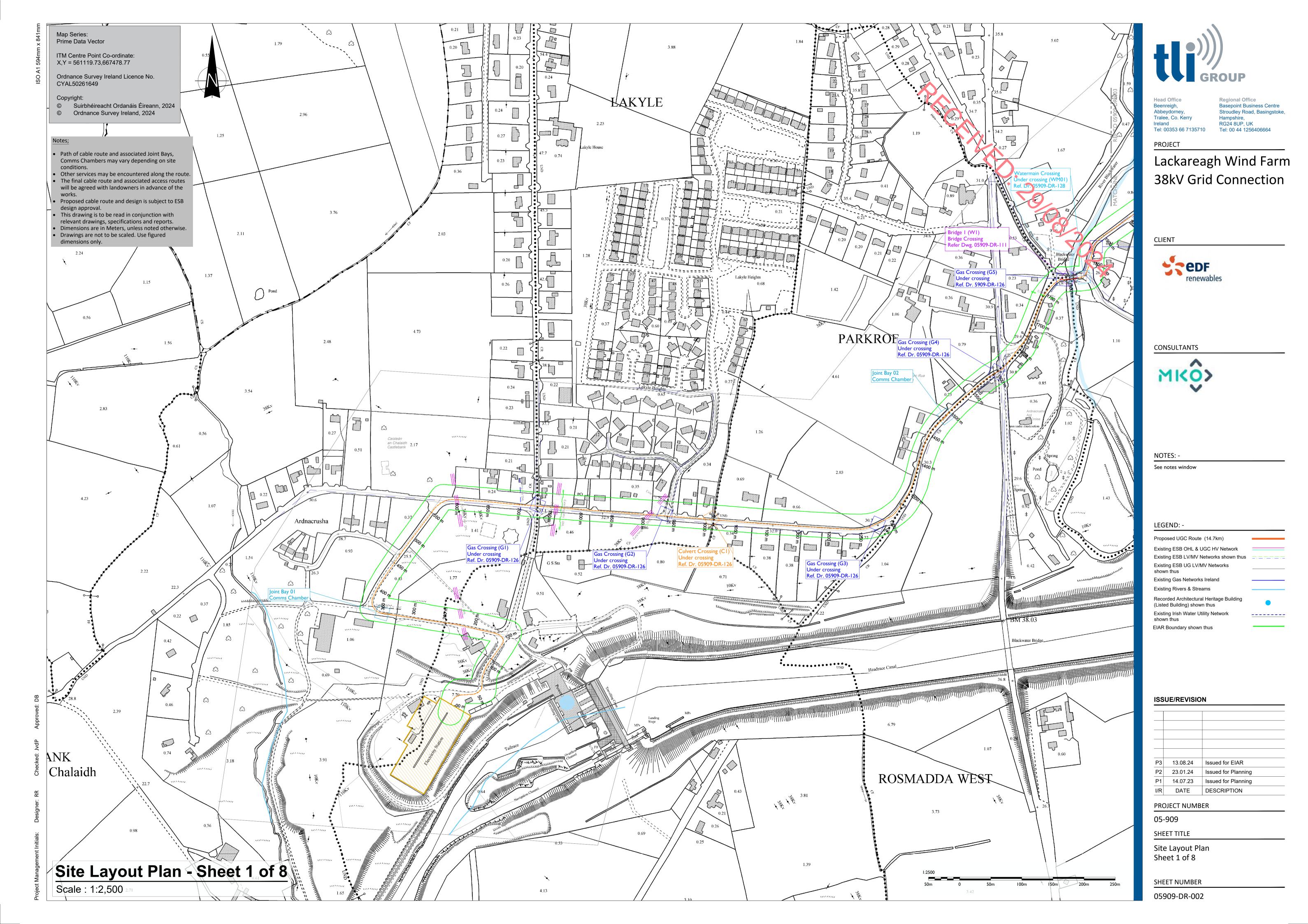
PRORINGS. 29/00/202

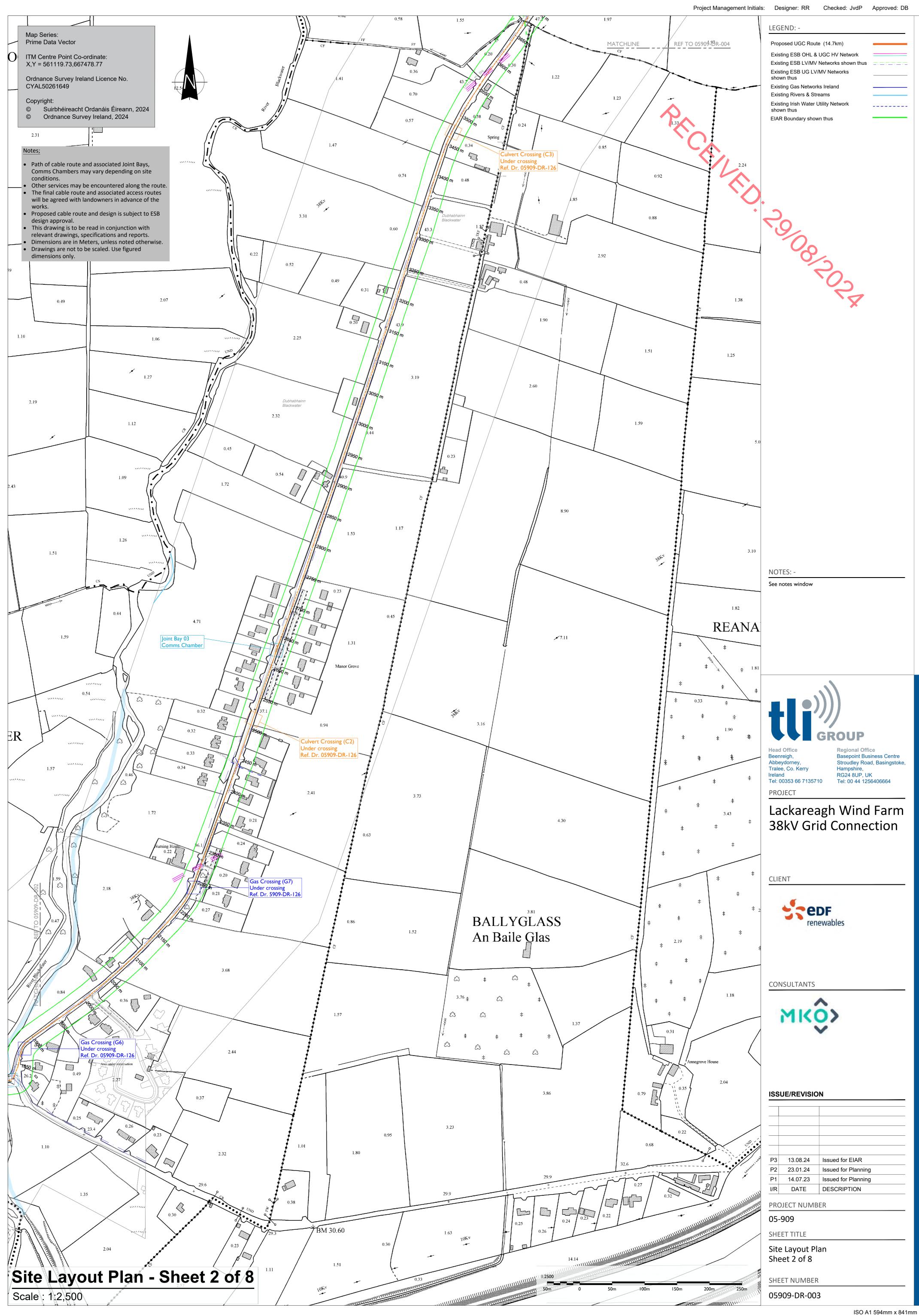


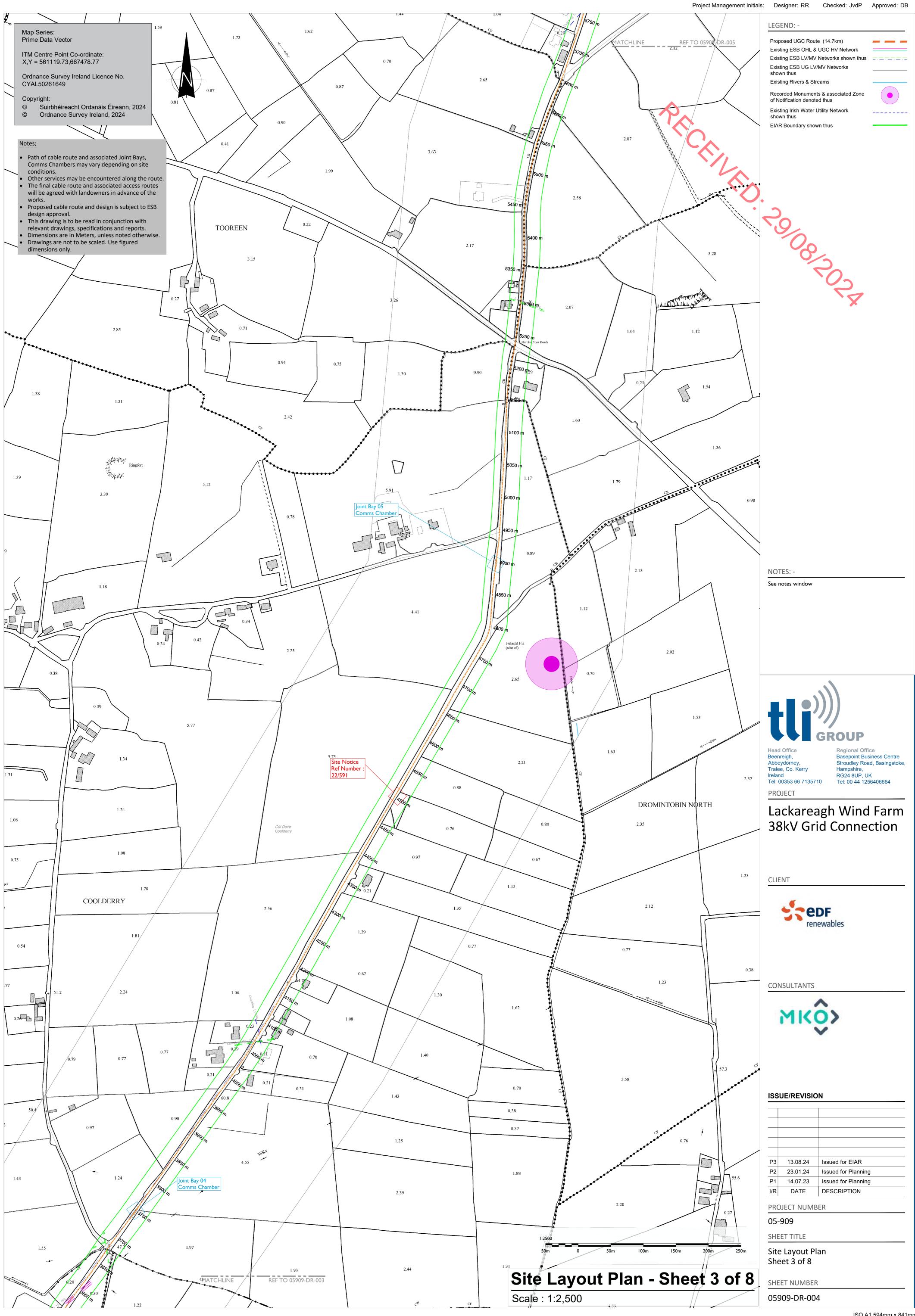
APPENDIX 4-9

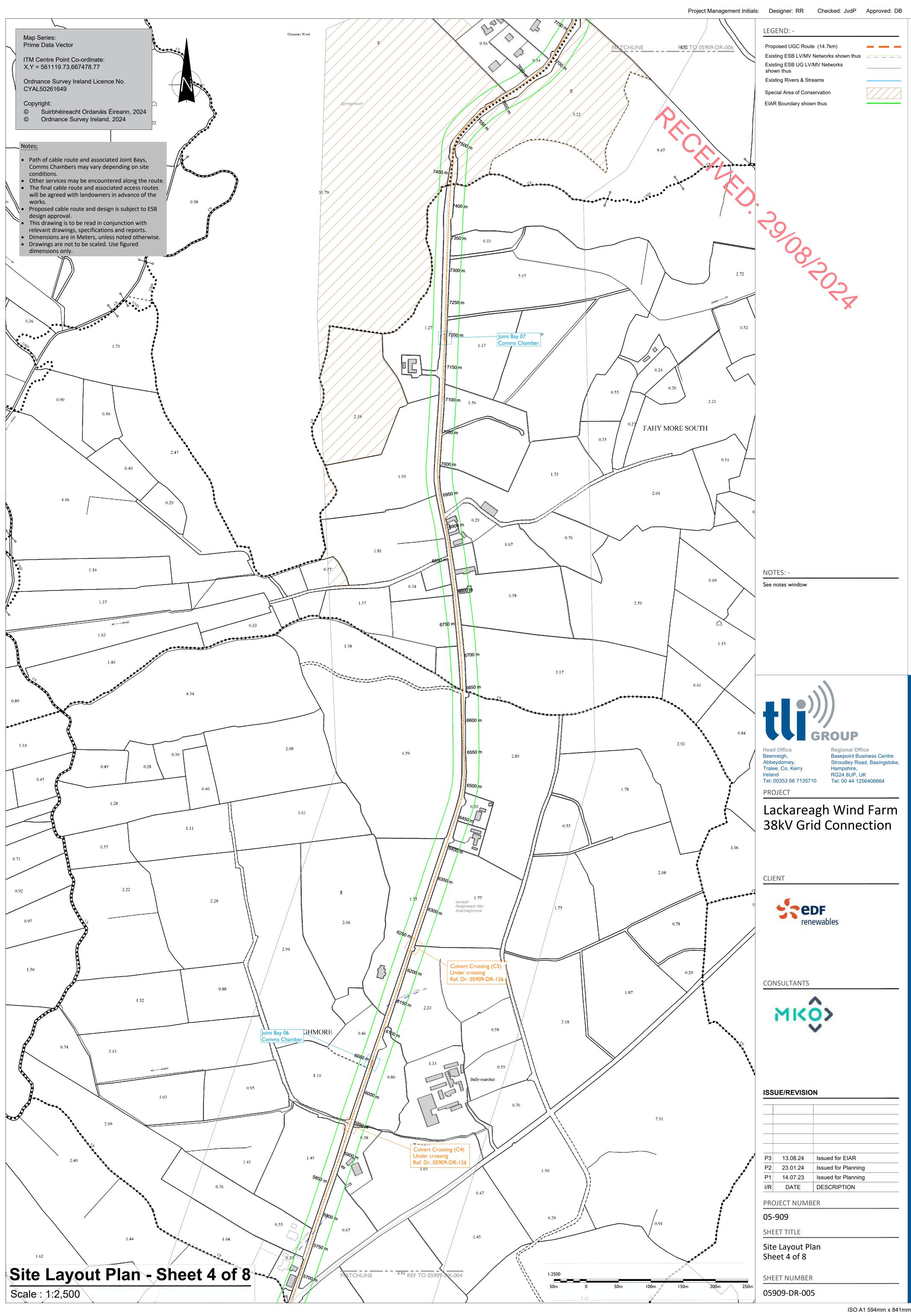
TLI GRID DRAWING PACK

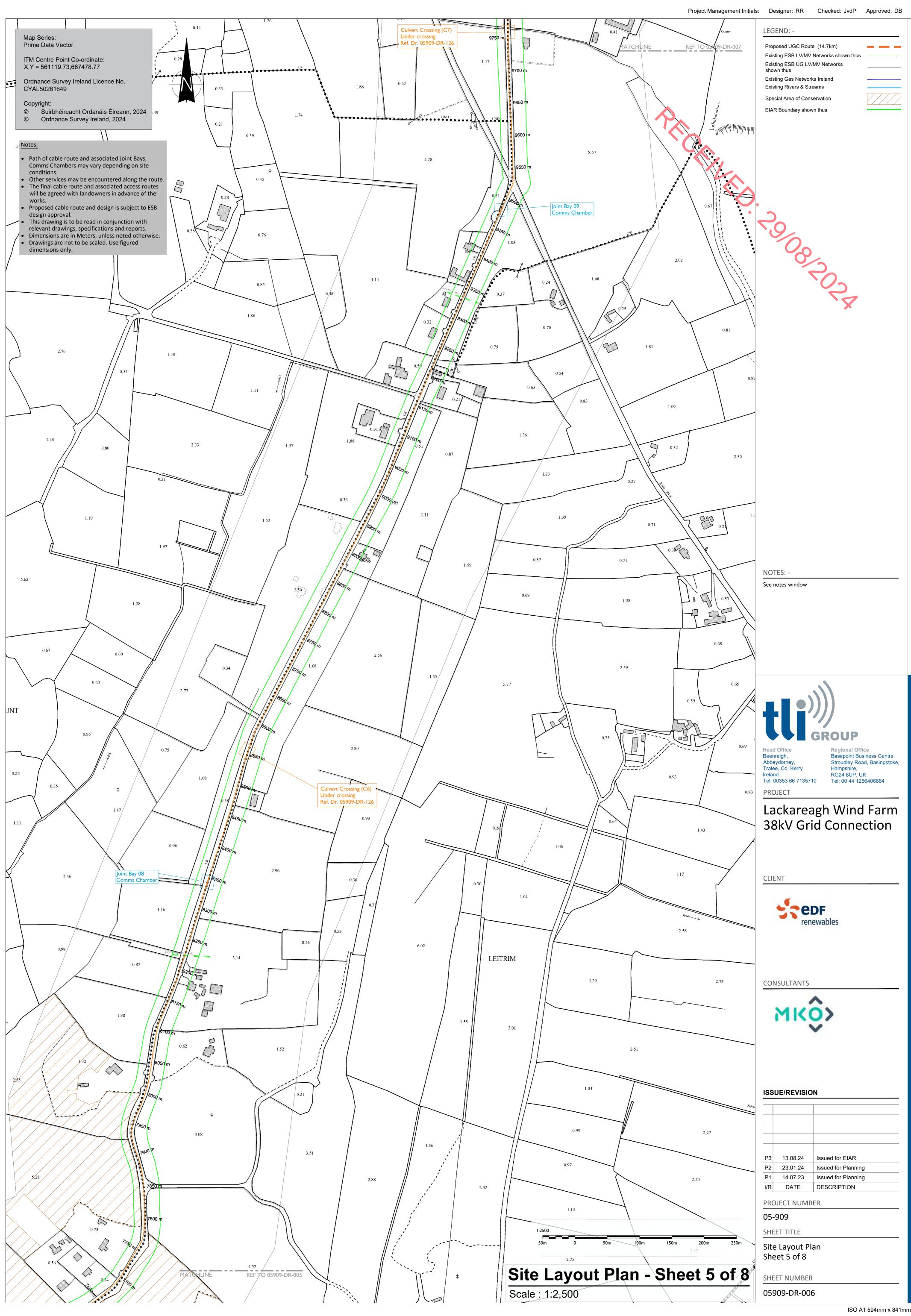


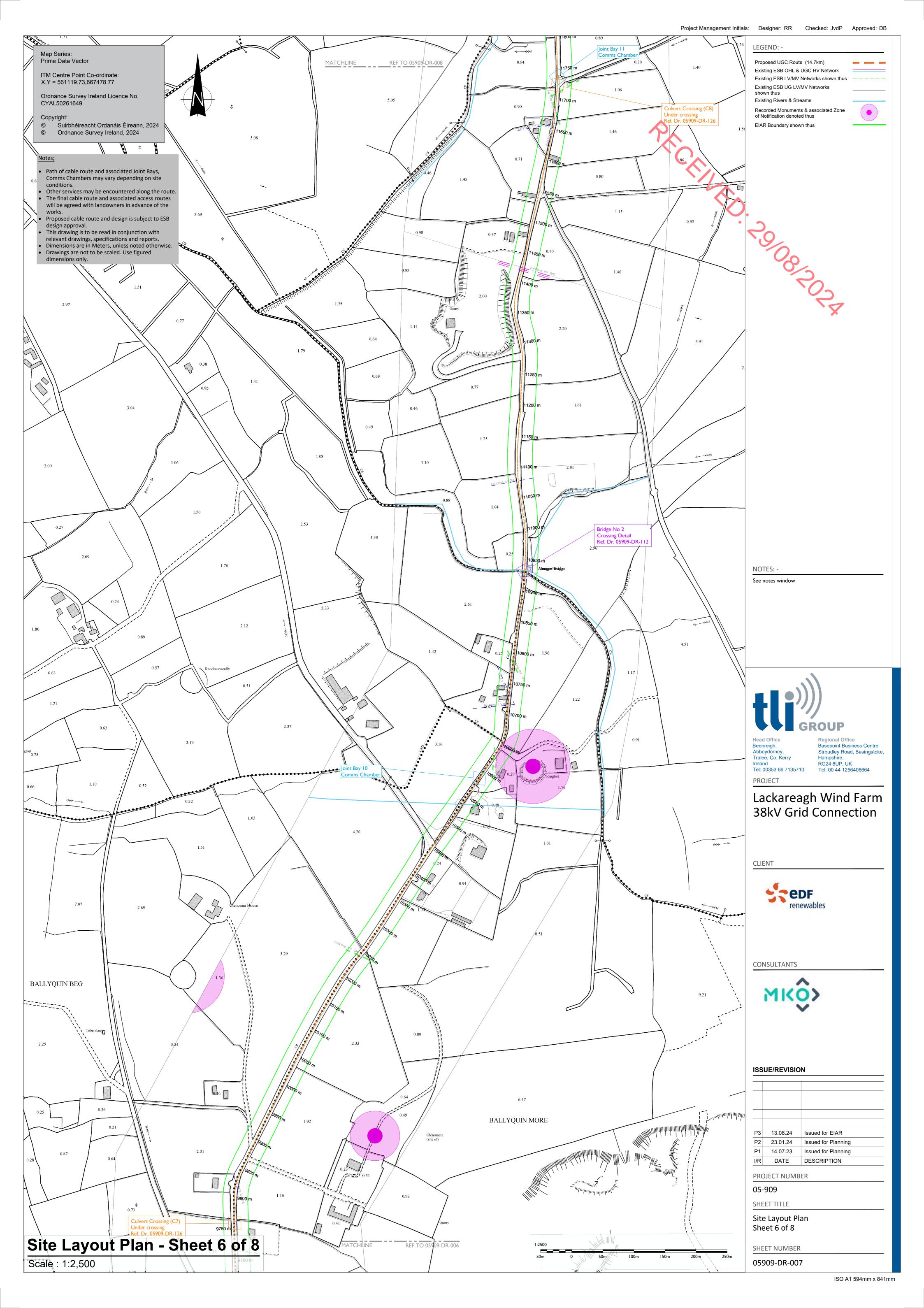


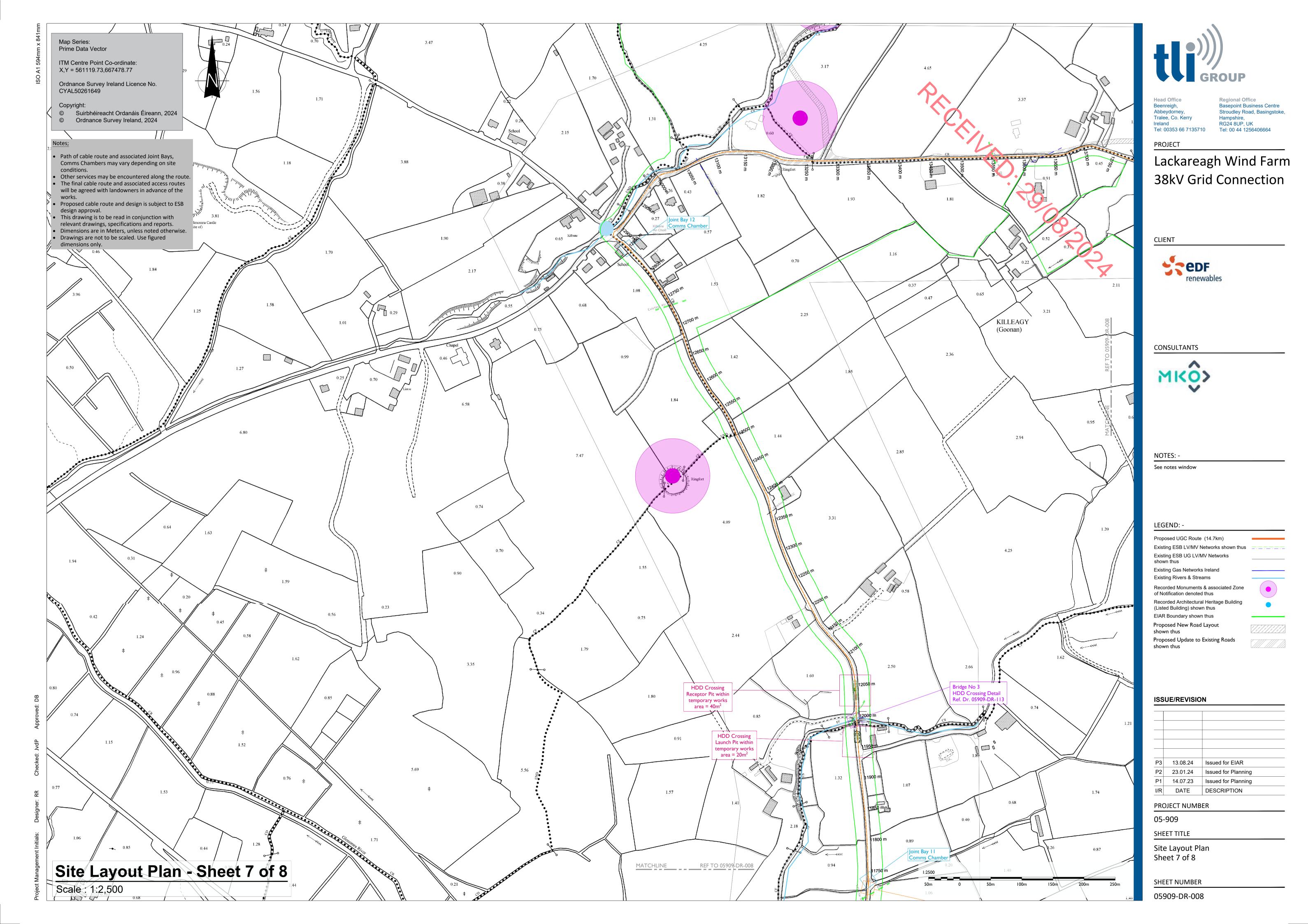


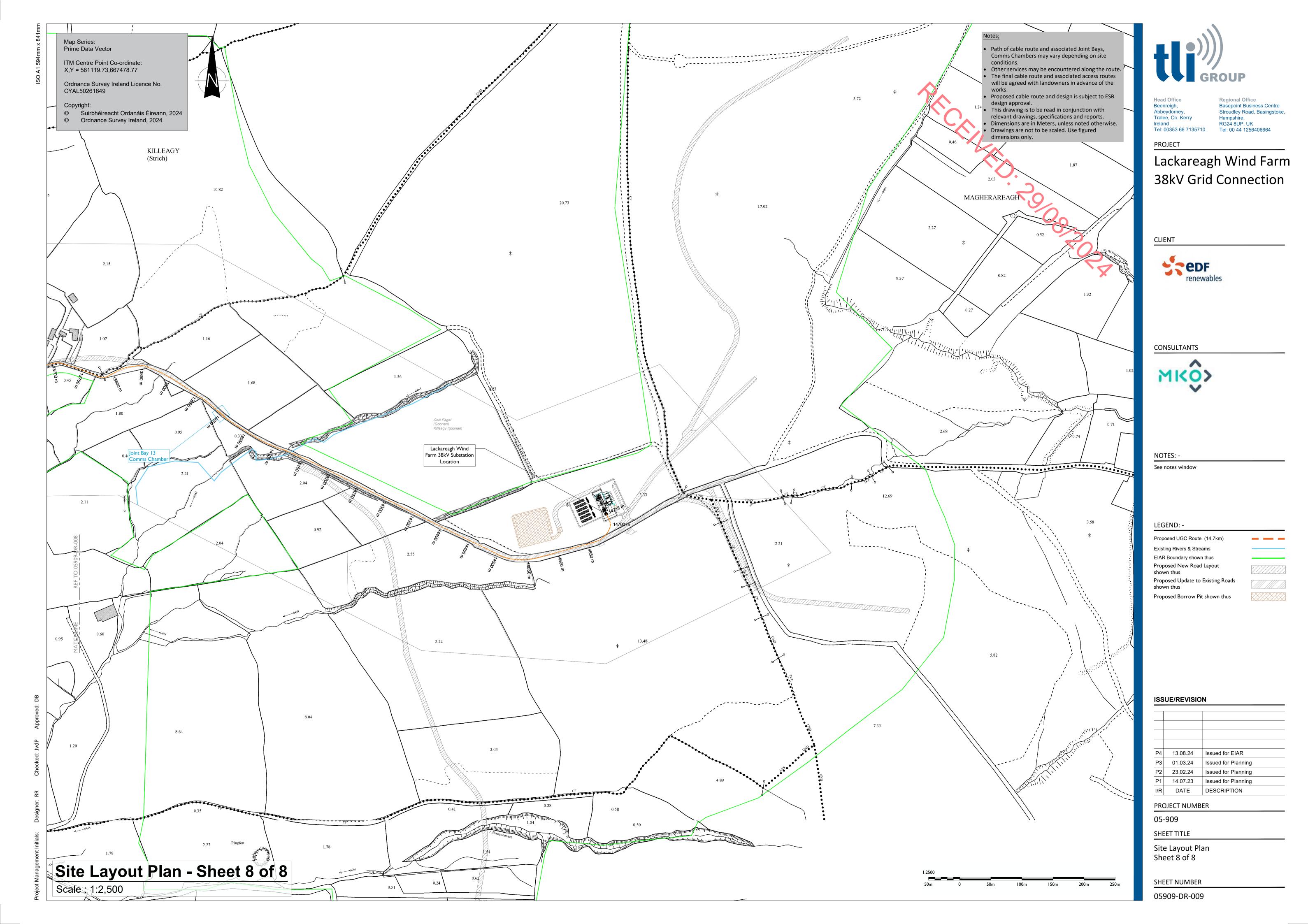


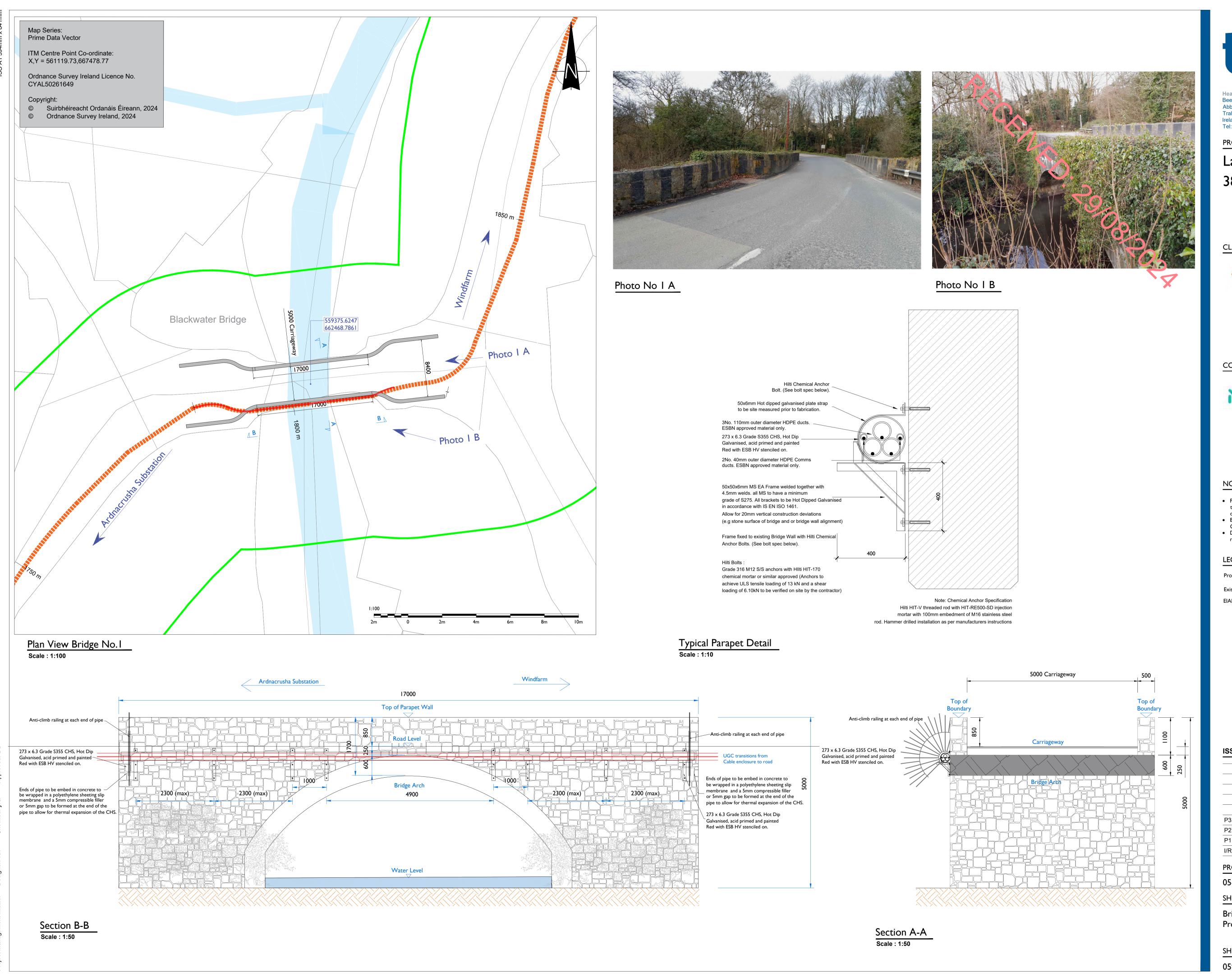












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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

CLIENT



CONSULTANTS



NOTES: -

- Principal bridge inspection surveys have been carried out and the proposals are subject to detailed design. Please refer to document BR286-01-Blackwater Br Pl for details.
- Bridge crossing designs have been submitted to Clare Co. Council for review.
- Drawings are in compliance with ESBN specification requirements for shallow formation, bridge crossings, etc.

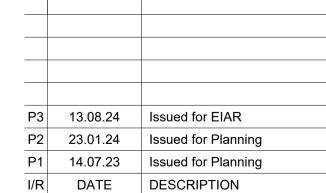
LEGEND: -

Proposed UGC Route (14.7km)

Existing Rivers & Streams

EIAR Boundary shown thus

ISSUE/REVISION



PROJECT NUMBER

05-909

SHEET TITLE

Bridge I Proposed Crossing Details

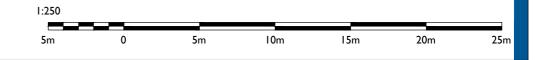
SHEET NUMBER

Longitudinal Opening in Dressed Rural Unbound Roadway

Photo No. 2 A



Photo No. 2 B





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PROJECT

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CONSULTANTS



- No structural bridge surveys have been carried out and the proposals are subject to detailed design.
- Bridge crossing designs will be submitted to Clare Co. Council
- Drawings are in compliance with ESBN specification requirement for shallow formation, bridge crossings, etc.

LEGEND: -

EIAR Boundary shown thus

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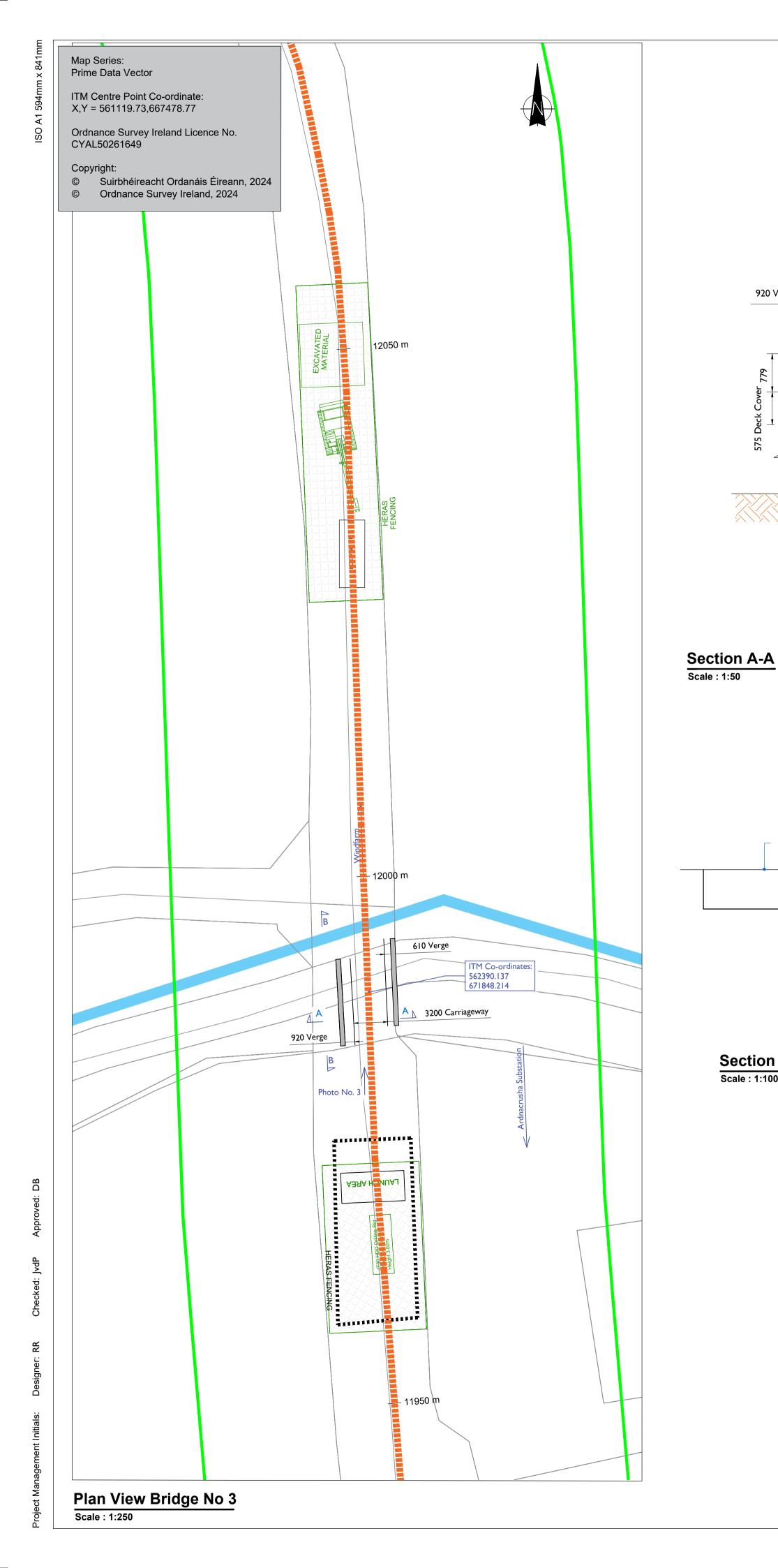
PROJECT NUMBER

05-909

SHEET TITLE

Bridge 2 - Proposed Crossing Details

SHEET NUMBER



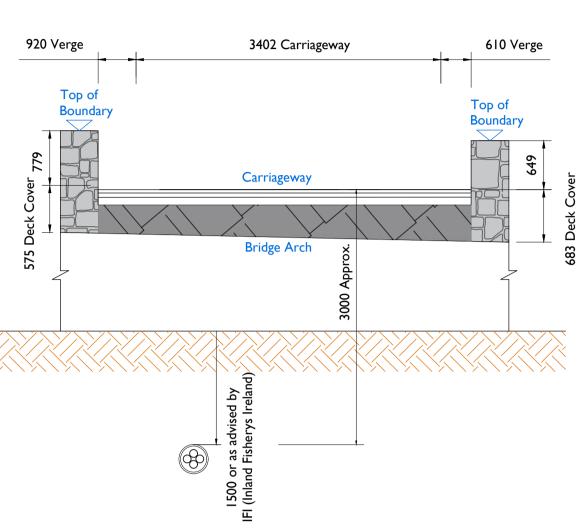




Photo No. 3



Section B-B
Scale: 1:100

Reception Pit



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PROJECT

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CONSULTANTS



- No structural bridge surveys have been carried out and the proposals are subject to detailed design.
 Bridge crossing designs will be submitted to Clare Co.
- Drawings are in compliance with ESBN specification
- requirements for shallow formation, bridge crossings, etc.
 HDD launch and reception pits locations to be determined following site investigations.

LEGEND: -

Proposed UGC Route (14.7km)

Existing Rivers & Streams

EIAR Boundary shown thus

Existing ESB LV/MV Networks shown thus

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P1	14.07.23	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-909

SHEET TITLE

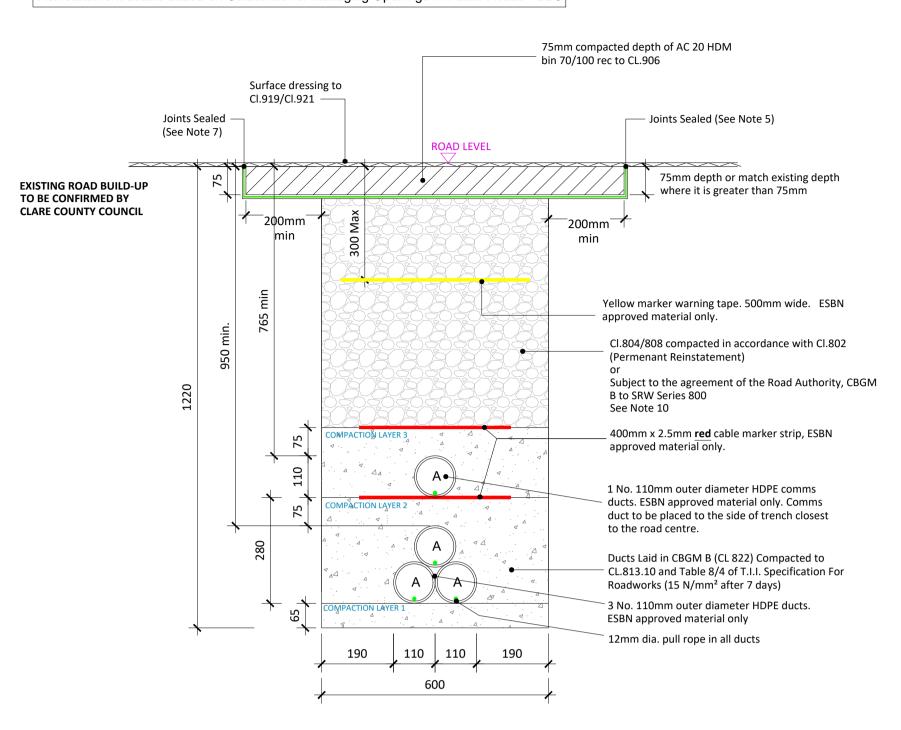
Bridge 3 Proposed Crossing Details

SHEET NUMBER

Typical Section Through Permanent Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD5



Typical Section Through Permanent Reinstatement of Longitudinal **Opening in Dressed Rural Unbound Roadway**

SCALE 1:10

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

- 1. Refer to Guidelines for managing Openings in Public Foads (Purple Book April 2017), Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.
- 2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertice
- 3. Where a temporary surface has been used, material shall be placed out to the depth specified in this drawing. The new permanent surface shall be machined laid and necl anically compacted with
- 4. Where the trimmed edge of excavation is within 400mm* of a joint / edge, ironwork or other reinstatement, this trimmed edge shall be extended to include same and the area of reinstatement shall be extended accordingly (* increase to 800mm where this is pre-existing practice).
- Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
- 6. Clause 808 or Cement Bound Granular Material surface to be sprayed per clause 920 poor to application of Asphalt Concrete Layer.
- 7. Joint sealer shall be a hot 50 pen bitumen binder or cold thixtropic bitumen 50 -70 pen to be applied to all vertical cuts in accordance with B.S.594987 prior to application of bituminous materials.
- 8. For roads without asphalt concrete surface (e.g. may be Cl.804 with double surface dressing), the road authority may as its discretion permit the temporary reinstatement surface of asphalt concrete to be regulated in lieu of excavation and reinstatement; and subsequently surface dressed.
- 9. On highly trafficked roads services must have a minimum cover of 750mm.
- 10. Where required by the Road authority the trench may be reinstated with a Cement Bound Granular

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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

CLIENT



CONSULTANTS



• This design is subject to ESB approval and should not be used for

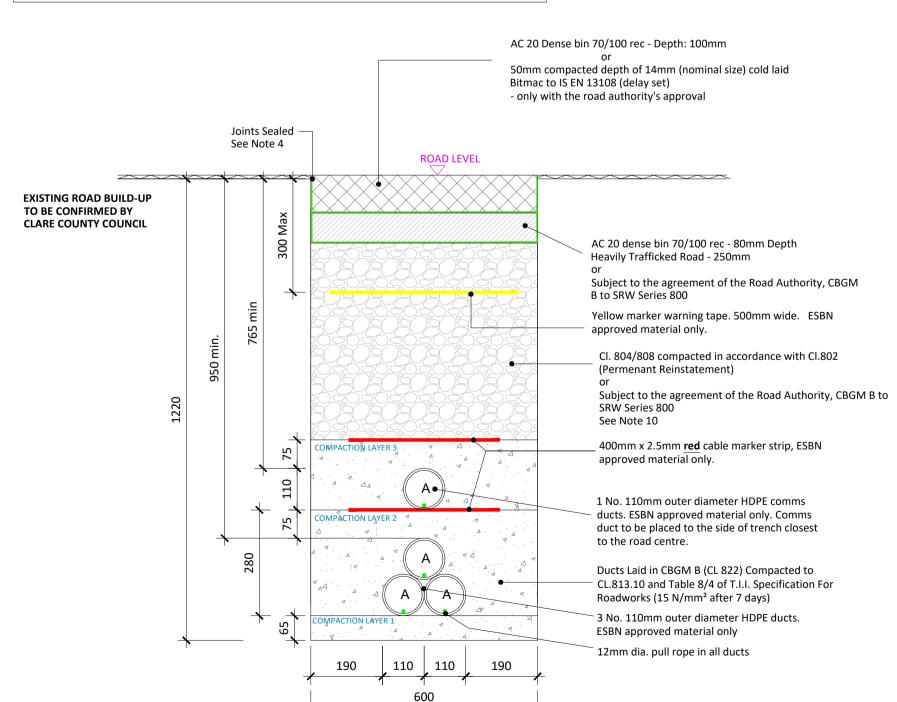
confirmed with Clare County Co.

- 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. Existing road build up and reinstatement requirements to be

LEGEND:

Temporary Reinstatement

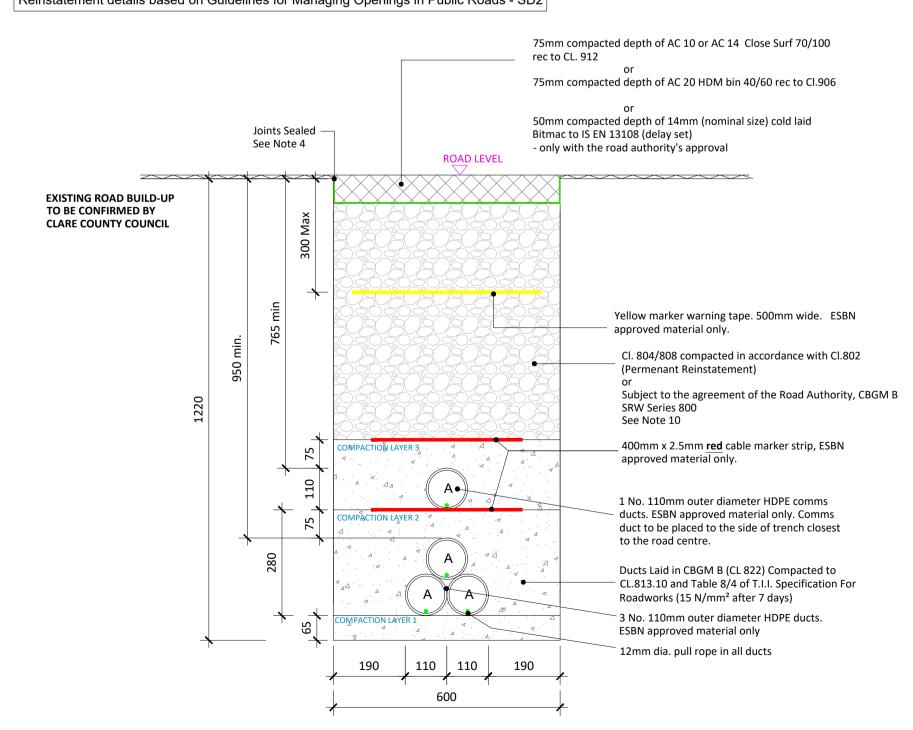
Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD1



Typical Section Through Temporary Reinstatement of Longitudinal Opening in Roadway

SCALE 1:10

Reinstatement details based on Guidelines for Managing Openings in Public Roads - SD2



Typical Section Through Temporary Reinstatement of Longitudinal **Opening in Dressed Rural Unbound Roadway**

SCALE 1:10

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

1. Refer to 'Guidelines for managing Openings in Public Roads (Purple Book - April 2017)', Chapter 6 'Specifications' for guidance on Duct type / colour and Marker Tape type / colour.

- 2. All bound edges shall be saw cut to expose the full vertical thickness of each layer prior to excavation. All edges shall be essentially straight, smooth and vertical.
- 3. Clause 808 surface to be sprayed per clause 920 prior to application of Asphalt Concrete Layer.
- 4. Joint sealer shall be a hot 50 pen bitumen binder or cold thixotropic bitumen 50-70 pen to be applied to all vertical cuts in accordance with B.S. 594987 prior to application of bituminous
- Licence holder must maintain temporary reinstatement to a safe and acceptable standard.
- Any damaged area adjacent to the opening and resulting from the excavation operation shall be included within the area to be reinstated.
- 7. Temporary Road Surface warning signs must be used in accordance with the Traffic Signs Manual (Chaper 8 - Temporary Traffic Measures and Signs for Roadworks).
- 8. Refer to detail Permanent Reinstatement of Road for advice on permanent reinstatement all permanent reinstatement shall be carried out when adequate settlement has occurred as determined by the Road Authority.

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1/	′R	DATE	DESCRIPTION

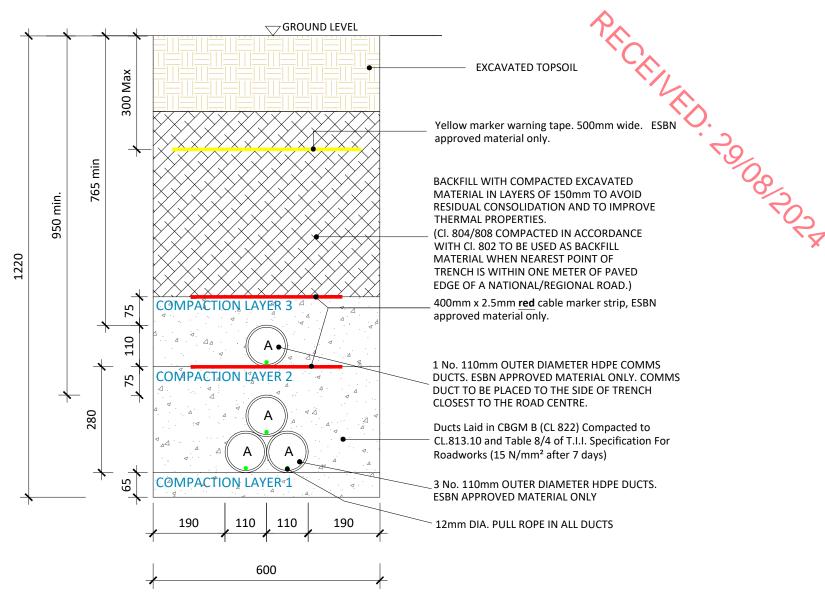
PROJECT NUMBER

05-909

SHEET TITLE

Ducting Through Regional / Local Roadways

SHEET NUMBER



A =110mm:Outer diameter HDPE ESB Approved Duct, SDR=17.6;

Typical Section Through Off Road / Grassland

SCALE 1:10

ALL REINSTATEMENT WORKS ARE TO BE IN ACCORDANCE WITH LANDOWNERS/CLARE Co.Co REQUIREMENTS

Noto:

- This design is subject to ESB approval and should not be used for Planning purposes only.
- 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



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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

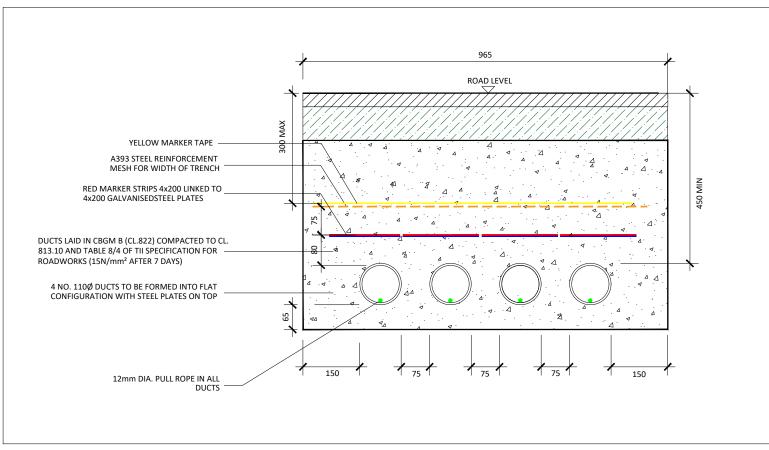
PROJECT NUMBER 05-909

SHEET NUMBER 05909-DR-121

Ducting through Off Road /
Grassland Section
DRAWING STATUS
For Planning

ISSUE/REVISION		
P2	13.08.24	Issued For EIAR
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Typical Ducting Detail in Flat Formation

SCALE - 1:10



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Lackareagh Wind Farm 38kV Grid Connection

PROJECT NUMBER 05-909

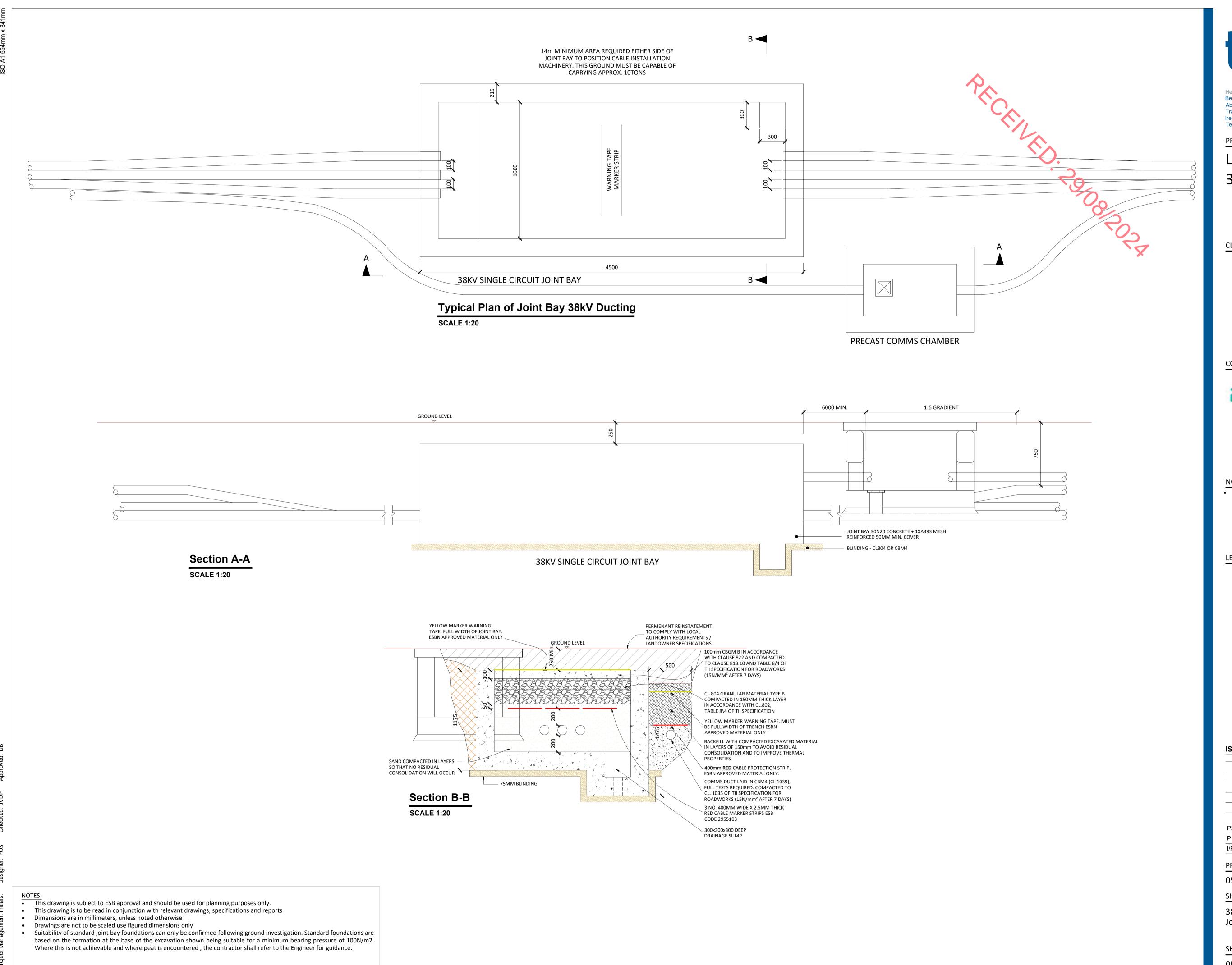
SHEET NUMBER 05909-DR-122

SHEET TITLE

Ducting Detail in Flat Formation

DRAWING STATUS
For Planning

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PROJECT

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NOTES:
See notes in drawing window

LEGEND: -

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PROJECT NUMBER

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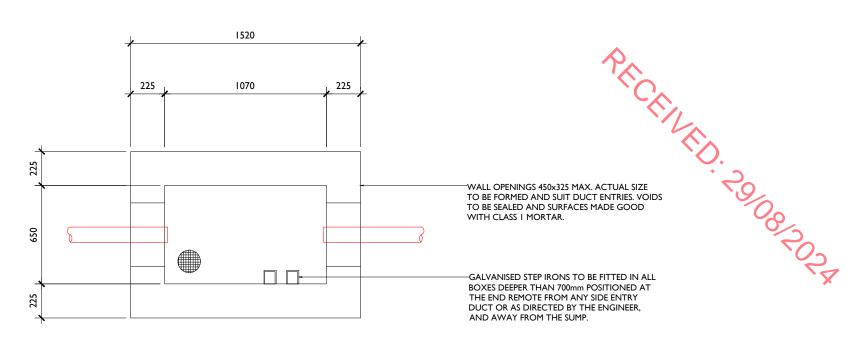
SHEET TITLE

38kV Single Circuit
Joint Bay General Arrangement

SHEET NUMBER

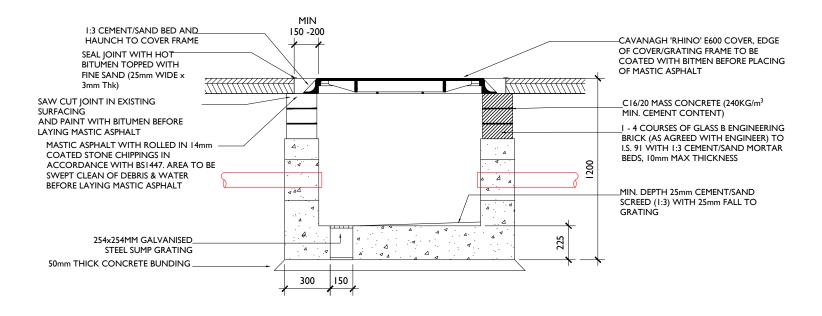
NOTES:

- This design is subject to ESB approval and should not be used for construction.
- This drawing is to be read in conjunction with relevant drawings, specifications and reports.
- Dimensions are in millimetres, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.



Plan View - Typical Communications Chamber

SCALE 1:20



Section Through Typical Communications Chamber

SCALE 1:20



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Lackareagh Wind Farm 38kV Grid Connection

PROJECT NUMBER 05-909

SHEET NUMBER **05909-DR-124**

SHEET TITLE

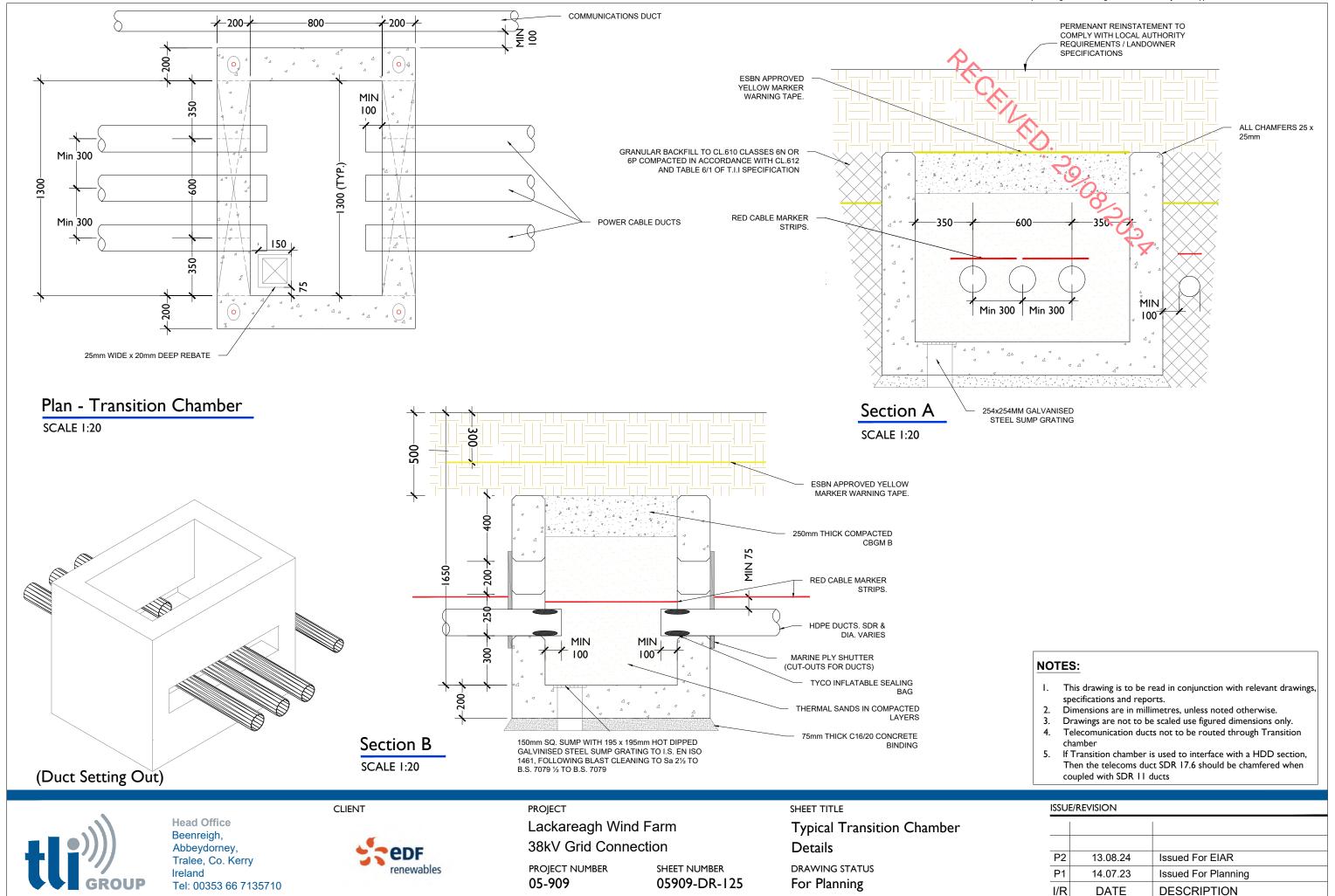
Typical 38kV Communications

Chamber Details

DRAWING STATUS

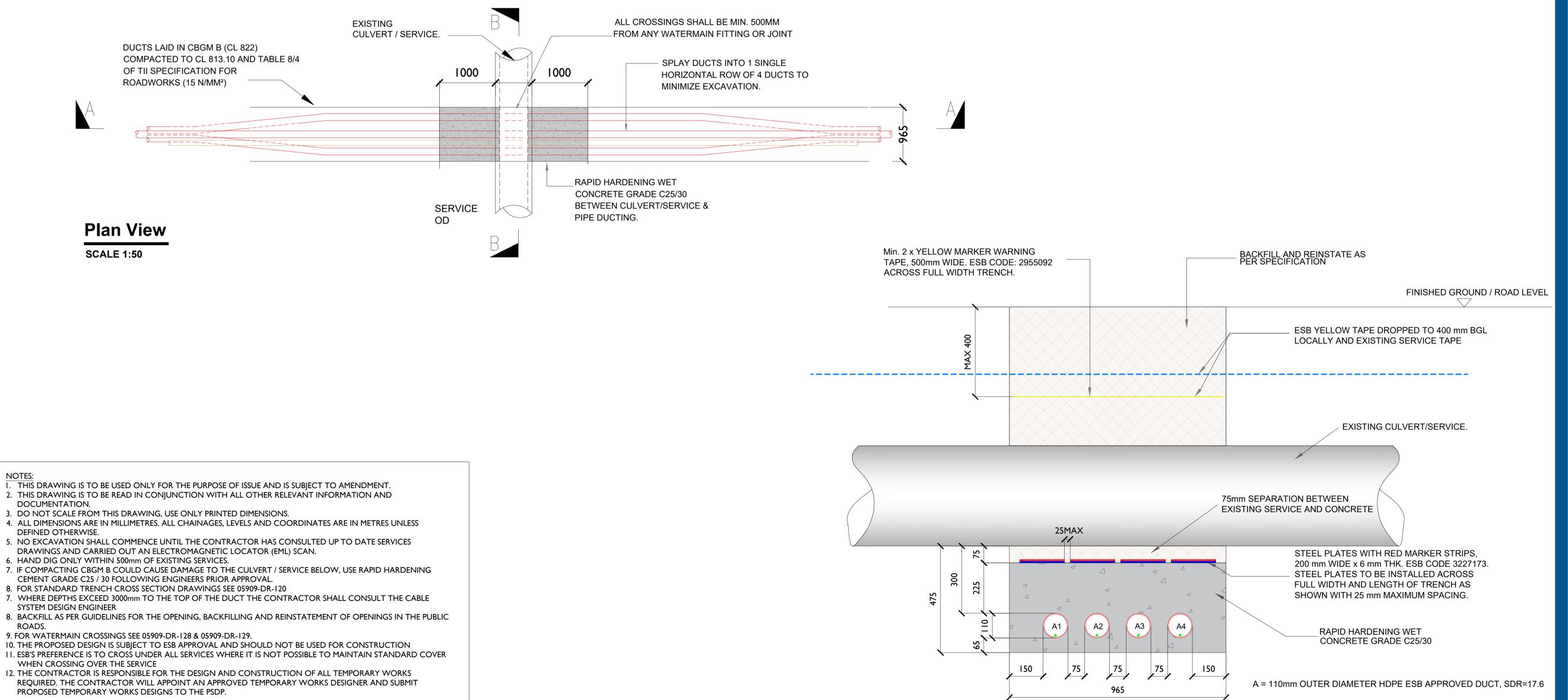
For Planning

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Section A - A

SCALE 1:50



Section B - B

SCALE 1:10

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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

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CONSULTANTS



NOTES: -

• See notes in drawing window

LEGEND:
110mm Ø HDPE DUCT WITH 12mm
DIAMTER PULL ROPE

RED MARKER STRIP WITH STEEL PLATES

YELLOW MARKER WARNING TAPE

EXSITING SERVICES MARKER TAPE

ISSUE/REVISION

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05-909

SHEET TITLE

38kV Service/Culvert Under Crossing Detail

SHEET NUMBER

EXISTING ALL CROSSINGS SHALL BE MIN. 500MM CULVERT/SERVICE FROM ANY WATERMAIN FITTING OR JOINT DUCTS LAID IN CBGM B (CL 822) COMPACTED TO CL 813.10 AND TABLE 8/4 SPLAY DUCTS INTO 1 SINGLE OF TII SPECIFICATION FOR HORIZONTAL ROW OF 4 DUCTS TO ROADWORKS (15N/MM²) MAXIMISE COVER LEVEL. Plan View **SCALE 1:50** 2 X YELLOW MARKER WARNING TAPE, 500 mm WIDE. ESB CODE: 2955092 ACROSS FULL WIDTH OF TRENCH. SERVICE 25MAX

. THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE AND IS SUBJECT TO AMENDMENT.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT INFORMATION AND

3. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS. 4. ALL DIMENSIONS ARE IN MILLIMETRES. ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS

Section C - C

SCALE 1:50

5. NO EXCAVATION SHALL COMMENCE UNTIL THE CONTRACTOR HAS CONSULTED UP TO DATE SERVICES DRAWINGS AND CARRIED OUT AN ELECTROMAGNETIC LOCATOR (EML) SCAN.

6. HAND DIG ONLY WITHIN 500mm OF EXISTING SERVICES. 7. IF COMPACTING CBGM B COULD CAUSE DAMAGE TO THE CULVERT / SERVICE BELOW, USE RAPID HARDENING

CEMENT GRADE C25 / 30 FOLLOWING ENGINEERS PRIOR APPROVAL.

8. FOR STANDARD TRENCH CROSS SECTION DRAWINGS SEE 05909-DR-120 7. WHERE DEPTHS EXCEED 3000mm TO THE TOP OF THE DUCT THE CONTRACTOR SHALL CONSULT THE CABLE

SYSTEM DESIGN ENGINEER

8. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN THE PUBLIC ROADS.

9. FOR WATERMAIN CROSSINGS SEE 05909-DR-128 & 05909-DR-129.

10. THE PROPOSED DESIGN IS SUBJECT TO ESB APPROVAL AND SHOULD NOT BE USED FOR CONSTRUCTION II. ESB'S PREFERENCE IS TO CROSS UNDER ALL SERVICES WHERE IT IS NOT POSSIBLE TO MAINTAIN STANDARD COVER

WHEN CROSSING OVER THE SERVICE

12. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY WORKS REQUIRED. THE CONTRACTOR WILL APPOINT AN APPROVED TEMPORARY WORKS DESIGNER AND SUBMIT PROPOSED TEMPORARY WORKS DESIGNS TO THE PSDP.

Section D - D SCALE 1:10

* ALL EXISTING SERVICES WITH COVER LESS

THAN MIN. DIMENSIONS ABOVE SHALL BE

CROSSED BY UNDERCROSSING METHOD

CROWN LEVEL OF CULVERT / SERVICE PIPE



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75mm MIN. SEPARATION TO BE MAINTAINED

BACKFILL AND REINSTATE AS

FINISHED GROUND / ROAD LEVEL

STEEL PLATES WITH RED MARKER STRIPS, 200 mm WIDE x 6 mm THK. ESB CODE 3227173. STEEL PLATES

> RAPID HARDENING WET CONCRETE GRADE C25/30

A = 110mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6

TO BE INSTALLED ACROSS FULL WIDTH AND LENGTH OF TRENCH AS SHOWN WITH 25 mm MAXIMUM SPACING.

EXISTING GROUND SHALL BE UNDISTURBED

EXISTING CULVERT / SERVICE

A393 STEEL REINFORCEMENT MESH FOR WIDTH OF TRENCH

PER SPECIFICATION

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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

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CONSULTANTS



LEGEND: -

• See notes in drawing window

9	110mm Ø HDPE DUCT WITH 12mm DIAMTER PULL ROPE

STEEL PLATES YELLOW MARKER WARNING TAPE

----- A393 MESH REINFORCEMENT

RED MARKER STRIP WITH

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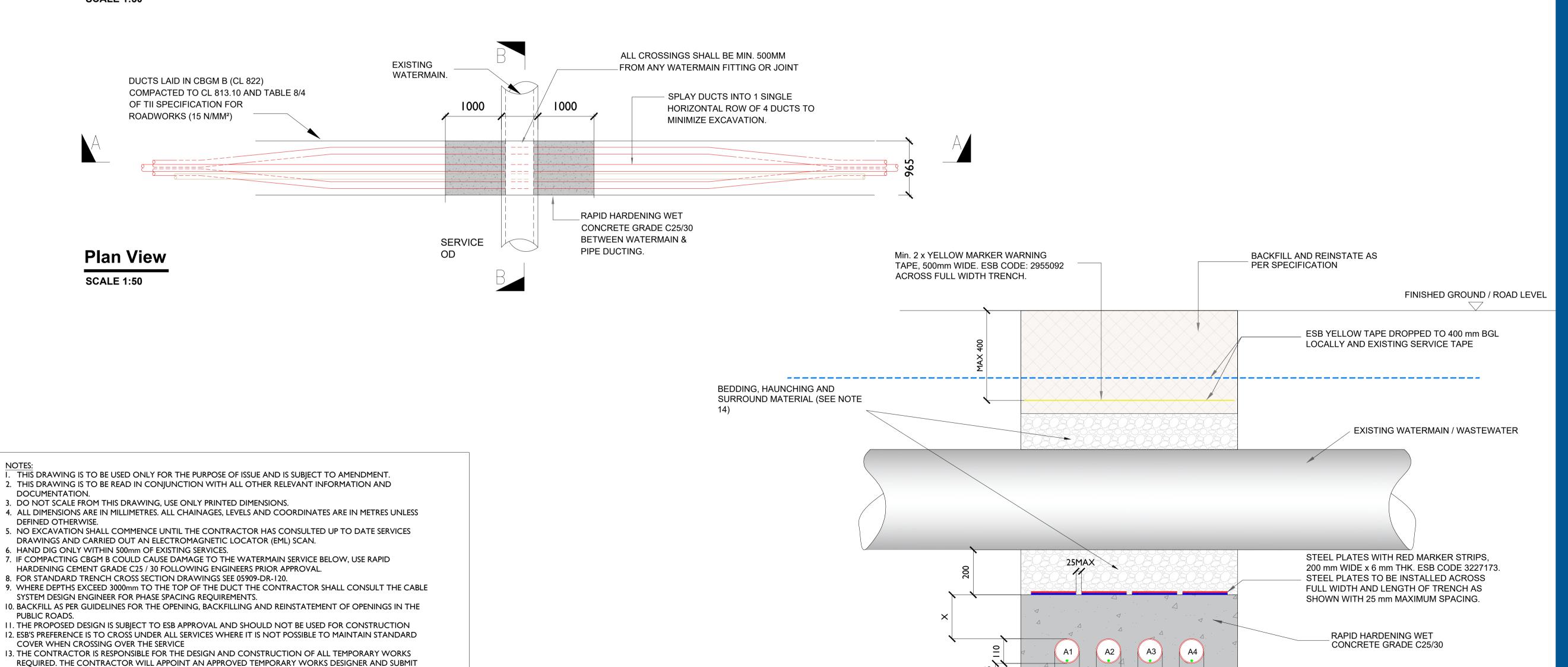
SHEET TITLE

38kV Service/Culvert Over Crossing Detail

SHEET NUMBER

Section A - A

SCALE 1:50



Section B - B

SCALE 1:10

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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

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NOTES: -• See notes in drawing window

LEGEND: -

110mm Ø HDPE DUCT WITH 12mm DIAMTER PULL ROPE

RED MARKER STRIP WITH STEEL

YELLOW MARKER WARNING TAPE

EXSITING SERVICES MARKER TAPE

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A = 110mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6

<=300

>300

EXISTING WATERMAIN | X (mm)

200

300

SHEET TITLE

38kV Watermain/Wastewater Under Crossing Detail

SHEET NUMBER

05909-DR-128

PROPOSED TEMPORARY WORKS DESIGNS TO THE PSDP.

SCOPING WILL BE COMPLETED BEFORE AND AFTER THE WORKS.

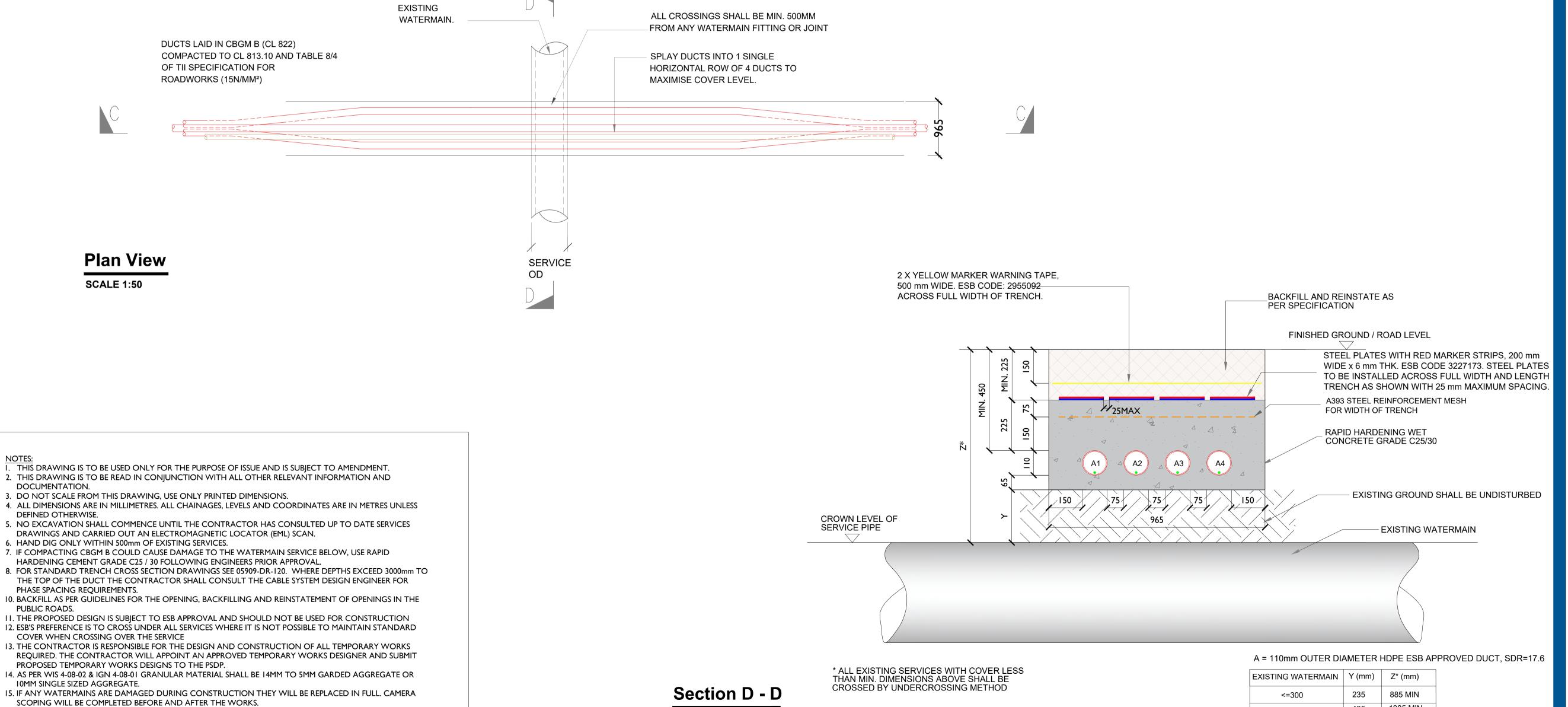
10MM SINGLE SIZED AGGREGATE.

14. AS PER WIS 4-08-02 & IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14MM TO 5MM GARDED AGGREGATE OR

15. IF ANY WATERMAINS ARE DAMAGED DURING CONSTRUCTION THEY WILL BE REPLACED IN FULL. CAMERA

Section C - C

SCALE 1:50



SCALE 1:10

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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

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CONSULTANTS



NOTES: -

• See notes in drawing window

LEGEND: -

110mm Ø HDPE DUCT WITH 12mm DIAMTER PULL ROPE

RED MARKER STRIP WITH STEEL PLATES

YELLOW MARKER WARNING TAPE

----- A393 REINFORCEMENT MESH

ISSUE/REVISION

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PROJECT NUMBER

05-909

SHEET TITLE

38kV Watermain/Wastewater Over Crossing Detail

SHEET NUMBER

05909-DR-129

435

>300

1085 MIN

SLOPES FROM 1:1 TO 1:2.5

Bank Details Scale 1:20

SLOPES < 1:2.5

TOP OF BANK TOP OF WATER LEVEL 250mm BED OF STONE, 100 mm SINGLE STONE SIZE MIN 2 No. YELLOW MARKER WARNING TAPE, 500 mm WIDE. ESB CODE 2955092 ACROSS FULL 250mm THICK COMPACTED CLAY BED LEVEL A393 STEEL REINFORCEMENT MESH 25 MAX GALVANIZED STEEL PLATES 6mm THK TO BE INSTALLED ACROSS FULL WIDTH & LENGHT OF TRENCH WITH 25mm MAXIMUM SPACING WITH RED MARKER STRIPS 200mm WIDE LINKED TO RAPID HARDENING WET CONCRETE GRADE C25/30 140** 1000 1000

A = 110mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6

1030**

- * MIN. 75mm DUCT SPACING TO BE CONFIRMED BY CABLE RATING CALCULATIONS AT EACH CROSSING, REFER TO NOTE 9
- ** MIN. 140mm DUCT SPACING, REFER TO NOTE 6.

Typical Cross Section Scale 1:20

- 1. NO EXCAVATION SHALL COMMENCE UNTIL THE CONTRACTOR HAS CONSULTED UP TO DATE SERVICES DRAWINGS
- AND CARRIED OUT AN ELECTROMAGNETIC LOCATOR (FML) SCAN. 2. HAND DIG ONLY WITHIN 500mm OF EXISTING SERV CF.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY WORKS. THE CONTRACTOR SHALL APPOINT A COMPETENT TEMPC (ANY WORKS DESIGNER, AND SUBMIT TEMPORARY WORKS DESIGN TO PSDP FOR REVIEW
- 4. FOR STANDARD TRENCH CROSS SECTION DRAWINGS SEE 05908-DR-120-P1

ESB YELLOW MARKER

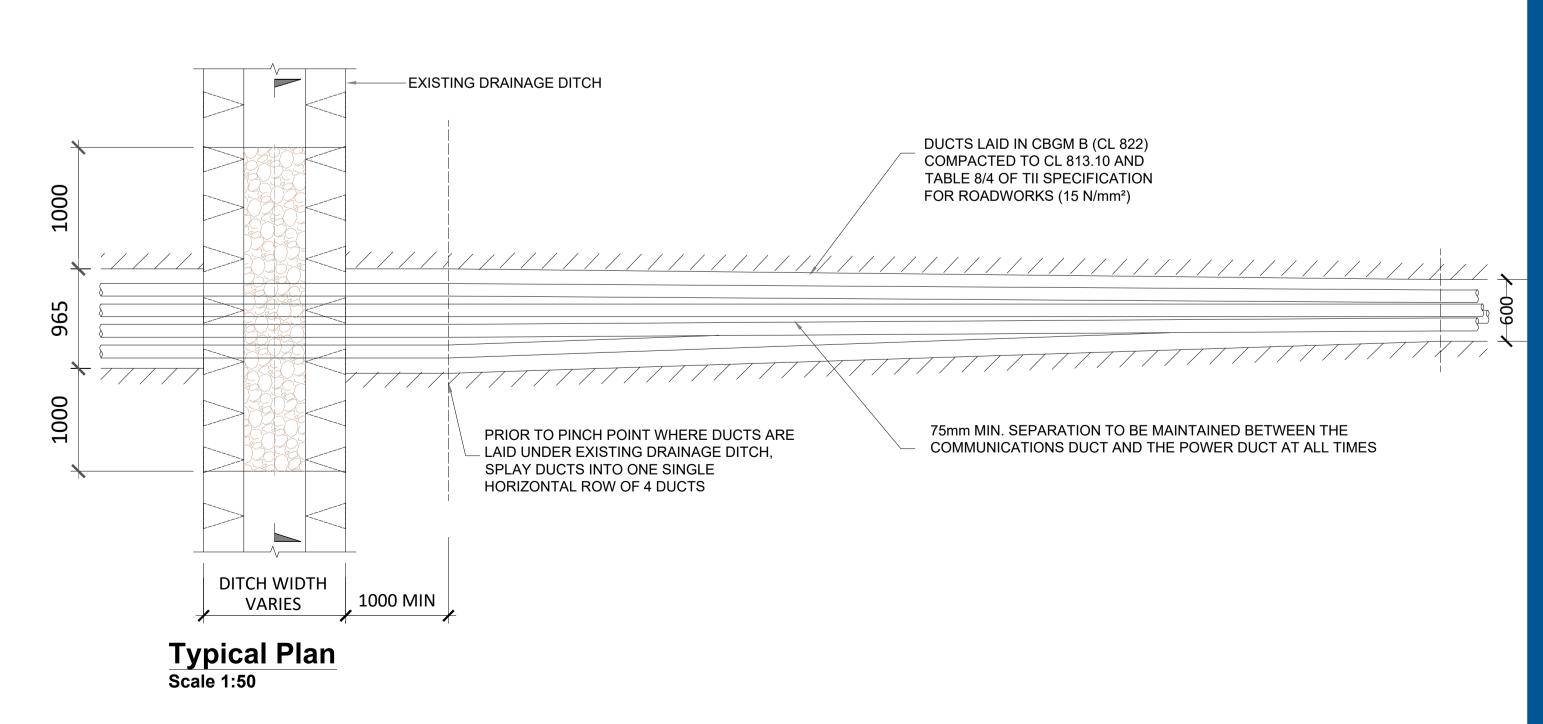
- 5. WHERE DUCT FOR EARTH CONTINUITY CONDUCTOR (ECC) IS NEC, VIRLD, ATTACH THE 63mm DUCT TO POWER
- 6. THE PROPOSED DESIGN IS SUBJECT TO ESB APPROVAL AND SHOULD NOT BE USED FOR CONSTRUCTION 7. CONTRACTOR SHALL RECORD DETAILED AS-BUILT INFORMATION AS PER THE SPECIFICATION. AT ALL CROSSING LOCATIONS THESE RECORDS SHALL INCLUDE PHOTOGRAPHIC EVIDENCE CLEAKLY DEMONSTRATING THE
- MINIMUM SERVICE CLEARANCES AND DUCT SEPARATIONS HAVE BEEN AC' (EVED.) 8. FOR RIVER, STREAM CROSSINGS, THE DUCTS LAYOUT AND CROSSING DETAILS ARE THE SAME TO THE THE DRAINAGE DITCH CROSSING.
- 9. SEPARATION BETWEEN POWER CABLE DUCTS TO BE DETERMINED BY CABLE RATING CALCULATIONS BASED ON THE MAXIMUM DEPTH OF COVER TO THE DUCTS.

3 No. RED MARKER STRIPS

400mm WIDE RED MARKER TAPE (3 No.) TO BE START AT THIS POINT. INSTALLED ACROSS THE WIDTH OF TRENCH, ESB CABLE MARKER POST LOCATION TO BE FROM START OF TRANSITION TO STEEL MARKER AGREED ON SITE WITH THE ENGINEER PLATES. GROUND LEVEL OVERLAPPING RED MARKER STRIPS & STEEL PLATES 1000 MIN - A393 MESH 1000 MIN 1:6 GRADIENT CBGM B MIN 225mm OVER POWER DUCTS EXTENT OF STEEL PLATES, A393 MESH & RAPID HARDENING

Typical Longitudinal Section - Crossing Under Drainage Ditch

WET CONCRETE GRADE C25/30





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PROJECT

Lackareagh Wind Farm 38kV Grid Connection

APPLICANT



CONSULTANTS



See notes in drawing window

LEGEND: -

ISSUE/REVISION

P2 13.08.24 Issued For EIAR P1 14.07.23 Issued For Planning DATE DESCRIPTION

PROJECT NUMBER

05-909

SHEET TITLE

Typical Drain/Ditch Crossing Detail

SHEET NUMBER