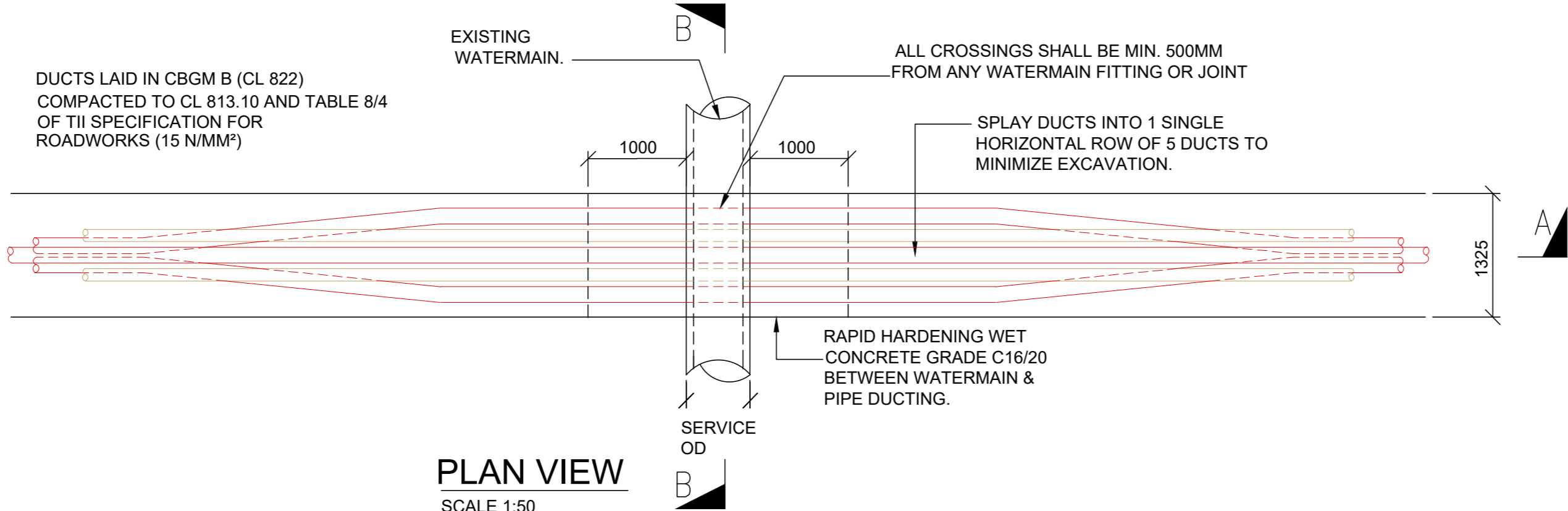
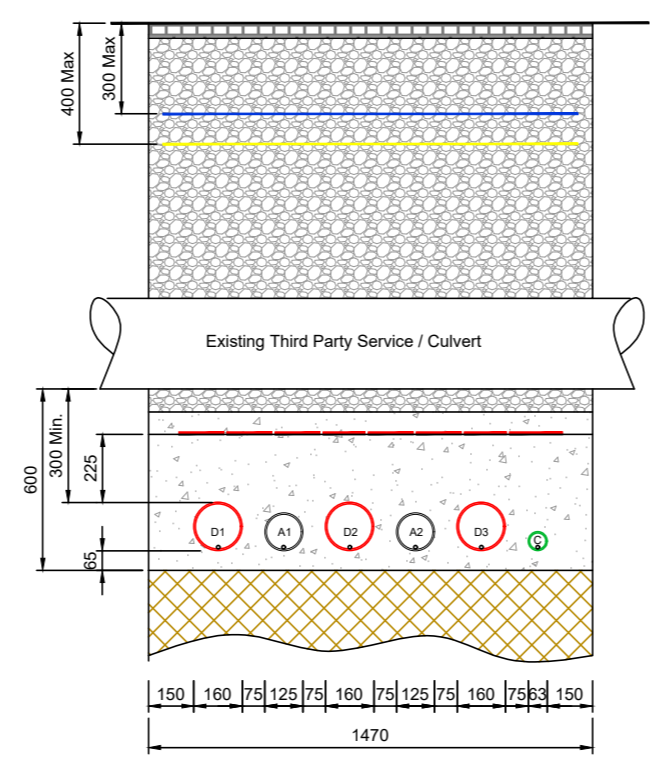


**SECTION A-A**  
SCALE 1:50



**PLAN VIEW**  
SCALE 1:50

- Red Marker Tape
- Yellow Marker Warning Tape
- Existing Service Marker Tape
- Rapid Hardening Wet Concrete
- CBGM B (Cl 822), Compacted to Cl. 813.10
- Backfill Material (Cl. 804)
- Existing Ground Level



A = 125mm OD HDPE Duct For Communications  
B = 160mm OD HDPE Duct for HV Cables  
C = 63mm OD HDPE Duct for Earth Continuity When Required

**SECTION B-B**  
SCALE 1:50

BACKFILL & REINSTATE AS PER RELEVANT SPECIFICATION

ESBN APPROVED YELLOW MARKER WARNING TAPE FOR WIDTH OF TRENCH

EXISTING 3rd PARTY UTILITY TAPE

5x200mm ESBN RED CABLE MARKER STRIPS LINKED TO 5x200mm WIDE GALVANISED STEEL PLATES, TO EXTEND TO 1m EITHER SIDE OF SERVICE/CULVERT (25mm MAXIMUM SPACING BETWEEN STEEL PLATES)

A393 MESH

RAPID HARDENING WET CONCRETE GRADE C25 / 30

12mm DIA. PULL ROPE IN ALL DUCTS

EXISTING GROUND SHALL BE UNDISTURBED

CROWN LEVEL OF WATERMAIN

**NOTE No. 2**  
Where an Earth Continuity Conductor (ECC) is Required, a Min. 63mm Duct to be Installed Outside of Phase Duct. The Trench Width Increases to 1470mm

- GENERAL NOTES**
- This drawing is subject to ESB design approval and is not to be used for Construction.
  - 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.
  - 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 6289-PL-GR-1201 (THE FOL) and 6289-PL-GR-1202 (PLAT).
  - Where depths exceed 2000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
  - Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
  - ESB's preference is to cross under existing services where possible. This design may only be applied with confirmation in writing from the Engineer on a case by case basis.
  - The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSEP for review.
  - 225 mm minimum concrete cover ducts where they transition from standard cross section and where they are at least then standard cover to ground level.
  - Roads with existing deep asphalt require a minimum 225 mm from the underside of the existing asphalt to the top of the cable duct.
  - The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
  - The Contractor shall record detailed as-built information as per the specification, at all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.
  - All works shall be in accordance with Irish Water code of practice for infrastructure.
  - As per WIS 4-B-02 & ION 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate.
  - Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 63mm ECC-duct to the B1-duct and update the trench width accordingly.

rev.	modifications	by	chk	date

Client <b>Constant Energy Limited</b>				
Project <b>Proposed Tirawley Wind Farm &amp; 110kV Grid Connection Route</b>				
Stage <b>Planning</b>				
Title <b>Grid Connection Route: Proposed 110kV Crossing Under Existing Watermain</b>				
Scales <b>1:50 &amp; 1:20 (A2)</b>				
Surveyed	Drawn	Checked	Approved	Date
	LB	DT/AG	DK	April 2026



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IRELAND www.jodireland.com

Drawing No. <b>6289-PL-GR - 1313</b>	Revision
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