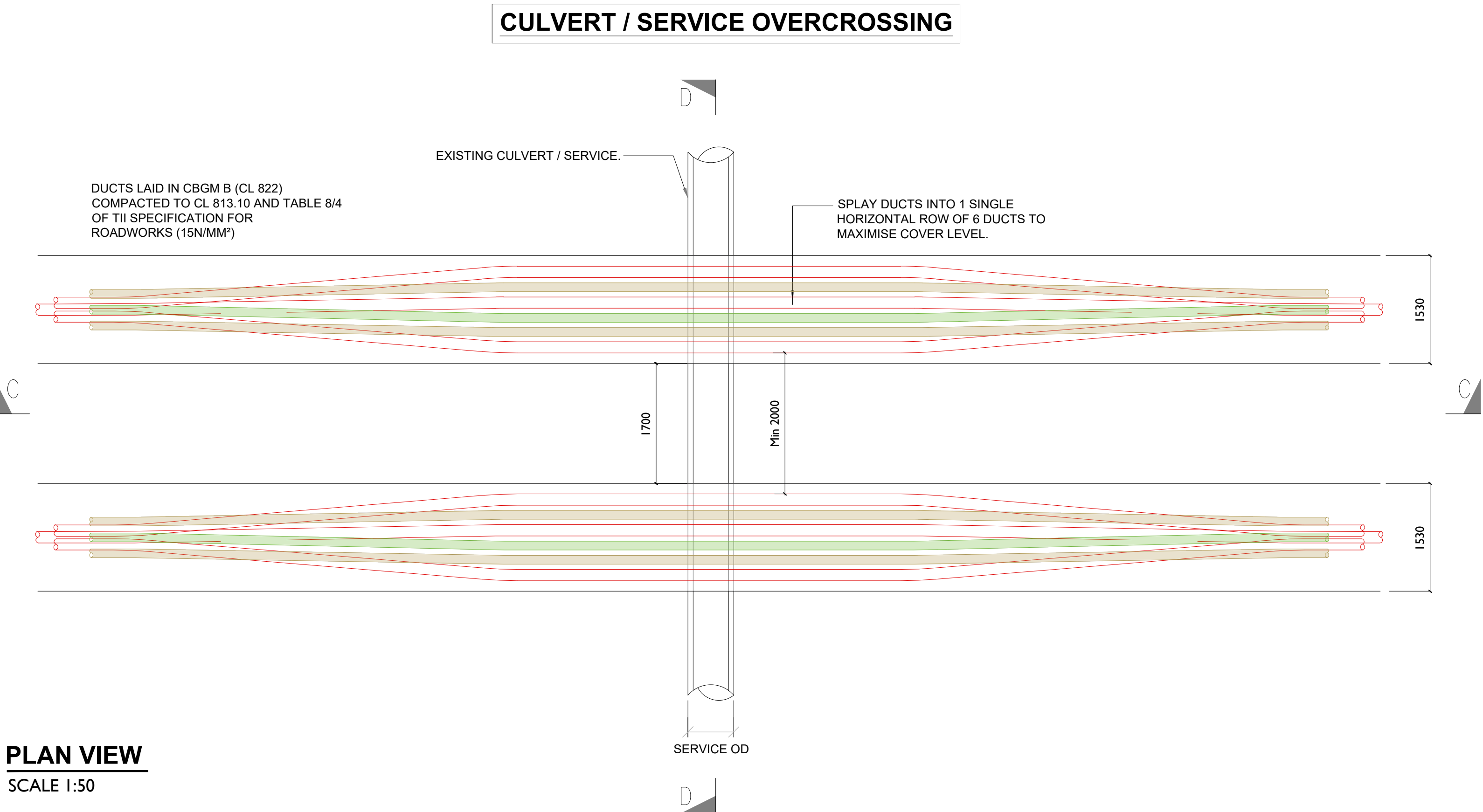
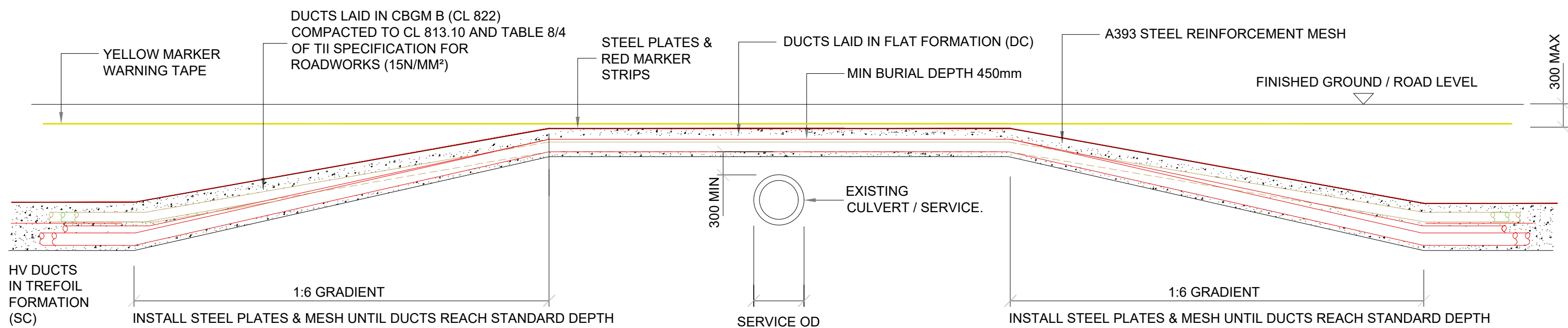


ISO A1 594mm x 841mm

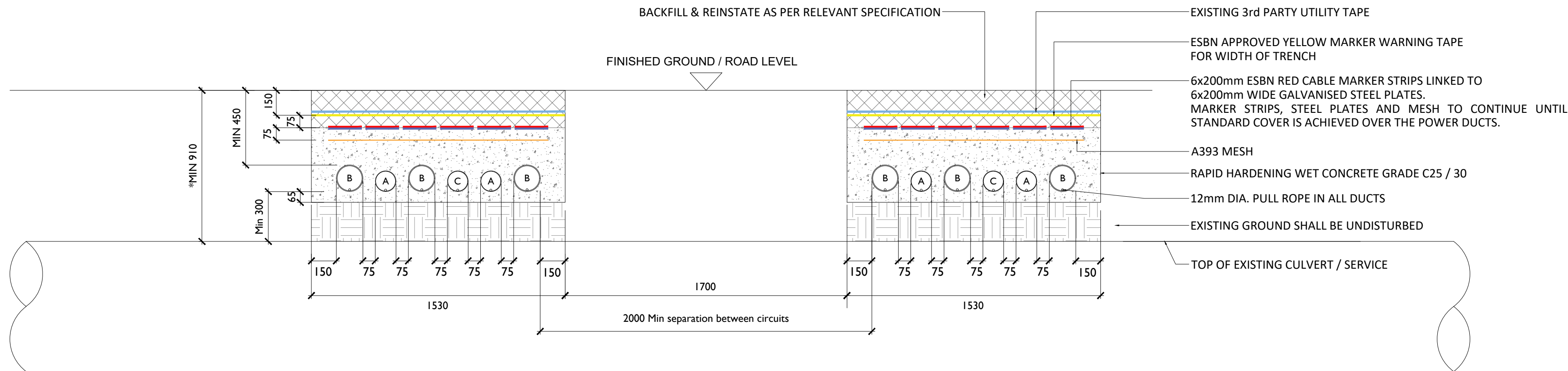
Project Management Initials: Designer: LP Checked: BR Approved: AC



PLAN VIEW
SCALE 1:50



SECTION C-C
SCALE 1:50



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 ESB Approved Duct, SDR=17.6
Duct to be used for Earth Continuity Conductor (ECC), all dimensions in millimeters.

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

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 051021-DR-121 (TREFOIL).
- 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. This design may only be applied with confirmation in writing from the Engineer on a case by case basis.**
- 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.
- 225 mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
- Roads with existing deep asphalt require a minimum 225 mm from the underside of the existing asphalt to the top of the cable duct.
- 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.



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PROJECT

Shancloon 110kV Substation

CLIENT

RWE

CONSULTANTS

NOTES: -

- See notes in drawing window

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 12mm DIAMETER PULL ROPE
- RED MARKER STRIP OR STEEL PLATES
- YELLOW MARKER WARNING TAPE
- A393 STEEL REINFORCEMENT MESH
- 6mm GALVANISED STEEL PLATE
- EXISTING SERVICE TAPE

ISSUE/REVISION

P01	11.08.25	Issued for Planning
P00	18.10.24	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-1021

SHEET TITLE

Typical Trench Sections for Crossing Under Culverts/Services

SHEET NUMBER

051021-DR-116