



1. ALL DIMENSION ARE IN MILLIMETERS (mm).
2. THE CONTRACTOR SHALL, IN THE PERFORMANCE OF THE WORKS FOLLOW THE STANDARDS & CODES, AND SPECIFICATIONS MENTIONED IN THE TENDER DOCUMENT. GOVERNING REFERENCE STANDARDS & CODES SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO ACQUIRE AT THEIR OWN AND IMPLEMENT THEM IN LETTER AND SPIRIT. ANY CONTRADICTIONS IN BETWEEN/ AMONG SPECIFICATION/GOVERNING STANDARDS & CODES, THE MOST STRINGENT SHALL BE FOLLOWED. PRIOR APPROVAL FROM COMPANY/ CONSULTANT SHALL BE SOUGHT IN ALL MATTERS.
3. DEVELOPED LAYOUT IS PRELIMINARY. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE PROPOSED CABLE ROUTE w.r.t. MEASUREMENT OF ROAD CROSSING, DRAIN WATER CHANNEL/SEWERAGE LINES AND/OR OTHER UNDERGROUND UTILITY SERVICES (I-E PIPELINES – WATER OR GAS LINES, INSTRUMENT CABLE TRENCHES, CABLE CROSSINGS) THAT ARE FALLING ON PROPOSED ELECTRICAL POWER & CONTROL CABLE TRENCH ROUTES ARE BEING CARRIED OUT; SHALL BE IDENTIFIED AND RECTIFIED ACCORDINGLY AFTER REVIEW OF PLANT MECHANICAL PAVING LAYOUT (ABOVE & UNDERGROUND INSTALLATION) AND OTHER PROJECT CIVIL DRAWINGS.
4. IF ANY OBSTRUCTION/CROSSING OCCURS, SUITABLE PRECAUTIONS, OR ALTERNATE CABLE ROUTE SHALL BE PROPOSED AS FOR AS PRACTICABLE SHALL BE MADE IN LIGHT OF GOVERNING STANDARDS & CODES, AND PROJECT SPECIFICATION WITH THE APPROVAL OF COMPANY/CONSULTANT. APPROVAL MAY AT SOLE DISCRETION OF COMPANY/CONSULTANT AND THE CONTRACTOR IS LIABLE TO INCORPORATE IN LETTER AND SPIRIT, WITHOUT ANY ADDITIONAL COST.
5. CABLE TRENCHES (DIRECT BURIED) SHALL BE PREPARED AS MARKED IN THIS CABLE ROUTE LAYOUT FOR LAYING OF POWER CABLE TRENCHES (LV XLPE TYPE ARMORED) FROM MCC ROOM TO FIELD EQUIPMENT/SKID PACKAGES, BUILDINGS AND ALL OTHER AUXILIARY LOADS TO BE IDENTIFIED DURING THE DETAILED ENGINEERING.
6. CABLE ROUTING SCHEMES AND DETAILED CABLE SCHEDULE w.r.t. PACKAGES/VENDOR SKIDS INDIVIDUALLY SHALL BE DEVELOPED/PREPARED RESPECTIVELY, AND SHALL BE SUBMITTED TO COMPANY/CONSULTANT FOR REVIEW AND APPROVAL.
7. MINIMUM SEPARATION IN BETWEEN NEW CABLE TRENCH AND OTHER UNDERGROUND UTILITY SERVICES SHALL BE MAINTAINED AS SHOWN IN TO TYPICAL INSTALLATION DETAIL DRAWINGS.
8. DURING THE EXECUTION OF CABLE LAYING, CONTRACTOR SHALL MAINTAIN THE MINIMUM 300MM SPACE, WHERE THE POWER CABLE TRENCH RUNS IN PARALLEL WITH THE COMMUNICATION CABLES (EITHER LAID IN SAME TRENCH OR RUNS SEPARATELY).
9. POWER CABLE TRENCH CROSSING w.r.t. COMMUNICATION CABLES SHALL BE MADE AT 90°.
10. DURING EXECUTION WHILE PERFORMING ELECTRICAL WORKS, EXTRA CARE SHALL BE EXERCISED TO AVOID ANY DAMAGE TO MECHANICAL AND CIVIL STRUCTURES, ANY DAMAGE TO ABOVE SHALL BE BORN AND REPLACED BY THE CONTRACTOR.
11. CABLE BENDING RADIUS SHALL NOT BE LESS THAN THAT SPECIFIED BY THE CABLE MANUFACTURER.
12. WHENEVER CABLE IS TO BE LAID ACROSS ROAD CROSSING, CABLE SHALL BE LAID INSIDE G.I PIPE OF 6" INCHES DIA/OR HIGH STRENGTH PVC CLASS D CONDUITS. SUFFICIENT SPARE CONDUITS SHALL BE CONSIDERED AND INSTALLED FOR ACCOMMODATION OF CABLES IN FUTURE.
13. CABLES SHALL BE IDENTIFIED AT BOTH ENDS OF TERMINATION BY STAINLESS STEEL MARKER. SPACING BETWEEN CABLE ID LABELS SHALL NOT EXCEED 20m.
14. CABLE MARKERS SHALL BE PROVIDED THROUGHOUT THE CABLE ROUTE AS PER SUBMITTED TYPICAL INSTALLATION DETAILS SPACING AT EVERY 20m. CABLE MARKERS SHALL BE PROVIDED AND INSTALLED AT ALL DIRECTION CHANGES, INTERSECTION AND STRAIGHT RUNS.
15. CABLE TRENCHES FOR AREA LIGHTING, SKID LIGHTING SHALL BE FINALIZED AND MARKED DURING DETAIL ENGINEERING BY THE CONTRACTOR.
16. POWER & CONTROL CABLE TRENCH SHALL HAVE A CLEARANCE OF AT LEAST ONE (1) METER FROM THE ROAD SHOULDER.
17. POWER & CONTROL CABLE/LIGHTING CIRCUIT SECTION DETAILS w.r.t. REFERENCE CABLES IDENTIFICATION SHALL BE DEVELOPED/MARKED ON THE UPDATED LAYOUT BY THE CONTRACTOR.
18. AFTER LAYING AND ENERGIZATION OF THE CABLE, THE FINALIZED DRAWINGS IN TRIPPLICATE SHALL BE PREPARED/UPDATED ON AUTO-CAD WITH SOFT COPY ON CD ALONG WITH HARD COPY SHALL BE SUBMITTED TO COMPANY/CONSULTANT.
19. THE SUBMITTED DRAWING SHALL INCLUDE NECESSARY INFORMATION I-E PHYSICAL DIRECTION, GLOSSARY, ROADS, BUILDINGS AND OTHER STRUCTURES, ROUTE OF CABLE, G.I PIPES, HUME PIPES, CLEARANCES FROM PROPERTY SIDE, ROADS, ETC., SHALL BE CLEARLY INDICATED IN THE CABLE LAYING ROUTE DRAWINGS.

ELET. POWER CABLE TRENCH (DIRECT BURIED)

RE-ISSUED FOR TENDER

1	25-02-2022	RE-ISSUED FOR TENDER	MAA	WAS/SJA	MAS
0	07-01-2022	ISSUED FOR TENDER	MAA	WAS/SJA	MAS
REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPR.



TITLE : POWER CABLE ROUTE LAYOUT
KPD GPP - FEC AREA

SIZE	SCALE	SHEET
A1	1 : 1100	1 OF 1