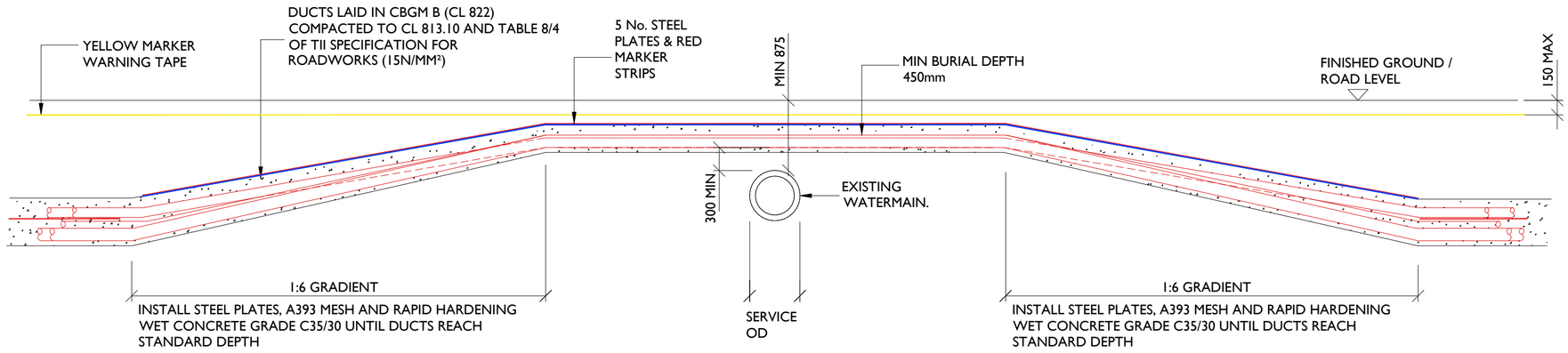
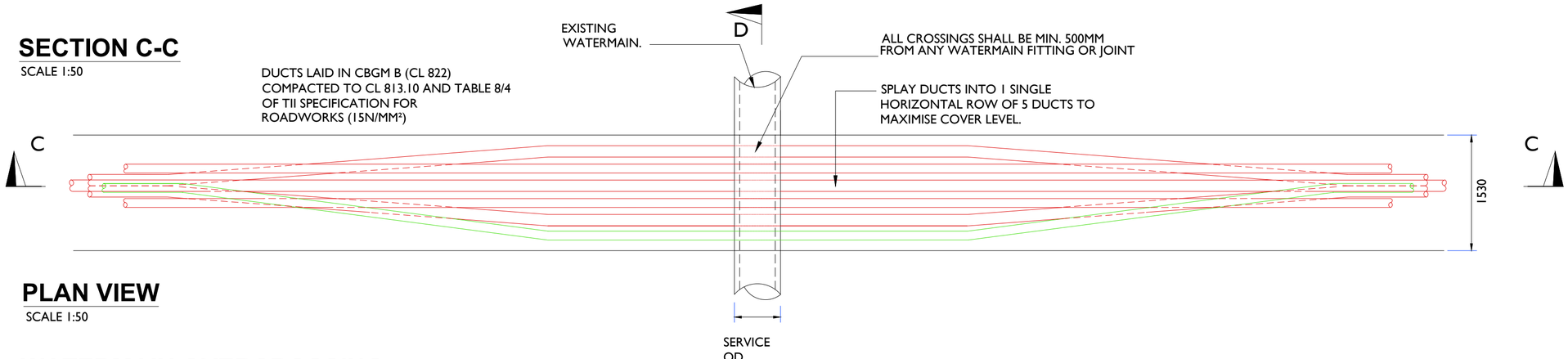
ISO A2 420mm x 594mm



SECTION C-C

SCALE 1:50



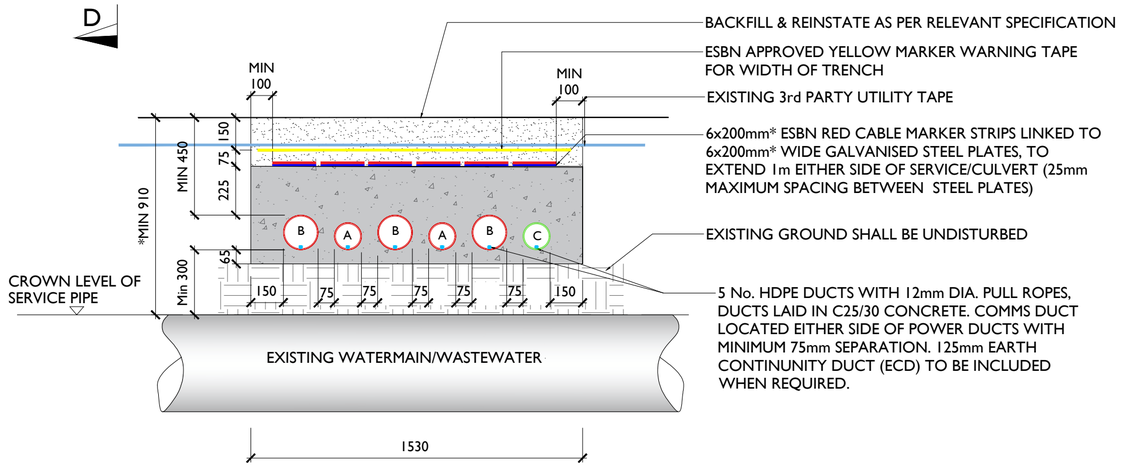
PLAN VIEW

SCALE 1:50

WATERMAIN OVERCROSSING

GENERAL NOTES

1. This drawing is subject to ESB design approval and is not to be used for construction.
2. This drawing is to be read in conjunction with all other relevant documentation.
3. Do not scale from this drawing use only printed dimensions
4. All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
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 and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
14. If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
15. 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 PSDP for review.
16. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
17. Replace existing service marker tape over ESB yellow marker tape.
18. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
19. 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.



* 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
** MIN 1330 WHERE ECC IS NOT REQUIRED
* ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUITY CONDUCTOR) DUCT,

SECTION D-D

SCALE: 1:20

Project Management Initials: Designer: AD Checked: DB Approved: RG

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PROJECT

Lissinagroagh Wind Farm
110kVGrid Connection

CLIENT

Ireland FuturEnergy

CONSULTANTS

TOBIN CONSULTING ENGINEERS

NOTES: -

LEGEND: -

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR
- STEEL PLATES YELLOW MARKER WARNING TAPE
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

Trench Sections For Overcrossing Existing Watermain/Wastewater

SHEET NUMBER

05773-DR-129