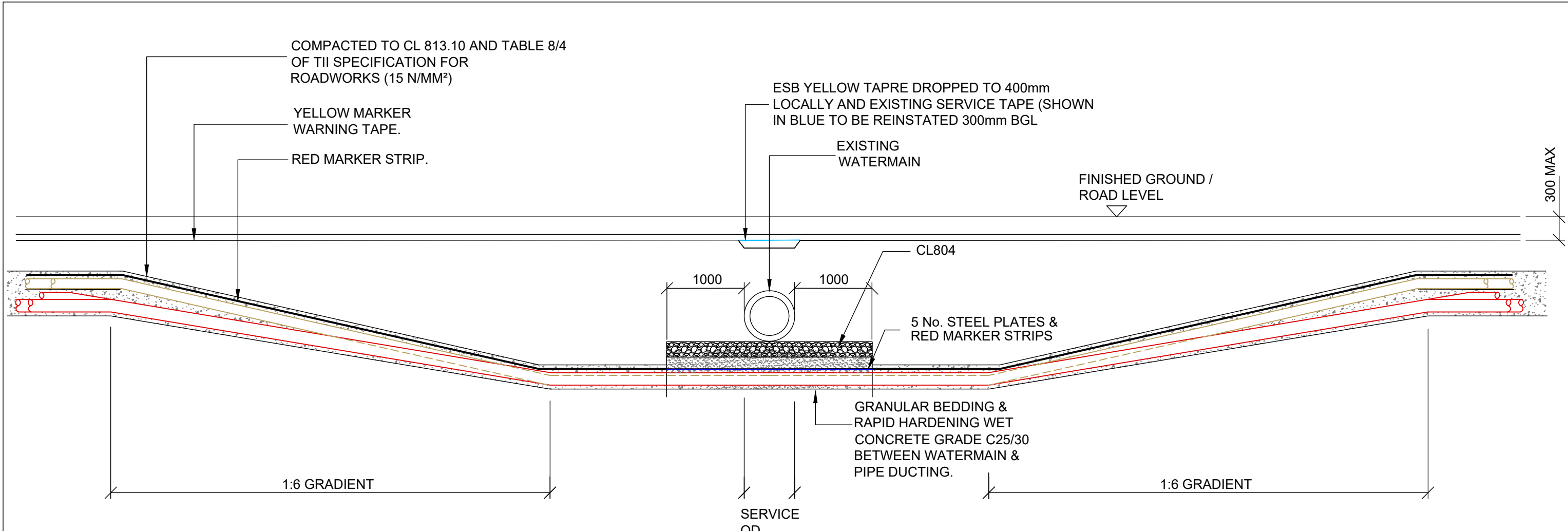
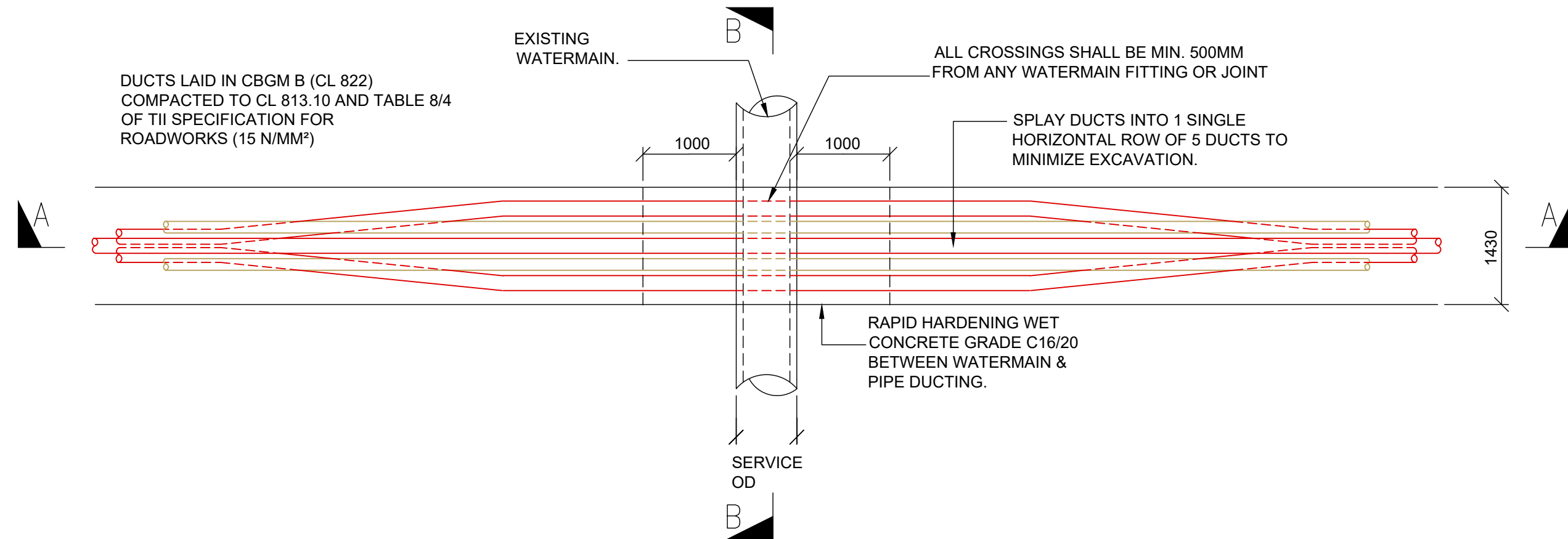


ISO A1 594mm x 841mm

Project Management Initials: Designer: GD Checked: SK Approved: RG

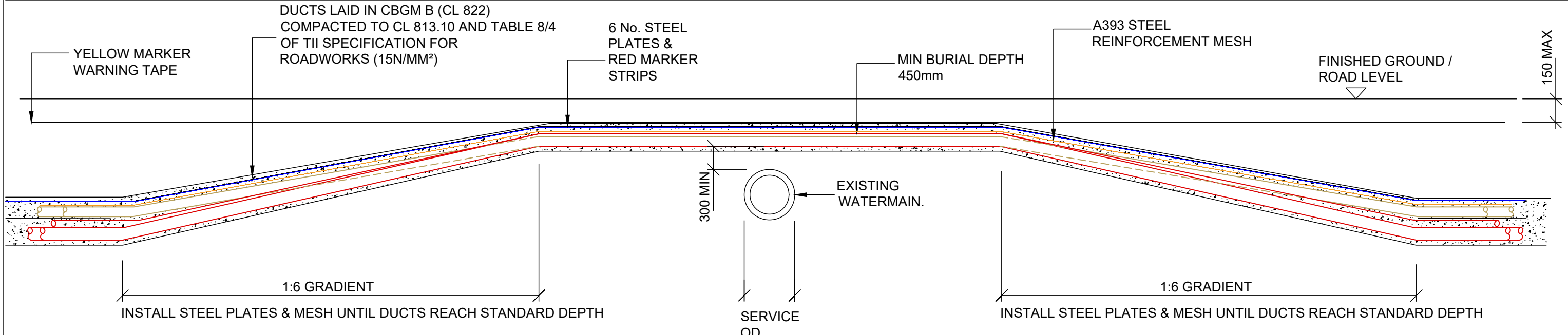


SECTION A-A
SCALE 1:50

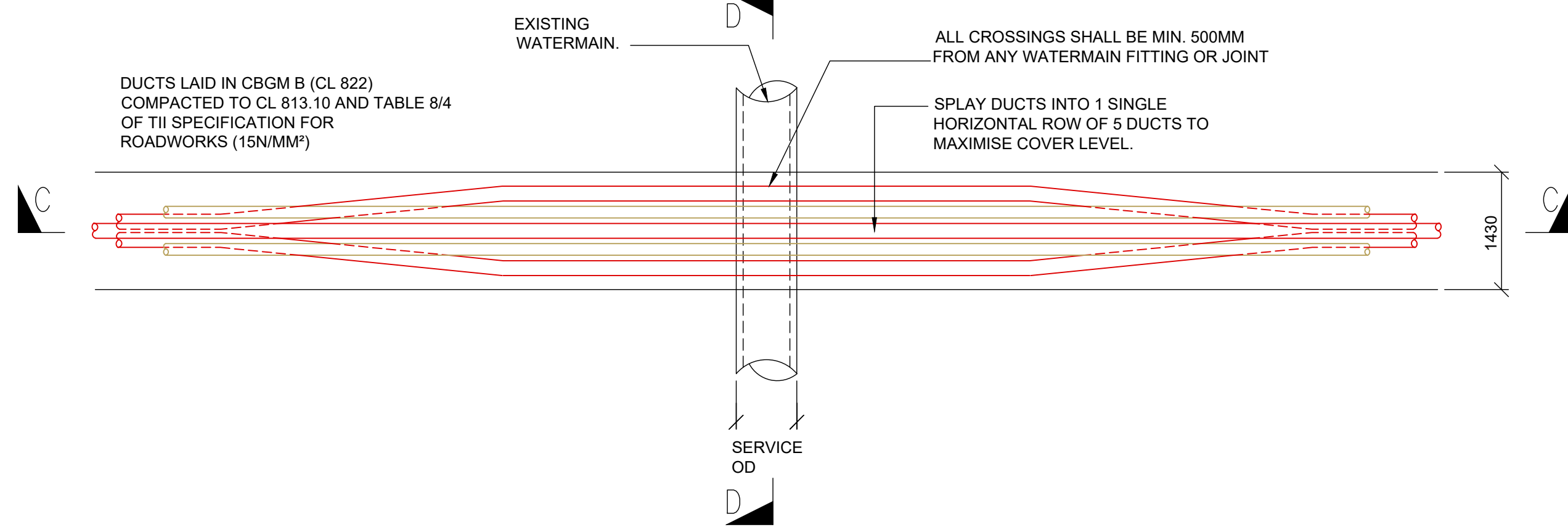


PLAN VIEW
SCALE 1:50

WATERMAIN UNDERCROSSING



SECTION C-C
SCALE 1:50



PLAN VIEW
SCALE 1:50

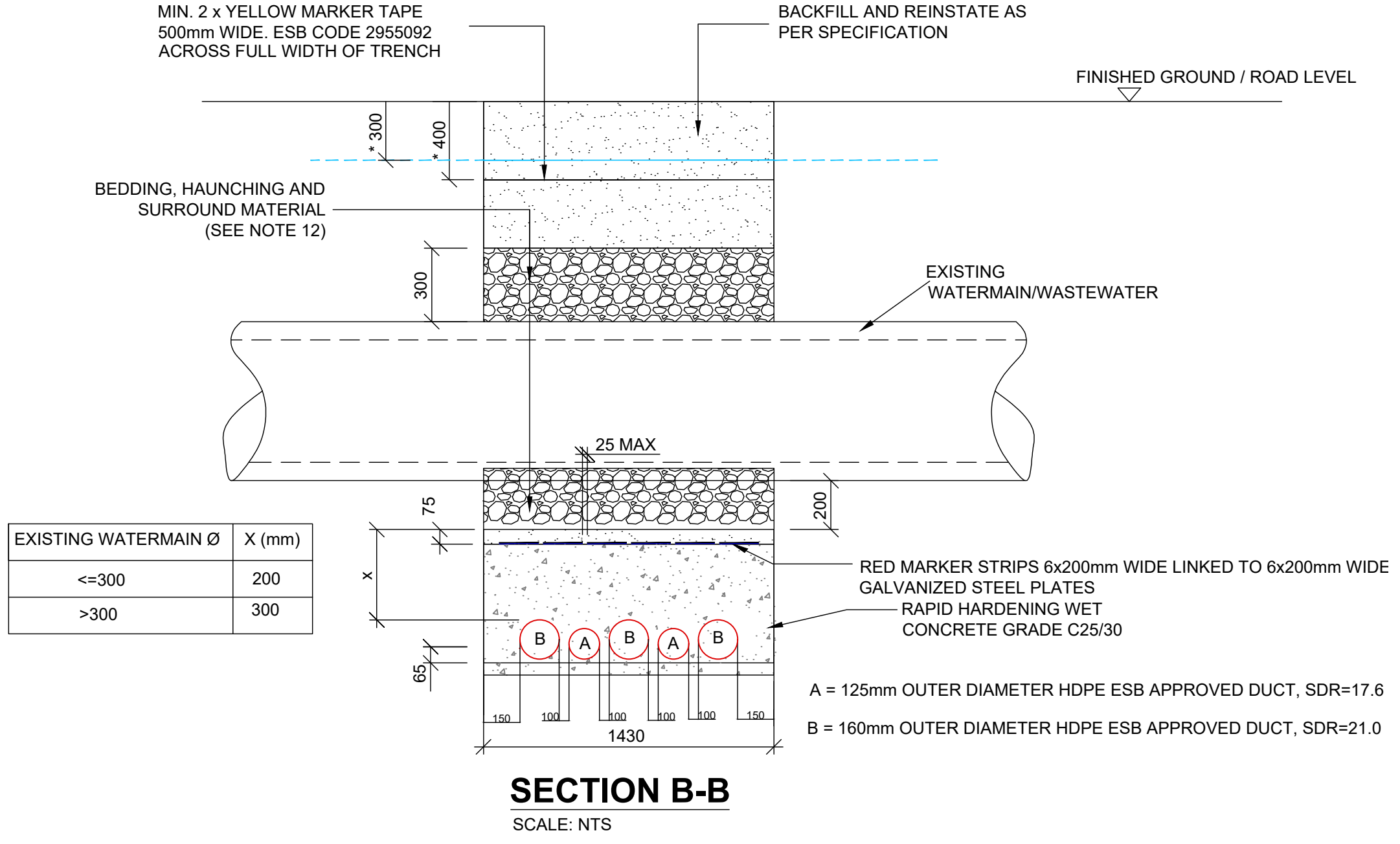
WATERMAIN OVERCROSSING

LEGEND

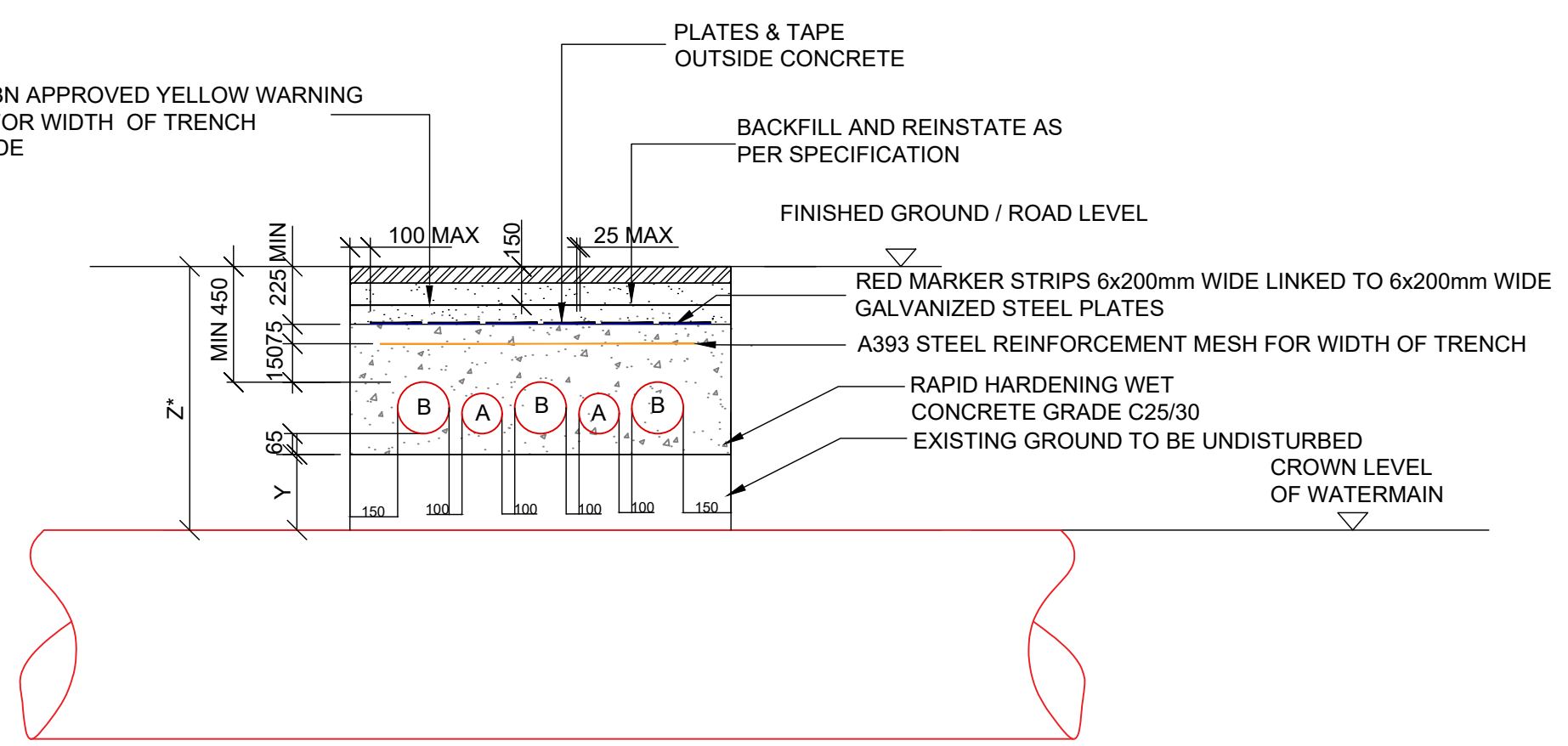
- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMTER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMTER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMNET MESH
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

GENERAL NOTES

- 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 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 05652-528 (TREFOIL) and 05652-530 (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 (2015)
- As per WIS 4-08-02 & IGN 4-08-01 granular material shall be 14mm to 5mm graded aggregate or 10mm single sized aggregate



SECTION B-B
SCALE: NTS



SECTION D-D
SCALE: NTS

EXISTING WATERMAIN Ø	Y (mm)	Z* (mm)
<=300	235	885 MIN
>300	435	1085 MIN

* ALL EXISTING SERVICES WITH COVER LESS THAN MIN. DIMENSIONS ABOVE SHALL BE CROSSED BY UNDERCROSSING METHOD

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PROJECT

110kV Underground Cabling for Upperchurch Wind Farm Grid Connection



CONSULTANTS

NOTES: -
See General Notes

LEGEND: -

ISSUE/REVISION		
03	05.09.19	Issued for Planning
02	11.07.19	Issued for Planning
01	25.06.19	Issued for Planning
00	06.03.19	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
05-652

SHEET TITLE
**Typical Trench Sections for
Crossing Watermain/Wastewater**

SHEET NUMBER
05652-534