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TRANSMISSION CABLE JOINT BAY NOTES

1. THIS DRAWING SUPERSEDES A507644.

2. DEPTH OF JOINT BAY WILL DEPEND ON DEPTH OF INSTALLED CABLES. JOINT BAY WALL THICKNESS WILL DEPEND ON DEPTH OF JOINT BAY. REFER JOINT BAY WALL THICKNESS TABLE 3 ON SHEET 2.

3. CONCRETE TO BE SCREEDED LEVEL WITHOUT HOLLOWES OR SHARP PROJECTIONS.

4. 33kV JOINT CABLE BAYS TO HAVE MIN. 150mm THICK CONCRETE SIDES, AND WITHOUT END WALLS WHICH FINISH 300mm BELOW GROUND LEVEL.

4.1. 66kV-132kV JOINT CABLE BAYS TO HAVE MIN. 150mm THICK CONCRETE SIDES, AND END WALLS WHICH FINISH 300mm BELOW GROUND LEVEL.

4.2. GROUND ADJACENT TO WALL TO BE BATTERED AS REQUIRED.

4.3. WALL THICKNESS TO BE ADJUSTED AS PER JOINT BAY WALL THICKNESS (TABLE 3 ON SHEET 2).

5. JOINT BAYS ARE TO BE BACK FILLED WITH MINIMUM 300mm OF WASHED RIVER SAND OVER CABLE(S) AND JOINTS; UP TO 200mm BELOW THE TOP OF JOINT BAY. THEN, USE A LAYER OF 15mm HDPE GEOSYNTHETIC LINER AS PER BACKFILL NOTE B3.2. THIS LAYER SHALL THEN BE COVERED WITH TWO LAYERS OF HARD MARKER TAPES; LAID SO THAT THEIR EDGES DO NOT COINCIDE.

6. THE TRANSITION OF THE CONDUITS FROM THE INDICATED TRENCH PROFILE TO THE HORIZONTAL PROFILE SHALL OCCUR OVER 12m.

7. 150/200NB CONDUITS SHALL HAVE BELL MOUTH ENDS AND FINISH FLUSH AT THE INNER WALL OF THE JOINT BAY (FOR POWER CABLES). 100NB AND 32NB CONDUITS SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE JOINT BAY. (1 OFF 100NB CONDUIT FOR FIBRE OPTIC CABLE, 1 OFF 100NB CONDUIT FOR EARTH CABLE AND 1 OFF 32NB CONDUIT FOR DTS WHERE STIPULATED – PROVISION ON BOTH SIDES OF END WALLS FOR 32NB).

8. IF JOINT BAY IS INSTALLED IN ROAD CARRIAGEWAY, BACKFILL ABOVE HARD MARKER TAPES SHALL BE 14:1 SAND/CEMENT MIX FOR 200mm TO TOP OF JOINT BAY AS PER SECTION 'E' ON SHEET 2, OTHERWISE SAME AS ADJACENT TRENCH SECTION. ALSO REFER BACKFILL NOTES ON THIS SHEET.

9. REINFORCEMENTS TO BE LAID ACROSS THE FLOOR AND WALLS OF THE JOINT BAY AND SHALL BE WELDED TO ACHIEVE ELECTRICALLY CONTINUOUS CONNECTIONS ALL THROUGHOUT, INCLUDING THE M12 EARTHING FERRULES. A 120mm² STRANDED PVC COVERED COPPER EARTH CONDUCTOR AT 2 OPPOSING LOCATIONS, SHALL BE CONNECTED TO A NOMINATED FLOOR SLAB REINFORCING BAR AND EARTH ELECTRODE (WHERE STIPULATED BY EARTHING DESIGN). ALTERNATIVELY, THE EARTH ROD CONNECTIONS CAN BE MADE ON TO THE EARTH BAR (PREFERRED).

9.1. FOR PRE-CAST JOINT BAYS, M12 EARTH FERRULE PROVISIONS SHALL BE MADE TO ALLOW FOR THE SEPARATE CONCRETE SECTIONS / MODULES TO BE MADE ELECTRICALLY CONTINUOUS USING 0.6kV/1kV 120mm² Cu 1C PVC CABLE (GREEN/YELLOW).

10. WHERE PRE-CAST JOINT BAYS ARE UTILISED, PROVISION SHALL BE MADE TO ALLOW INSTALLATION OF EARTH RODS AT EITHER CORNERS FROM WITHIN THE JOINT BAY. ANY DIVIDED MODULES WHEN JOINED SHOULD BE SEALED APPROPRIATELY TO PROHIBIT MOISTURE INGRESS.

11. THE MINIMUM COVER TO DUCTS APPROACHING THE JOINT BAYS SHALL BE 900mm. THIS SHALL BE ACHIEVED OVER A MIN. DISTANCE OF 6m WHERE 750mm NOMINAL DUCT COVER IS GENERALLY BEING UTILISED IN LOCAL COUNCIL ROADS AND SIMILAR TRAVERSABLE LAND OTHER THAN TNSW CARRIAGEWAYS.

12. ALL DUCTS ENTERING OR EXITING THE JOINT BAY MUST BE SEALED WITH AN APPROVED MASTIC TYPE SEALANT AS LISTED ON THE APPROVED MATERIALS LIST AND SHOULD BE UTILISED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, TO MINIMISE THE INGRESS OF WATER.

12.1. THE USE OF FOAM SEALERS OR OTHER NON-APPROVED PRODUCTS IS NOT PERMITTED.

13. THE NUMBER OF SUPPORTS NEEDED UNDERNEATH THE JOINT CANISTERS IS SPECIFIED BY THE JOINT MANUFACTURERS. REFER TO THE JOINTING INSTRUCTION MANUAL, WHEN THERE IS INSUFFICIENT INFORMATION AVAILABLE IN THOSE MANUALS, SUPPORTS SHOULD BE PLACED NO MORE THAN 1 (ONE) METRE APART TO SUPPORT THE JOINTS AND CABLES WITHIN THE JOINT BAY FROM END-TO-END.

BACKFILL NOTES

B1. ALL BACKFILL MATERIAL SHALL COMPLY WITH THE FOLLOWING:

- BE FREE FROM ORGANIC, COMBUSTABLE AND PERISHABLE MATTER

- HAVE A MAXIMUM PARTICLE SIZE OF 25mm.

- HAVE A PLASTICITY INDEX BETWEEN 2% AND 15%

B2. CARE MUST BE TAKEN WITH THE BACKFILLING OF THE JOINT BAYS TO PREVENT MOVEMENT OR DAMAGE TO THE EARTH BONDING LEADS OR CABLE JOINTS WHICH COULD LEAD TO THE FAILURE OF THESE CABLE JOINTS.

B3. ALL BACKFILL MATERIAL SHALL BE PLACED VERY CAREFULLY INTO THE JOINT BAY IN MAXIMUM 150mm THICK HORIZONTAL LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (±2%) TO ACHIEVE A DENSITY INDEX OF 75% (COHESIONLESS SOIL) WHEN TESTED BY THE COMPACTION TEST FROM AS1289. COMPACTION MUST BE CARRIED OUT USING LIGHT DUTY HAND-HELD TAMPERS UNTIL THE LEVEL REACHES A MINIMUM 300mm ABOVE THE CABLE JOINTS. AS PER SECTION 'E' ON SHEET 2. THE CONTRACTOR SHALL SUBMIT A COMPACTION CERTIFICATE CERTIFIED BY AN EXPERIENCED GEOTECHNICAL ENGINEER AND SUBMIT TO ENDEAVOUR ENERGY FOR APPROVAL.

B3.1. THE SAME METHOD OF BACKFILL AND COMPACTION IS TO BE UTILISED AROUND THE DUCTS BETWEEN THE JOINT BAY AND EARTH AND FIBRE PITS.

B3.2. A LAYER OF 15mm HDPE GEOSYNTHETIC LINER (MEMBRANE) SHALL BE LAID ON TOP OF THE SAND LAYER WITHIN THE JOINT BAY, WITH THE SIDES EXTENDED AND TURNED UP THE VERTICAL SIDES OF THE JOINT BAY WALL BEYOND THE TOP LIP OF THE JOINT BAY.

B3.3. TWO LAYERS OF HARD MARKER TAPES SHALL BE INSTALLED OVER THIS GEOSYNTHETIC LINER AS PER TRANSMISSION CABLE JOINT BAY NOTE 5.

B3.4. ABOVE HARD MARKER TAPES, A 200mm THICK LAYER OF 14:1 SAND/CEMENT MIX SHALL BE UTILISED WHEN THE JOINT BAY IS INSTALLED IN A ROADWAY AS PER TRANSMISSION CABLE JOINT BAY NOTE 8.

B4. 14:1 SAND/CEMENT MIX (WHERE REQUIRED) SHALL HAVE A THERMAL RESISTIVITY (TR) OF LESS THAN 13° C.m/W AT 0% MC.

B5. RIVER WASHED SAND TO HAVE A TR OF LESS THAN 13° C.m/W AT 0% MC.

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS3600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2. CONCRETE QUALITY

C2.1 ALL CONCRETE SHALL COMPLY WITH AS1379. NO BRECCIA-TYPE AGGREGATE IS TO BE USED.

C2.2 COMPRESSIVE STRENGTH GRADES:

ELEMENT	STRENGTH GRADE (MPa)	CEMENT TYPE TO AS3972	SLUMP (mm)	MAXIMUM AGGREGATE SIZE (mm)
ALL	32	GP	80	20

C2.3 NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED BY THE ENGINEER IN WRITING.

C3. CONCRETE PROFILES

C3.1 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN SHOWN IN THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE PRINCIPAL.

C3.2 CONSTRUCTION JOINTS NOT SHOWN IN THE DRAWINGS SHALL BE TO THE WRITTEN APPROVAL OF THE PRINCIPAL.

C4. COMPACT ALL CONCRETE WITH MECHANICAL VIBRATORS.

C5. CURING OF CONCRETE

CURE ALL CONCRETE AS FOLLOWS:

- KEEP SURFACES CONTINUOUSLY WET FOR THREE DAYS THEN
- PREVENT MOISTURE LOSS FOR THE NEXT FOUR DAYS USING POLYTHENE SHEETING OR WET HESSIAN PROTECTED FROM WIND AND TRAFFIC AND THEN ALLOW GRADUAL DRYING OUT.
- CURING COMPOUNDS MAY BE USED PROVIDED THAT THEY COMPLY WITH AS3799 AND THEY DO NOT AFFECT FLOOR FINISHES.
- PVA-BASED CURING COMPOUNDS ARE NOT ACCEPTABLE.

REINFORCEMENT FOR CONCRETE

R1. REINFORCEMENT QUALITY AND NOTATION
× R1.1 BAR REINFORCEMENT

SYMBOL	BAR SHAPE	STRENGTH GRADE (MPa)	DUCTILITY CLASS	TO COMPLY WITH AUST. STANDARD
N	DEFORMED RIBBED BAR	500	NORMAL	AS 4671
R	PLAIN ROUND BAR	250	NORMAL	AS 4671

ALL REINFORCING BARS SHALL BE GRADE D500N TO AS 4671 U.N.O. REINFORCEMENT NOTATION IS AS FOLLOWS: NUMBER OF BARS IN GROUP, BAR GRADE, NOMINAL BAR SIZE IN mm, SPACING IN mm e.g. 17 N16-250, WHERE N16 DENOTES A DEFORMED RIBBED BAR, OF GRADE 500MPa NORMAL DUCTILITY STEEL, WITH A NOMINAL 16mm DIAMETER, AT 250 SPACING.

R2. COVER TO REINFORCEMENT
COVER TO REINFORCEMENT FOR DURABILITY SHALL BE AS FOLLOWS U.N.O.

CONDITION	MINIMUM COVER
SURFACES IN CONTACT WITH GROUND: WITHOUT MEMBRANE	50mm
SURFACES ABOVE GROUND -EXPOSED	40mm

COVER SHALL NOT BE LESS THAN THE SIZE OF THE AGGREGATE OR THE MAIN BARS. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
SUPPORT REINFORCEMENT ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS

R3. REINFORCEMENT REPRESENTATION
REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, AND NOT NECESSARILY IN TRUE PROJECTION BARS SHOWN ARE INDICATIVE ONLY AND LENGTHS MAY VARY.
REFER TO SECTIONS FOR EXTRA BARS THAT MAY BE REQUIRED.

R4. DISTRIBUTION REINFORCEMENT
PROVIDE DISTRIBUTION REINFORCEMENT OR TIE BARS IF NOT SHOWN. USE N12 AT 400, SPLICE 400mm WHERE NECESSARY, AND LAP 400mm WITH MAIN BARS

REINFORCEMENT FOR CONCRETE (CONT)

R5. REINFORCEMENT LAPPED SPLICES
SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR AS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

SLAB AND BEAM REINFORCEMENT
LAP SPLICES IN SLAB AND BEAM REINFORCEMENT SHALL COMPLY WITH THE TABLE BELOW:
× UNLESS SHOWN OTHERWISE ON THE DRAWINGS, OR
× UNLESS CALCULATED IN ACCORDANCE WITH AS3600, AND APPROVED IN WRITING BY THE PRINCIPAL.

FULL STRENGTH LAPS FOR BEAM BARS

BAR DIA.	LENGTH L (mm) -see diagrams below	
	BAR WITH 300mm OR LESS DEPTH OF CONC. BELOW THE BAR	BAR WITH MORE THAN 300mm DEPTH OF CONC. BELOW THE BAR
N10	300	400
N12	400	500
N16	700	800

MESH LAPPED SPLICES
LAPS IN MESH (FABRIC) SHALL COMPLY WITH AS3600. THE TWO OUTERMOST TRANSVERSE WIRES OF ONE SHEET SHALL OVERLAP THE TWO OUTERMOST TRANSVERSE WIRES OF THE SHEET BEING LAPPED.

DIAGRAMS

R6. SITE BENDING OF REINFORCEMENT
SITE BENDING OF DEFORMED BARS (IN OR Y) SHALL BE DONE WITHOUT HEATING, USING MECHANICAL BENDING TOOLS AND A MANDREL OR FORMER WITH A DIAMETER OF 5 TIMES THE BAR SIZE. HEATING OF N OR Y BARS REDUCES THEIR STRENGTH.

R7. INSPECTION BY ENGINEER
GIVE AT LEAST 24 HOURS NOTICE TO THE ENGINEER FOR INSPECTION OF REINFORCEMENT.
DO NOT HAVE CONCRETE DELIVERED UNTIL FINAL APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.

AMENDMENTS

JOB No.	DESCRIPTION	DATE
H	DESIGN CHG. MP RA AM	13/08/2024
	APP'DHP / A.W	

REVISION A

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REVISION I

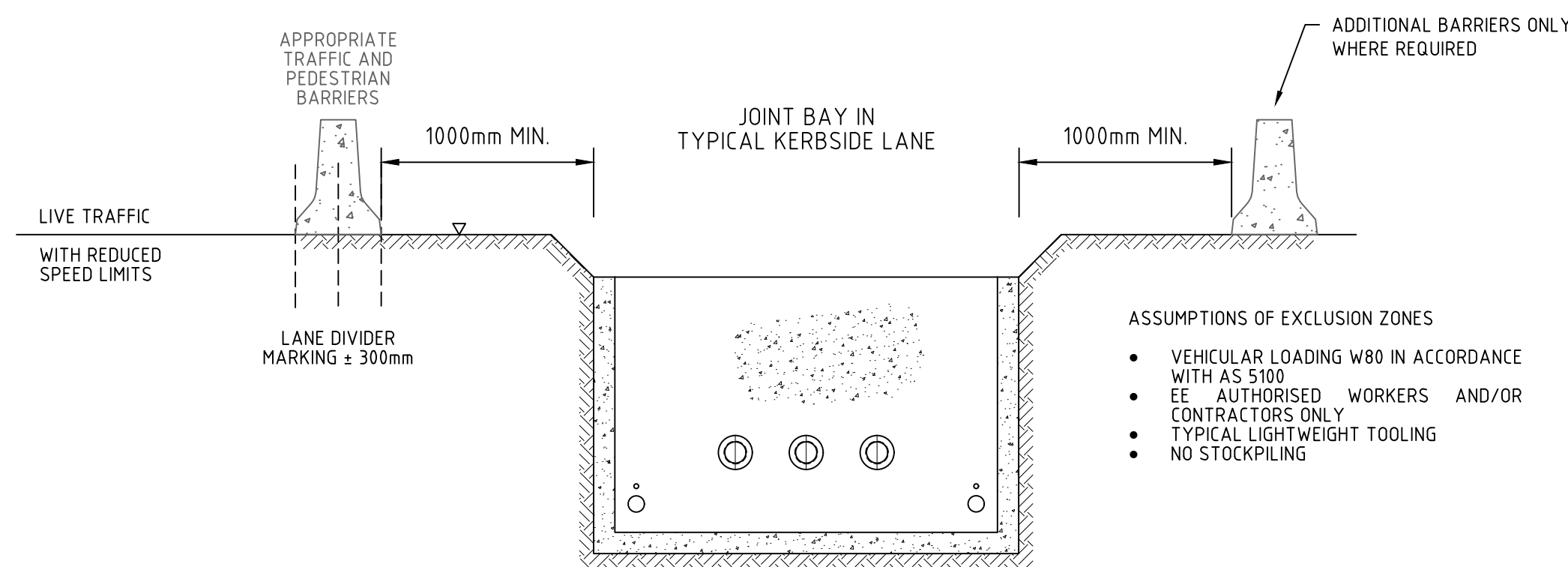
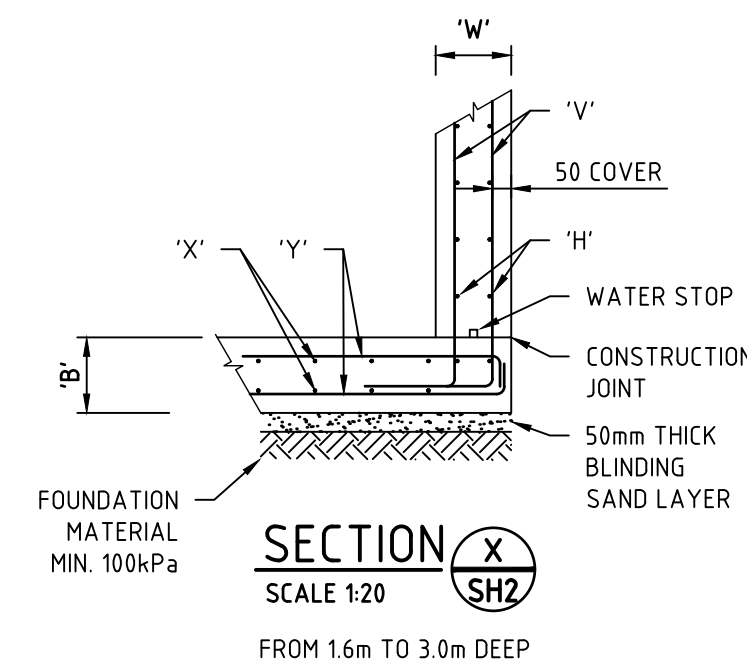
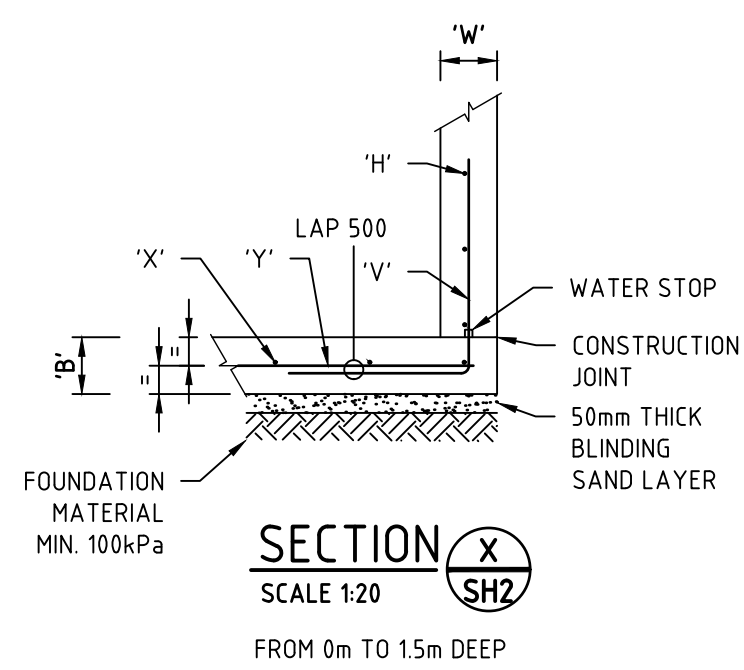
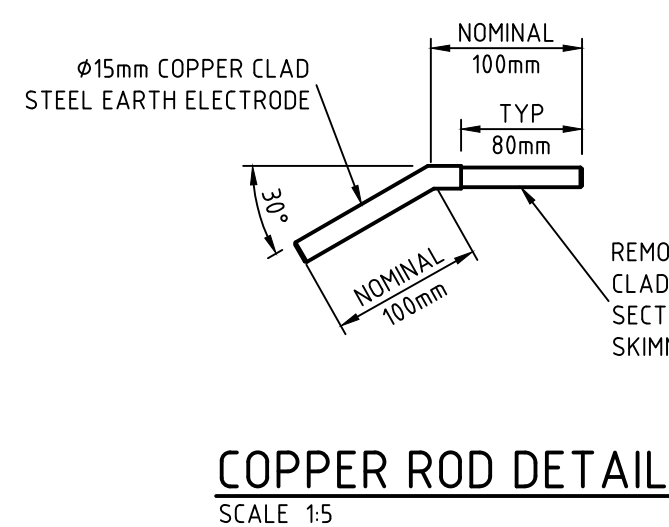
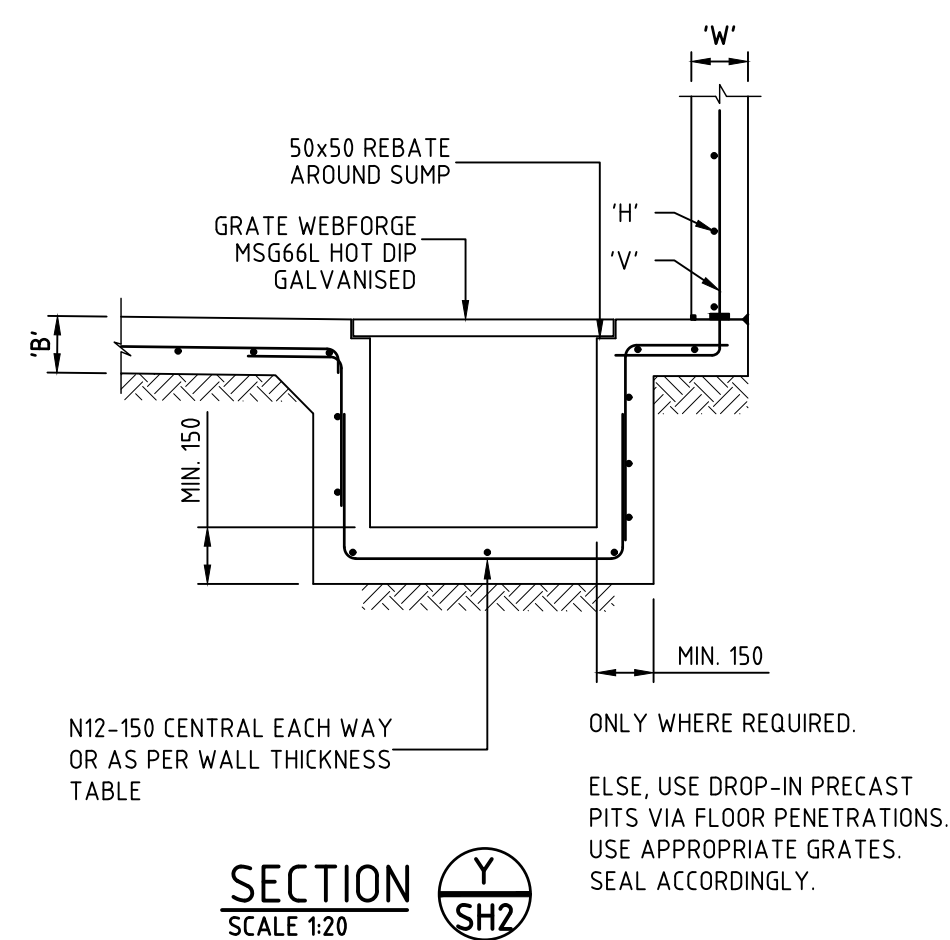
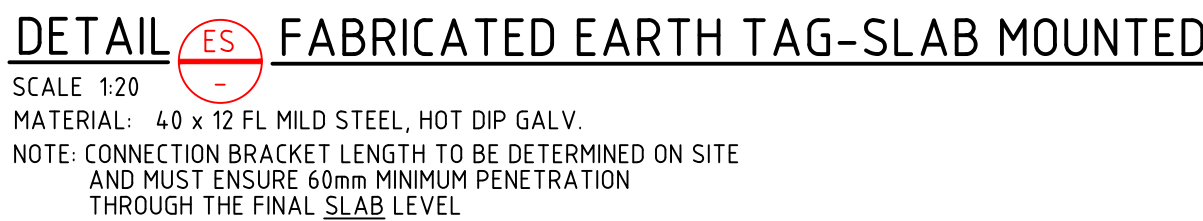
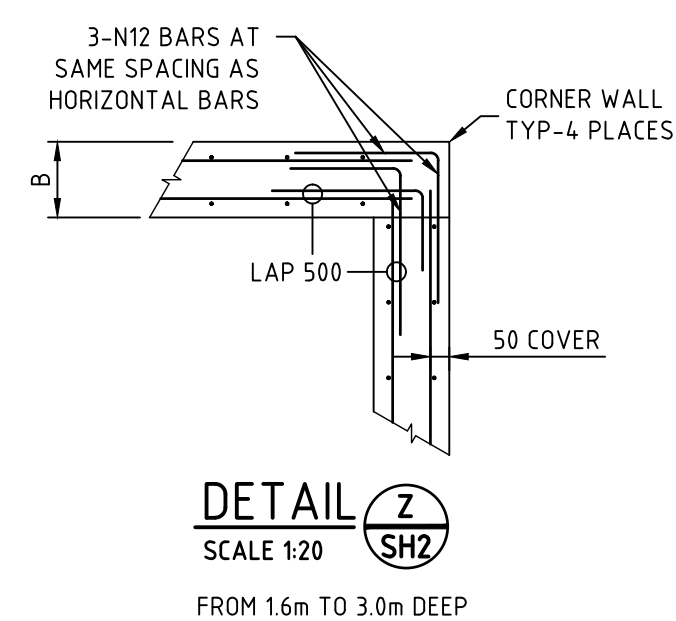
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TO BE READ IN CONJUNCTION WITH JOINT BAY DIMENSIONS AND
JOINT BAY WALL THICKNESS TABLES ON SHEET 2
(NTS)

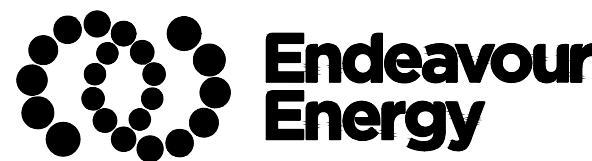
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REVISION H
TABLE 3, SECTIONS
AND NOTES UPDATED.
CLEARANCE REQ'S
UPDATED. SIDEWALL
DUCT SIZING AMENDED.
EARTH PIT CONCRETE
BISCUIT INCLUDED.
GEOSYNTHETIC LINER
INCLUDED.

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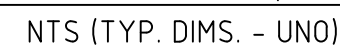
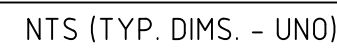
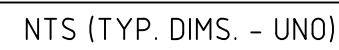
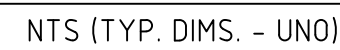
CERTIFIED BY:
MANJU PUTHAN VEETIL,
MIE Aust., CPEng.

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		ORIGINAL SCALE AS SPECIFIED	
		APPROVED C. BROWN	
DESIGNED	-	DATE	28.06.05
DRAWN	B.F.		
CHECKED	R.L.		



REFERENCE DRAWINGS			
DO NOT SCALE DIMENSIONS IN MILLIMETRES		AUTHORISED/CERTIFIED C. BROWN	
		MGR TRANSMISSION CAP PROJECTS	29.06.05
INT BAY TABLES	A1	297281	
		SHEET NO 3 OF 4 SHEETS	

TRANSMISSION CABLE JOINT BAY
FOR 33, 66 OR 132kV CABLES



120mm² ECC AND BONDING LEADS TO BE UTILISED ONLY IF IT CAN WITHSTAND WORST-CASE FAULT LEVELS AND CLEARING TIMES THAT MAY BE SPECIFIED IN TECHNICAL/DESIGN BRIEFS, PROJECT SPECIFICATIONS OR EARTH FAULT PROTECTION DATA AS SUPPLIED BY ENDEAVOUR ENERGY.

NTS

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				DO NOT SCALE DIMENSIONS IN MILLIMETRES		AUTHORISED/CERTIFIED C. BROWN	
DESIGNED	-	DATE	28.06.05	TRANSMISSION CABLE JOINT BAY FOR 33, 66 OR 132kV CABLES			
DRAWN	B.F.						
CHECKED	R.L.						
				MGR TRANSMISSION CAP PROJECTS		29.06.05	
				A1		297281	
						SHEET No 4 OF 4 SHEETS	
						H	