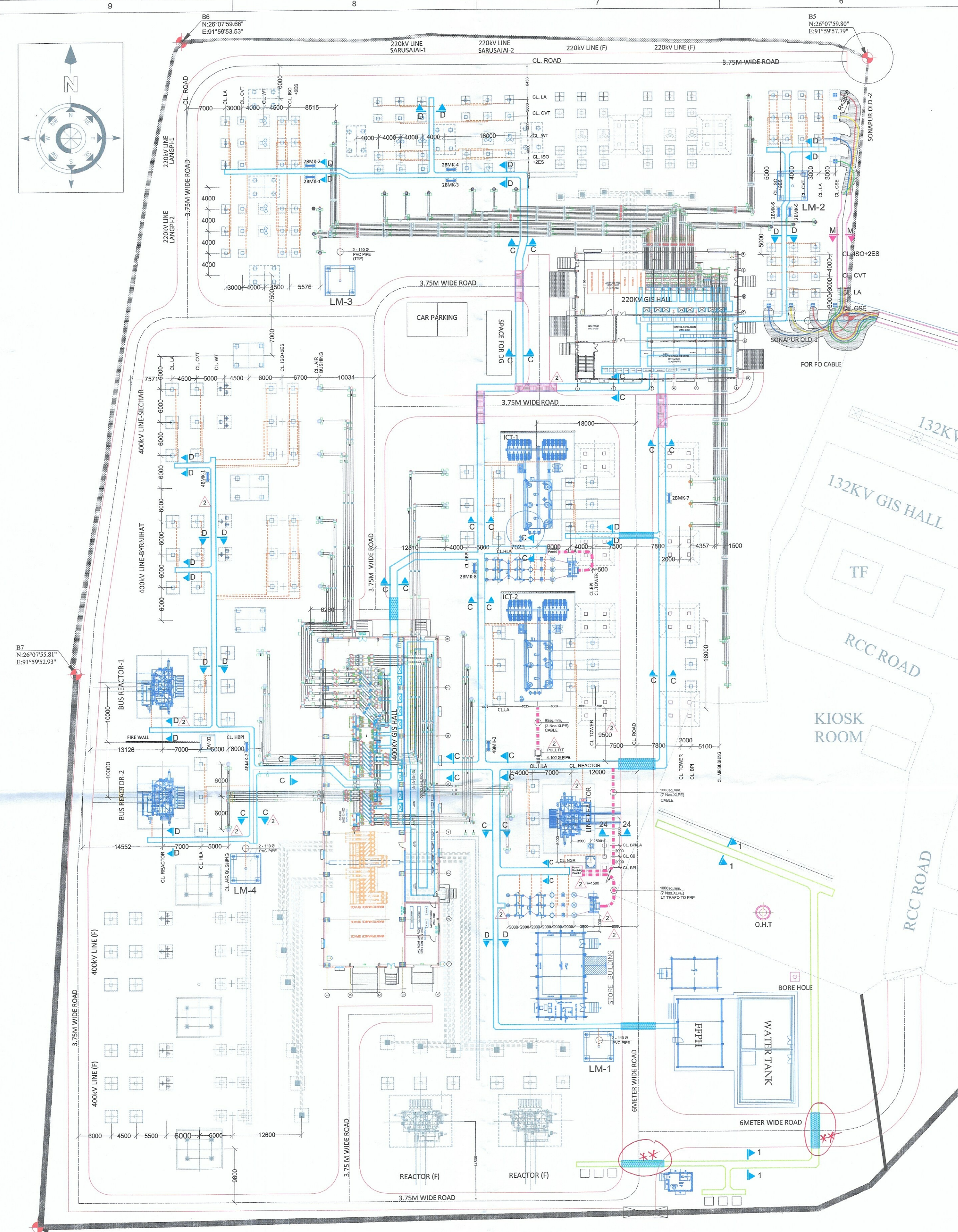
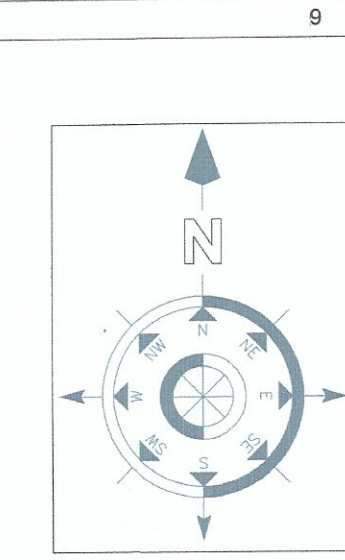




LEGEND:

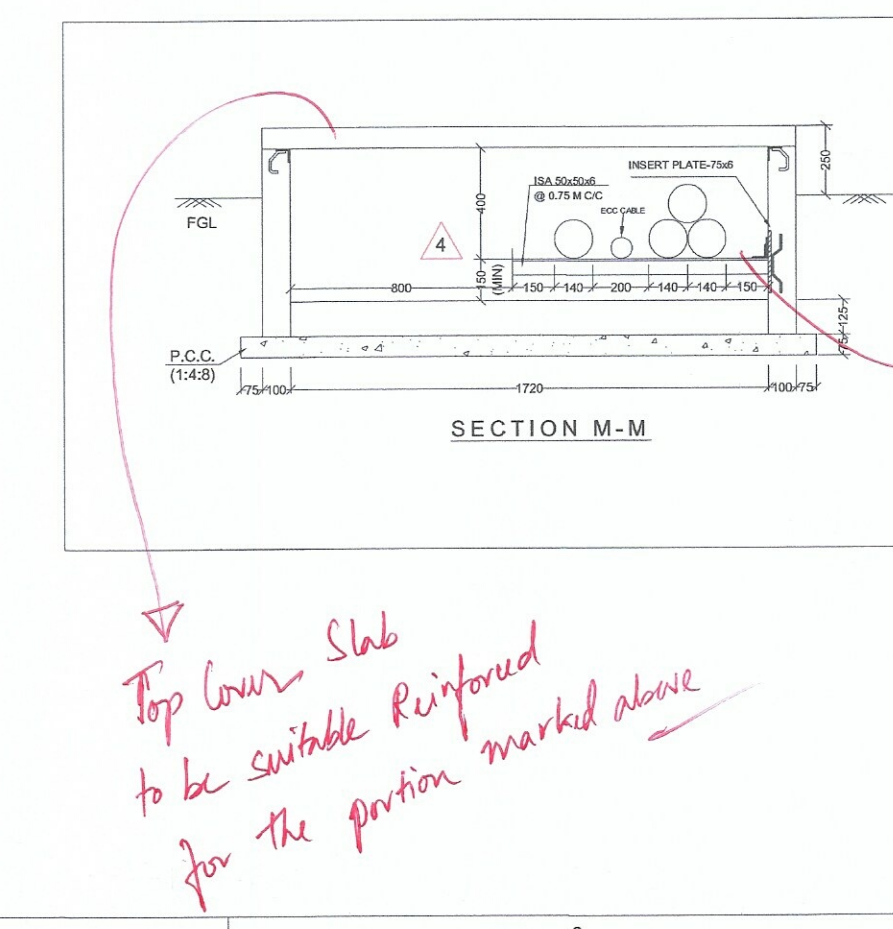
- PRESENT SCOPE
- FUTURE
- BURIED TRENCH
- PVC PIPE
- CABLE TRENCH ROAD CROSSING (HUME PIPE)
- CABLE TRENCH ROAD CROSSING (CULVERT-4 NOS.)

CABLE TRENCH LENGTH

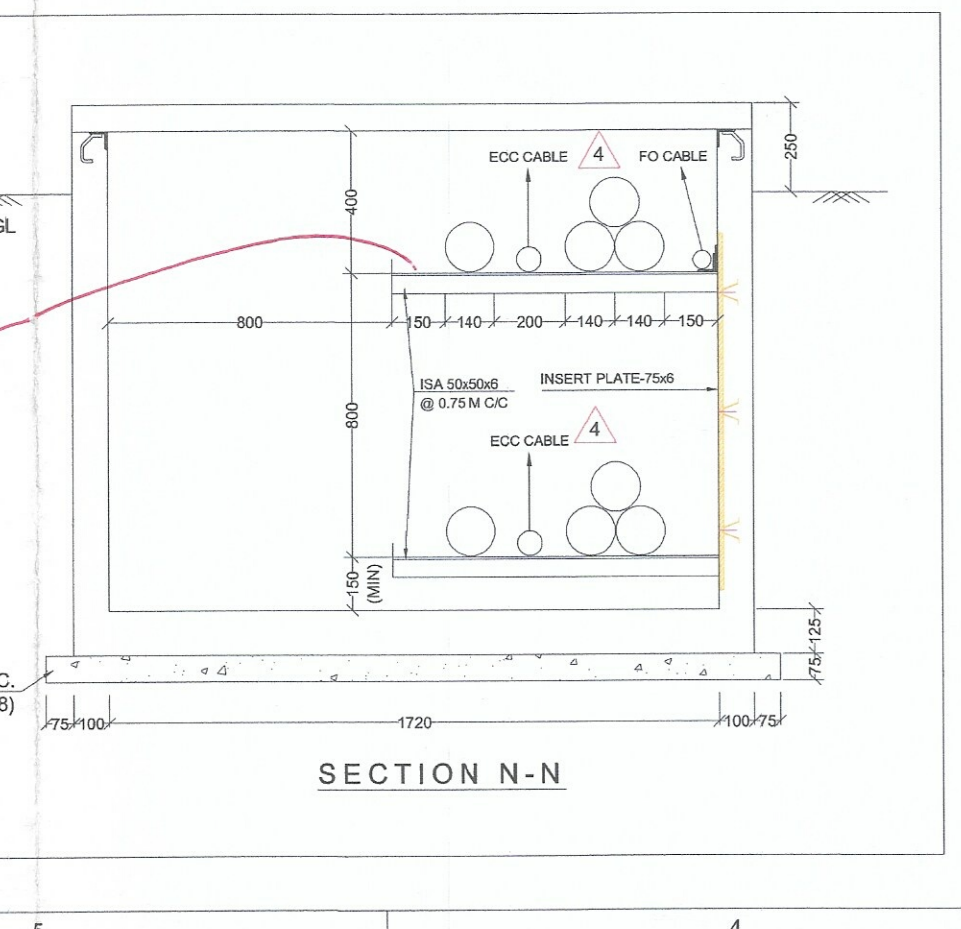
NO.	DESCRIPTION	LENGTH (MTR.)
28	CABLE TRENCH ALONG WITH ROAD CROSSING CULVERT FOR CABLES WHEREVER NECESSARY.	AS PER LOA
28.01	TRENCH C-C	100 MTR.
28.02	TRENCH D-D	80 MTR.
28.03	CABLE TRENCH FOR 220KV POWER CABLE WITH 1800 SQMM CORE CABLE FOR 2 CIRCUIT WITH 4 CABLES PER CIRCUIT.	300 MTR.
28.04	8 NO. 3.3KV OUTGOING BAY FROM EXISTING SWITCHYARD UPTO BOUNDARY WALL AS PER LAYOUT.	60 MTR.

REMARKS

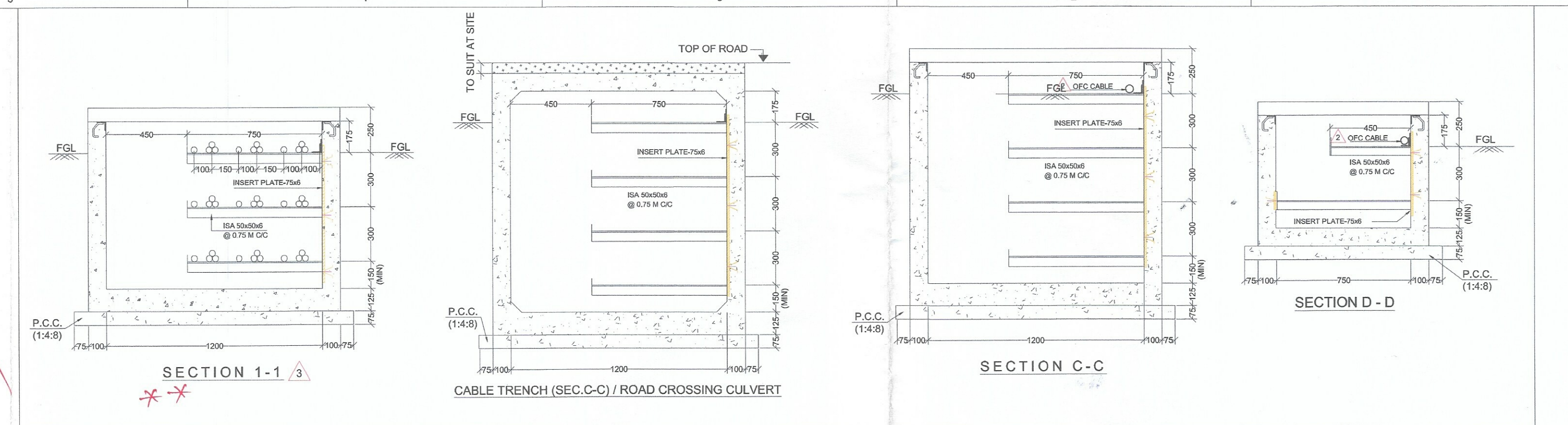
NO.	REMARKS
28	CABLE TRENCH ALONG WITH ROAD CROSSING CULVERT FOR CABLES WHEREVER NECESSARY.
28.01	TRENCH C-C
28.02	TRENCH D-D
28.03	CABLE TRENCH FOR 220KV POWER CABLE WITH 1800 SQMM CORE CABLE FOR 2 CIRCUIT WITH 4 CABLES PER CIRCUIT.
28.04	8 NO. 3.3KV OUTGOING BAY FROM EXISTING SWITCHYARD UPTO BOUNDARY WALL AS PER LAYOUT.



DT'S FO Cable to be marked



- NOTES:**
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
 - A SLOPE OF 1:100 IS TO BE PROVIDED ALONG THE LENGTH OF CABLE TRENCH FOR DRAINAGE.
 - CL DISTANCES OF TRENCHES SHALL BE FINALIZED AS PER ACTUAL SITE CONDITION IN CONSULTATION WITH SITE IN-CHARGE, TO AVOID POULING WITH ANY EQUIPMENT FOUNDATION COLUMN.
 - SIZE OF PIPE SHALL BE SELECTED BASED ON 40% FILL CRITERION & SEPARATE PVC PIPES SHALL BE LAID FOR CONTROL & POWER CABLES.
 - AFTER LAYING CABLES, PIPE END SHALL BE SUITABLY SEALED AT SITE BY SEALING COMPOUND/ SEALING MATERIAL TO PREVENT INGRESS OF WATER INSIDE THE PIPES.
 - THIS DRAWING SHALL BE REFERRED FOR CABLE TRENCH LAYOUT, ALL OTHER DETAILS PERTAINING TO CIVIL WORK SHALL BE AS PER RESPECTIVE CIVIL DESIGN/ DRG.
 - ILLUMINATION CABLE SHALL BE ROUTED THROUGH PVC PIPE WHEREVER THERE IS NO NEAR BY CABLE TRENCH. ROUTE OF BURIED CABLE TRENCH FOR ILLUMINATION SHALL BE AS PER RELEVANT ILLUMINATION LAYOUT.
 - CABLE TRENCH ROUTE & BURIED TRENCH ROUTE IS INDICATIVE ONLY. REQUIRED ADJUSTMENTS SHALL BE CARRIED OUT DURING CONSTRUCTION TO SUIT SITE CONDITION.
 - NECESSARY OPENINGS SHALL BE PROVIDED IN TRENCHES TO TAKE OUT CABLES AT APPROPRIATE LOCATION.
 - CABLES FROM BAY TRENCH TO EQUIPMENT SHALL BE LAID THROUGH PVC PIPES AS PER DETAILS OF PIPE TRENCH FOR EQUIPMENTS.
 - TRENCH PIPE SHALL BE AS CLOSE TO EQUIPMENT AS POSSIBLE BUT AWAY BY A MIN OF 100MM.
 - CABLES IN TRANSFORMER/REACTOR SOAK PIT AREA SHALL BE ROUTED IN PVC PIPE.
 - POWER CABLE CAN BE LAID IN DOUBLE LAYERS THROUGH CABLE TRENCH & CONTROL CABLE CAN BE LAID IN DOUBLE/ TRIPLE LAYERS THROUGH CABLE TRENCH.
 - CABLE TRENCH SECTION & ROAD CROSSING SECTION SHALL BE AS PER RELEASED CIVIL DRG.
 - INSERT PLATES IN CABLE TRENCHES SHALL BE PLACED @750 MM INTERVAL.
 - ALL CABLE TRENCH CONSTRUCTION & CABLE LAYING SHALL BE DONE IN ADHERENCE TO IS 1255.
 - REQUIREMENT OF SUMP PIT, TRENCH SLOPE & INVERT LEVEL TO BE FINALIZED AFTER FINALIZATION OF DRAIN LAYOUT.
 - FO CABLE RUN THROUGH HDPE PIPE.

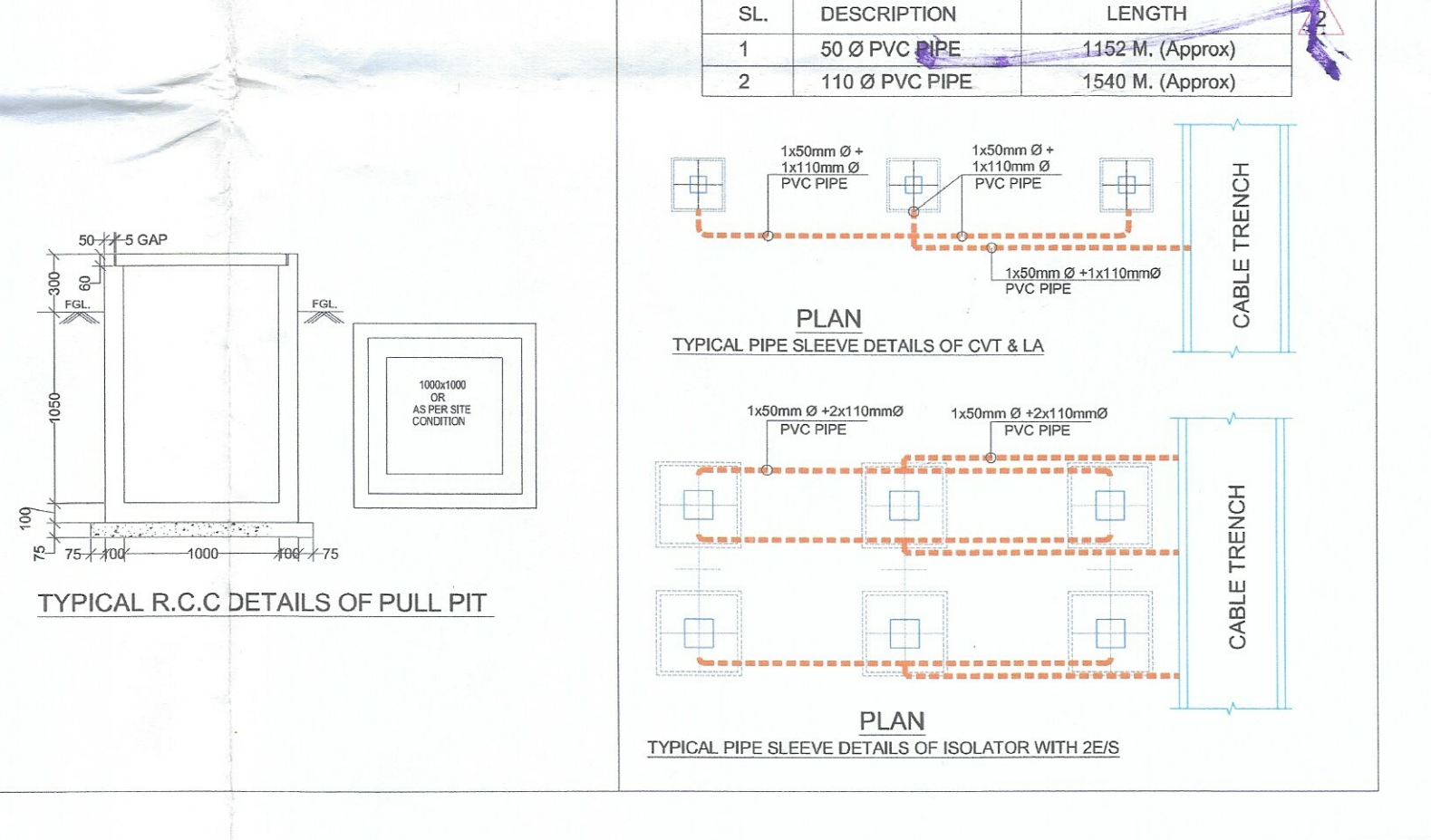
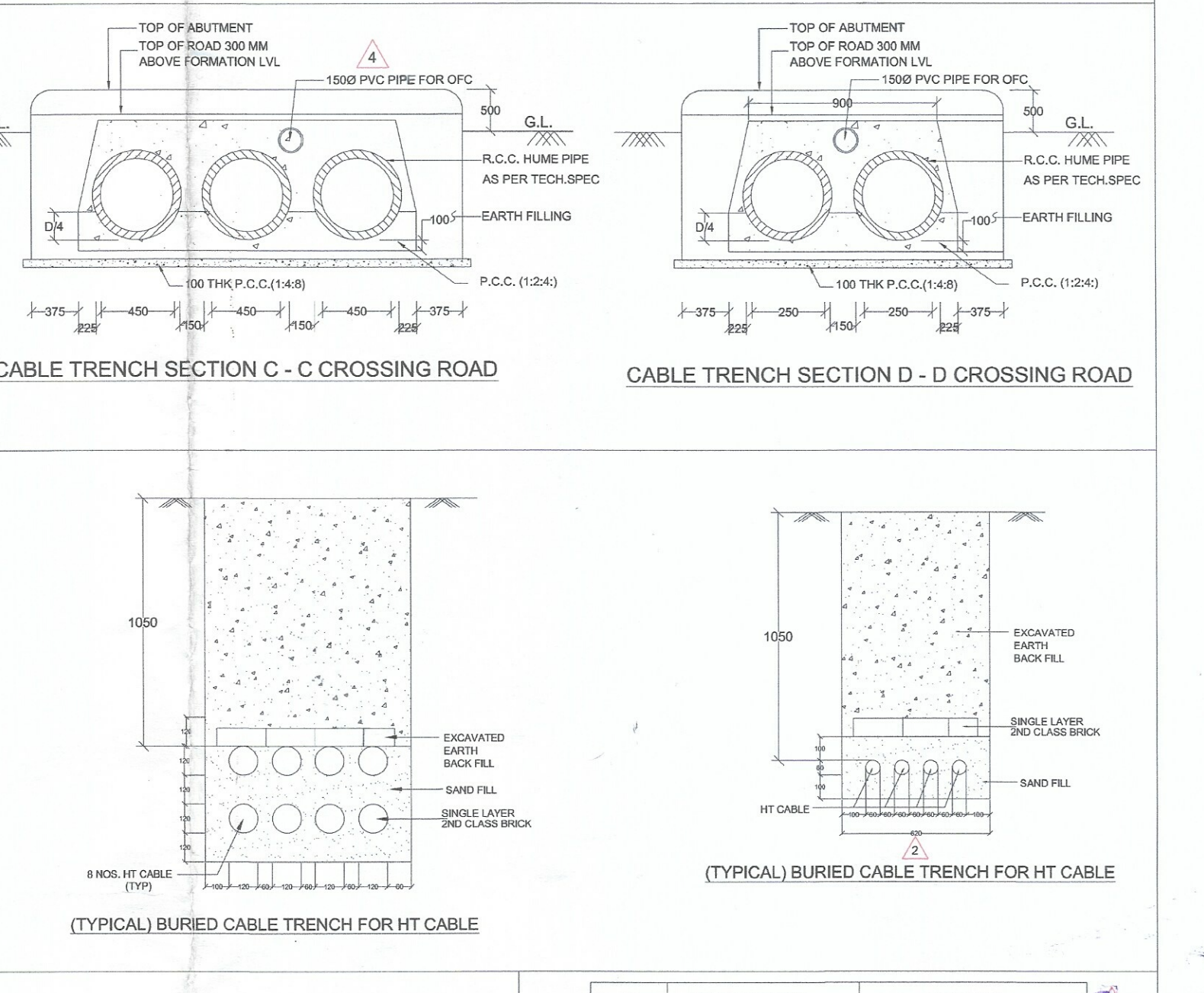


For Section 1-1, The Cover Slab shall be suitably Reinforced for Vehicle Hydran movement.

For Roads Crossing portion as marked, Typical Section similar to Section C-C with dimensions pertaining to Section 1-1 shall be used.

This typical sectional layout for Road crossing to be submitted.

For This Section marked, The Cover Slab shall be suitably Reinforced for movement of Hydran for maintenance works.



SL.	DESCRIPTION	LENGTH
1	50 Ø PVC PIPE	1152 M. (Approx)
2	110 Ø PVC PIPE	1540 M. (Approx)

TYPICAL PIPE SLEEVE DETAILS OF CVT & LA

TYPICAL PIPE SLEEVE DETAILS OF ISOLATOR WITH 2E/S

REV	DESCRIPTION	PREP.	CHKD.	APPD.	DATE
4	FIFTH SUBMISSION	P.M.	S.S.	S.D.	18.12.25
3	FOURTH SUBMISSION	P.M.	S.S.	S.D.	11.11.25
2	THIRD SUBMISSION	P.M.	S.S.	S.D.	17.07.25
1	SECOND SUBMISSION	P.M.	S.S.	S.D.	02.06.25
0	FIRST SUBMISSION	P.M.	A.B.	S.D.	16.04.25

OWNER ASSAM ELECTRICITY GRID CORPORATION LIMITED

NOA: AEGCL/MD/AIIB/400kv/Sonapur/Tender/PkgH/2023-24/Extn-2/71 Dtd: 13.09.2024

PROJECT: CONSTRUCTION OF 400/220KV, GIS AT SONAPUR AND ASSOCIATED TRANSMISSION LINES AND BAY EXTENSION WORKS AT EXISTING 220KV SONAPUR GIS

SUBSTATION: 400/220KV GAS INSULATED SUBSTATION AT SONAPUR

DRG. TITLE SONAPUR S/S- 400/220KV OUTDOOR CABLE TRENCH LAYOUT

DRG. NO.: AEGCL-SONA-0816SN-ELE-CABTRELAY-006

SCALE: 1:1 **JOB NO:** 0816SN **SHEET** 1 OF 1