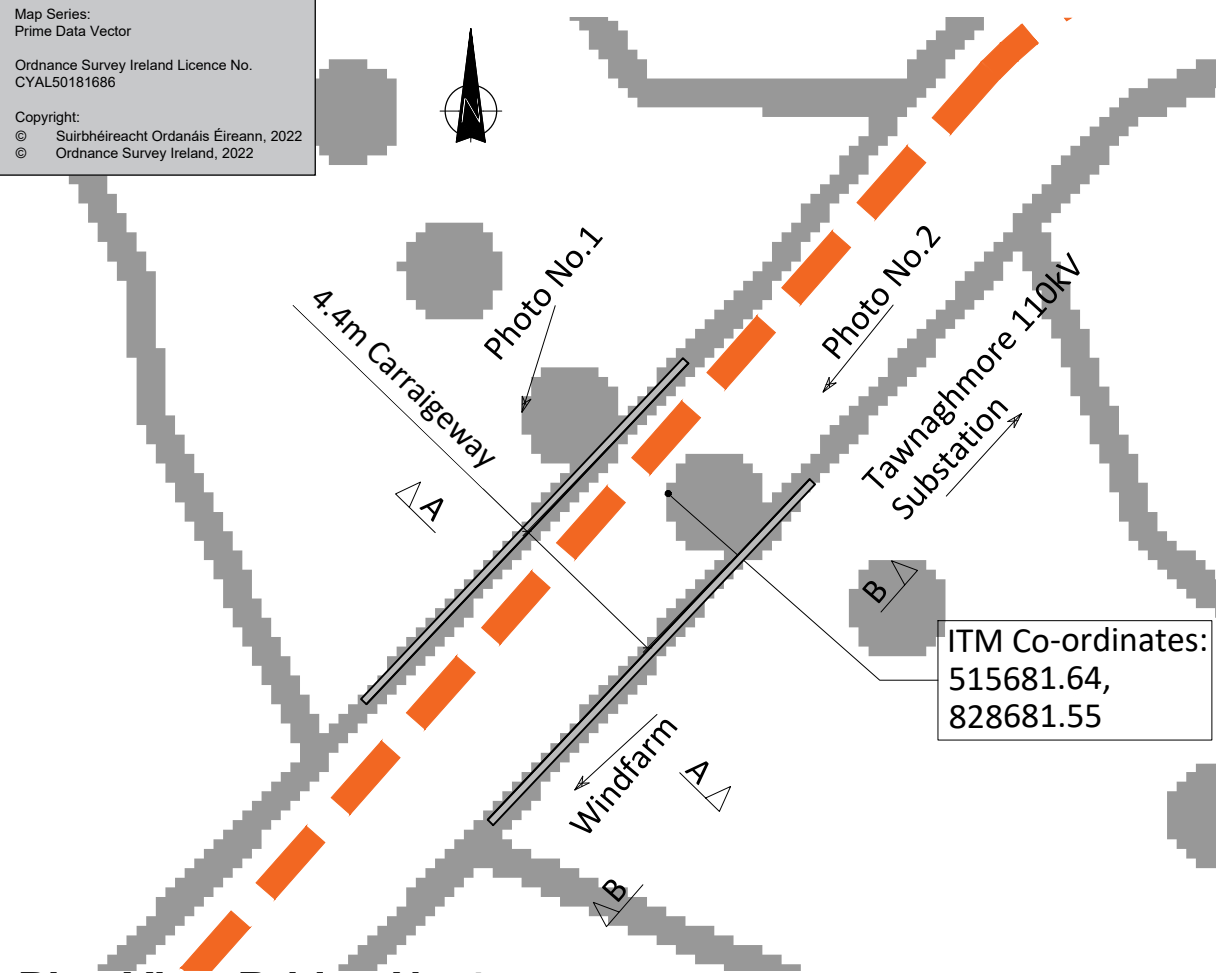
PROJECT NUMBER: 05-795
SHEET NUMBER: 05795-DR-233

SHEET TITLE
Bridge 3 - Proposed HDD Crossing

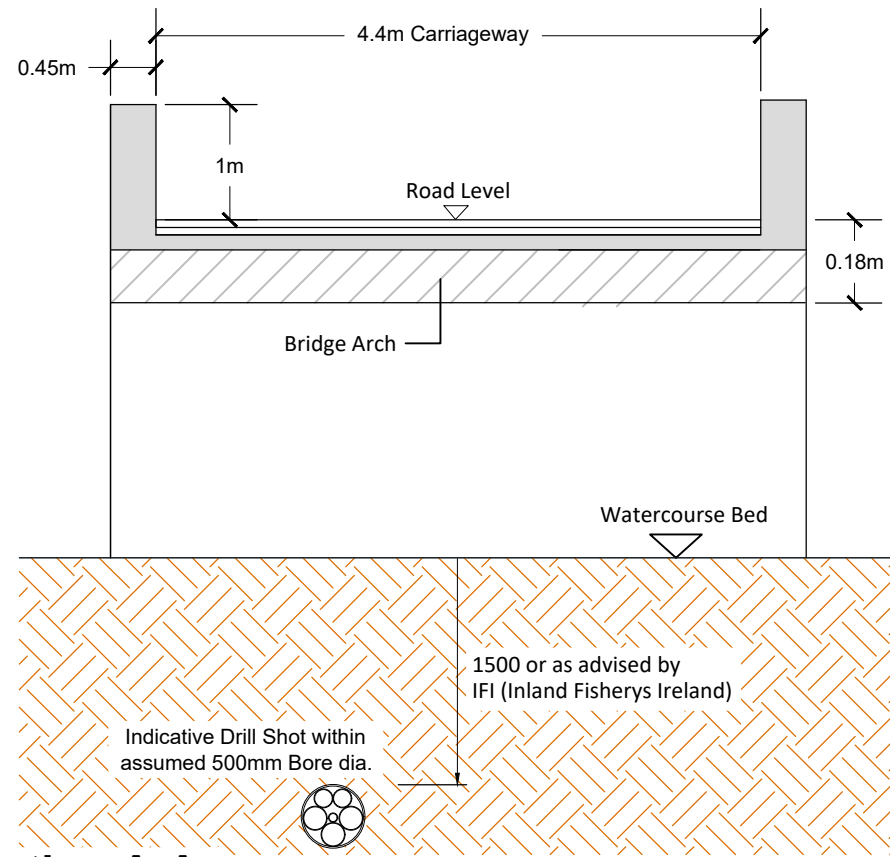
DRAWING STATUS
For Information

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I/R	DATE	DESCRIPTION
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F00	01.07.22	Issued for Information

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Plan View Bridge No 4
Scale : 1:250



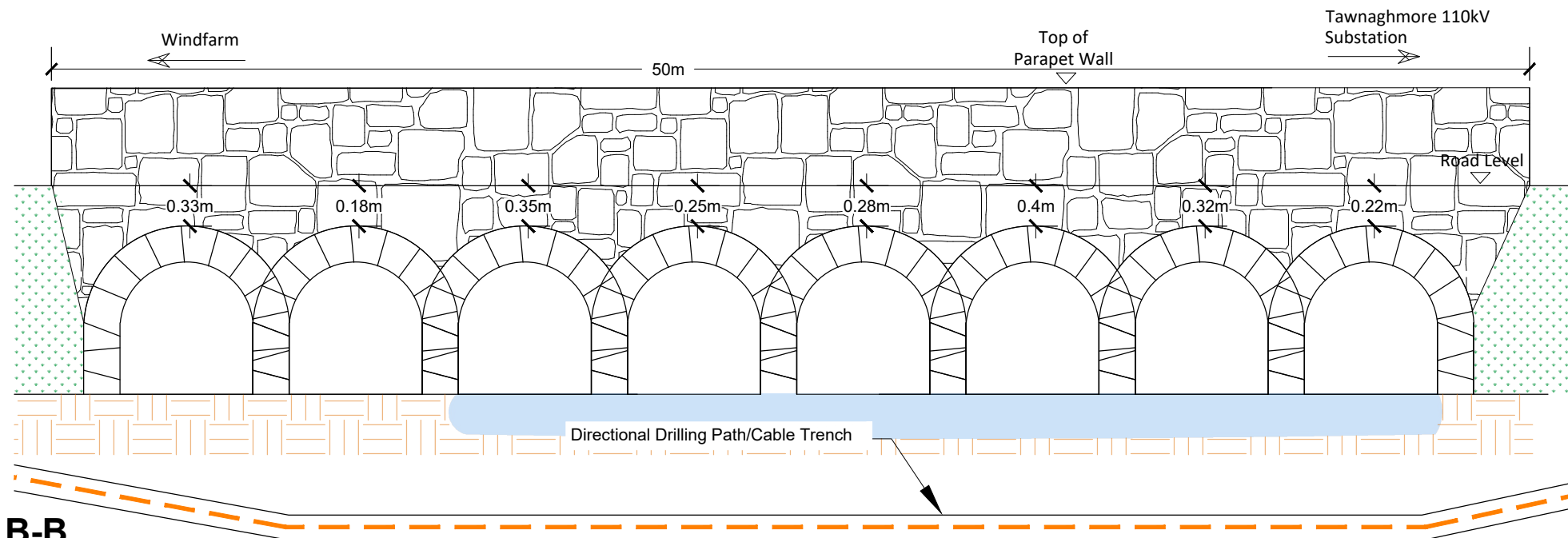
Section A-A
Scale : 1:50



Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
- No structural bridge surveys have been carried out and the proposals are subject to detail design.
- Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
- HDD launch and reception pit locations to be determined following site investigation.



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Tel: 00353 66 7135710



PROJECT
**Glenora Wind Farm
110kV Grid Connection**
PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-234

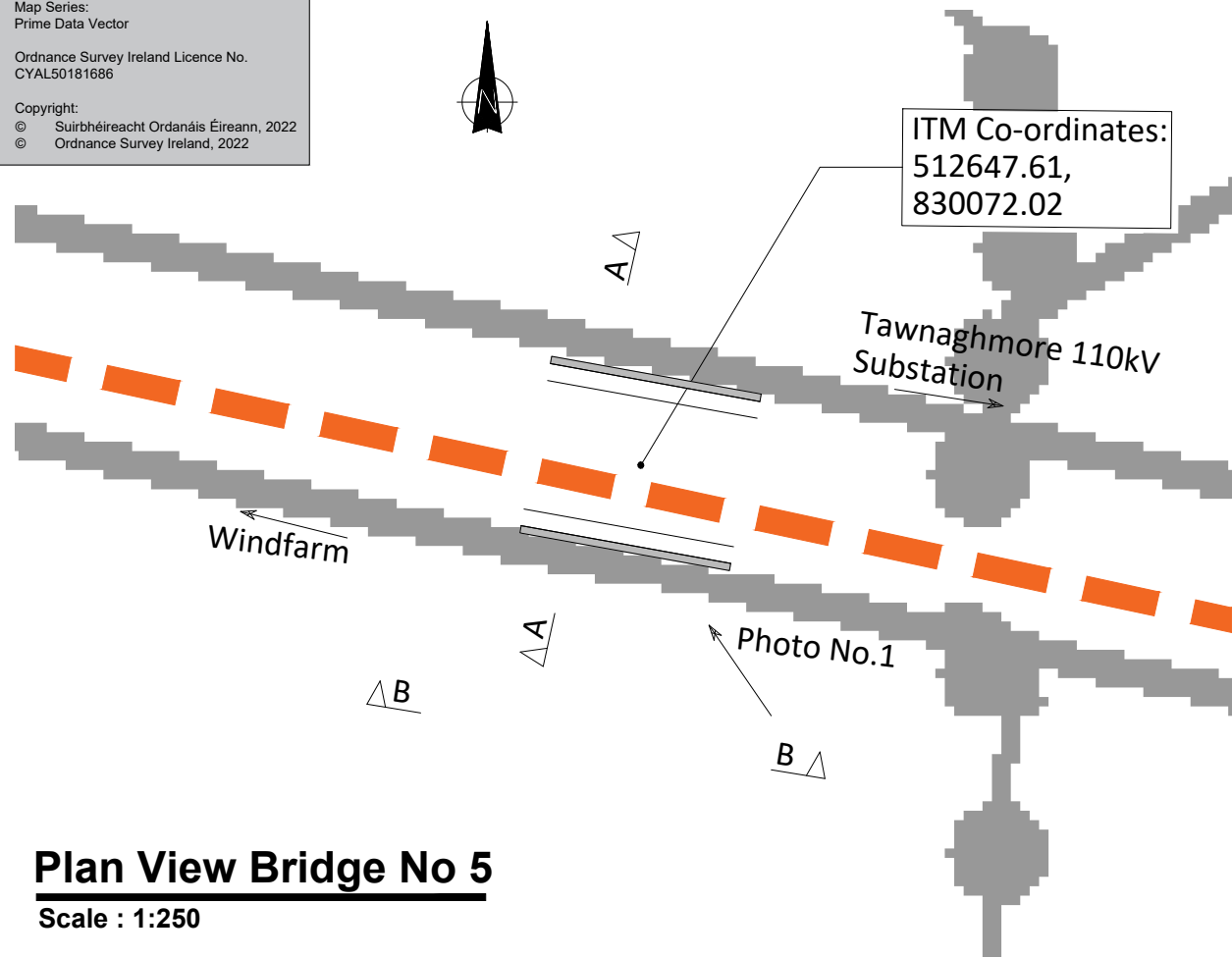
SHEET TITLE
Bridge 4 - Proposed HDD Crossing
DRAWING STATUS
For Information

ISSUE/REVISION		
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I/R	DATE	DESCRIPTION

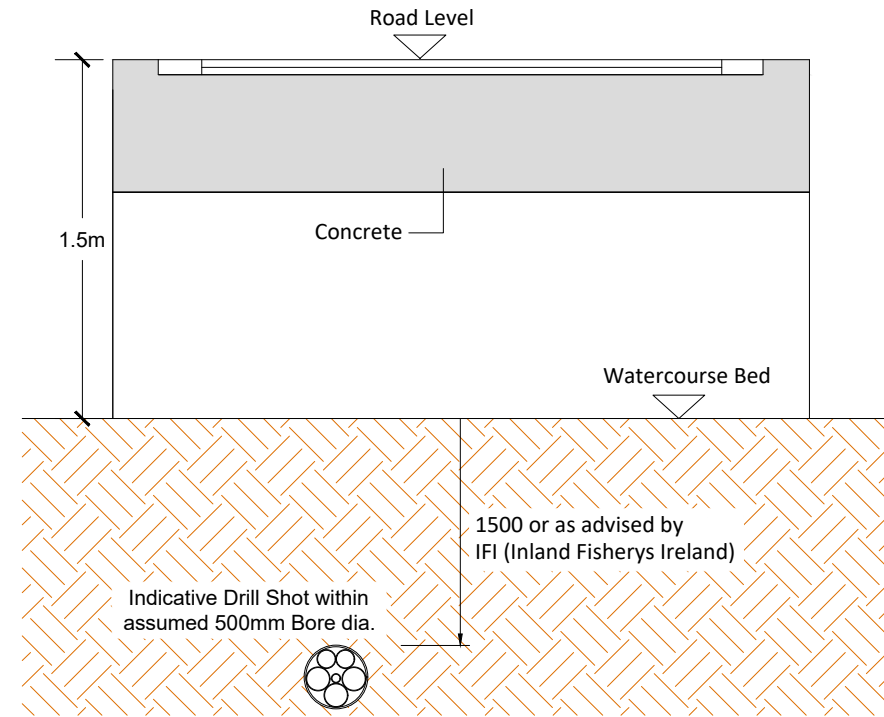
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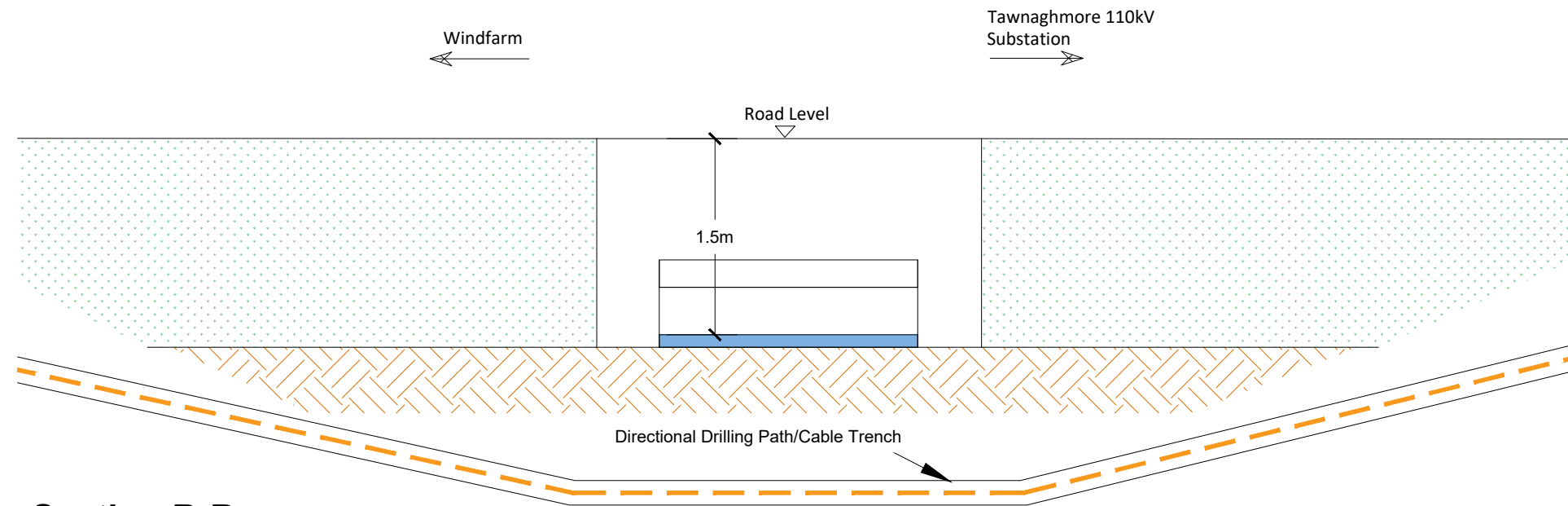
Plan View Bridge No 5
Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.



Head Office
Beenreigh,
Abbeydorney,
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PROJECT
**Glenora Wind Farm
110kV Grid Connection**

PROJECT NUMBER
05-795

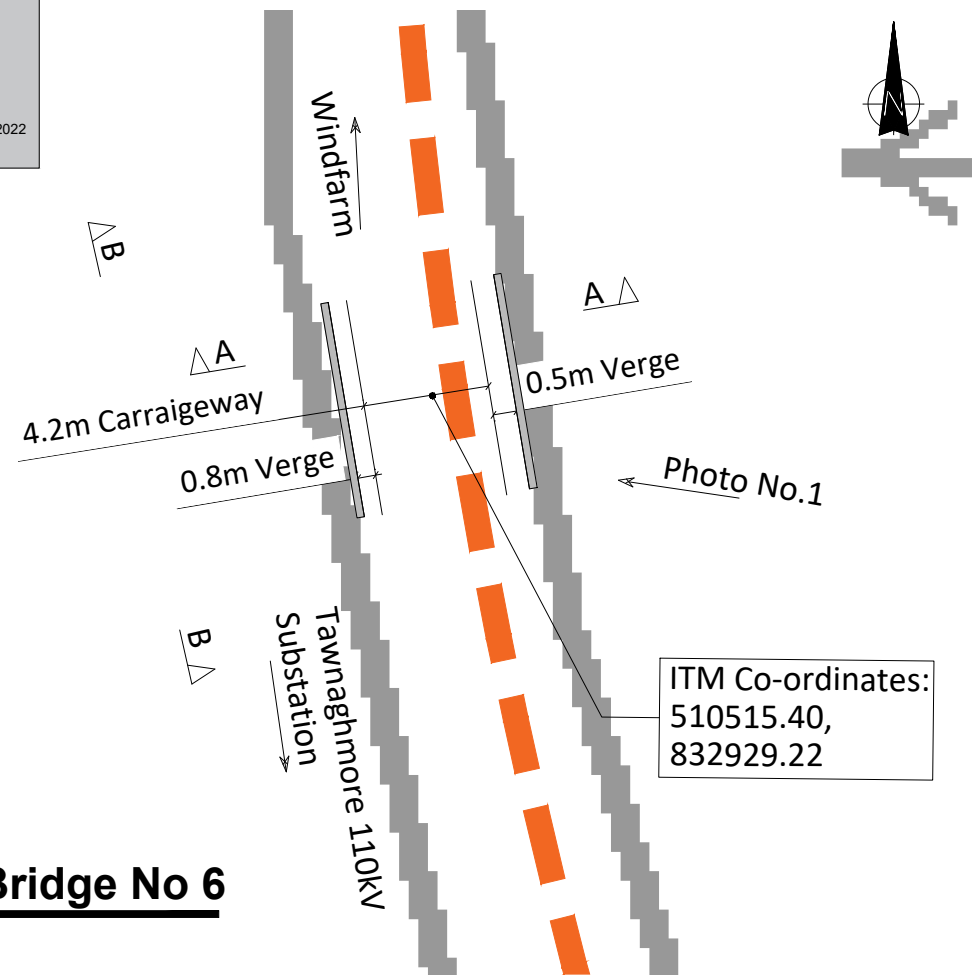
SHEET NUMBER
05795-DR-235

SHEET TITLE
Bridge 5 - Proposed Crossing

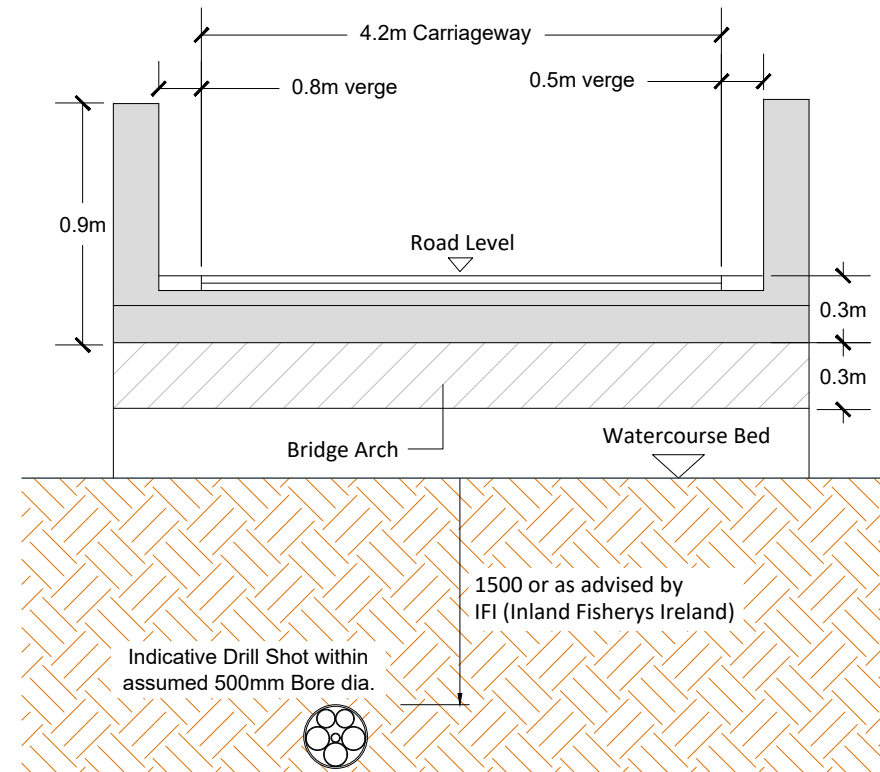
DRAWING STATUS
For Information

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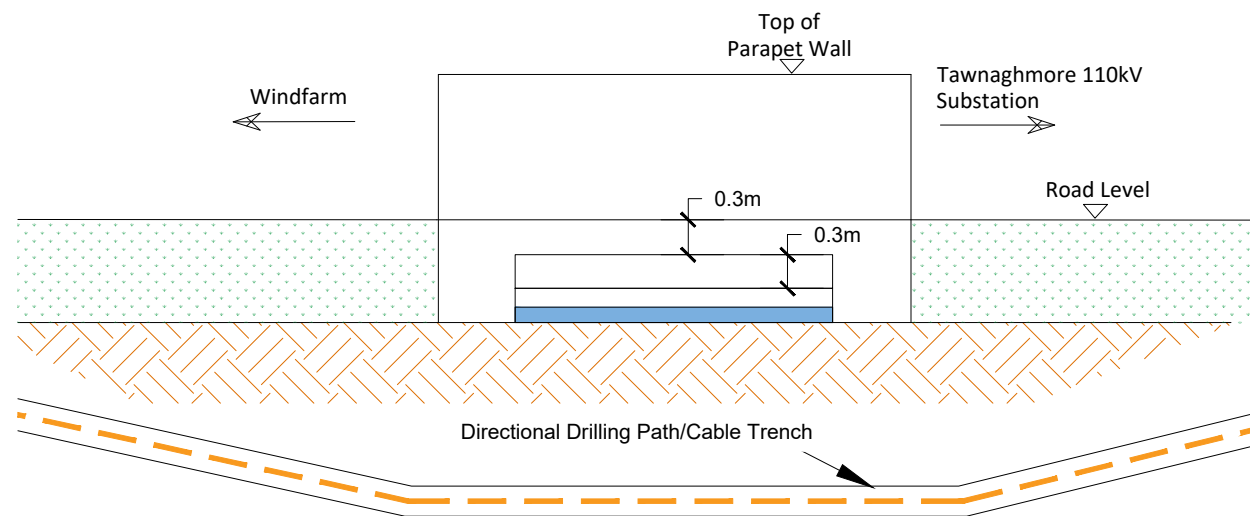
Plan View Bridge No 6
Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
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- HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
**Glenora Wind Farm
110kV Grid Connection**

PROJECT NUMBER
05-795

SHEET NUMBER
05795-DR-236

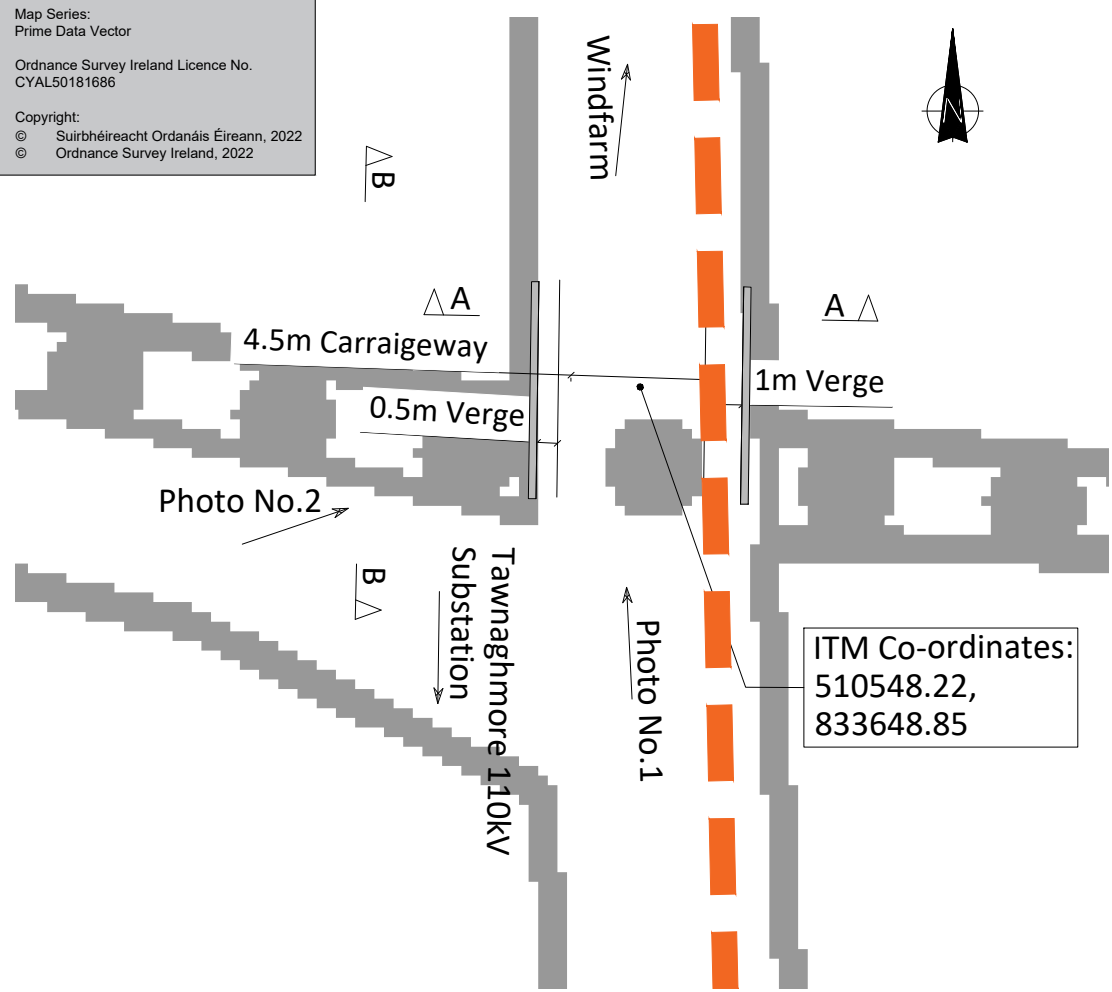
SHEET TITLE
Bridge 6 - Proposed HDD Crossing

DRAWING STATUS
For Information

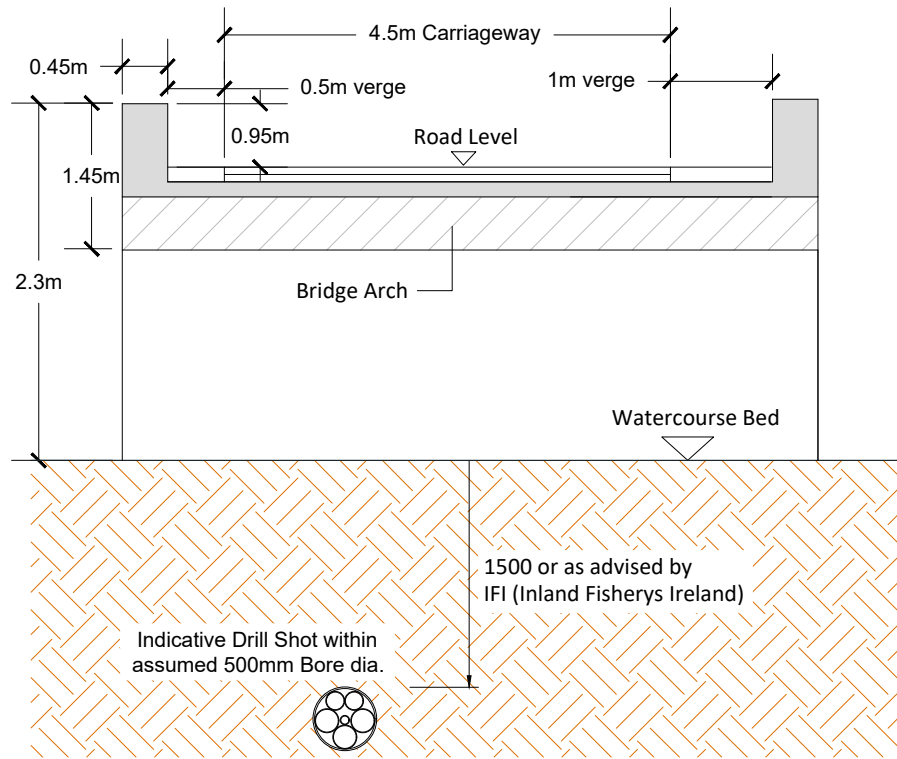
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NO.	DATE	DESCRIPTION
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Plan View Bridge No 7
Scale : 1:250



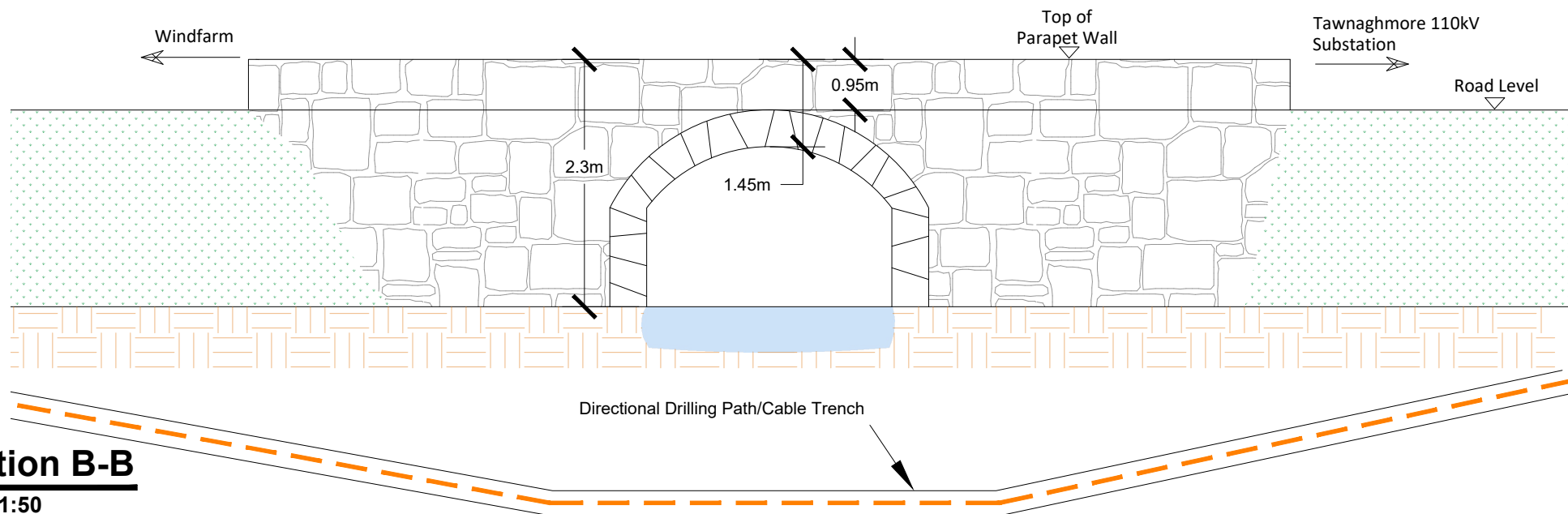
Section A-A
Scale : 1:50



Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
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PROJECT
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110kV Grid Connection**

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05-795

SHEET NUMBER
05795-DR-237

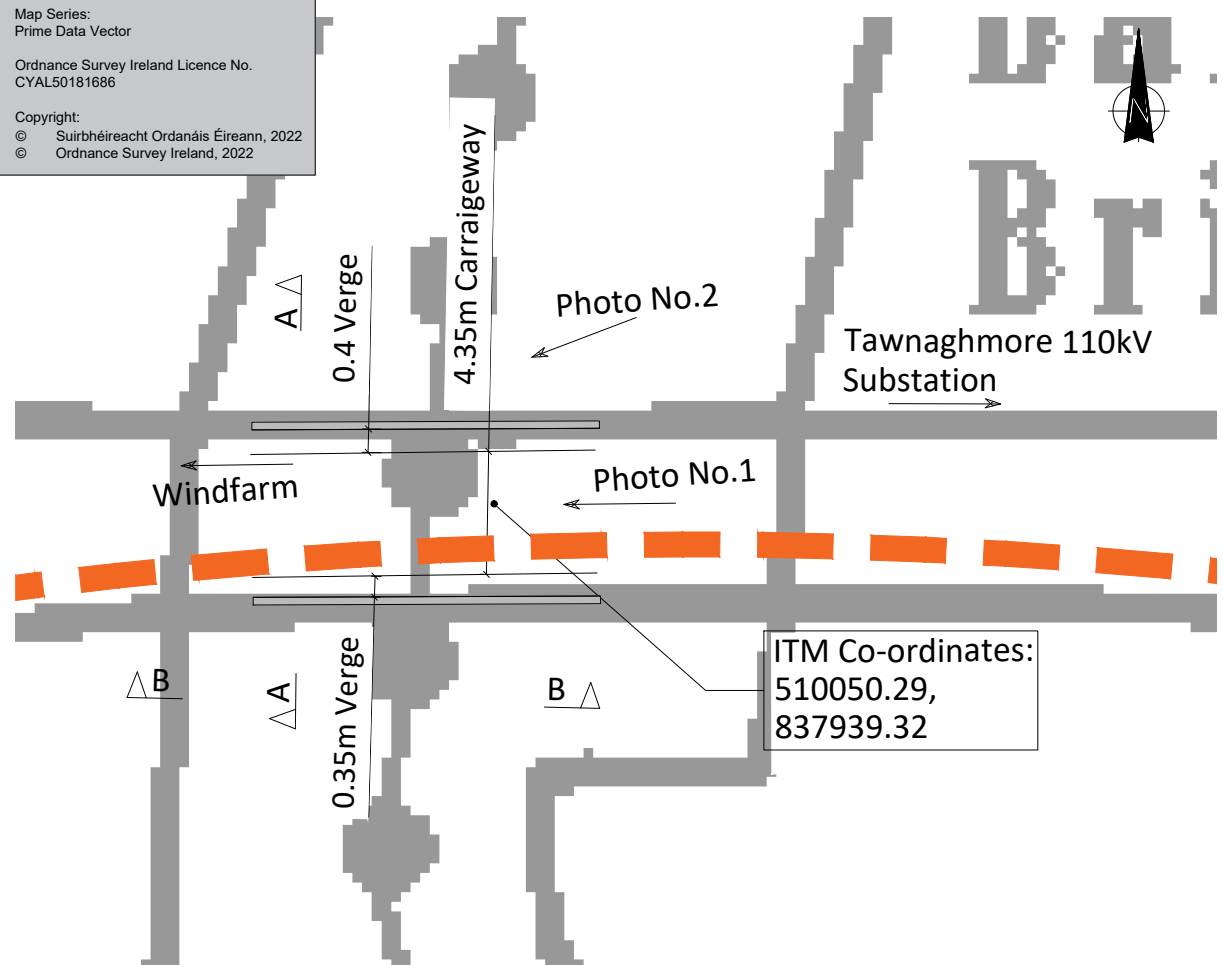
SHEET TITLE
Bridge 7 - Proposed HDD Crossing

DRAWING STATUS
For Information

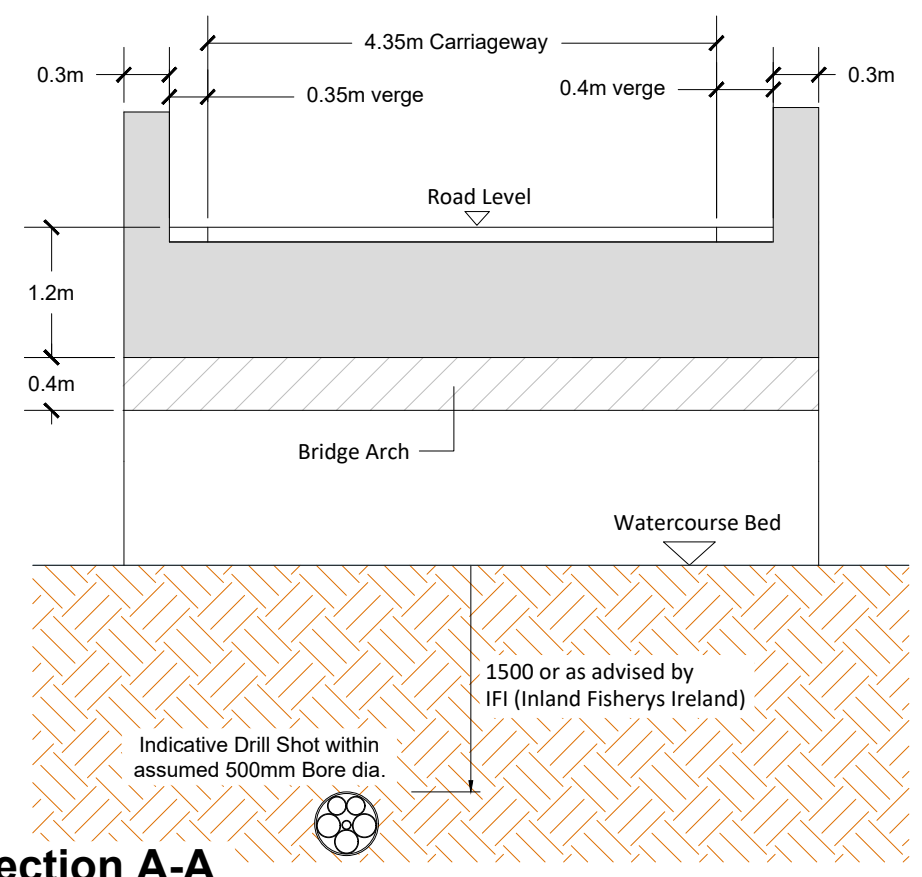
ISSUE/REVISION

ISSUE/REVISION	DATE	DESCRIPTION
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Plan View Bridge No 8
Scale : 1:250



Section A-A
Scale : 1:50

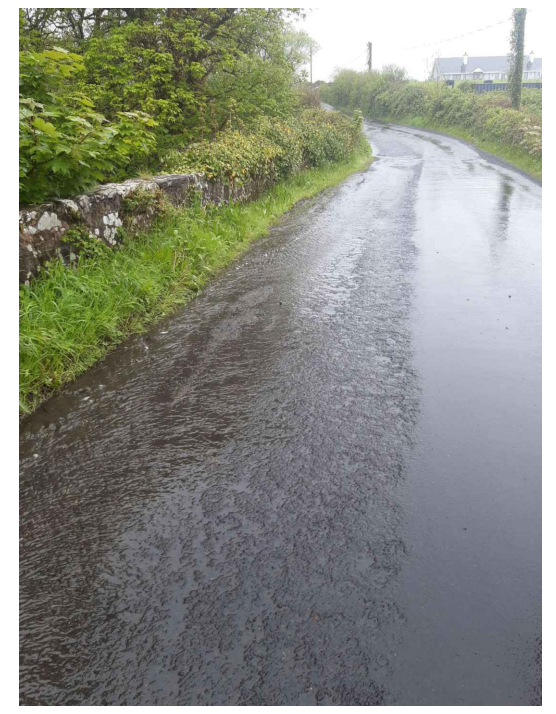


Photo No. 1

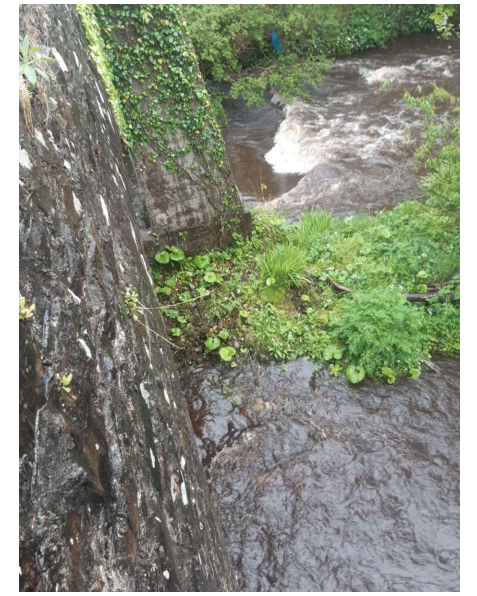
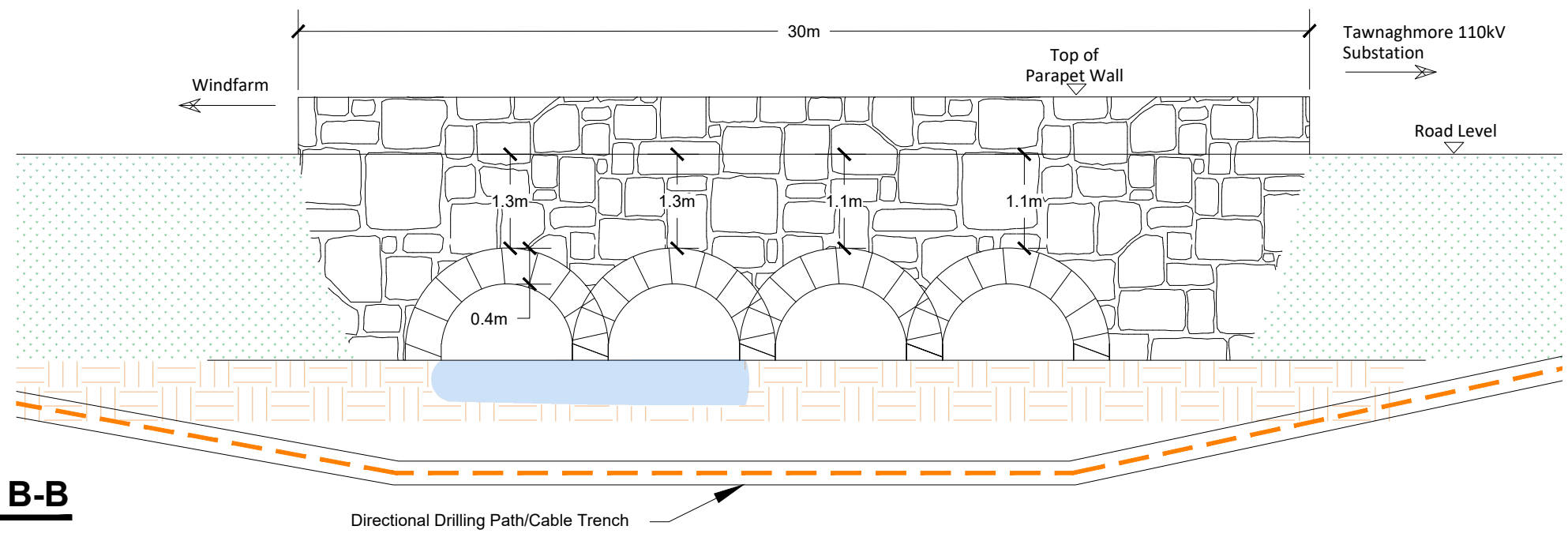


Photo No. 2



Section B-B
Scale 1:50

- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
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PROJECT
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110kV Grid Connection**

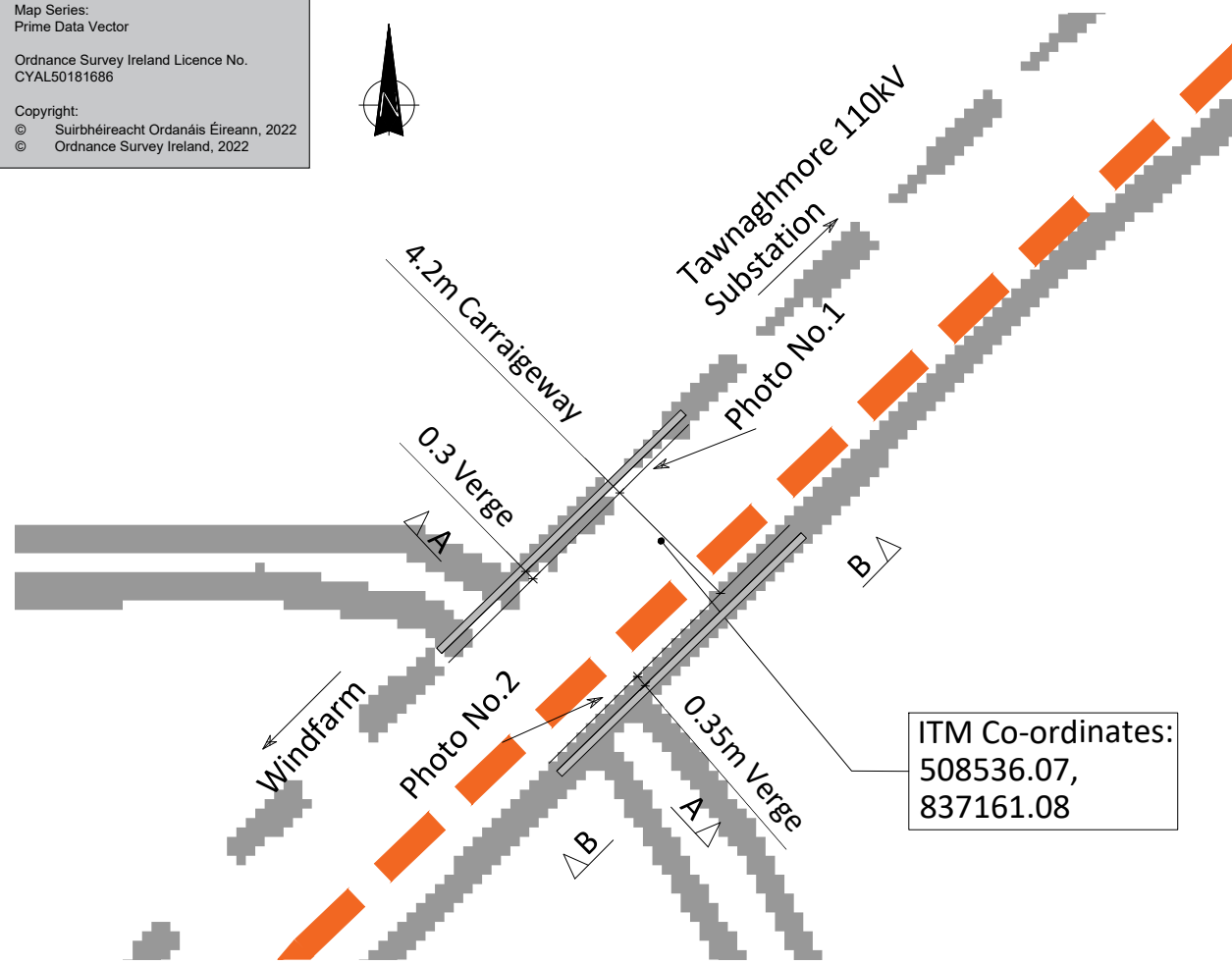
PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-238

SHEET TITLE
Bridge 8 - Proposed HDD Crossing

DRAWING STATUS
For Information

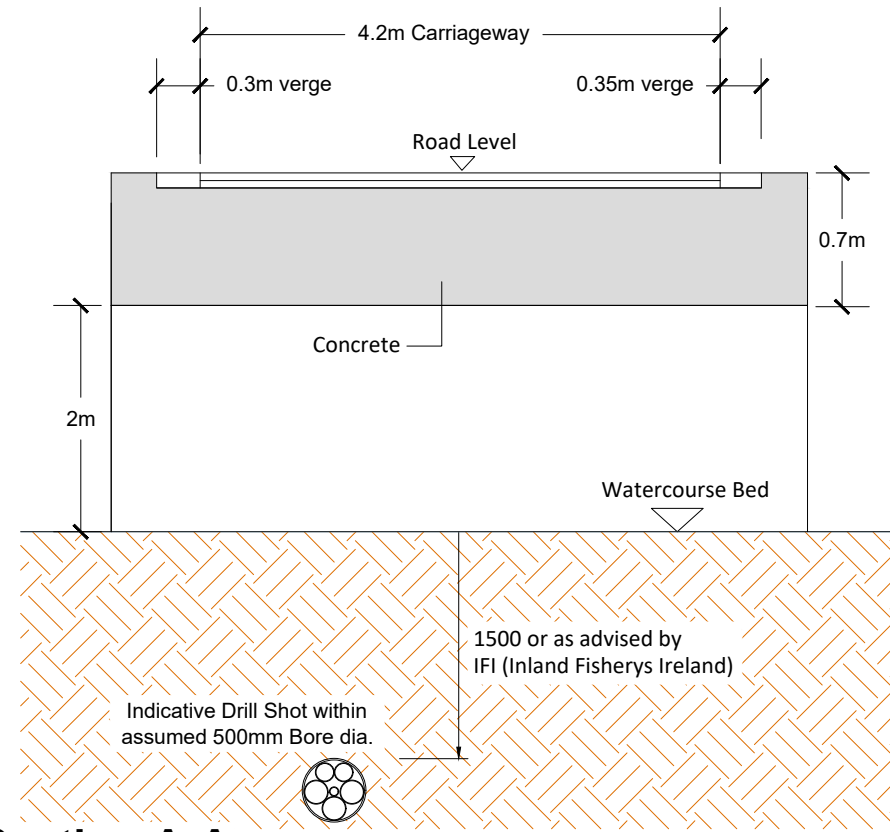
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Plan View Bridge No 9
Scale : 1:250

ITM Co-ordinates:
508536.07,
837161.08



Section A-A
Scale : 1:50

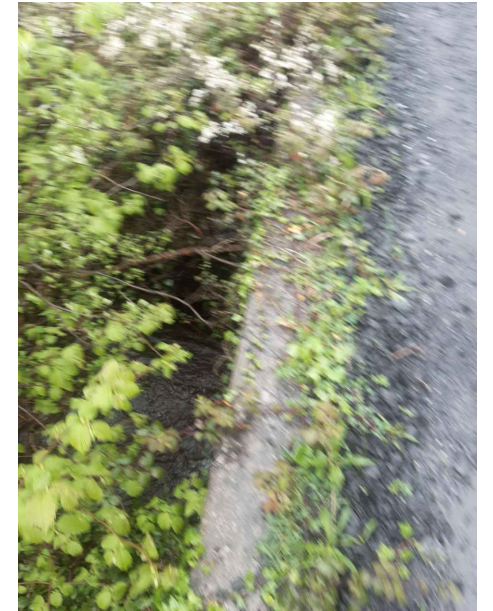
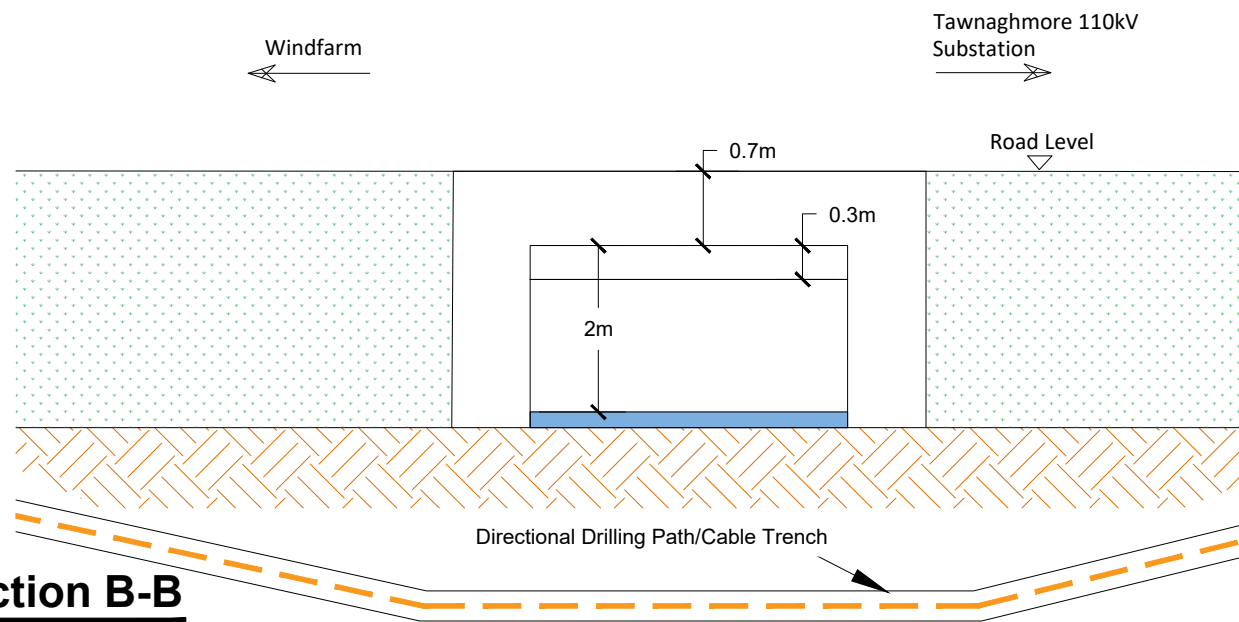


Photo No. 1



Photo No. 2



Section B-B
Scale 1:50

NOTES:

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- HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
**Glenora Wind Farm
110kV Grid Connection**

PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-239

SHEET TITLE
Bridge 9 - Proposed HDD Crossing

DRAWING STATUS
For Information

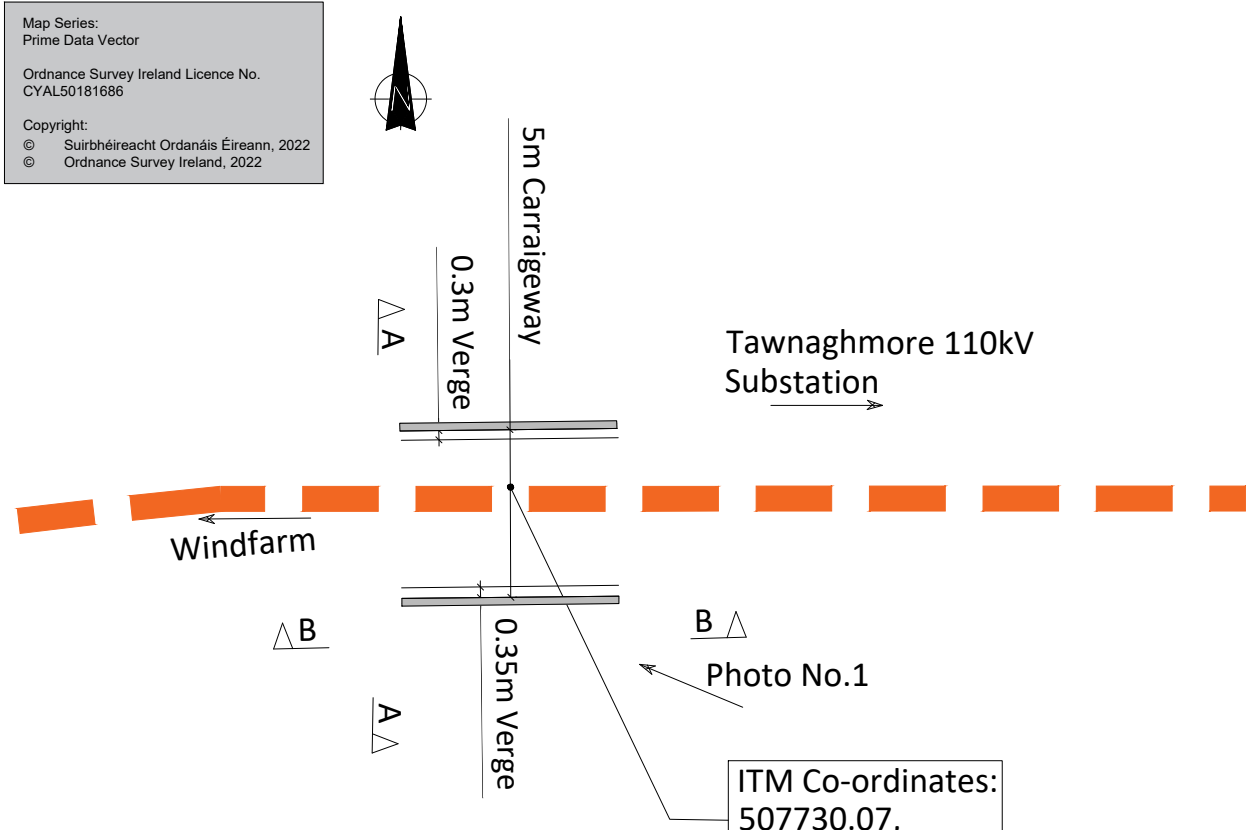
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ISSUE/REVISION	DATE	DESCRIPTION
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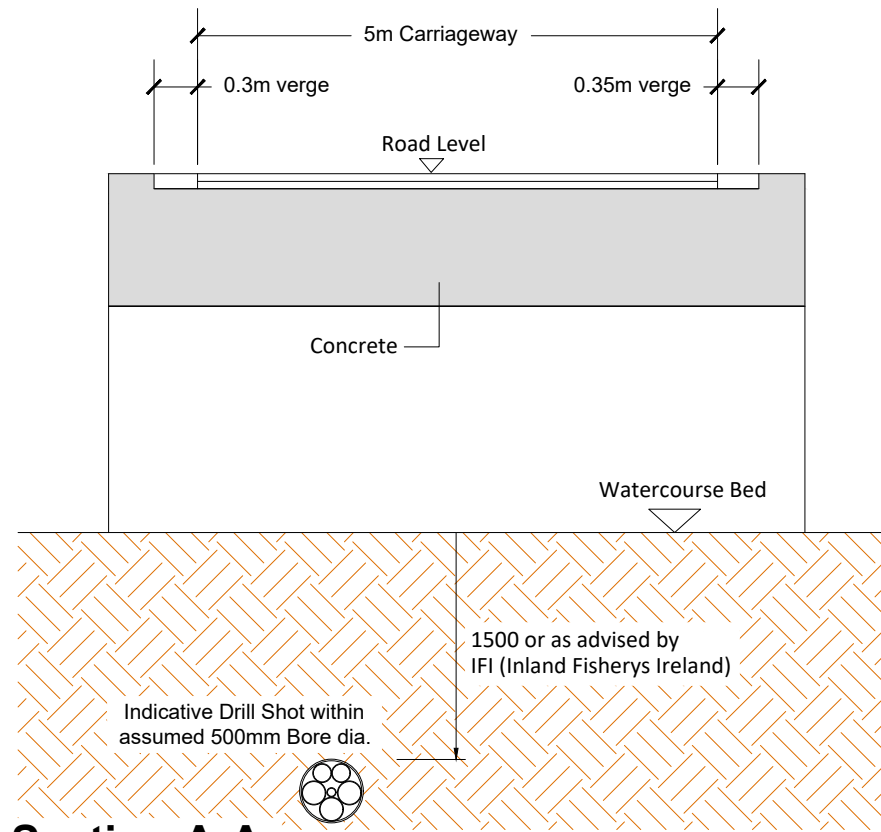
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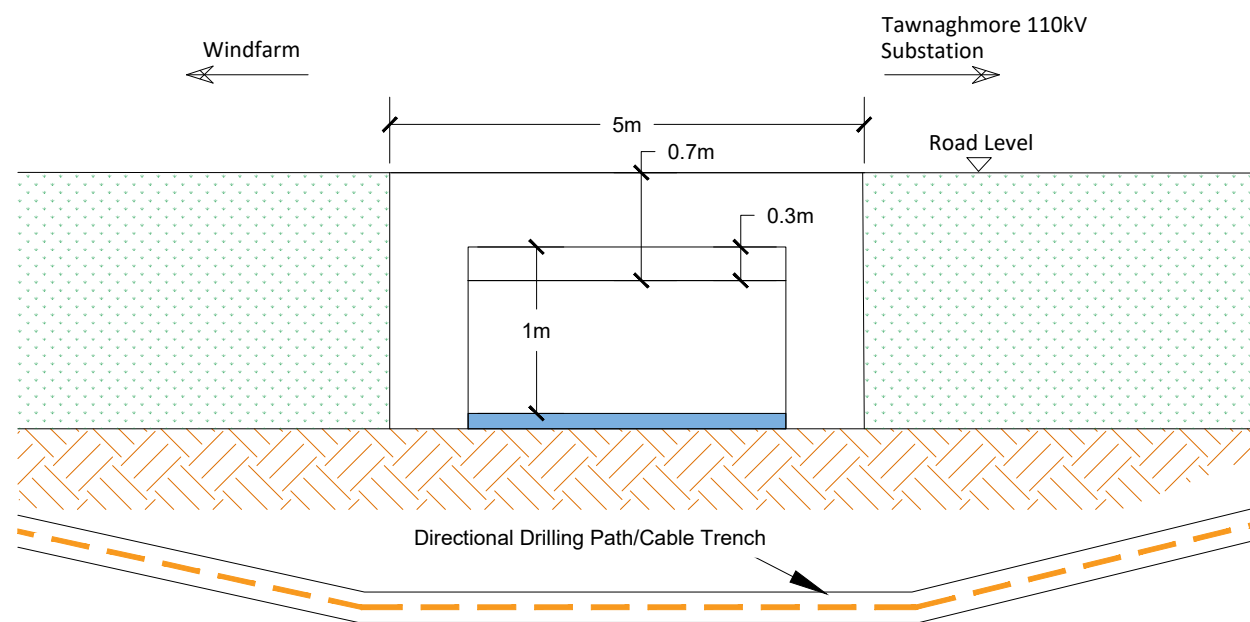
Plan View Bridge No 10
Scale : 1:250



Section A-A
Scale : 1:50



Photo No. 1



Section B-B
Scale 1:50

NOTES:

- All dimensions are shown in meters unless otherwise stated.
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- HDD launch and reception pit locations to be determined following site investigation.



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FuturEnergy Ireland
PROJECT
**Glenora Wind Farm
110kV Grid Connection**

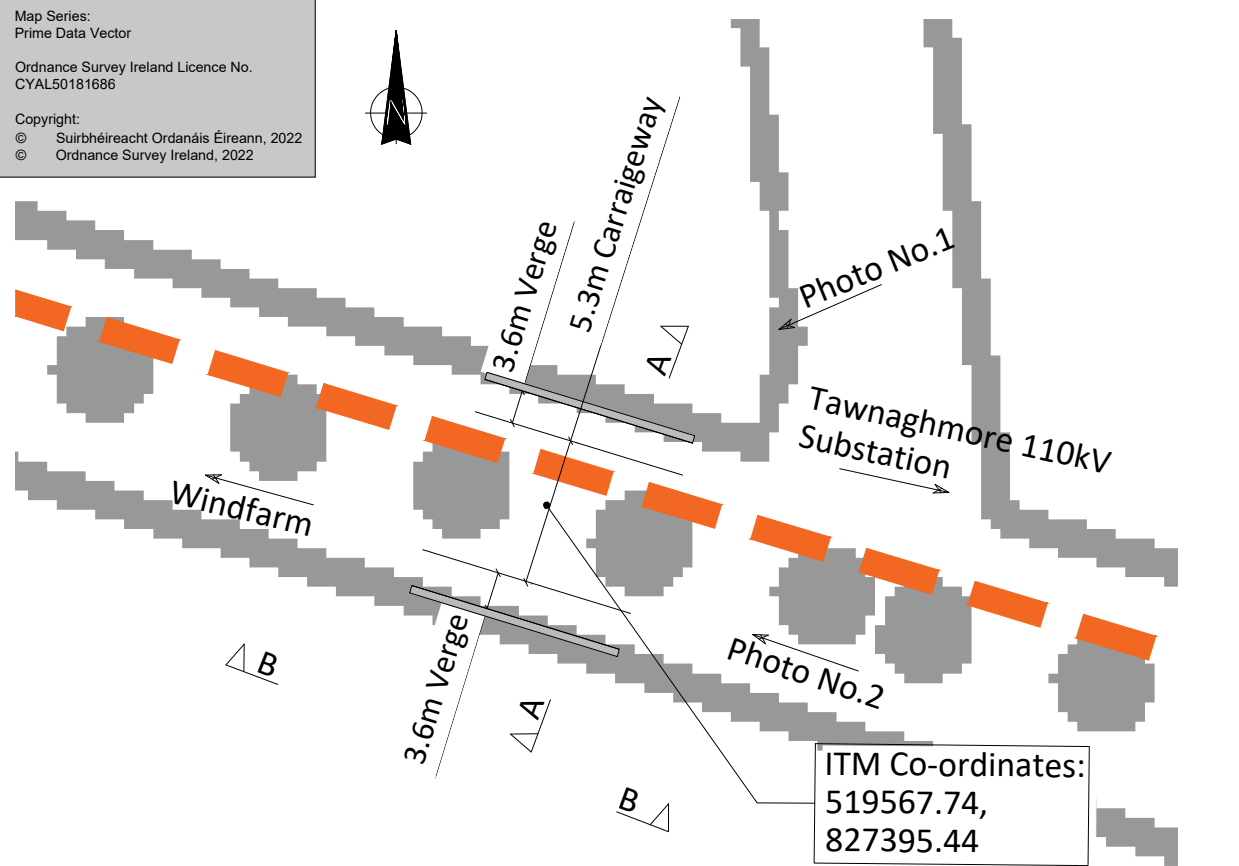
PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-240

SHEET TITLE
Bridge 10 - Proposed HDD Crossing

DRAWING STATUS
For Information

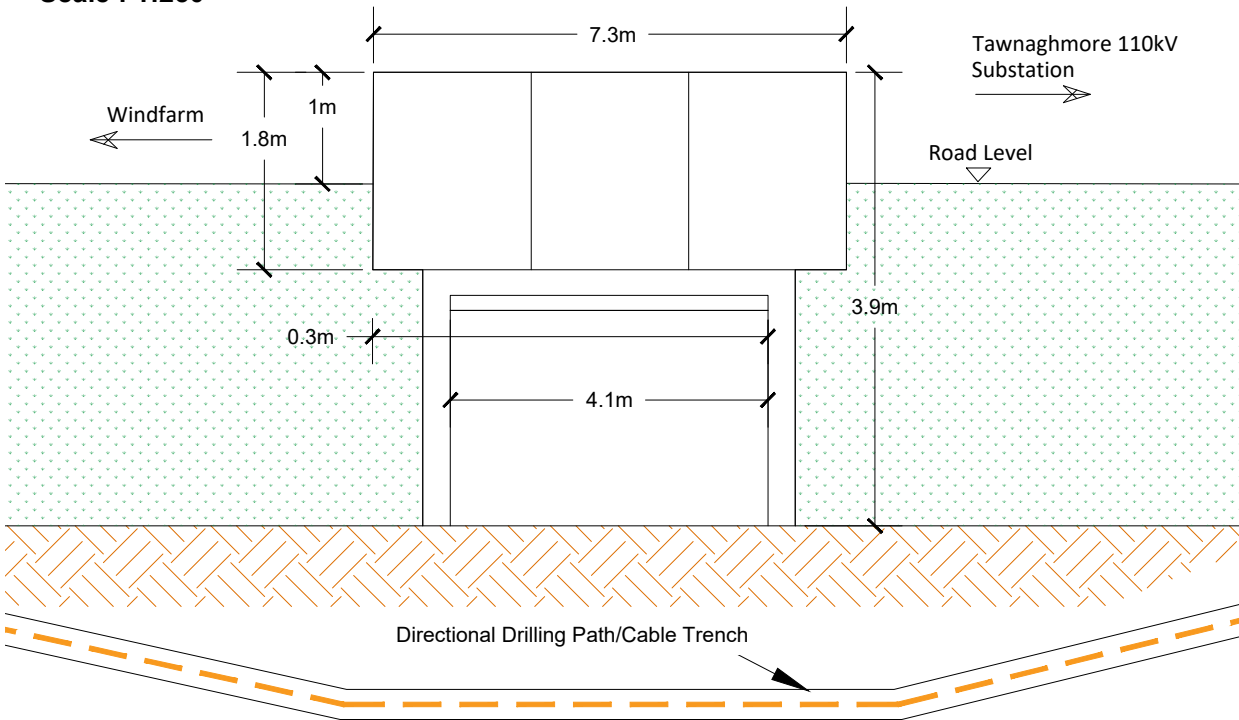
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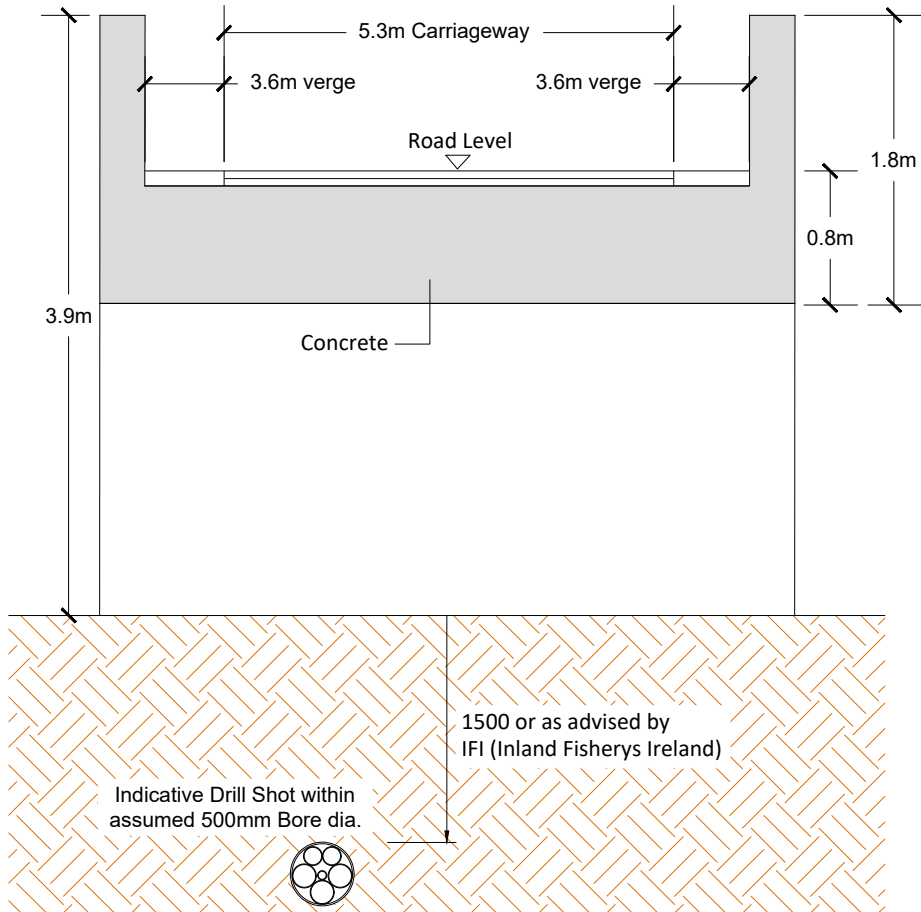
Plan View Cattle Underpass

Scale : 1:250



Section B-B

Scale 1:50



Section A-A

Scale : 1:50



Photo No. 1



Photo No. 2

- NOTES:**
- All dimensions are shown in meters unless otherwise stated.
 - No structural bridge surveys have been carried out and the proposals are subject to detail design.
 - Drawings are in compliance with ESNB specification requirements for shallow formation, bridge crossings, etc.
 - HDD launch and reception pit locations to be determined following site investigation.



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PROJECT
**Glenora Wind Farm
110kV Grid Connection**
PROJECT NUMBER
05-795
SHEET NUMBER
05795-DR-241

SHEET TITLE
**Cattle underpass proposed
HDD crossing**
DRAWING STATUS
For Information

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Map Series:
 1:5,000 Prime Data Raster

Sheet Reference No.'s
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	Description
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
DT	Disconnect
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
LM	Lighting Mast.
LS	Lamp Standard
CSE	Cable Sealing End

Drawing Notes:

- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
- Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
- Final Specifications of Buildings and Electrical Equipment is to be as per EirGrid and ESB Specifications.
- The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.
- An oil interceptor will be installed below ground, position TBC during detailed design.

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I/R	DATE	DESCRIPTION
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Substation Layout Plan
 Scale : 1:500

PROJECT

**Glenora Wind Farm
 110kV Grid Connection**

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NOTES: -

1. Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
2. Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
3. Final Specifications of Buildings and Electrical Equipment is to be as per Eirgrid and ESB Specifications.
4. The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are associated.

LEGEND: -

	Description
SA	Surge Arrester.
DL/DE	Line / Earth Disconnect.
DT	Disconnect
VT	Voltage Transformer.
CT	Current Transformer.
CB	Circuit Breaker.
PI	Post Insulator.
LM	Lighting Mast.
LS	Lamp Standard
CSE	Cable Sealing End

ISSUE/REVISION

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PROJECT NUMBER

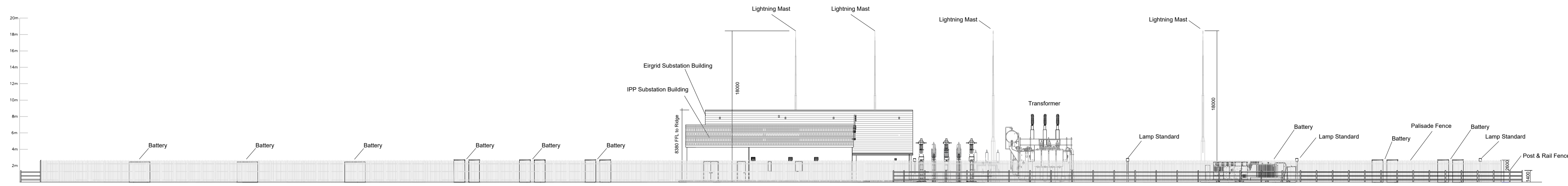
05-795

SHEET TITLE

Substation Elevations

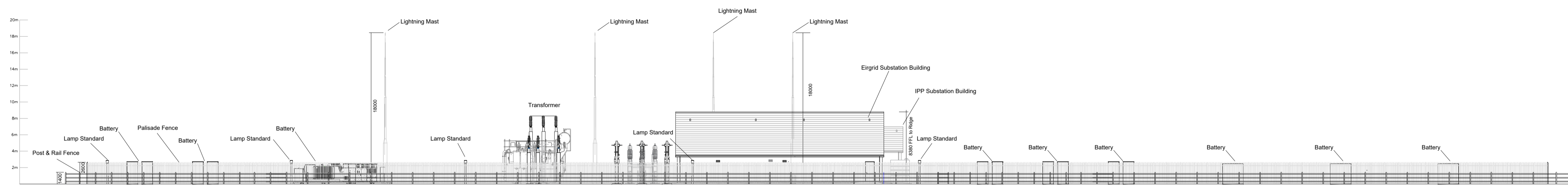
SHEET NUMBER

05795-DR-303



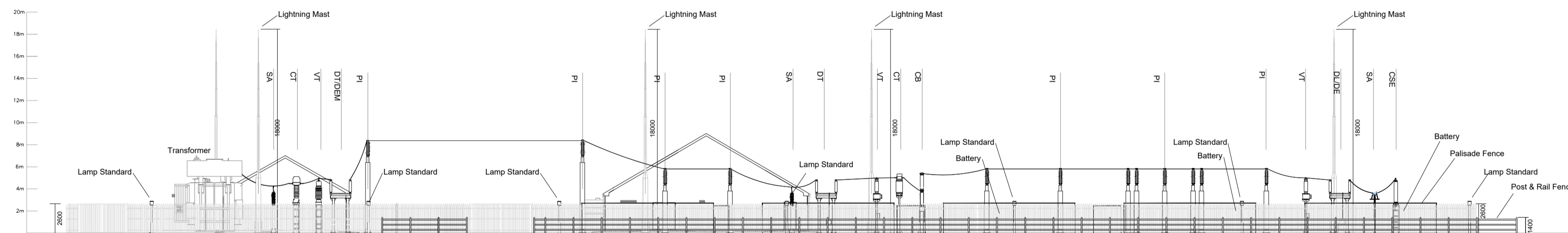
Section A-A Elevation

SCALE 1:200



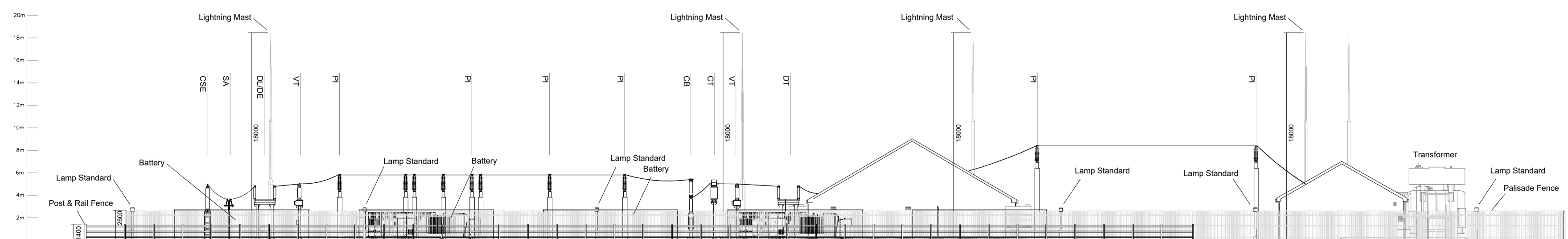
Section B-B Elevation

SCALE 1:200



Section C-C Elevation

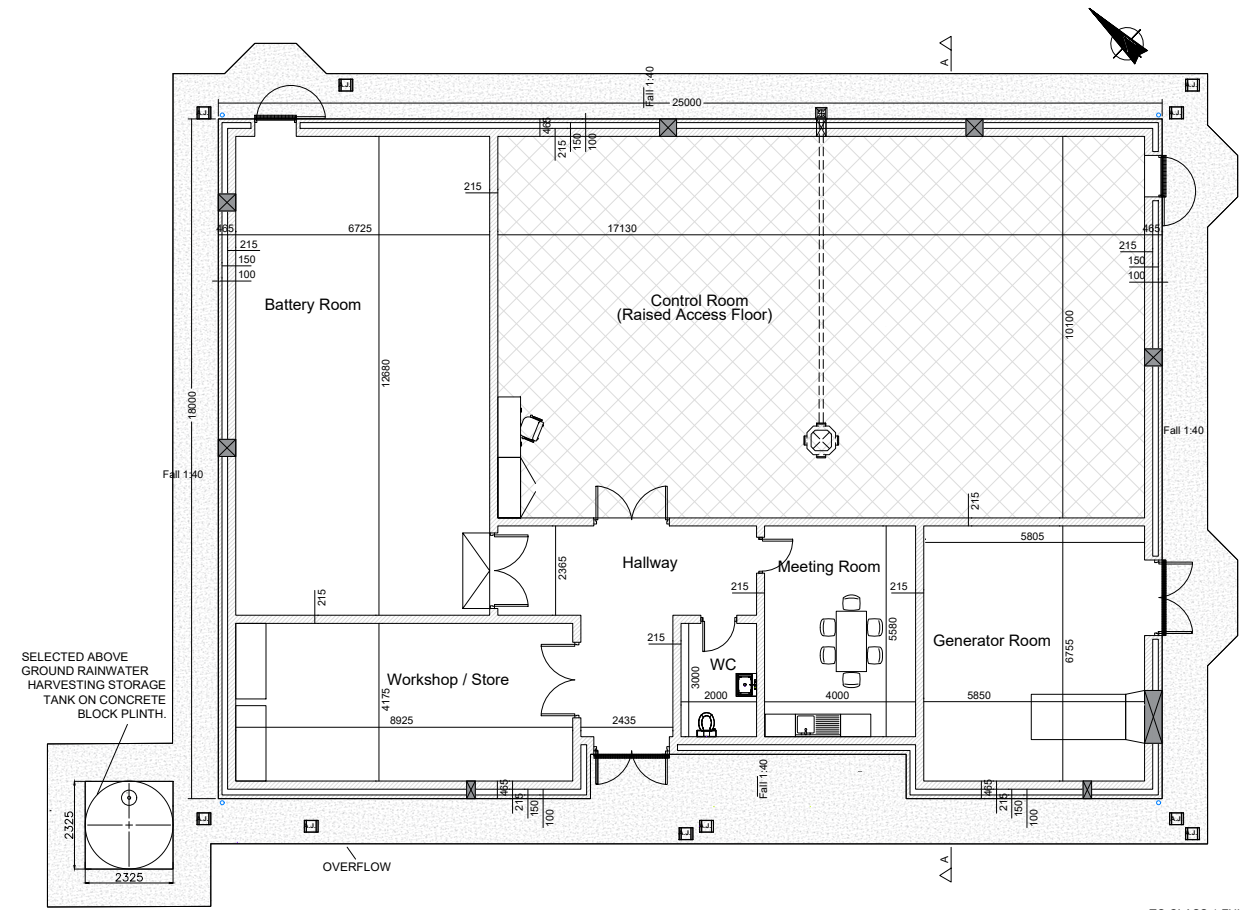
SCALE 1:200



Section D-D Elevation

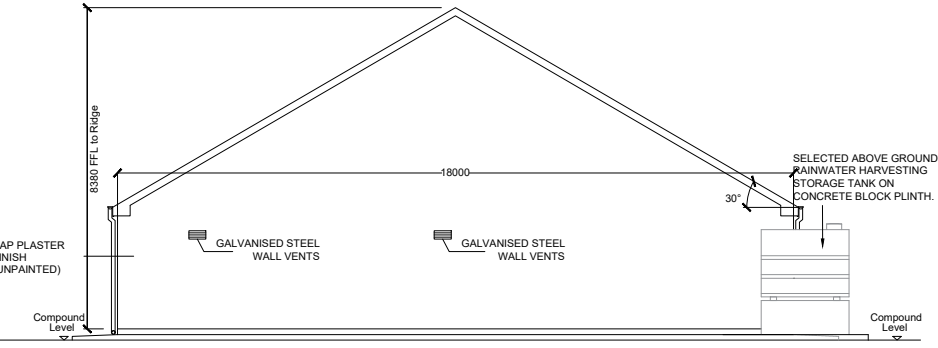
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ISO A1 594mm x 841mm

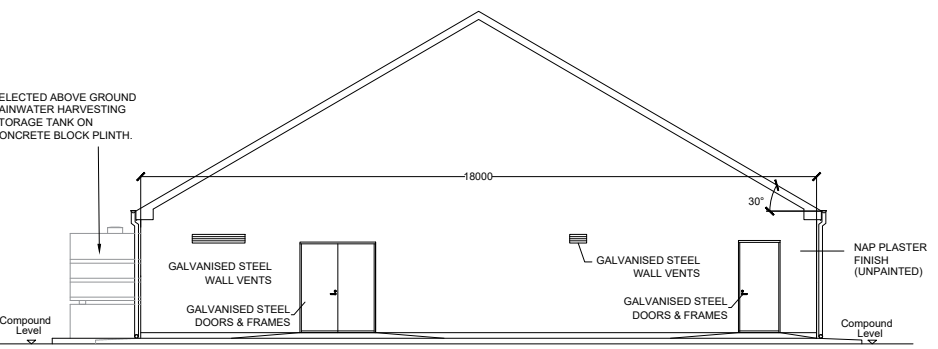


PLAN - CONTROL BUILDING
Scale : 1:100

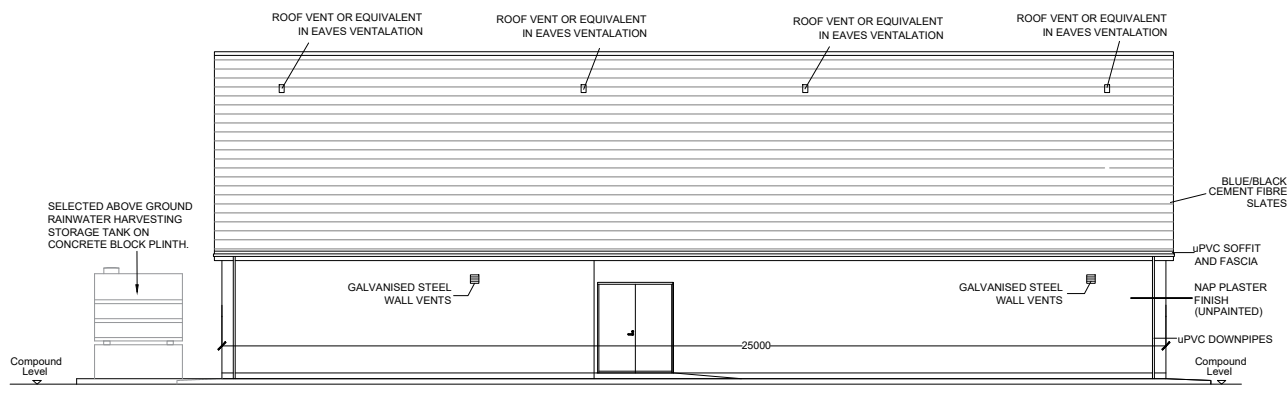
TO FOUL WASTE HOLDING TANK CAPACITY 5m³, VENTED TO THE ATMOSPHERE WITH HIGH LEVEL ALARM



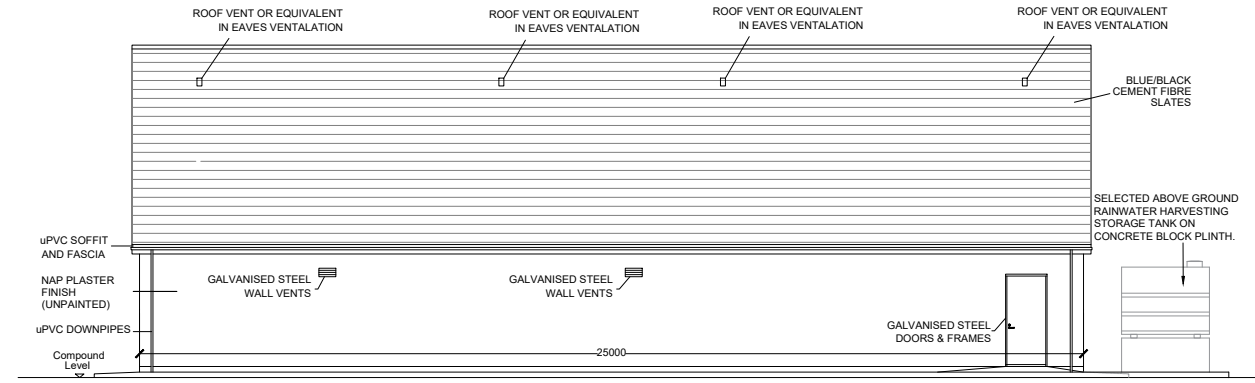
NORTH EAST ELEVATION
Scale : 1:100



SOUTH WEST ELEVATION
Scale : 1:100



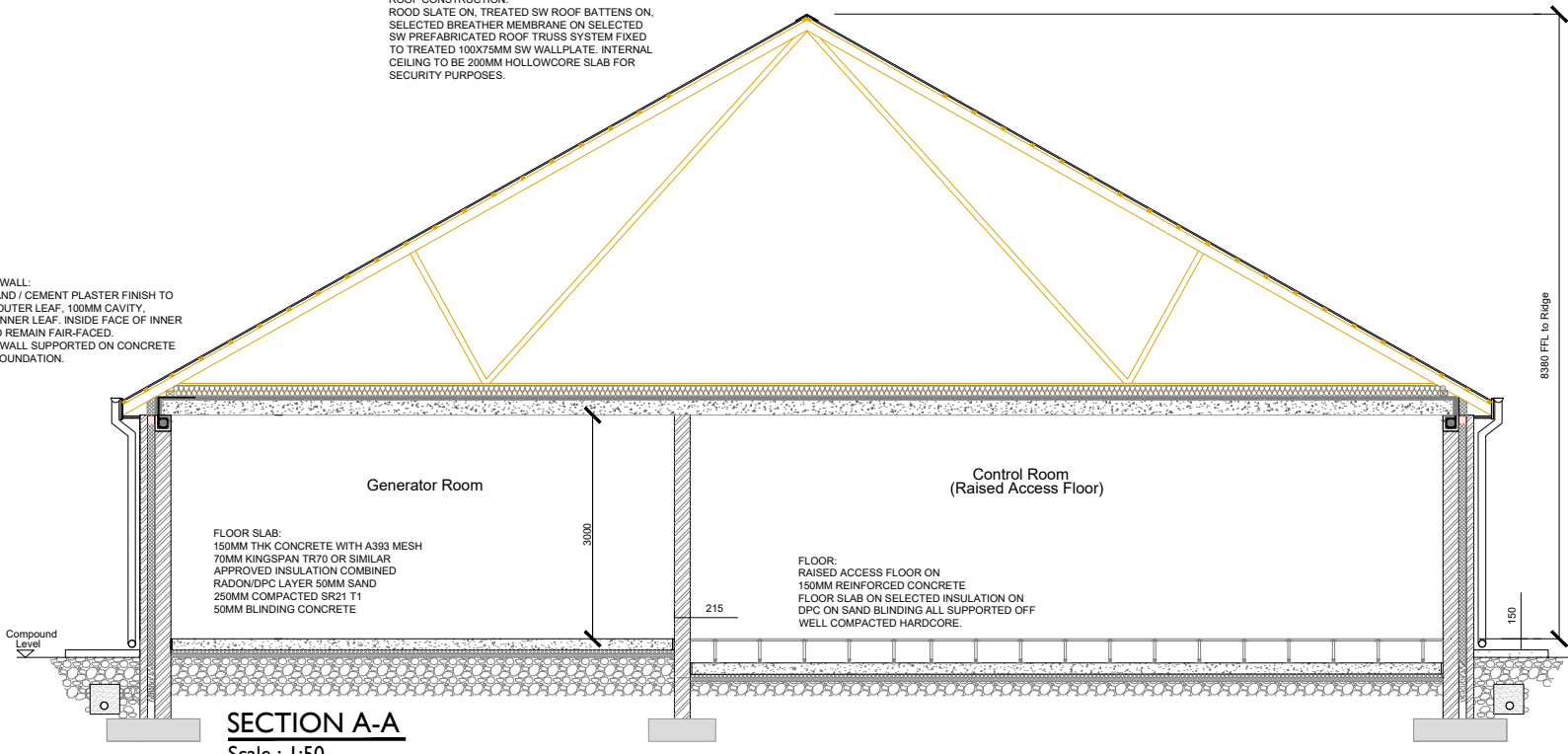
SOUTH EAST ELEVATION
Scale : 1:100



NORTH WEST ELEVATION
Scale : 1:100

CAVITY WALL:
FLAT SAND / CEMENT PLASTER FINISH TO 100MM OUTER LEAF, 100MM CAVITY, 215MM INNER LEAF, INSIDE FACE OF INNER LEAF TO REMAIN FAIR-FACED.
CAVITY WALL SUPPORTED ON CONCRETE STRIP FOUNDATION.

ROOF CONSTRUCTION:
WOOD SLATE ON TREATED SW ROOF BATTENS ON SELECTED BREATHER MEMBRANE ON SELECTED SW PREFABRICATED ROOF TRUSS SYSTEM FIXED TO TREATED 100X75MM SW WALLPLATE. INTERNAL CEILING TO BE 200MM HOLLOWCORE SLAB FOR SECURITY PURPOSES.



SECTION A-A
Scale : 1:50



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Regional Office
Basepoint Business Centre
Stroudley Road, Basingstoke,
Hampshire,
RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT
Glenora Wind Farm
110kV Grid Connection



- NOTES:-**
- Layout and Arrangements of Substation Building and Electrical Equipment is shown indicatively and for illustration purposes only.
 - Dimensions shown are as per current EirGrid Specifications at the time of submission. Dimensions may vary at time of construction to reflect any revisions to EirGrid Specifications.
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 - The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND:-
Concrete Footpath shown thus

ISSUE/REVISION

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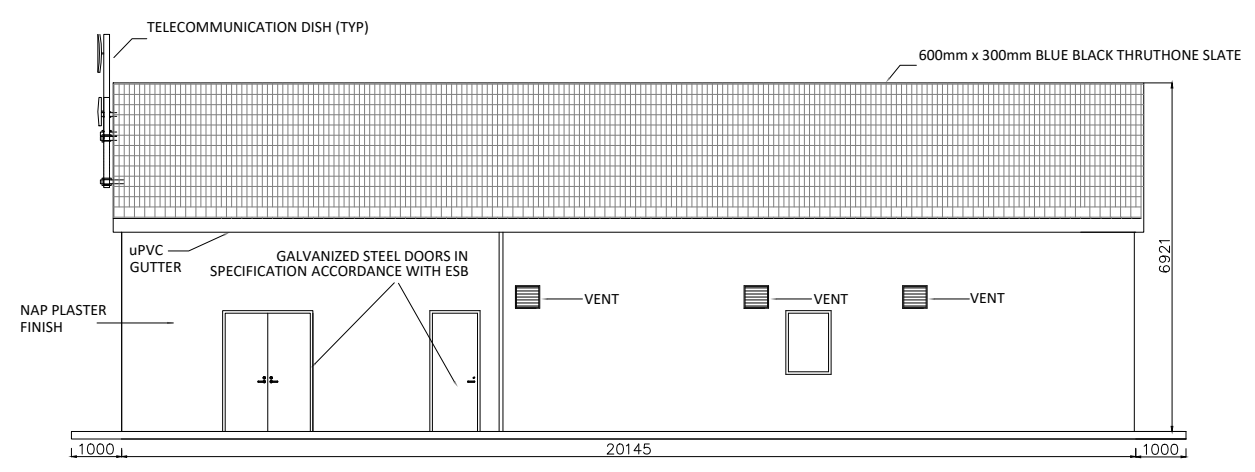
PROJECT NUMBER
05-795

SHEET TITLE
Control Building - Plan & Elevations & Section

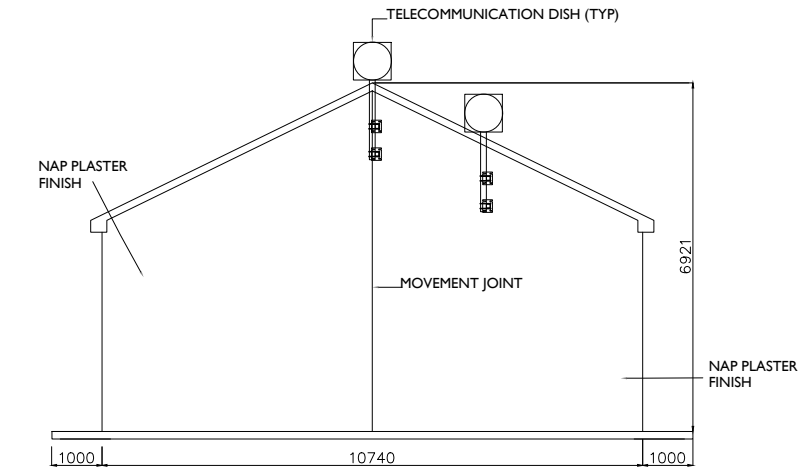
SHEET NUMBER
05795-DR-304

Project Management Initials: Designer: JC
Checked: POS
Approved: GH

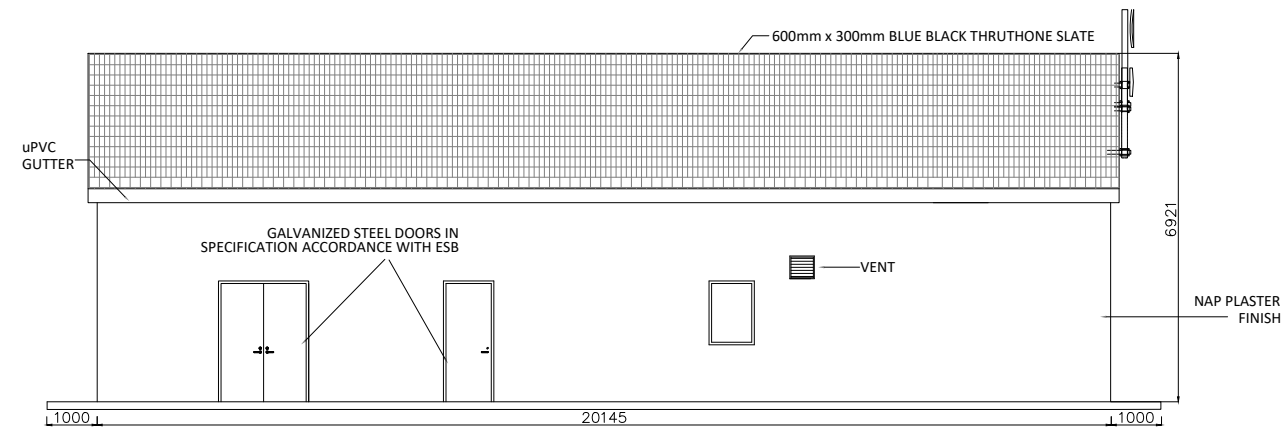
Project Management Initials: Designer: JC Checked: POS Approved: GH
ISO A1 594mm x 841mm



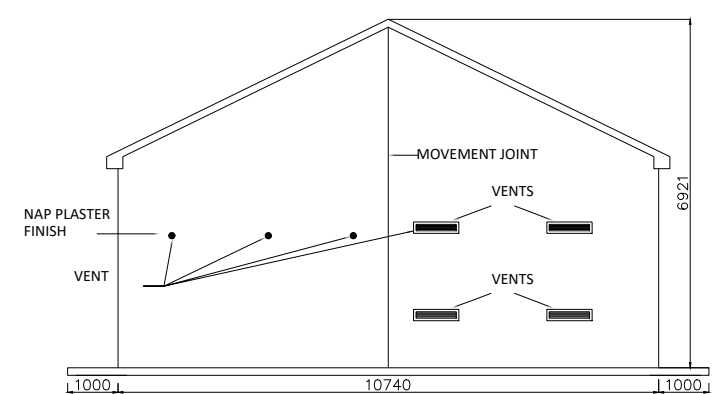
SOUTH EAST ELEVATION
Scale : 1:75



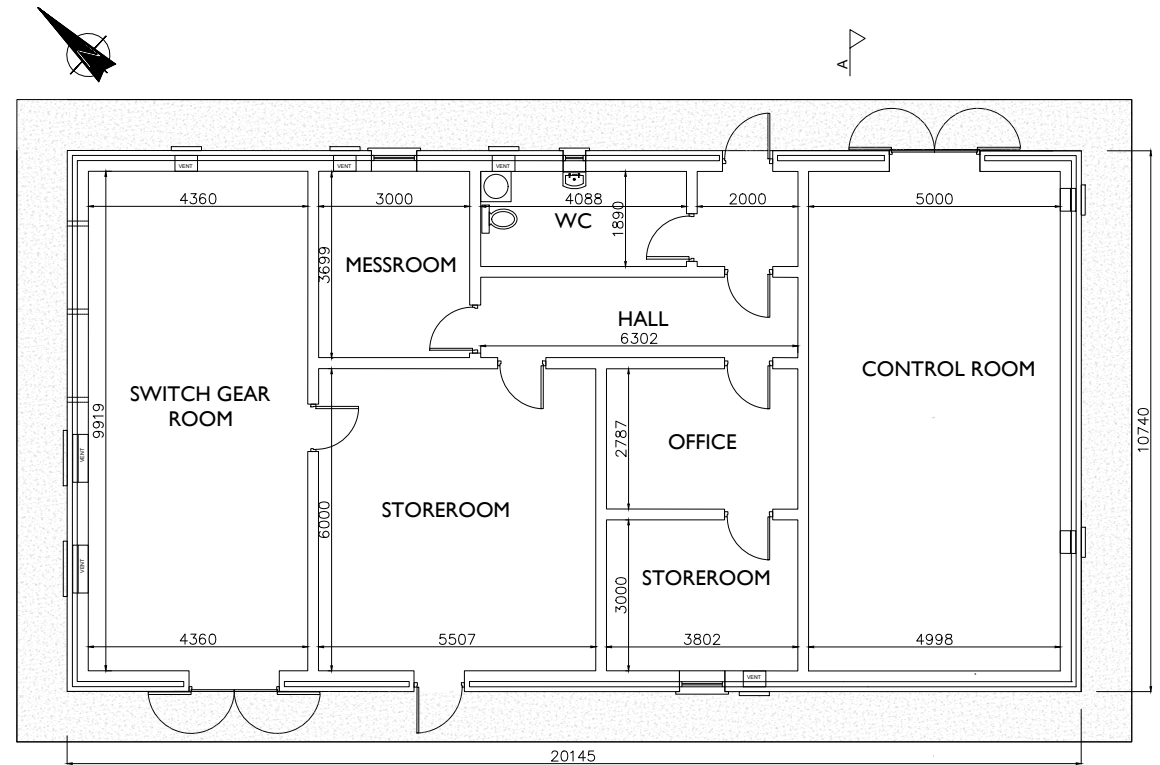
SOUTH WEST ELEVATION
Scale : 1:75



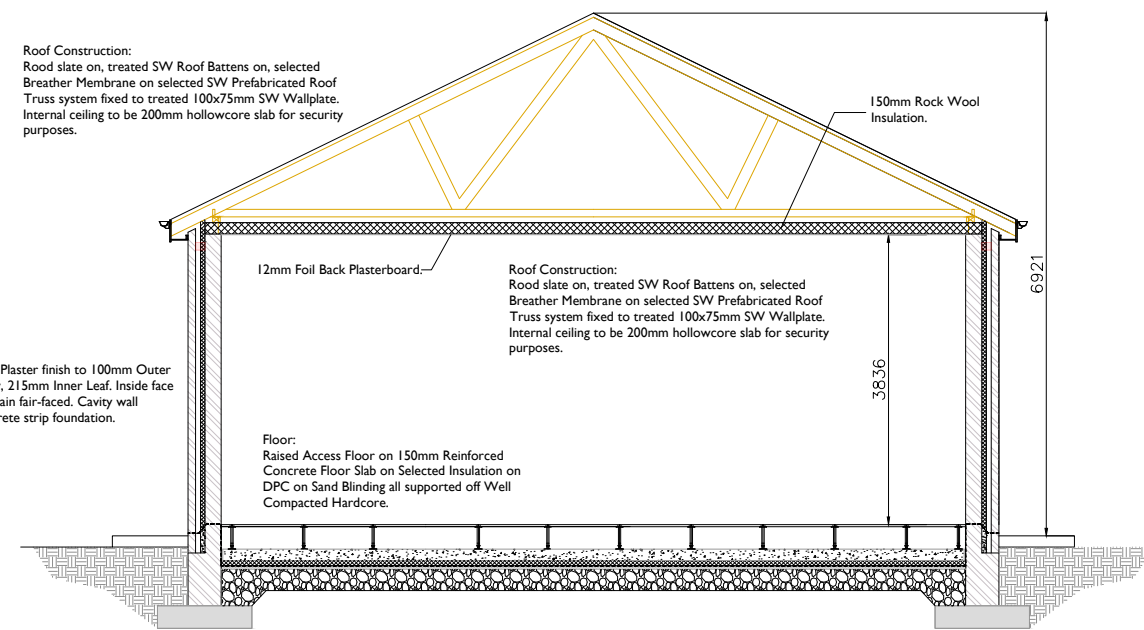
NORTH WEST ELEVATION
Scale : 1:75



NORTH EAST ELEVATION
Scale : 1:75



PLAN - IPP BUILDING
Scale : 1:100



Cavity Wall:
Flat Sand / Cement Plaster finish to 100mm Outer Leaf, 100mm Cavity, 215mm Inner Leaf. Inside face of inner leaf to remain fair-faced. Cavity wall supported on concrete strip foundation.

SECTION A-A
Scale : 1:50



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RG24 8UP, UK
Tel: 00 44 1256406664

PROJECT
Glenora Wind Farm
110kV Grid Connection

CLIENT
FuturaEnergy Ireland
SSE
Renewables

CONSULTANTS
Miko

- NOTES: -**
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 - The Elevation of the Compound will be depicted by localized Topography such that Cut/Fill Earthworks associated with the construction of the Compound are balanced.

LEGEND: -
Concrete Footpath shown thus

ISSUE/REVISION

NO.	DATE	DESCRIPTION
F00	04.07.22	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-795

SHEET TITLE
IPP Building - Plan & Elevations & Section

SHEET NUMBER
05795-DR-305