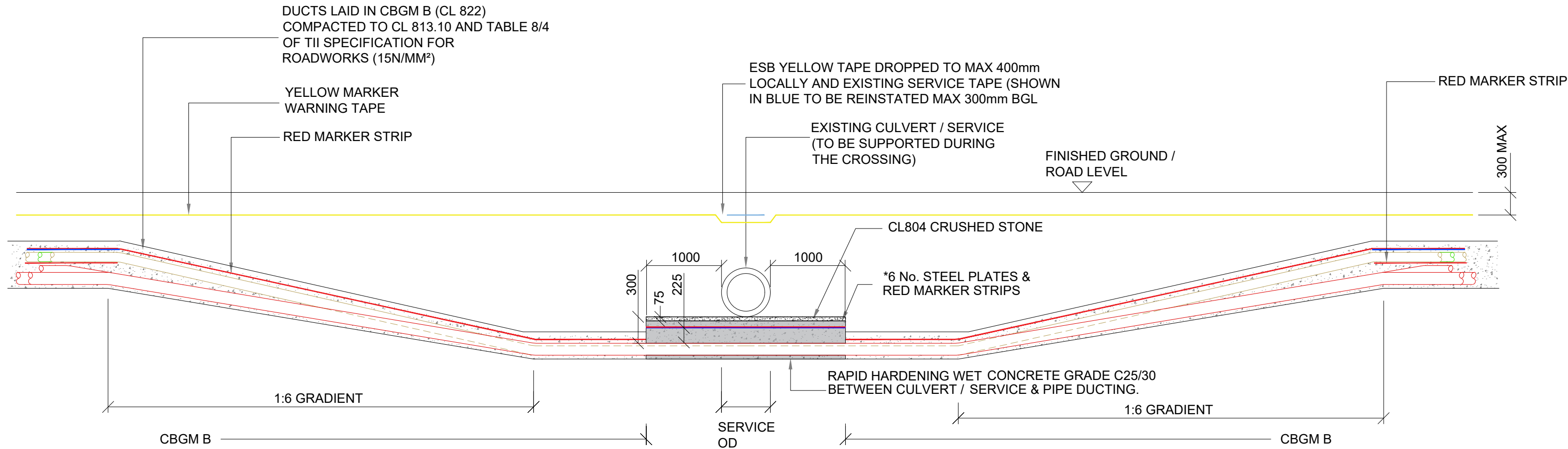


SERVICE UNDERCROSSING

GENERAL NOTES

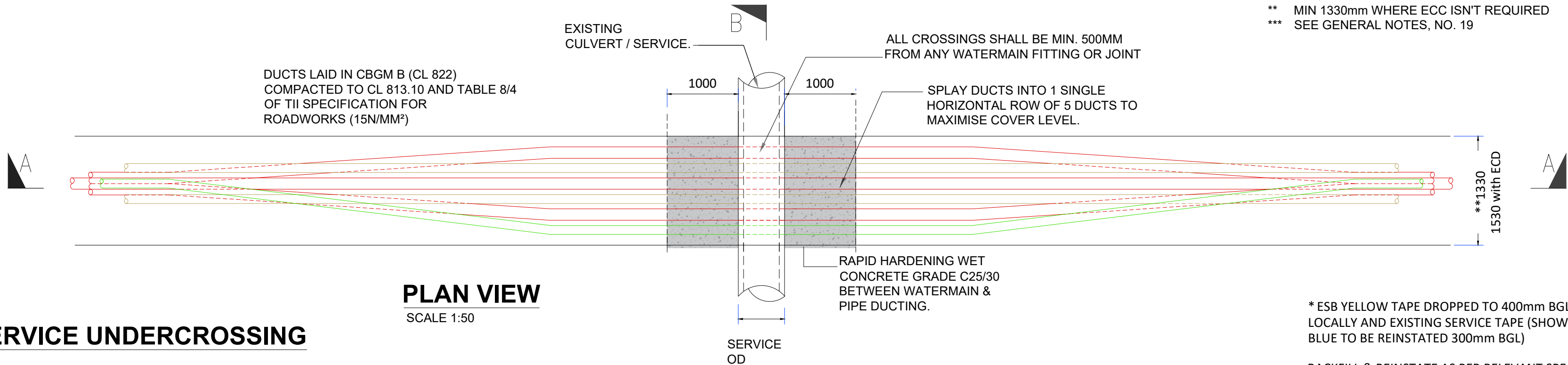
- This drawing is subject to ESB design approval and is not to be used for construction.
- This drawing is to be read in conjunction with all other relevant documentation.
- Do not scale from this drawing use only printed dimensions
- All dimensions are in millimetres, all chainages, levels and co-ordinates 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 051064-DR-110 (TREFOIL) and 051064-DR-121 (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)
- 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.
- Where duct for Earth Continuity Conductor (ECC) is required for single point bonded sections, attach the 125mm ECC duct to the A duct and update the trench width accordingly.



SECTION A-A

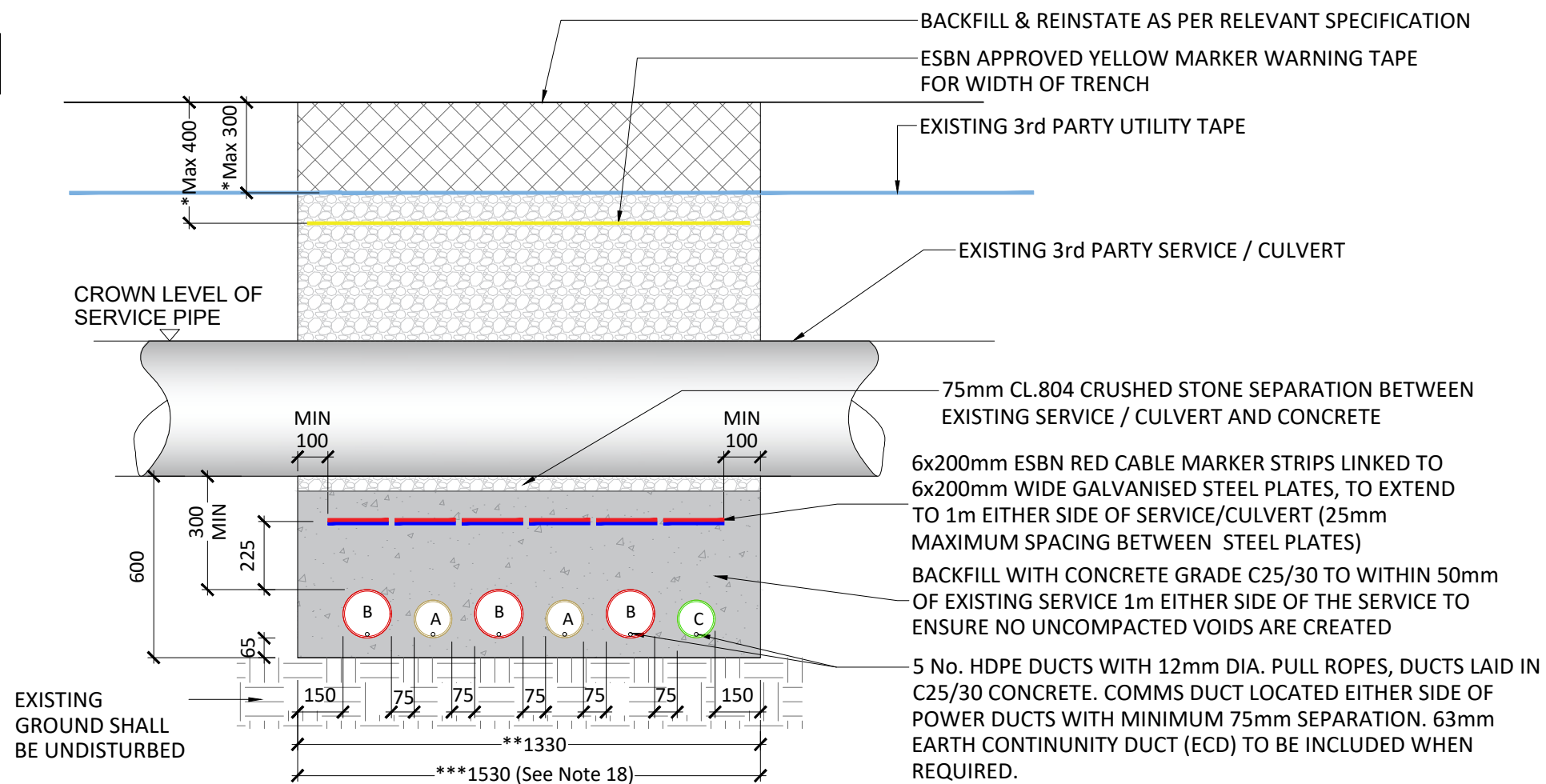
SCALE 1:50

- * 5X200mm STEEL PLATE & RED MARKER WHERE ECC ISN'T REQUIRED
- ** MIN 1330mm WHERE ECC ISN'T REQUIRED
- *** SEE GENERAL NOTES, NO. 19



PLAN VIEW

SCALE 1:50



SECTION B-B

SCALE: 1:20

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 160mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR=21
C = 125mm OUTER DIAMETER HDPE FOR EARTH CONTINUITY CONDUCTOR

PROJECT

Colehill 110kV
Substation

CLIENT



CONSULTANTS

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

P3	05.11.24	Issued for Planning
P2	30.10.24	Issued for Planning
P1	21.10.24	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-1064

SHEET TITLE

Trench Sections For Undercrossing
Existing Culverts / Services

SHEET NUMBER

051064-DR-117