

PROJECT

Lissinagroagh Wind Farm
110 kV Grid Connection

CLIENT

FuturaEnergy Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

NOTES: -

LEGEND: -

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE
- 125mm Ø HDPE EARTH CONTINUITY CONDUCTOR WITH 12mm DIAMETER 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

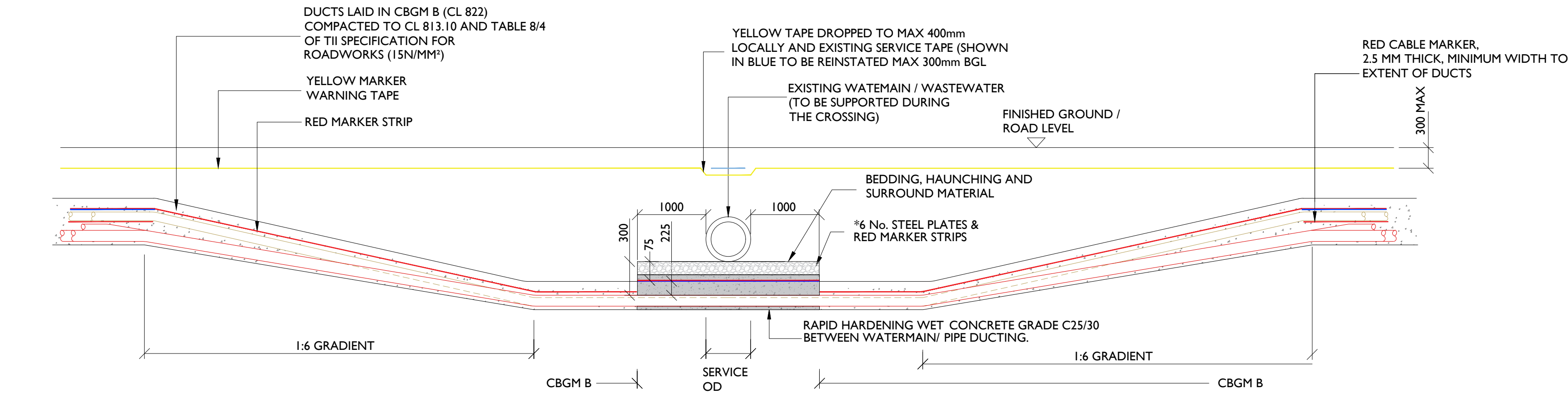
05-773

SHEET TITLE

Trench Sections For Undercrossing
Existing Watermain/Wastewater

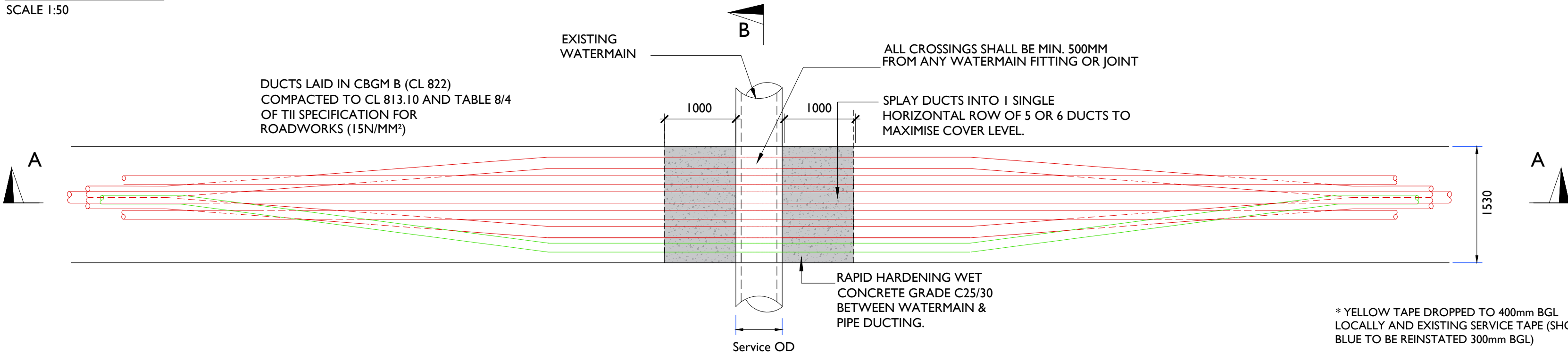
SHEET NUMBER

05773-DR-128



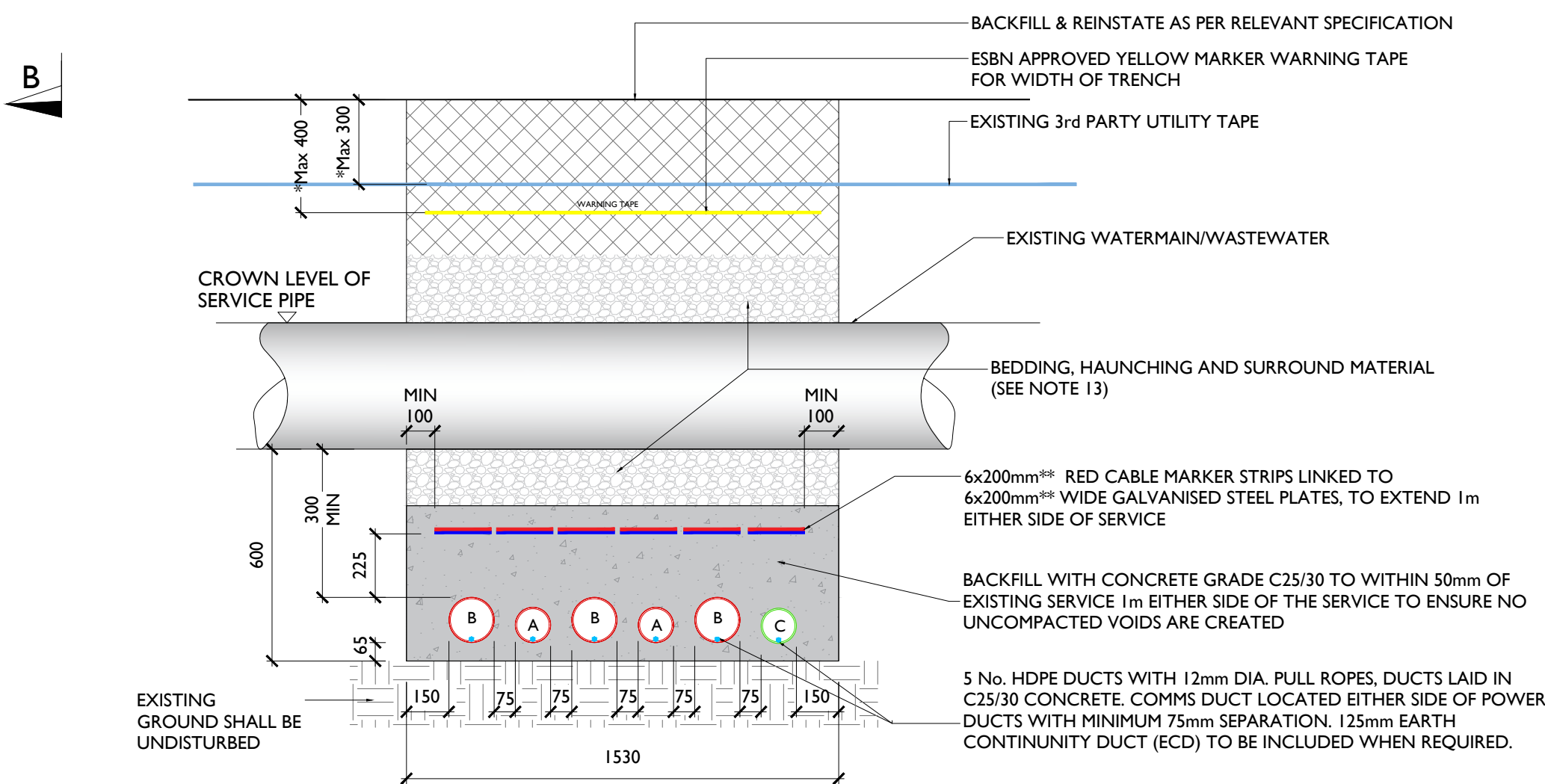
SECTION A-A

SCALE 1:50



PLAN VIEW

SCALE 1:50



- ** 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 B-B

SCALE: 1:20

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 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
- Where depths exceed 2500mm 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.**
- Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
- As per VVIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate
- If any Watermains are damaged during construction they will be replaced in full. camera scoping will be completed before and after the works.
- 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.
- 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
- Replace existing service marker tape over ESB yellow marker tape.
- 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.