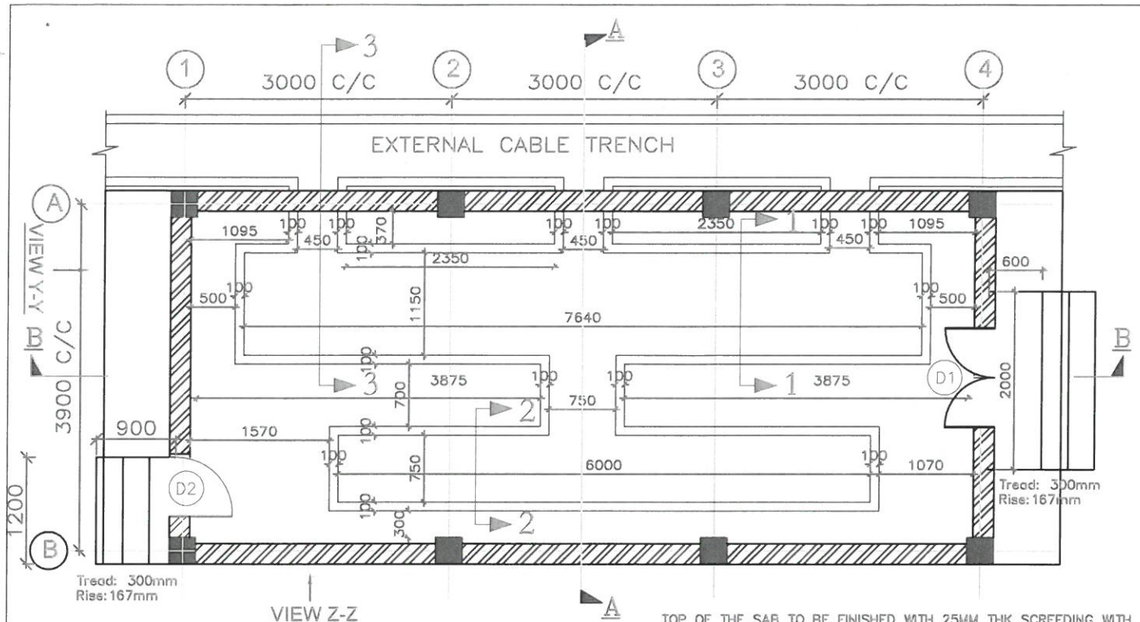
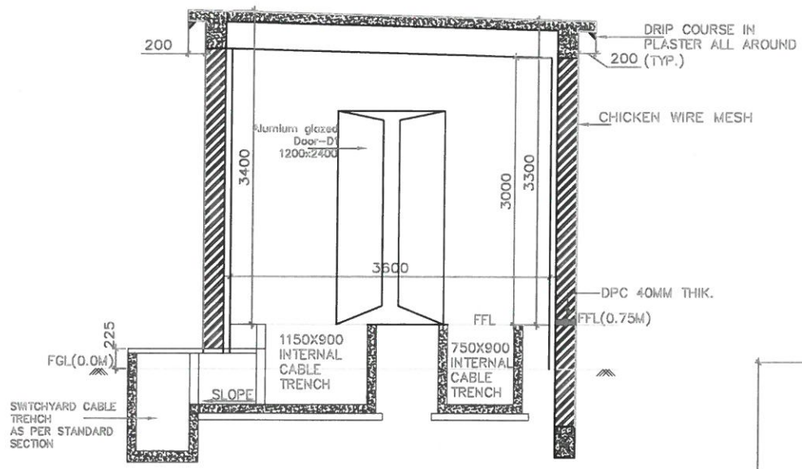
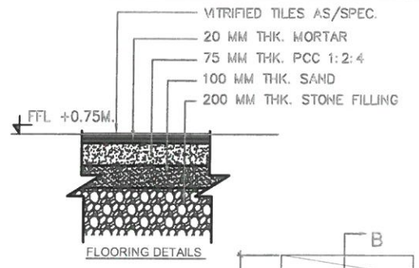


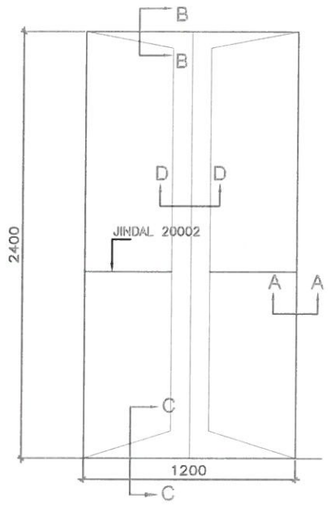
GROUND FLOOR PLAN



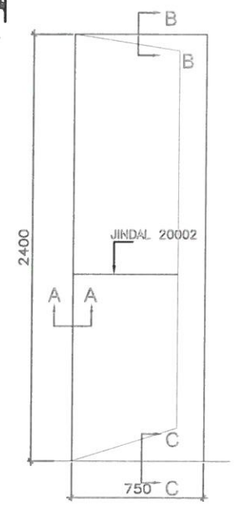
SECTION A-A



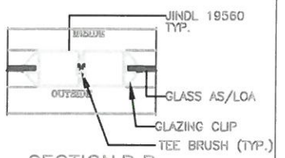
FLOORING DETAILS



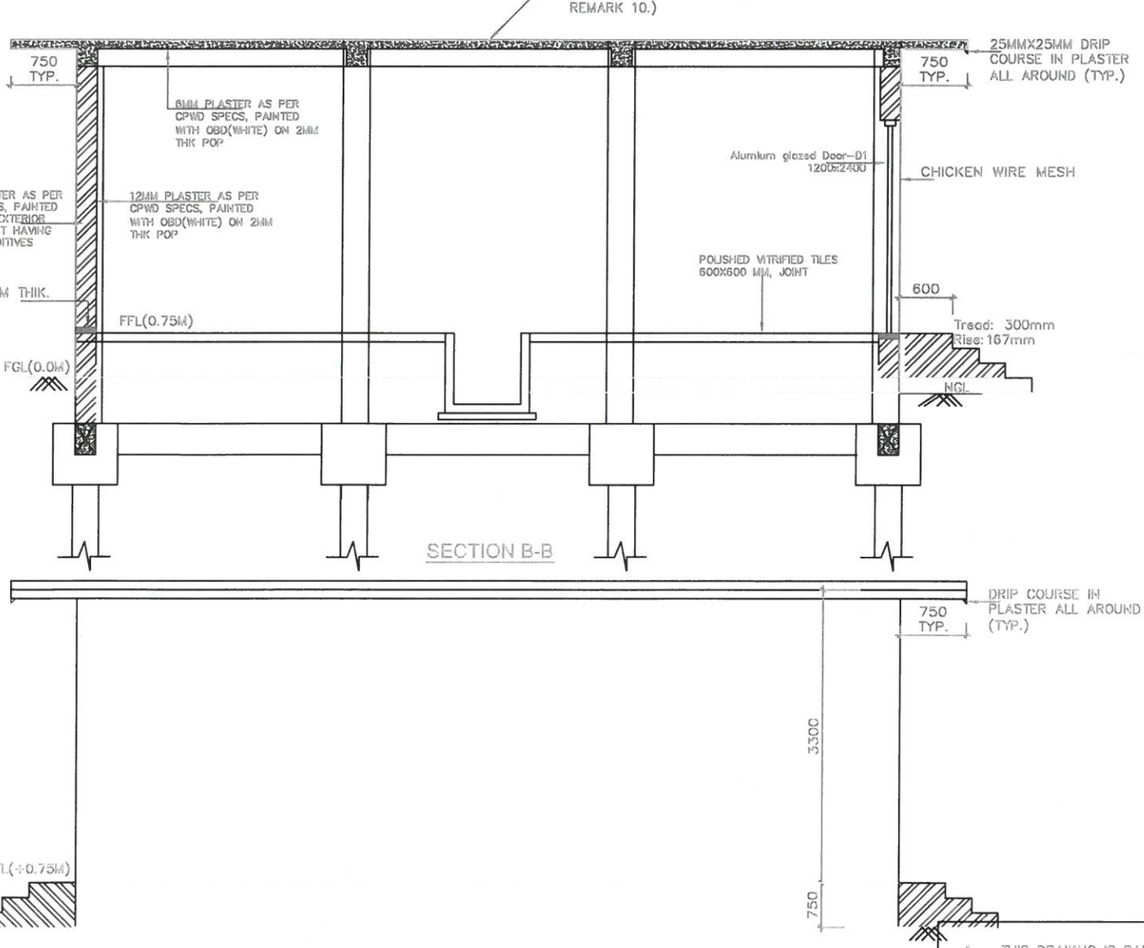
DOOR -D1



DOOR -D2

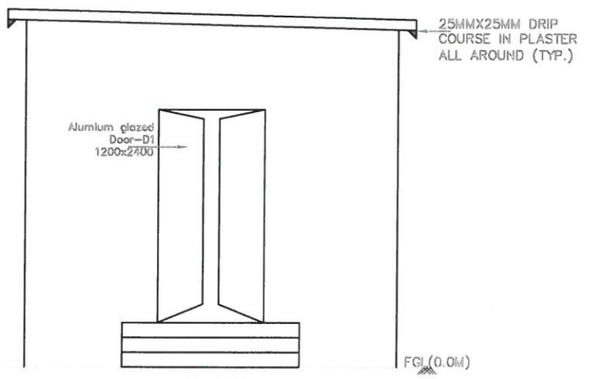


SECTION D-D

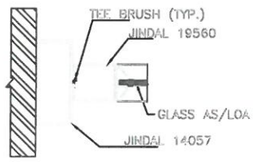


SECTION B-B

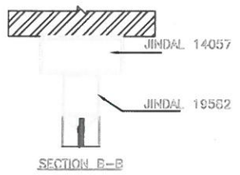
VIEW Z-Z



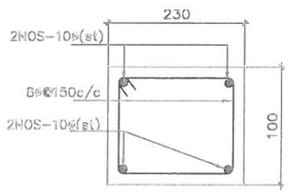
VIEW Y-Y



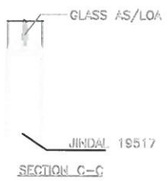
SECTION A-A



SECTION B-B



LINTEL BEAM (TYP.)



SECTION C-C

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM. AND LEVELS ARE IN MTR.
2. 22GX12 MM. CHICKEN WIRE MESH TO BE PROVIDED ALONG EXTERNAL FACE OF WALLS AND TOP OF ROOF BEFORE PLASTERING.
3. THE WIRE MESH SHALL BE CONNECTED WITH EARTHING SYSTEM THROUGH 75X12MM FLAT FIXED ON DIAGONALLY OPPOSITE COLUMNS ON ITS OUTER SURFACE
4. INTERNAL CABLE TRENCH SHALL HAVE SLOPE OF 1:1000 TOWARDS THE EXTERNAL CABLE TRENCH.
5. ALL MISC. STEEL SHALL BE PAINTED WITH ONE COAT OF ANTI CORROSIVE PAINT OVER APPROVED PRIMER.
6. INTERNAL CABLE TRENCH LAYOUT SHALL BE VERIFIED/MODIFIED AS PER THE FINAL APPROVED CABLE TRENCH LAYOUT BEFORE CONSTRUCTION.
7. ALL WELDS ARE 6MM FILLET CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
8. 22GX12 MM. CHICKEN WIRE MESH TO BE PROVIDED FOR OUTER WALL, AND ROOF. CHICKEN WIRE MESH SHALL BE CONNECTED WITH EARTHING SYSTEM THROUGH 75X12MM FLAT FIXED ON DIAGONALLY OPPOSITE COLUMNS ON ITS OUTER SURFACE.
9. FOR OPENING OF AIR CONDITIONER SUITABLE LOCATION AND SIZE TO BE DECIDED AT SITE.
10. IN CASE ROOF SCREEDING NOT CARRIEDAT IN WET CONCRETI CONDITION, IT IS TO BE FINISHED WITH 25MM PLASTRING WITH WATER PROOFING CEMENT COMPOUND CONFIRM TO IS :2645 TO BE LAID OVER 16 GAUGE WELDED WIRE MESH.

1. THIS DRAWING IS BASED ON STANDARD SWITCHYARD PANEL ROOM DRAWING APPROVED BY ED ENGG. VIDE NOTE DATED REF. NO. C/ENGG/STD/DRG/CIVILWORKS/03/2016 DTD. 20.12.2016. & DRAWING NO. C/ENGG/STD/PR/2016/01 TO 04
2. FOUNDATION OF THE BUILDING HAS BEEN REVISED TO PILE FOUNDATION IN LINE WITH RECOMMENDATION OF SOIL INVESTIGATION REPORT (LATEST).
3. THIS DRAWING SHALL REPLACE EARLIER RELEASED DRAWING DATED 11.06.2019 FOR SAHARSA S/S.

RELEASED FOR CONSTRUCTION.

REV.	DESCRIPTION	PREP. (ENGG-CIVIL)	REVD. (ENGG-CIVIL)	APPD. (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED			01/10/2019	

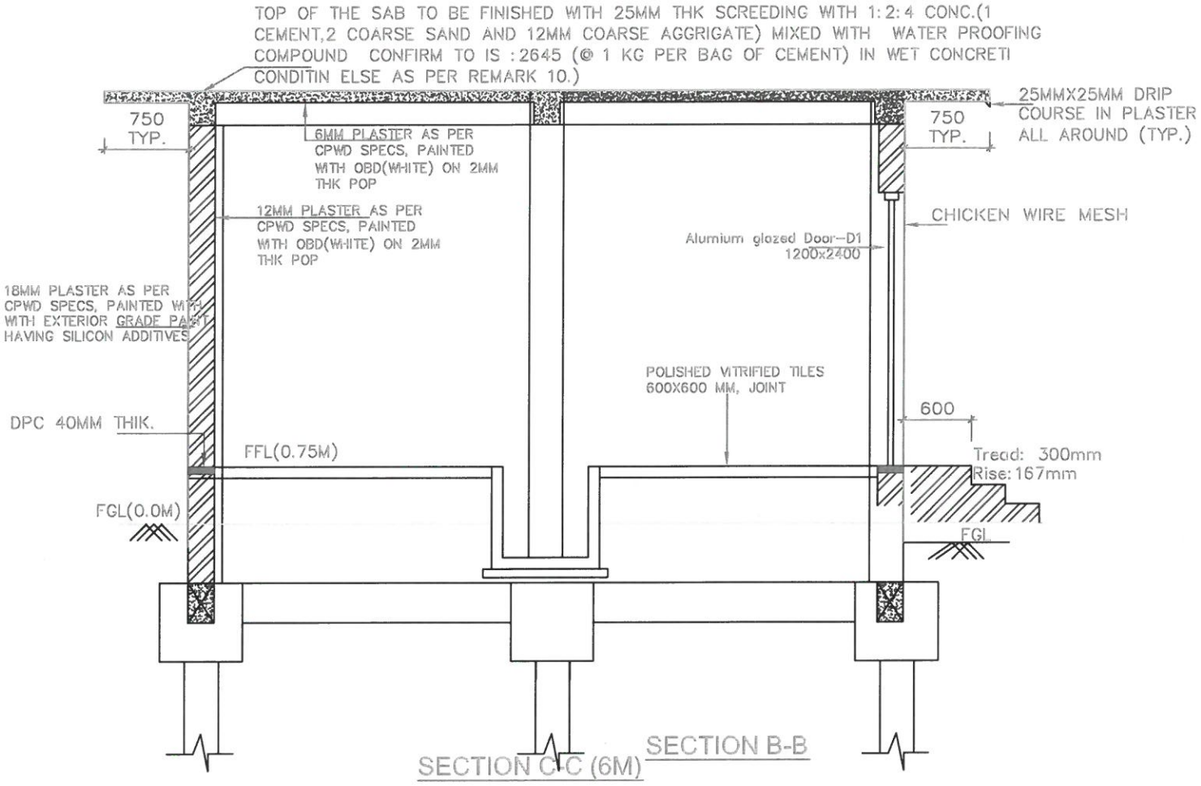
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT: 400/220/132 KV SAHARSA SUBSTATION (NEW)

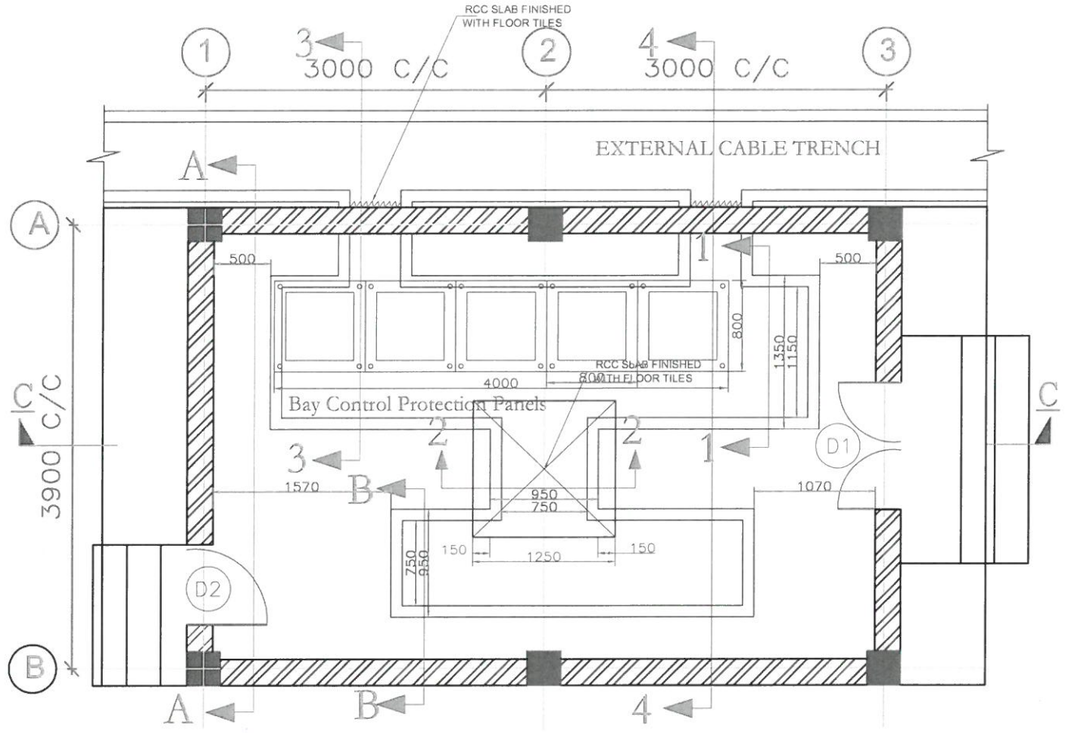
TITLE: SWITCHYARD PANEL ROOM (FOR 9 METER) GENERAL ARRANGEMENT DETAIL OF PANEL ROOM

DRAWING NO: C/ENGG/CIV/SAH/PR/01 OF 04

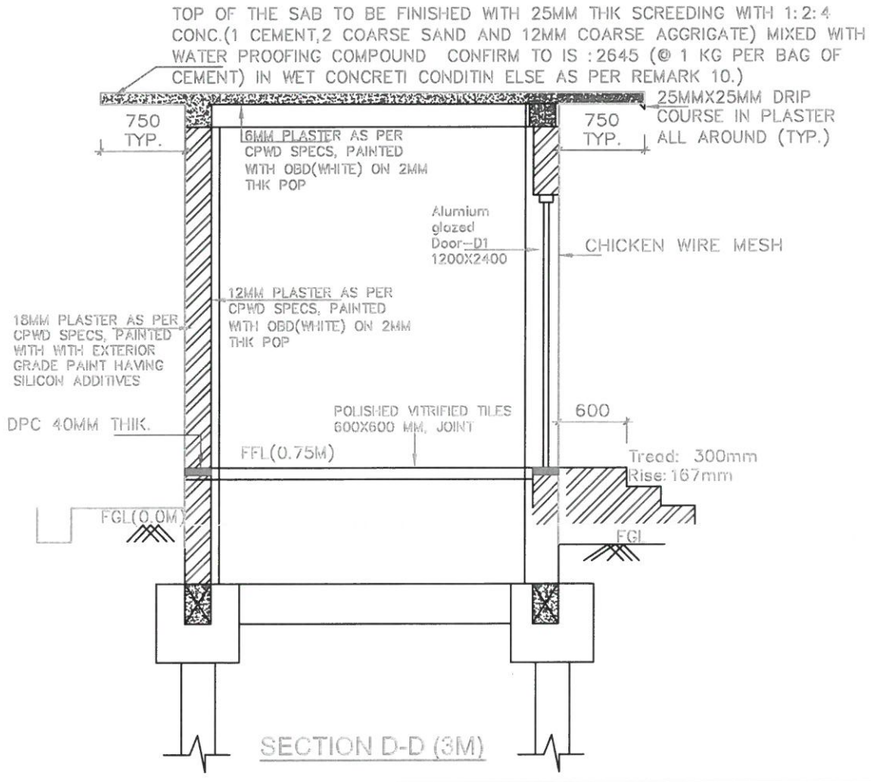
SCALE NTS | REV 02



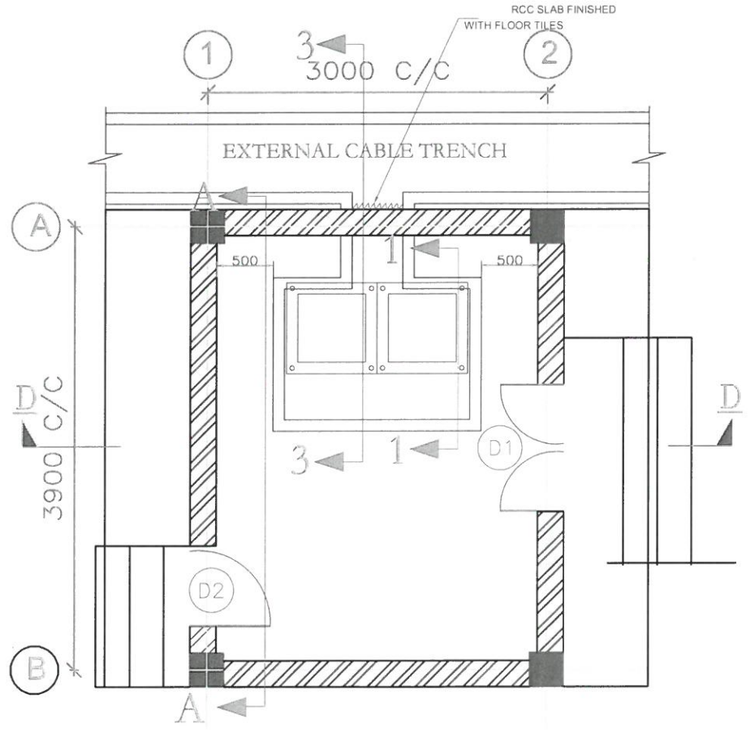
SECTION C-C (6M) SECTION B-B



PANEL ARRANGEMENT PLAN LAYOUT (6M)



SECTION D-D (3M)



PANEL ARRANGEMENT PLAN LAYOUT(3M)

REFER NOTES:- DRG NO: C/ENGG/STD/PR/2016 / SH. 01 OF 04

RELEASED FOR CONSTRUCTION.

REV.	DESCRIPTION	PREP. (ENGG-CIVIL)	REVD. (ENGG-CIVIL)	APPD. (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED			01/12/2019	

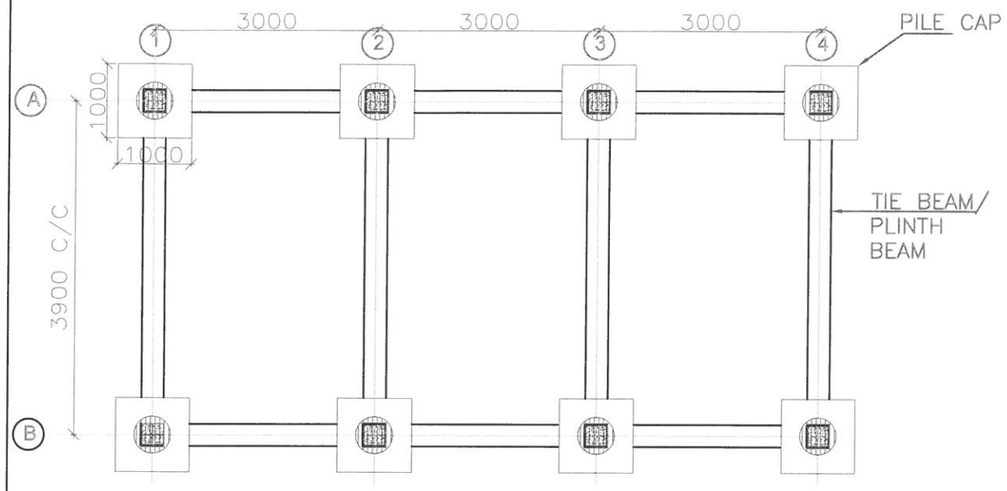
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT: 400/220/132 KV SAHARASA SUBSTATION

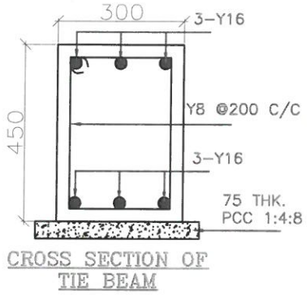
TITLE: SWITCHYARD PANEL ROOM (FOR 6 METER) GENERAL ARRANGEMENT DETAIL OF PANEL ROOM

DRAWING NO: C/ENGG/CIV/SAH/PR/02 OF 04

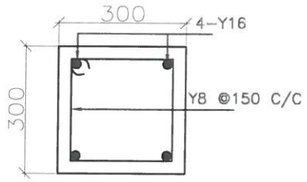
SCALE NTS | REV 02



FOUNDATION PLAN



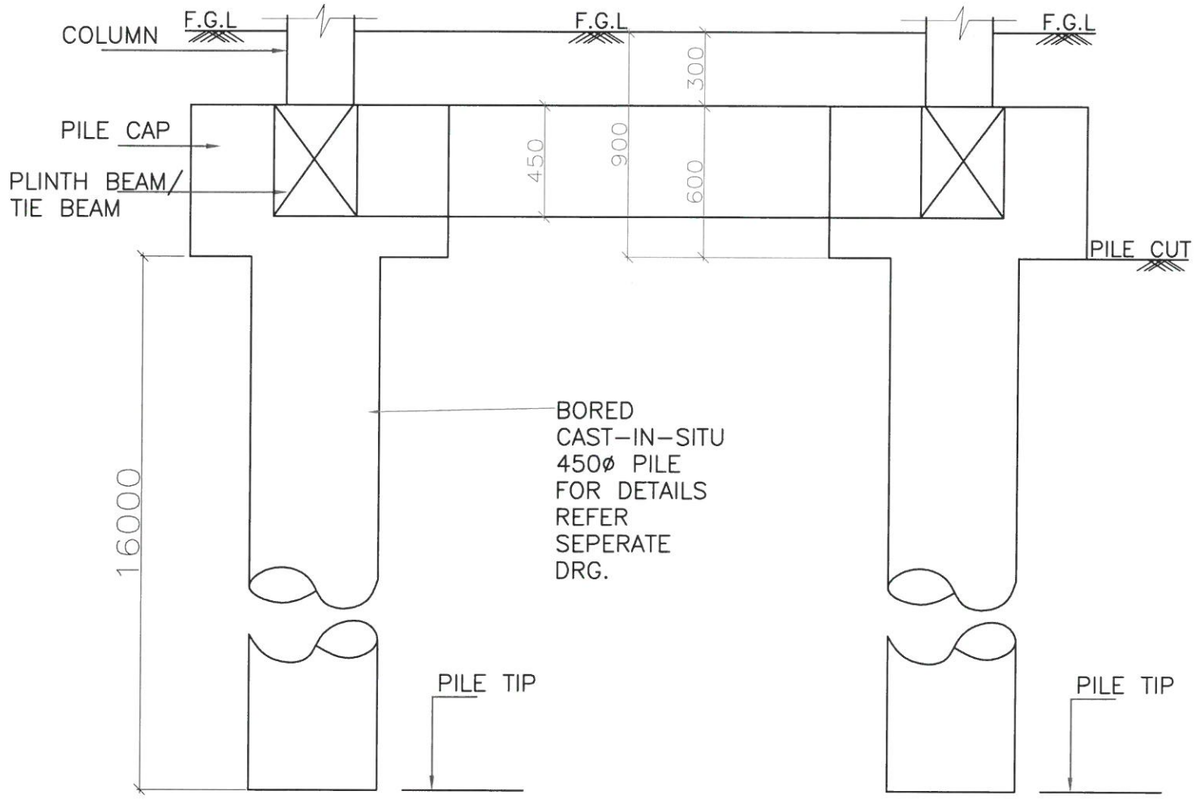
CROSS SECTION OF TIE BEAM



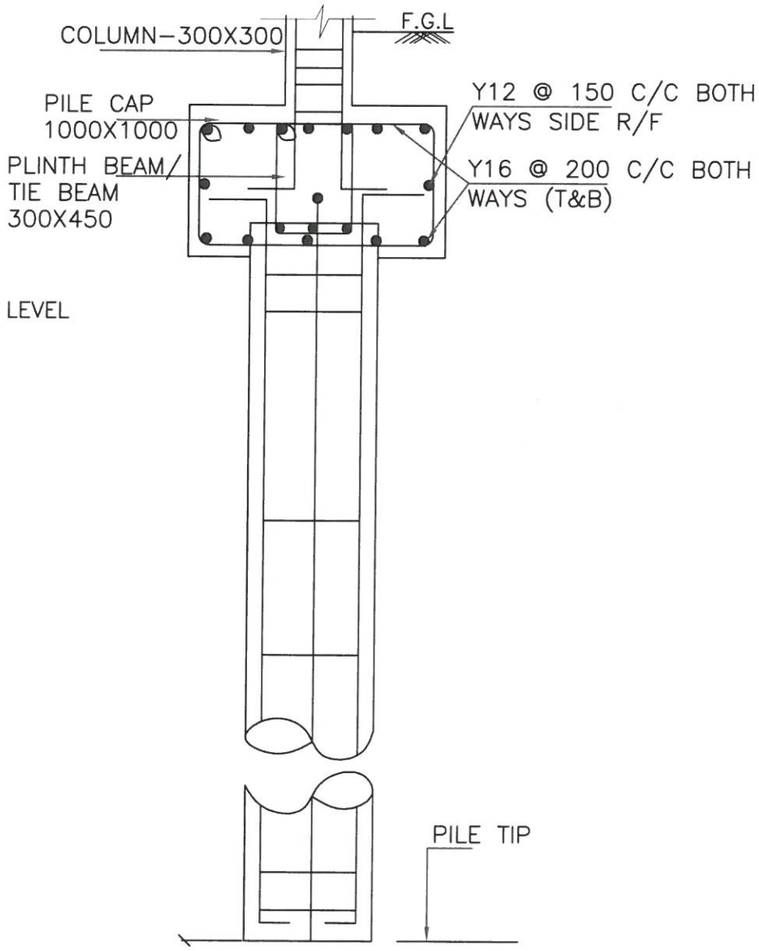
CROSS SECTION OF COLUMN

NOTES: –

1. ALL DIMENSIONS ARE IN MM. & ELEVATION ARE IN METER UNLESS NOTED OTHERWISE.
2. ALL R.C.C. FOR PILE SHALL BE AS PER SPECIFICATION
3. ALL REINFORCEMENT STEEL BARS SHALL BE AS PER SPECIFICATION
4. UNLESS NOTED OTHERWISE LAP/ANCHOR LENGTH SHALL BE 47 TIMES THE DIA. OF BARS.
5. CLEAR COVER TO LATERAL TIES SHALL BE 50MM EXCEPT 60 MM IN PILE CAP
6. LINK AND LAPS OF PILE REINFORCEMENT SHALL BE TACK WELDED
7. THE PILE BORE HOLE SHOULD BE CLEANED BEFORE PLACING THE CONCRETE.
8. THE CONCRETE USED FOR PILING WORKS SHALL HAVE A SLUMP OF 150 TO 180 MM
9. PILE TIP SHALL REST ON HARD ROCK LAYER
10. FOR LOCATION, DIRECTION OF FOUNDATIONS REFER APPROVED FOUNDATION LAYOUT.



FOUNDATION CROSS SECTION



TYPICAL CROSS SECTION

REV.	DESCRIPTION	PREP. (ENGG-CIVIL)	REVD. (ENGG-CIVIL)	APPD. (ENGG-CIVIL)	DATE
0.	REVISED AS MARKED				

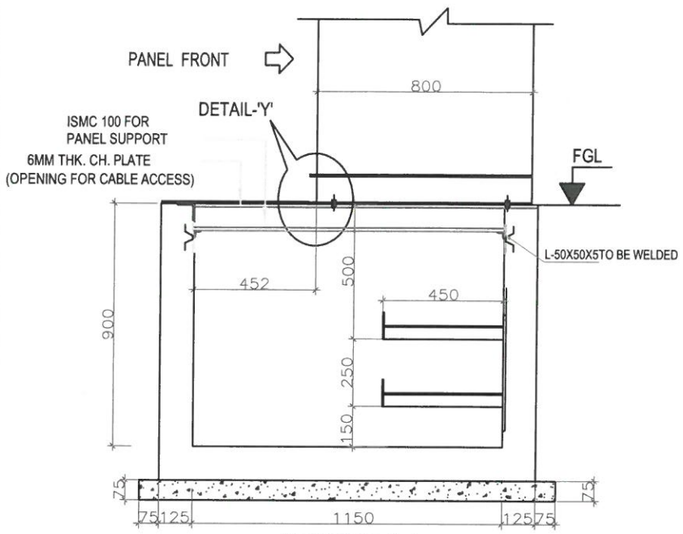
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT: 400/220/132 KV SAHARSA SUBSTATION

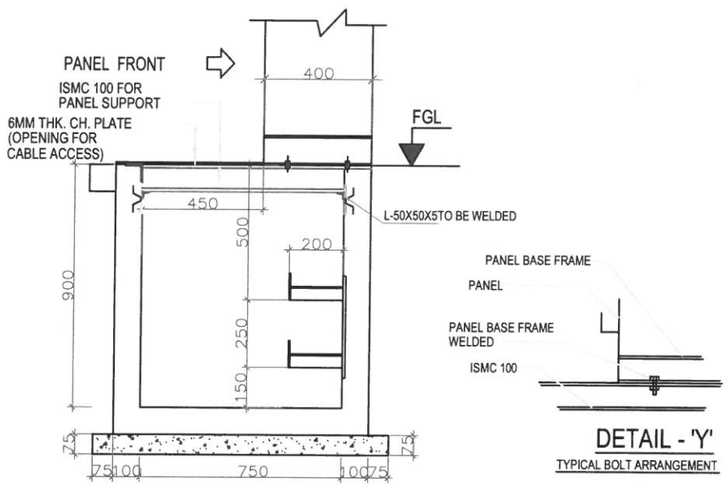
TITLE: SWITCHYARD PANEL ROOM RCC DETAIL OF PANEL ROOM

DRAWING NO: C/ENGG/CIV/SAH/PR/03 OF 04

SCALE NTS | REV 02

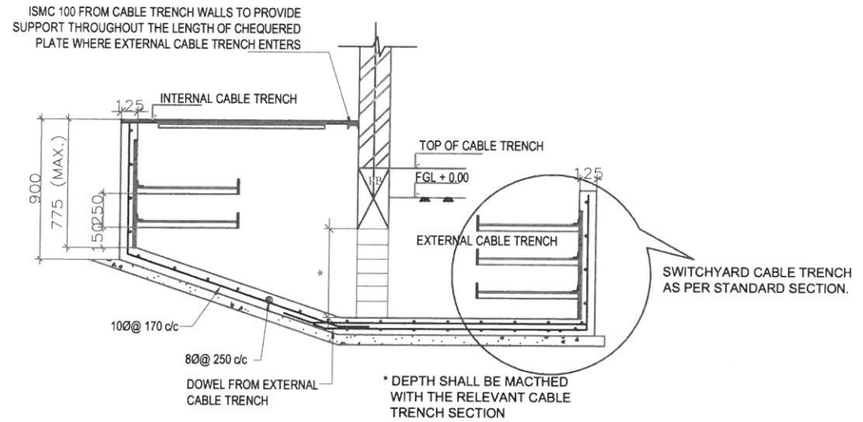


SECTION 1-1
(SHOWING GENERAL ARRANGEMENT DETAILS)

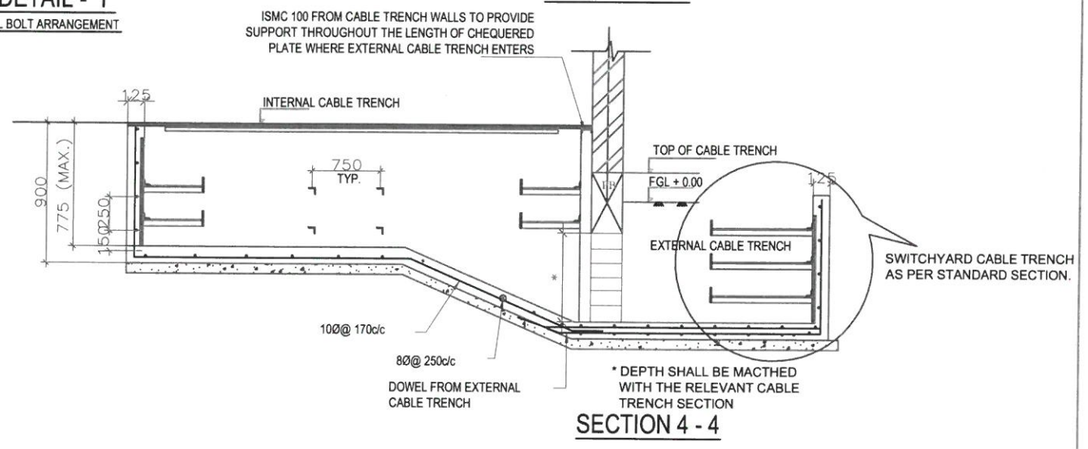


SECTION 2-2
(SHOWING GENERAL ARRANGEMENT DETAILS)

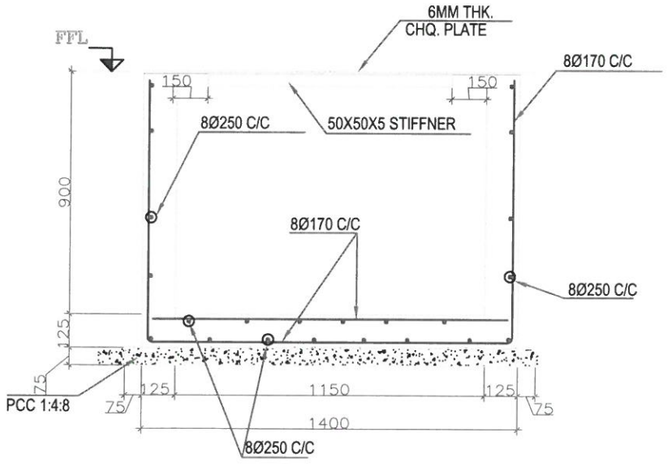
DETAIL - 'Y'
TYPICAL BOLT ARRANGEMENT



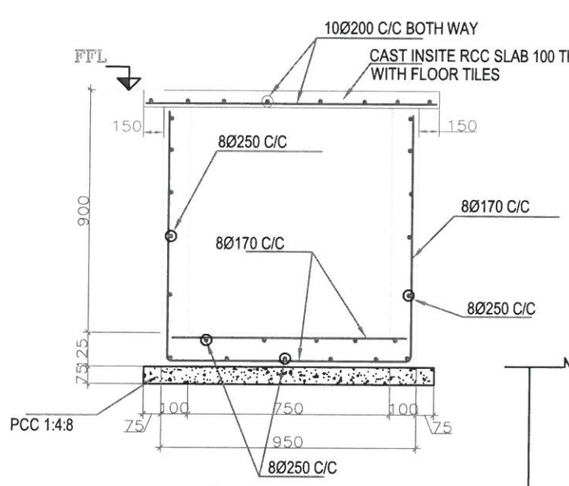
SECTION 3 - 3



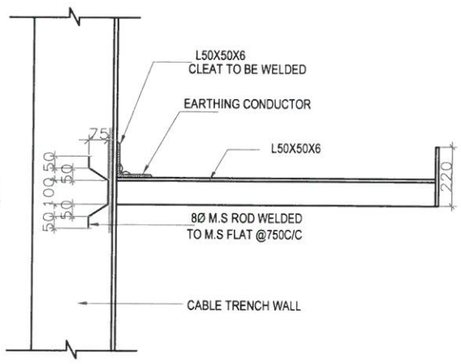
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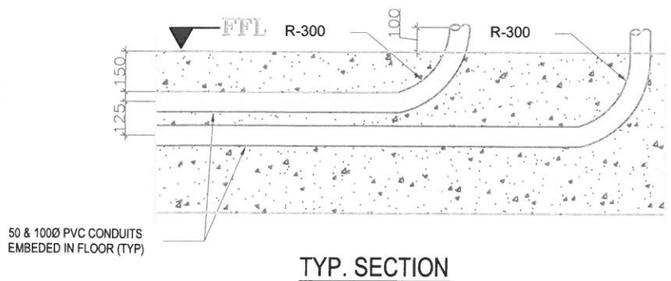
SECTION 1-1
(SHOWING REINFORCEMENT DETAILS)



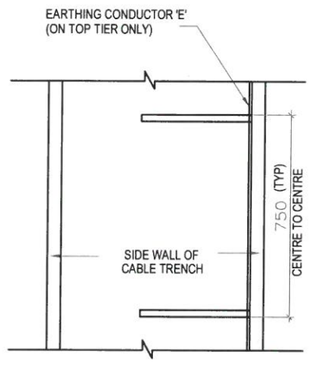
SECTION 2-2
(SHOWING REINFORCEMENT DETAILS)



TYPICAL CABLE SUPPORT



TYP. SECTION



CABLE TRAY SUPPORT (TYP)

NOTES :-

1. ALL DIMENSION ARE IN MM UNLESS NOTED OTHERWISE.
2. FOR NOTES REFER DRG. NO : C-ENGG-STD-PR-TS-10-01
3. FOR STRUCTURE NOTES REFER DRG. NO : C-ENGG-STD-PR-2016, 02,03 & 04.
4. TOP OF CHEQUERED PLATE TO FLUSH WITH FINISHED FLOOR LEVEL
5. THIS DRAWING SHALL BE MATCHED WITH VENDOR'S APPROVED INTERNAL CABLE TRENCH LAYOUT DRAWING BEFORE START OF CONSTRUCTION
6. ALL WELDS ARE 6MM FILLET CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED
7. ISMC 100 SHALL BE PROVIDED @1000 C/C TO SUPPORT CHEQUERED PLATE WHEREVER CABLE TRENCH WIDTH EXCEEDS 1000 MM.
8. ISMC 100 SHALL BE PROVIDED BELOW PANELS ALSO.
9. FOR CABLE TRENCH WITH LESSER WIDTH L50x50x5 STIFFENER SHALL BE WELDED WITH CHEQUERED PLATE @ 1000 C/C.

RELEASED FOR TENDER/CONSTRUCTION.

REV.	DESCRIPTION	PREP. (ENGG–CIVIL)	REVD. (ENGG–CIVIL)	APPD. (ENGG–CIVIL)	DATE
0.	REVISED AS MARKED			01/10/2019	

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT: 400/220/132 SAHARSA S/S

TITLE: SWITCHYARD PANEL ROOM R.C.C DETAIL OF INTERNAL CABLE TRENCH

DRAWING NO: C/ENGG/CIV/SAH/PR/04 OF 04

SCALE NTS | REV 0