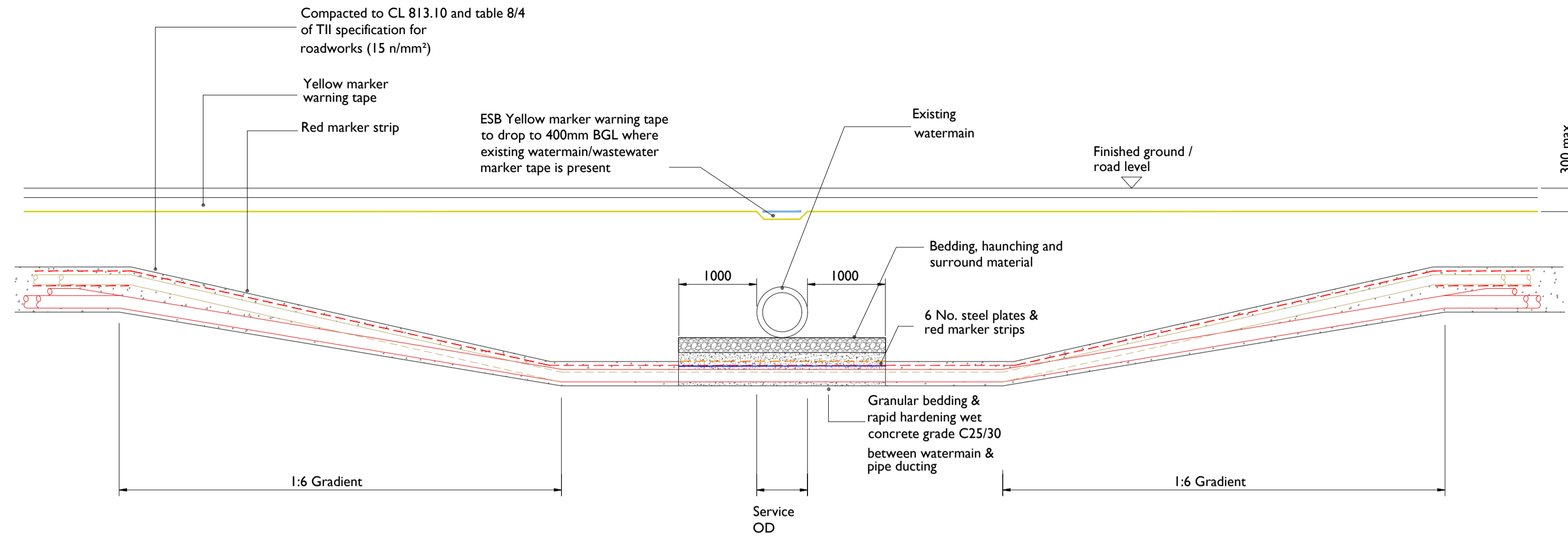
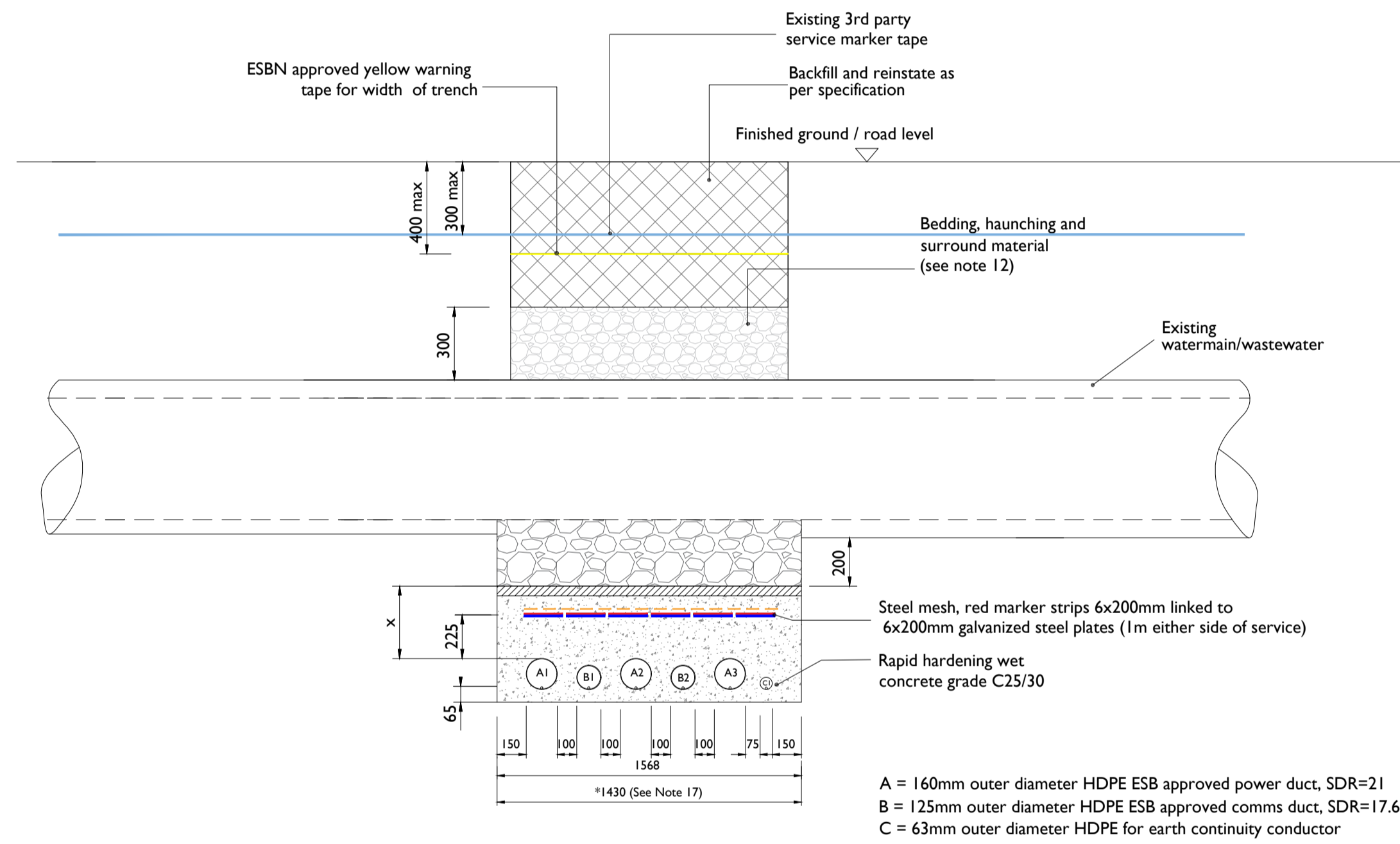


WATERMAIN UNDERCROSSING



SECTION A-A

SCALE 1:50



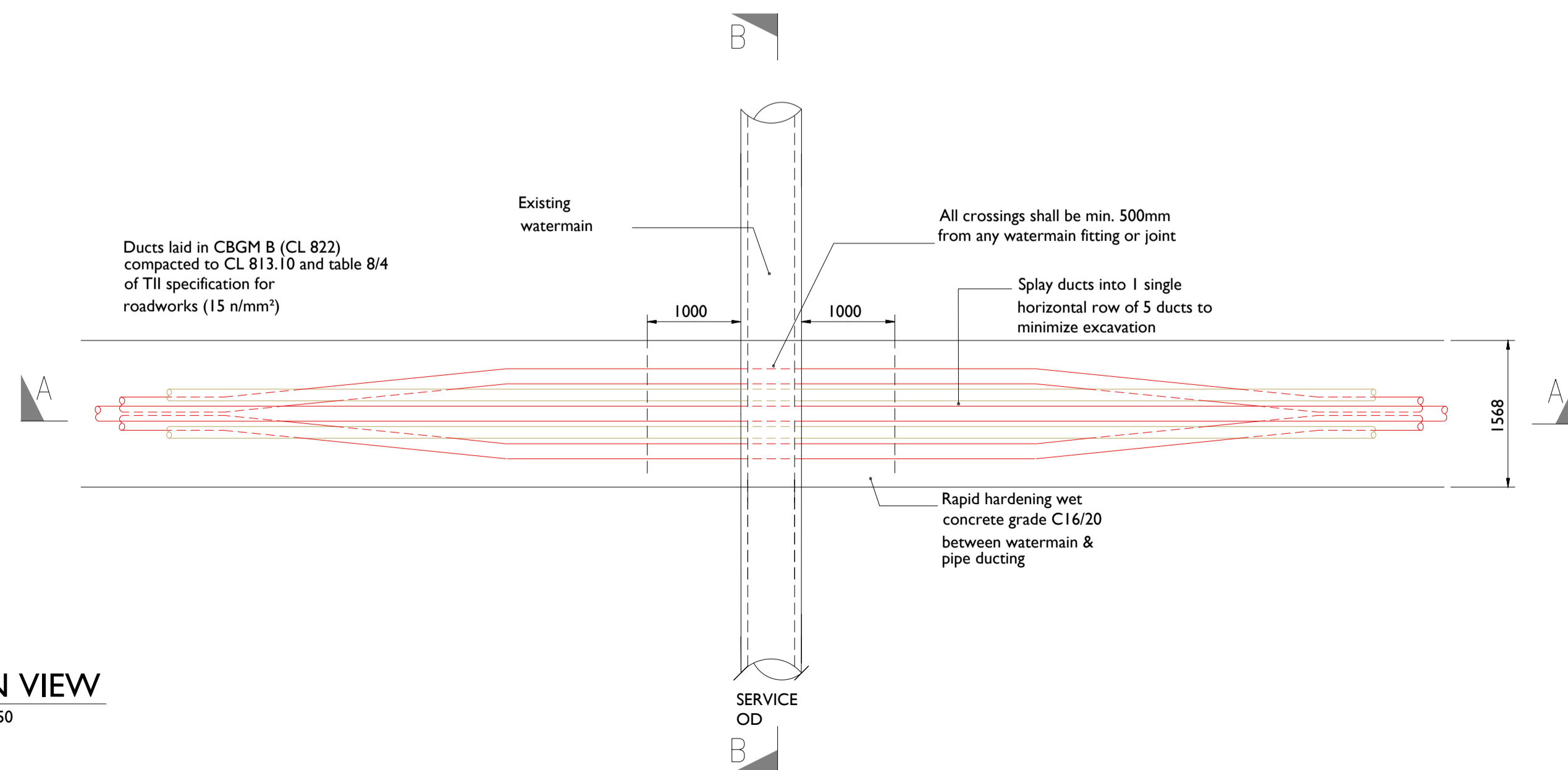
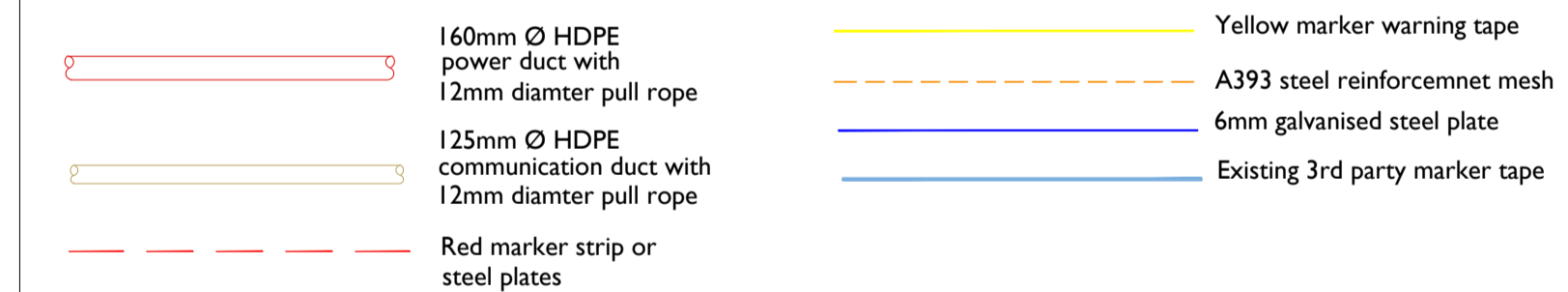
A = 160mm outer diameter HDPE ESB approved power duct, SDR=21
 B = 125mm outer diameter HDPE ESB approved comms duct, SDR=17.6
 C = 63mm outer diameter HDPE for earth continuity conductor

EXISTING WATERMAIN	X (mm)
<=300	200
>300	300

SECTION B-B

SCALE 1:25

LEGEND



PLAN VIEW

SCALE 1:50

GENERAL NOTES

- This design is subject to EirGrid design approval.
- 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 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 05868-DR-005 / 006 (TREFOIL) and 05868-DR-007 (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 (2017)
- As per VVIS 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 ESB yellow marker tape should be installed at maximum 300mm below finished surface level
- 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.

PROJECT

110kV Baldonnell Substation

CLIENT



CONSULTANTS

NOTES: -

- See General Notes

LEGEND: -

ISSUE/REVISION

NO	DATE	DESCRIPTION
P3	19.05.23	Issued for Planning
P2	15.03.23	Issued for Planning
P1	24.02.23	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-868

SHEET TITLE

Trench Sections for Crossing Under Watermain / Wastewater

SHEET NUMBER

05868-DR-011