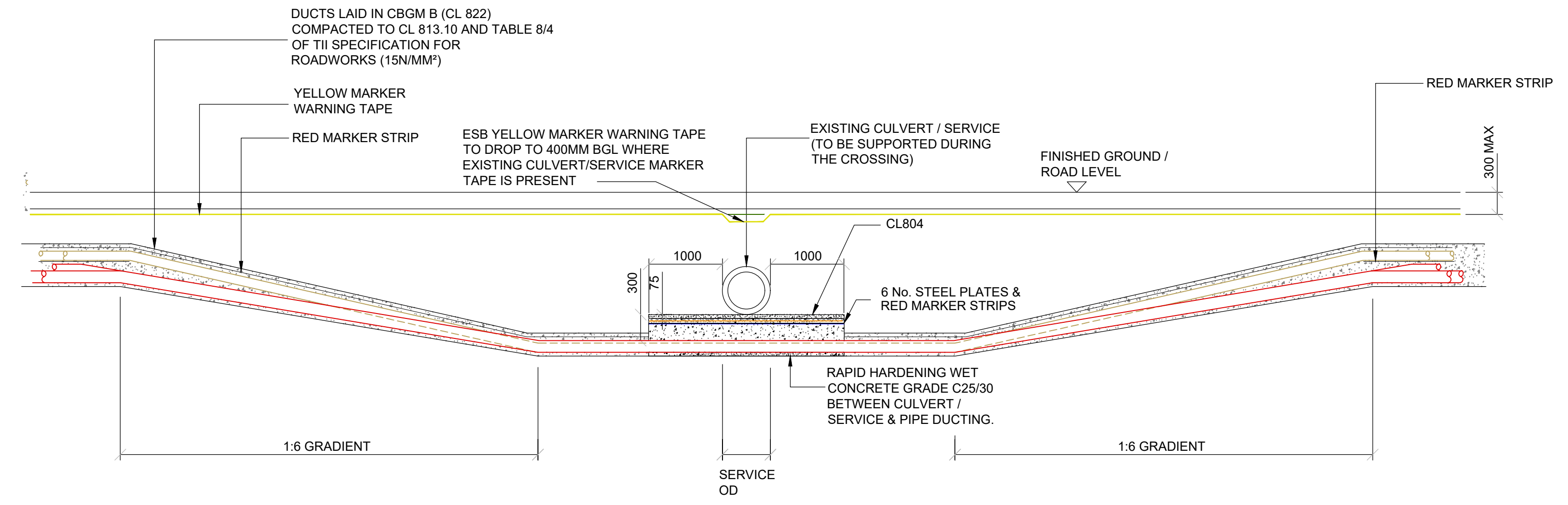
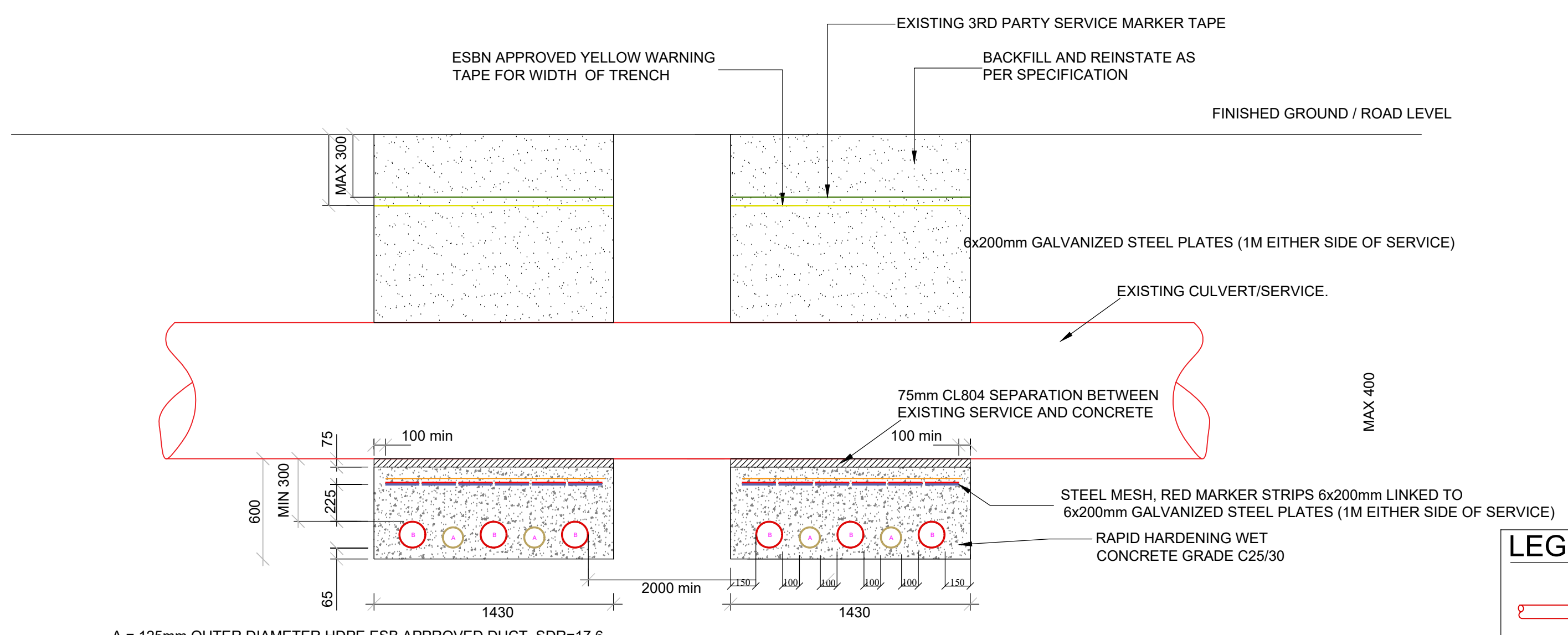


CULVERT / SERVICE UNDERCROSSING

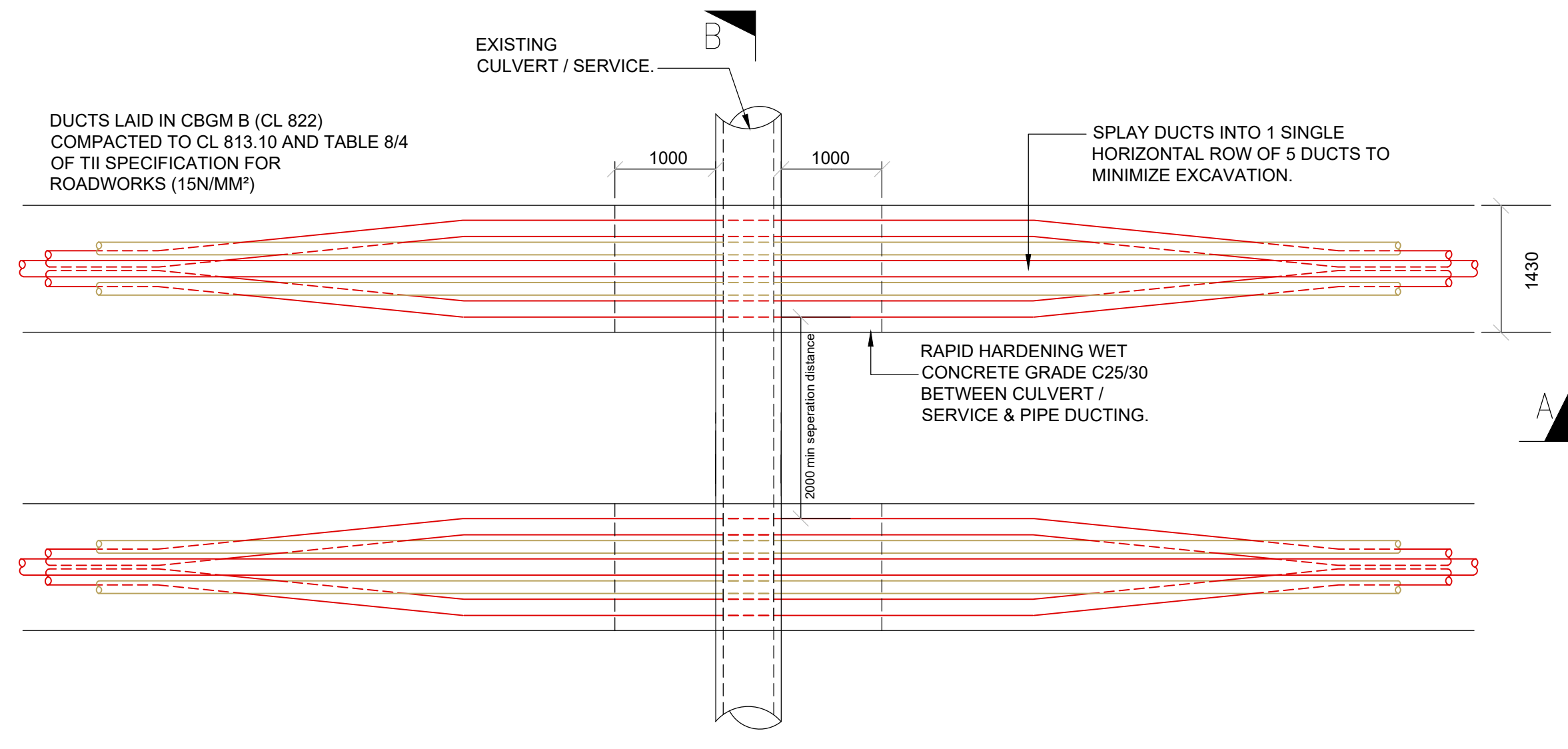


SECTION A-A
SCALE 1:50



A = 125mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=17.6
 B = 160mm OUTER DIAMETER HDPE ESB APPROVED DUCT, SDR=21

SECTION B-B
SCALE: NTS



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 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 05699-100, 101, 108 (TREFOIL) and 05699-104 (FLAT).
- Where depths exceed 3000mm to the top of duct the contractor shall consult the cable system design engineer for phase spacing requirements.
- For Watermain crossings, see 05699-109 and 110
- 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

LEGEND

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE
- YELLOW MARKER WARNING TAPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- RED MARKER STRIP OR STEEL PLATES
- EXISTING 3RD PARTY MARKER TAPE



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PROJECT
 Castlebanny Wind Farm
 110kV Grid Connection

CLIENT
TOBIN
 CONSULTING ENGINEERS



NOTES: -
 • See General Notes

LEGEND: -

ISSUE/REVISION		
NO	DATE	DESCRIPTION
P01	02.12.20	Issued for Planning
P00	08.09.20	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER
 05-699

SHEET TITLE
 Typical DC Trench Section for
 Crossing under Culverts/Services

SHEET NUMBER
 05699-DR-112