

GENERAL NOTES:

- UNLESS INDICATED, ALL DIMENSIONS ARE IN MILLIMETRES AND ARE MINIMUM REQUIREMENTS.
- ON SITE VARIATIONS MUST BE APPROVED BY EVOENERGY'S AUTHORISED OFFICER.
- BEFORE-YOU-DIG-AUSTRALIA INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION. THE INFORMATION PROVIDED IN THE DESIGN MUST BE CHECKED ONSITE WITH THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES (INCLUDING EVOENERGY NETWORK), AND MUST BE VERIFIED IMMEDIATELY BEFORE COMMENCEMENT OF CONSTRUCTION.
- SPARE CONDUITS MUST BE CAPPED WITH AN EVOENERGY APPROVED CAP PRIOR TO COVERING THE CONDUIT WITH BEDDING SAND. THE APPROVED CAP MUST FITTED SUCH THAT DISLODMENT PRIOR TO CABLE INSTALLATION IS PREVENTED.
- ALL CONDUITS ENTERING THE PIT MUST BE PROVIDED WITH A CONTINUOUS (UN-JOINED AND UN-DAMAGED) GENERAL-PURPOSE SYNTHETIC POLYPROPYLENE FILAMENT ROPE (DRAW WIRE) OF MINIMUM 6MM DIAMETER.
- EVERY CONDUIT LINE INSTALLED TO PIT MUST BE MANDRELLED IN ACCORDANCE WITH EVOENERGY'S P00793 "CIVIL WORKS MANUAL VOL 2". THE CONTRACTOR SHALL NOTIFY THE RELEVANT EVOENERGY OFFICIALS OF ALL PROPOSED MANDRELLING 48 HOURS IN ADVANCE.
- WAE DRAWING ARE TO RECORD THE FOUR CORNERS OF ALL CABLE PITS AS WELL AS X,Y,Z OF ALL CABLES, JOINTS & CONDUITS.
- 'WAE' DRAWINGS AND SURVEY PLANS ARE TO BE PROVIDED WITHIN 7 DAYS OF THE COMPLETION OF EACH CONCRETE PIT AND PRIOR TO ANY CABLE BEING INSTALLED.
- EVOENERGY AND CONTRACTOR SHALL VERIFY AND RECONCILE 'WAE' RECORDS ON COMPLETION OF EACH MAJOR STAGE OF WORK OR CONDUIT SECTION.
- PLEASE REFER TO P00677 "ELECTRICAL SAFETY RULES" FOR SAFE WORKING REQUIREMENTS AND MINIMUM STANDARDS FOR WORKING ON, NEAR OR IN THE VICINITY OF EVOENERGY'S TRANSMISSION AND DISTRIBUTION NETWORK FACILITIES WITHIN THE ACT AND SURROUNDING REGION INTO WHICH EVOENERGY'S ELECTRICITY NETWORK EXTENDS.
- PLEASE REFER TO P00718 "REQUIREMENTS FOR WORK AND OTHER ACTIVITIES WITHIN SUBTRANSMISSION RESERVATIONS" FOR EXCAVATIONS/CONDUITING/CROSSING NEAR 132kV UNDERGROUND AND OVERHEAD LINES.
- WHERE THE TRENCH ALIGNMENT CONFLICTS WITH TREES, THE PROJECT OFFICER / PROJECT MANAGER MUST CONSULT WITH THE RELEVANT GOVERNMENT DEPT. TO EITHER CONFIRM THE ALIGNMENT OR NEGOTIATE AN ALTERNATIVE ALIGNMENT/LOCATION FOR PIT.
- CONSULTANT'S/CONTRACTOR'S POINT OF CONTACT SHALL BE EVOENERGY'S PROJECT OFFICER OR PROJECT MANAGER WITH REFERENCE TO THE SITE, UNLESS OTHERWISE ADVISED.

NOTES ON PIT EXCAVATION:

- ALL EXCAVATED SOIL TO BE LOCATED AT LEAST 1000mm FROM THE EDGE OF THE PIT AND SLOPED AWAY FROM THE TRENCH NO STEEPER THAN INDICATED BY THE ANGLE OF REPOSE TABLE, SEE 394-023.
- PITS ARE TO BE BENCHED OR SHORED IN ACCORDANCE WITH ACT WORK HEALTH AND SAFETY (EXCAVATION WORK CODE OF PRACTICE) APPROVAL 2020 AND EVOENERGY'S P00793 CIVIL WORKS FIELD MANUAL VOL 2.
- ALL SPOIL REMOVED FROM SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ACT EPA INFORMATION SHEET 10 (VIRGIN EXCAVATED NATURAL MATERIAL) FOR UNCONTAMINATED WORK AREAS, OR IN LINE WITH ACT EPA INFORMATION SHEET 4 (REQUIREMENTS FOR THE REUSE AND DISPOSAL OF CONTAMINATED SOIL IN THE ACT) IN AREAS OF POTENTIAL CONTAMINATION.
- ALL UNATTENDED EXCAVATIONS SHALL BE SECURELY FENCED IN ACCORDANCE WITH P00793 CIVIL WORKS FIELD MANUAL VOL 2.
- FOR EXISTING CABLES, PITS MUST BE EXCAVATED 100mm BELOW THE BOTTOM OF THE CABLES.
- STEPS:
 - ALL PITS REQUIRE ACCESS STEPS OR RAMP WHICH CAN BE CUT IN OR FORMED AT THE MOST CONVENIENT END OR SIDE OF PIT. (MAX. STEP HEIGHT 450mm, MIN. STEP WIDTH 300mm, MIN. STEP DEPTH 300mm).
 - IF A RAMP IS PROVIDED IT SHOULD NOT EXCEED 1:8 (7°) GRADIENT. STEPS MUST NOT IMPEDE CABLE ROUTE.
 - IT IS PREFERRED TO HAVE STEPS PERPENDICULAR TO CABLE ROUTE WHERE POSSIBLE.
 - ALTERNATE LOCATION FOR STEPS MUST BE DISCUSSED AND AGREED WITH EVOENERGY'S AUTHORISED OFFICER.
- UTILITY CLEARANCES AND BEFORE YOU DIG DRAWINGS MUST BE OBTAINED PRIOR TO EXCAVATION.
- PITS ARE TO BE CENTERED AROUND FAULT OR JOINT LOCATION, CUT IN POINT AND/OR CABLE HAULAGE ROUTE.
- WHERE THE JOINT PIT EXCAVATIONS RESULT IN EXISTING CABLES BEING EXPOSED, THE PIT SHALL BE BACKFILLED WITH BEDDING SAND TO PROVIDE A MINIMUM COVER OF 200mm, WHENEVER THE PIT IS UNATTENDED.
- IF EXPOSED GAS ASSETS ARE LOCATED WITHIN THE JOINTING PITS, A SECOND EXIT POINT MUST BE PROVIDED BY WAY OF STEPS OR A RAMP. IF EXISTING INFRASTRUCTURE RESTRICTS SPACE, A LADDER CAN BE USED FOR ALTERNATE EXIT.
- EVOENERGY'S AUTHORISED OFFICER MAY ALLOW MODIFICATIONS TO PIT DIMENSIONS FOR PROJECT/SITE SPECIFIC REASONS.
- CONDUITS / CABLES TO BE INSTALLED (INCLUDING BACKFILLING AND COMPACTING) MUST BE IN ACCORDANCE WITH P00793 CIVIL WORKS MANUAL VOLUME 2.
- BEDDING OF SAND TO BE MINIMUM OF 75mm DEPTH FROM ALL SIDES AND MUST BE EVOENERGY APPROVED BEDDING SAND IN ACCORDANCE WITH P007330 TECHNICAL SPECIFICATION - QUARRY PRODUCT AND RAW MATERIALS.


- POLYMERIC PROTECTION STRIP MUST OVERLAP CONDUITS / CABLES BY AT LEAST 40mm AND MUST BE PLACED AT LEAST 100mm ABOVE THE CONDUIT.
- ORANGE WARNING TAPE MUST BE POSITIONED AT APPROXIMATELY 50% OF THE DEPTH OF COVER TO THE POLYMERIC PROTECTION STRIP AND MUST COVER THE WIDTH OF THE TRENCH.
- CONDUIT/CABLE MUST MAINTAIN MINIMUM SEPARATION FROM OTHER SERVICES AND UTILITIES AS PER EVOENERGY SEPARATION DRAWING 3832-018.

NOTES ON CONCRETE PIT:

- CONCRETE SHALL BE STANDARD STRENGTH GRADE 40 MPa COMPLYING WITH AS3600.
- CONCRETE CLEAR COVER TO REINFORCEMENT SHALL BE 40mm.
- ALL EXPOSED INTERNAL & EXTERNAL CORNERS MUST BE PROVIDED WITH A 20mm FILLET OR CHAMFER UNLESS NOTED OTHERWISE.
- FORMWORK AND CONCRETE SURFACE FINISHES MUST BE CLASS 3, EXCEPT FOR SURFACES AGAINST BACKFILL WHICH SHALL BE CLASS 5, BOTH IN ACCORDANCE WITH AS3610.
- REINFORCING BARS MUST BE GRADE 500N DEFORMED BARS TO AS1302 AND MESH SHALL COMPLY WITH AS1304. SPLICES IN REINFORCING MUST COMPLY WITH AS3600.
- HAULAGE EYE MUST COMPLY WITH EVOENERGY DRAWING 4951-09.
- THE NUMBER & CONFIGURATION OF CONDUITS MAY BE VARIED FROM THE DRAWING AND SHALL BE ADVISED BY EVOENERGY.
- THE DRAIN PIPE MUST BE UPVC CLASS SH COMPLYING WITH AS1260. THE POSITION OF THE DRAIN PIPE MUST BE DETERMINED ON SITE TO THE SATISFACTION OF THE SUPERINTENDENT. IF CONNECTION OF THE DRAIN PIPE TO A STORMWATER SYSTEM IS NOT POSSIBLE, A 300 x 300 x 200mm DEEP SUMP SHALL BE CONSTRUCTED IN THE FLOOR OF THE PIT TO ALLOW A PORTABLE PUMP TO EMPTY THE PIT OF ANY WATER.
- CONDUIT BELLMOUTHS MUST BE PERMANENTLY INSTALLED ON EACH CONDUIT ENTERING THE PIT.
- A MINIMUM OF SEVEN DAYS CURING TIME IS REQUIRED BETWEEN WALL POURING AND BACKFILLING. DURING BACKFILLING, WALLS MUST BE SUPPORTED.

SUITE OF CABLE PIT DRAWINGS TABLE		
DRAWING NO.	SHEET NO.	DESCRIPTION
394-021	1	CABLE HAULAGE PIT (FORMED CONCRETE)
394-022	2	CABLE HAULAGE & JOINT PIT (FORMED CONCRETE)
394-023	3	CABLE HAULAGE & JOINT PIT EXCAVATION DETAILS (NATURAL GROUND)
394-024	4	CABLE HAULAGE & JOINT PIT (NATURAL GROUND)
394-025	5	CABLE HAULAGE & JOINT PIT DRAWING NOTES

SUITE OF CABLE TRENCH DRAWINGS TABLE		
DRAWING NO.	SHEET NO.	DESCRIPTION
393-011	1	SHARED TRENCH AND ELECTRICAL PIT DETAILS FOR URD WITH GAS
393-012	2	SHARED TRENCH AND ELECTRICAL PIT DETAILS FOR URD WITHOUT GAS
393-013	3	DEDICATED ELECTRICAL OPEN TRENCH DETAILS 3, 4 & 6 WAY CONDUIT CROSS SECTIONS
393-014	4	DEDICATED ELECTRICAL UNDER BORE DETAILS 2, 3, 4 & 6 WAY CONDUIT CROSS SECTIONS
393-015	5	DEDICATED ELECTRICAL OPEN TRNECH FOR DIRECT BURIED CABLES, CONDUITED SERVICE CABLES AND ROAD CROSSINGS
393-016	6	ELECTRICAL CONDUIT REQUIREMENTS IN BRIDGE STRUCTURES FOR CABLES <12KV
393-017	7	CABLE TRENCH DRAWING NOTES

				Drawn: J. Ryan	Designed: N. Azizi	 CABLE HAULAGE & JOINT PIT DRAWING NOTES FOR SUITE OF DRAWINGS 394-021 TO 394-024	Scale: NTS	Date: 24/09/2024	Sheet No: 5 OF 5
				Checked: J. Primmer	24/09/2024		Work Pack No:	File:	
				Approved: N. Azizi	24/09/2024		Status: Current		
				Project No:			A3	394-025	Rev
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