

NOTE : DIMENSIONS ARE INDICATIVE ONLY.  
IT MAY VARY AS PER SITE REQUIREMENT.

POWER GRID CORPORATION  
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PROJECT :- STANDARD

TITLE:- STANDARD BAY NAME PLATE

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### GENERAL INSTRUCTIONS FOR EARTHING:

1. Location of earthing conductors / risers shown in the earthing drawing may change to suit the site condition.
2. Two different risers of one structure/equipment shall be connected to different conductors of main earthmat.
3. Earthing conductor around the building shall be buried at a minimum distance of 1500 mm from the outer boundary of the building.
4. Minimum distance of 6000 mm shall be maintained between two treated (pipe) electrodes.
5. For surge arrester, earthing lead from surge counter to main earthmat shall be shortest in length as practically as possible. Earthing lead from surge arrester shall not be passed through any pipe.
6. No welding is allowed in the over ground earthing leads/risers.

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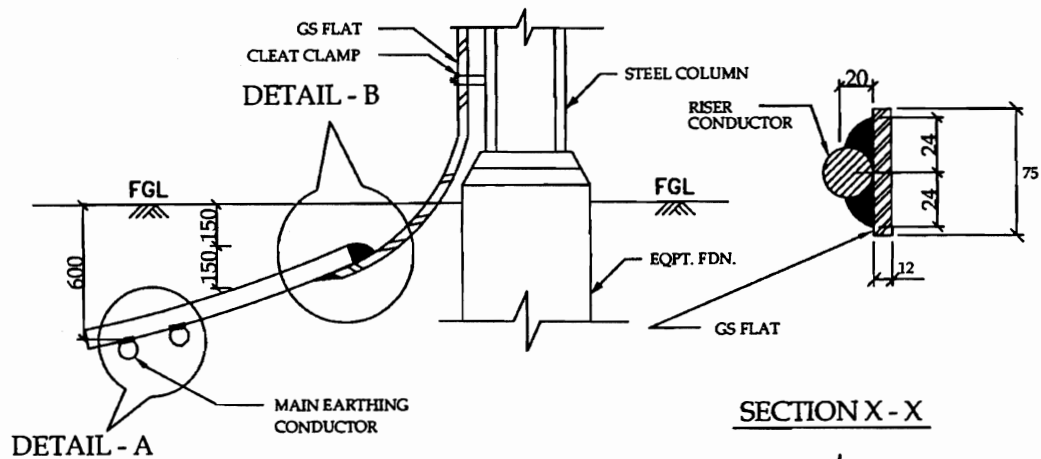
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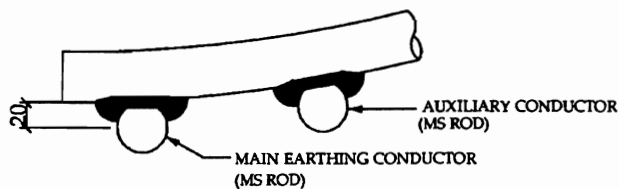
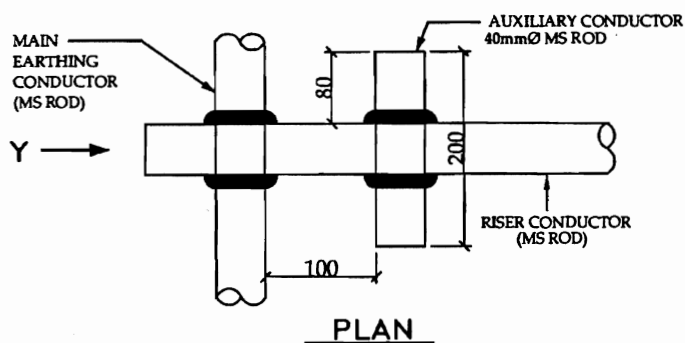
PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

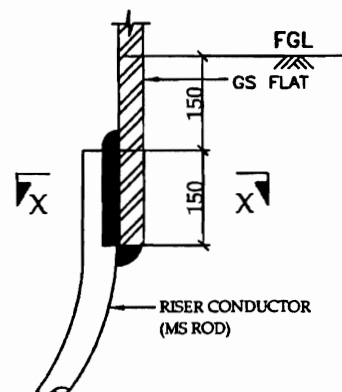
<i>KK Parkar</i>	<i>KK Parkar</i>	27/3/2008	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 1	Rev. 00
CKD BY	PRPD BY	Date		



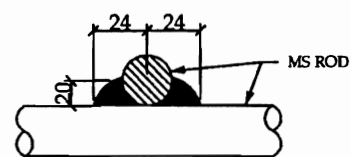
TYPICAL DETAILS OF RISER



ELEVATION  
DETAIL - A



ELEVATION  
DETAIL - B



VIEW - Y

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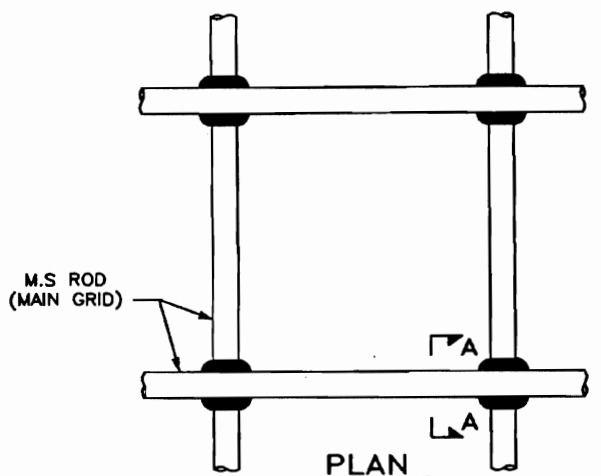
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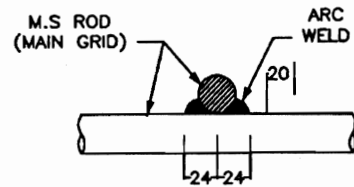
PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

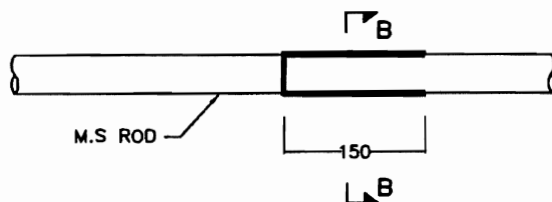
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DETAIL OF CROSS JOINT

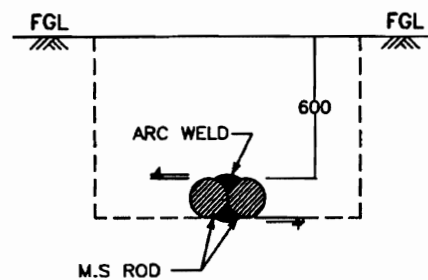


SECTION A - A

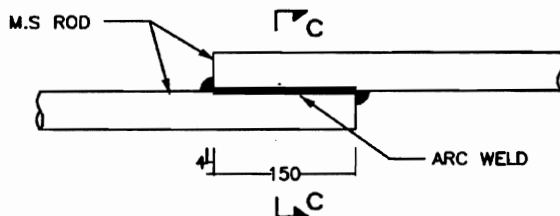


ELEVATION

(CONDUCTORS KEPT ON SIDES)

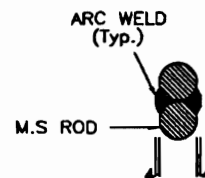


SECTION B - B



ELEVATION

(CONDUCTORS ONE ABOVE THE OTHER)



SECTION C - C

DETAIL OF LAP JOINT

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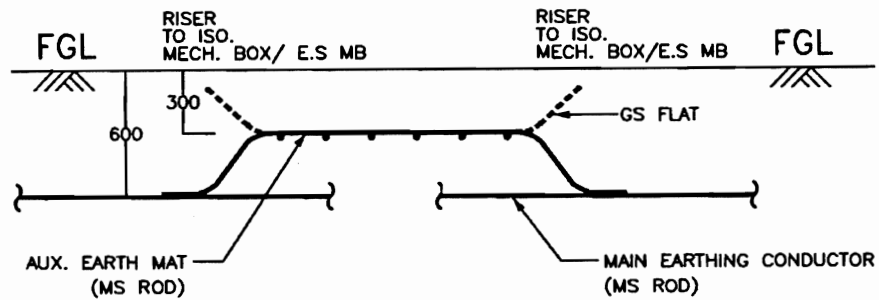


PROJECT :- STANDARD

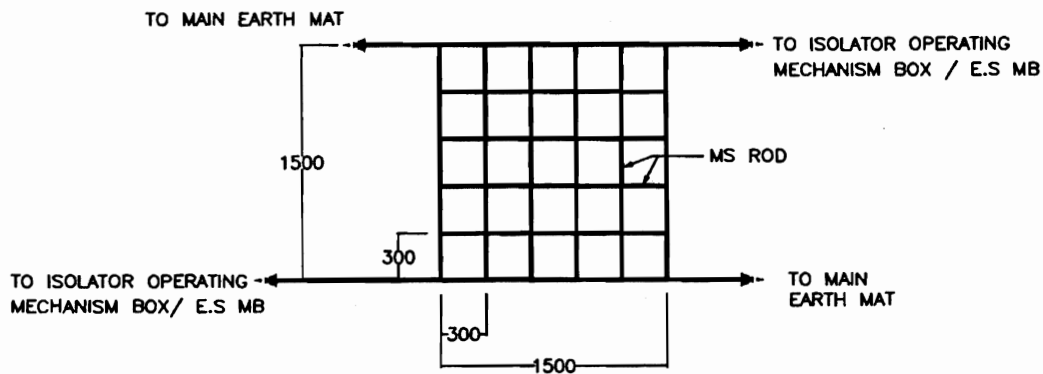
TITLE:- STANDARD EARTHING DETAILS

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## AUXILIARY EARTH MAT



ELEVATION



PLAN

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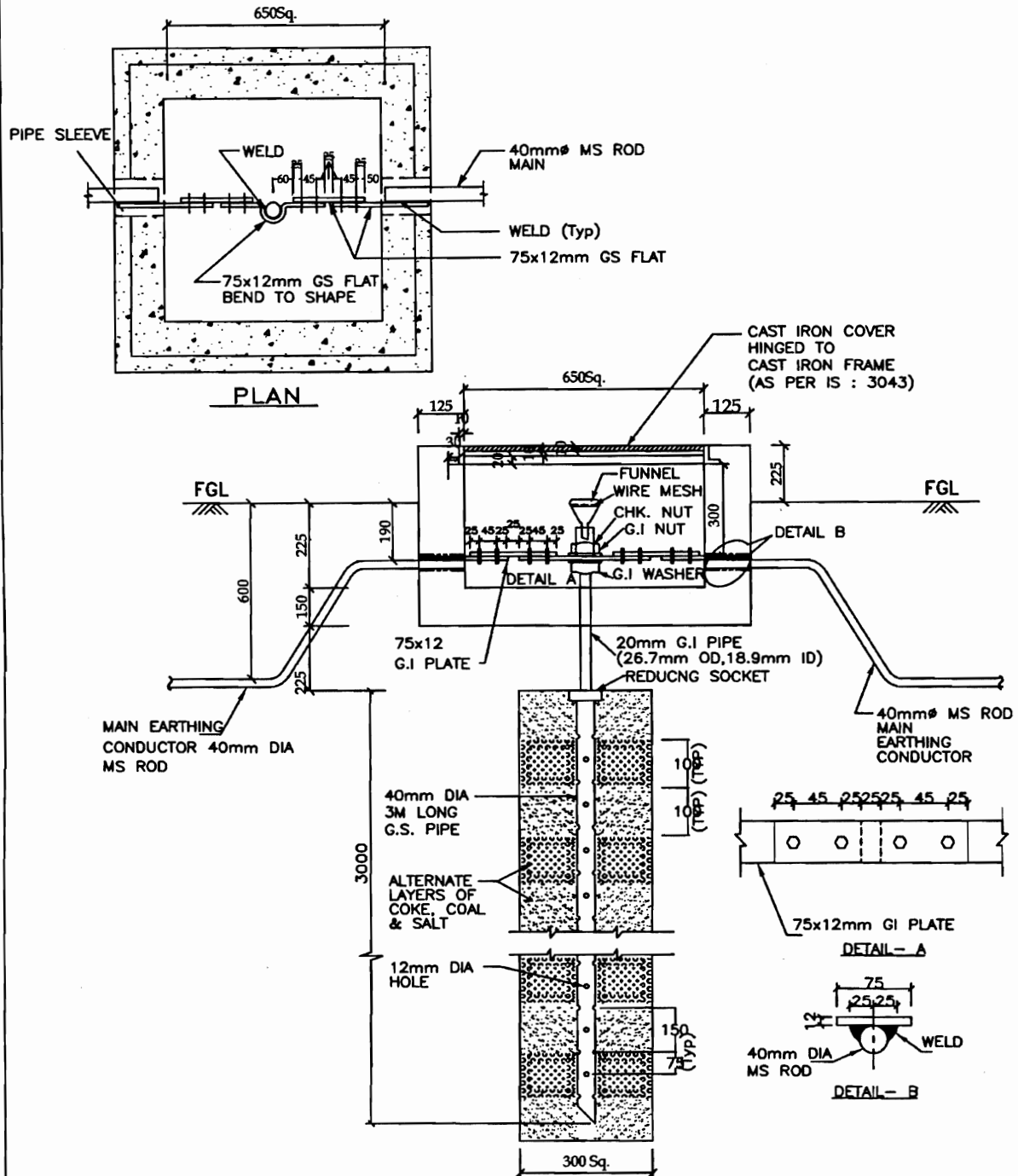


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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JKK/Pradip	JKK/Pradip	27/3/2008		

# PIPE ELECTRODE



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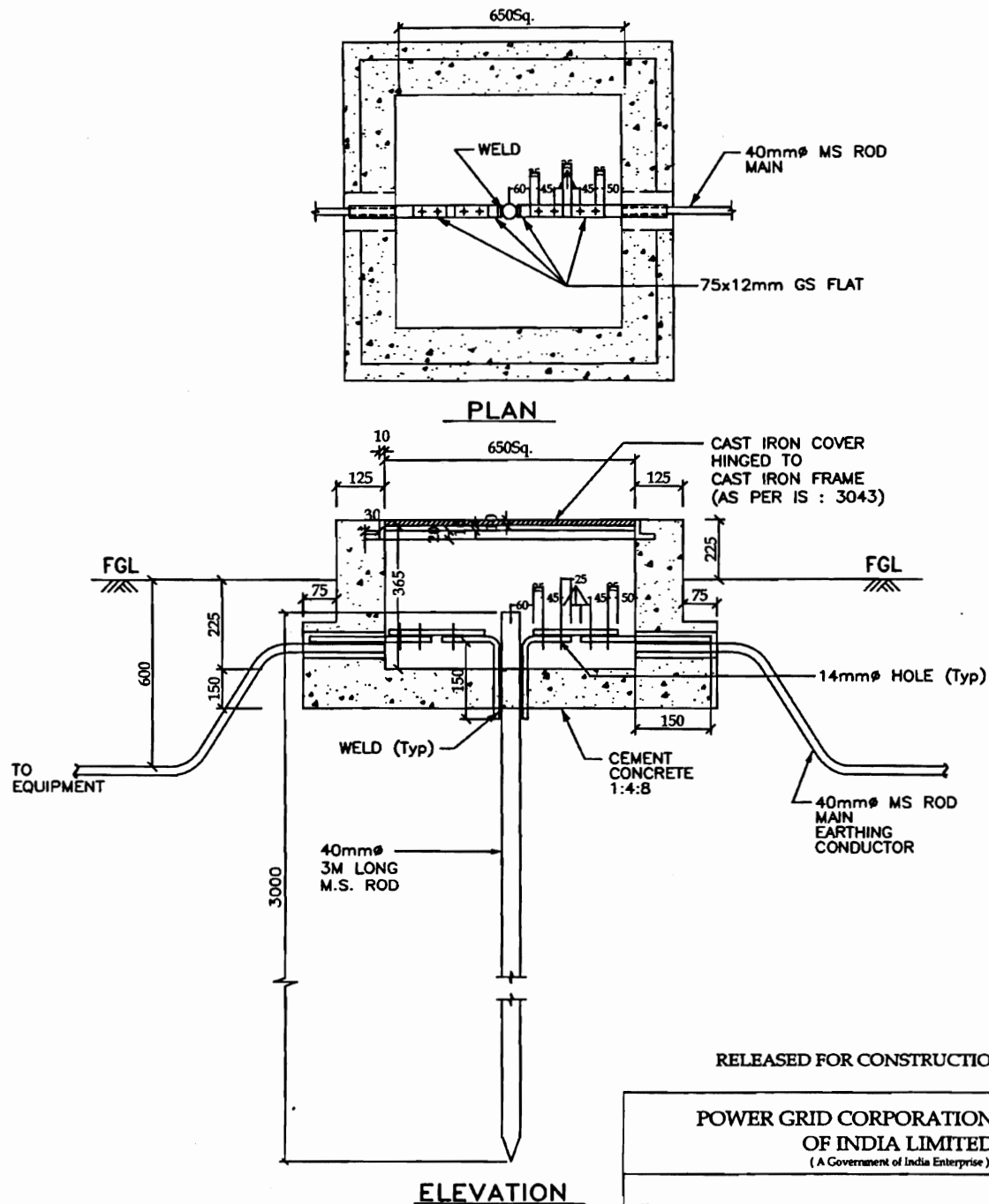
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PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

CKD BY	PRPD BY	Date	Drawing No: C/ENG/STD/EARTHINGS SHEET # 5	Rev. 00
		28/3/2008		

# ROD ELECTRODE WITH TEST LINK FOR LM, TOWER WITH PEAK, CVT, LA



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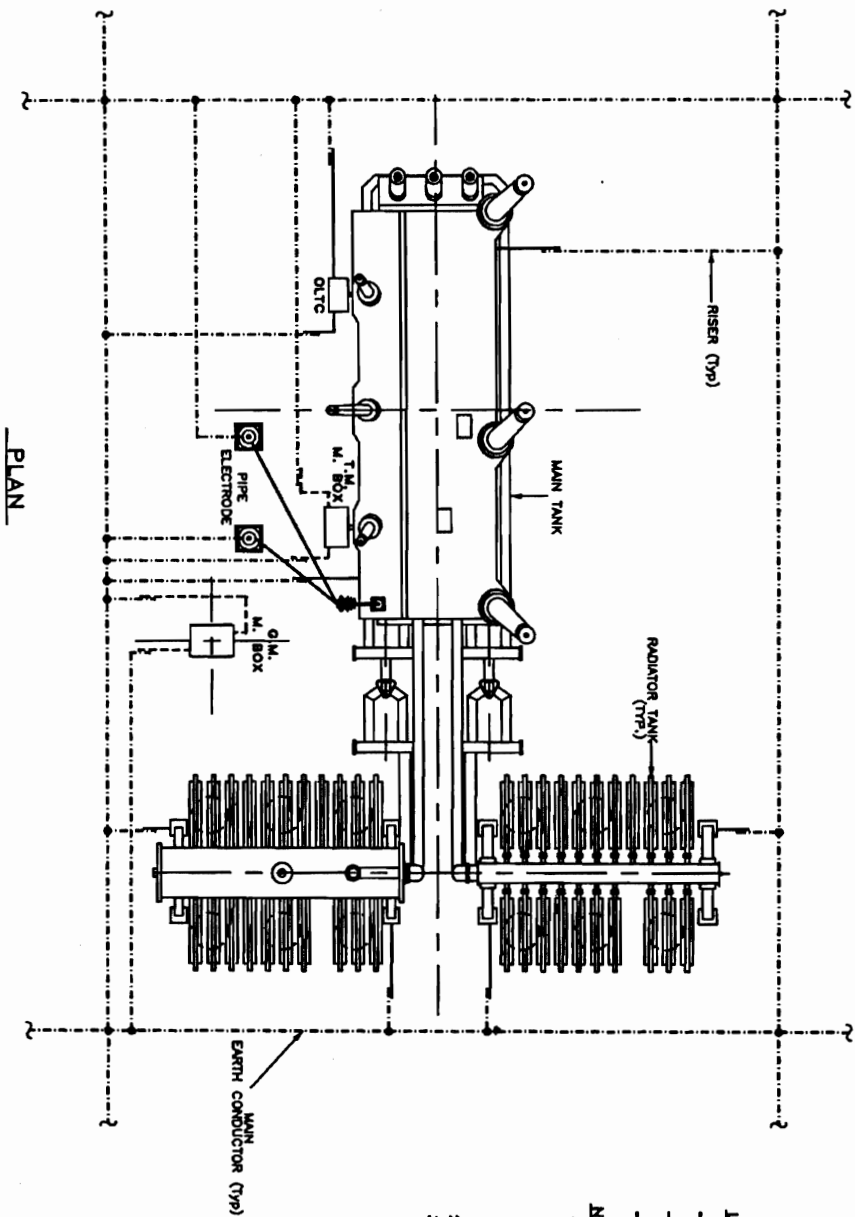


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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# EARTHING OF TRANSFORMER / REACTOR



PLAN

## LEGEND

40mm <sup>2</sup> MS ROD
75 x 12 mm GS FLAT
50 x 6 mm GS FLAT

## NOTES :-

1. No. OF RISERS :-  
 MAIN TANK - 2 Nos.  
 RADIATOR TANK - 4 Nos. (ICT only)  
 O.L.T.C - 2 Nos.  
 M. BOX - 2 Nos./M. BOX  
 NEUTRAL EARTH - 2 Nos.  
 ELECTRODE - 2 Nos.
2. No. OF PIPE ELECTRODE REQUIRED = 2 Nos.
3. Pylon supports shall be earthed to the main earthing conductor by GS FLAT.

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PROJECT :- STANDARD

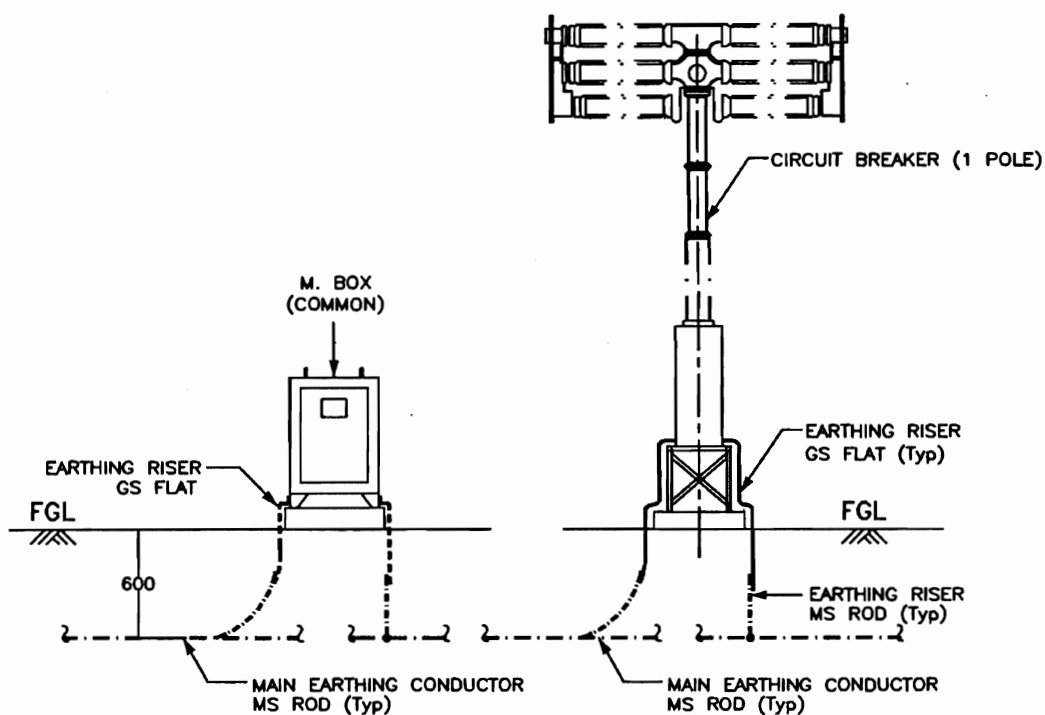
TITLE:- STANDARD EARTHING DETAILS

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		27/3/2008	C/ENG/STD/EARTHINGS	00
			SHEET # 7	





## C



## ELEVATION

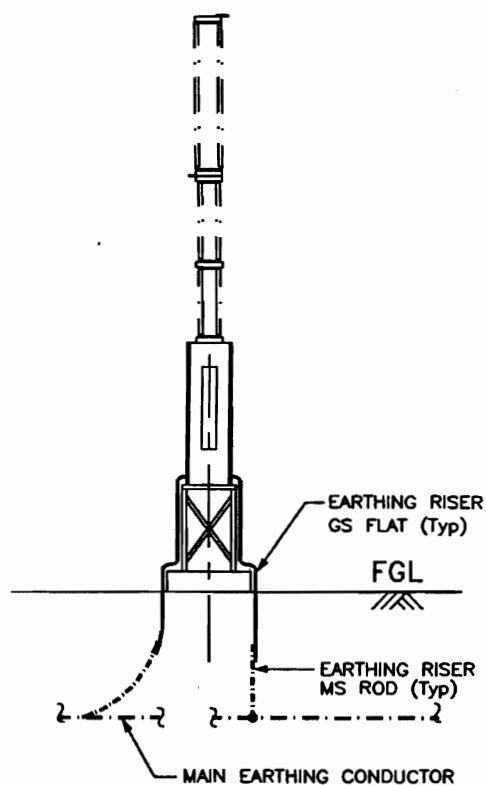
NOTES :-

1. No. OF RISERS FOR CIRCUIT BREAKER = 2 Nos. / PHASE
1. No. OF RISERS FOR LADDER (IF Applicable) = 2 Nos.
2. No. OF RISERS FOR MAR. BOX = 2 Nos.
3. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

### LEGEND

-  40mm $\phi$  MS ROD  
 75 x 12 mm GS FLAT  
 50 x 6 mm GS FLAT

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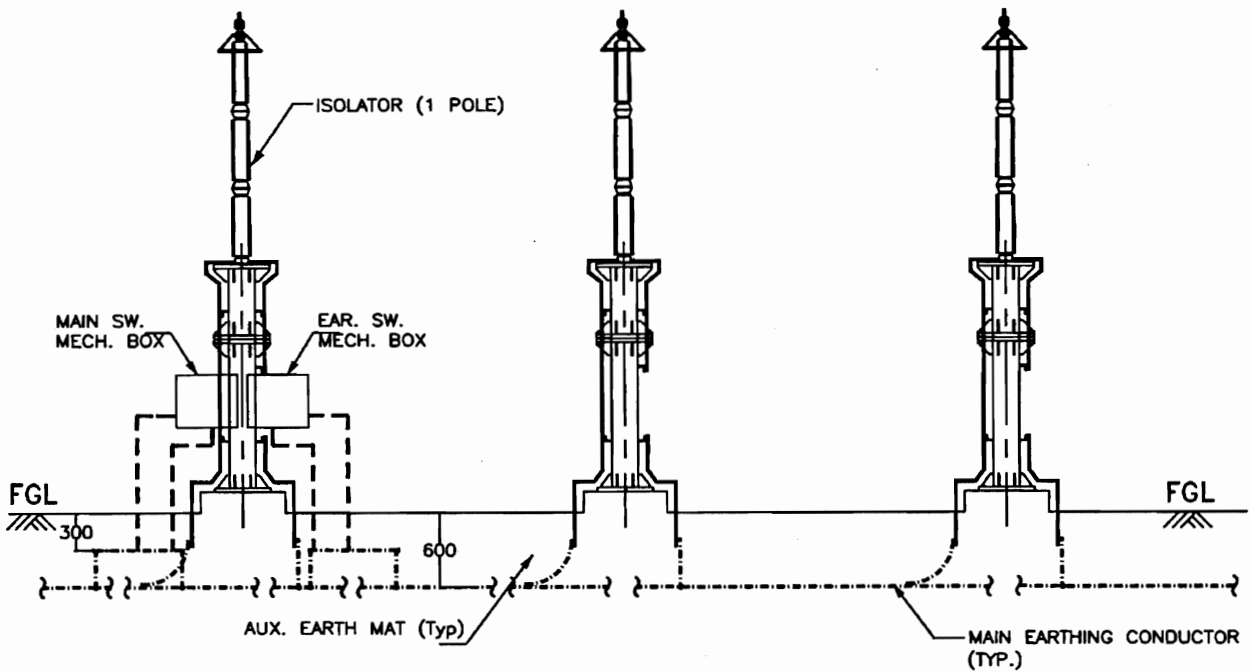
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**PROJECT :- STANDARD**

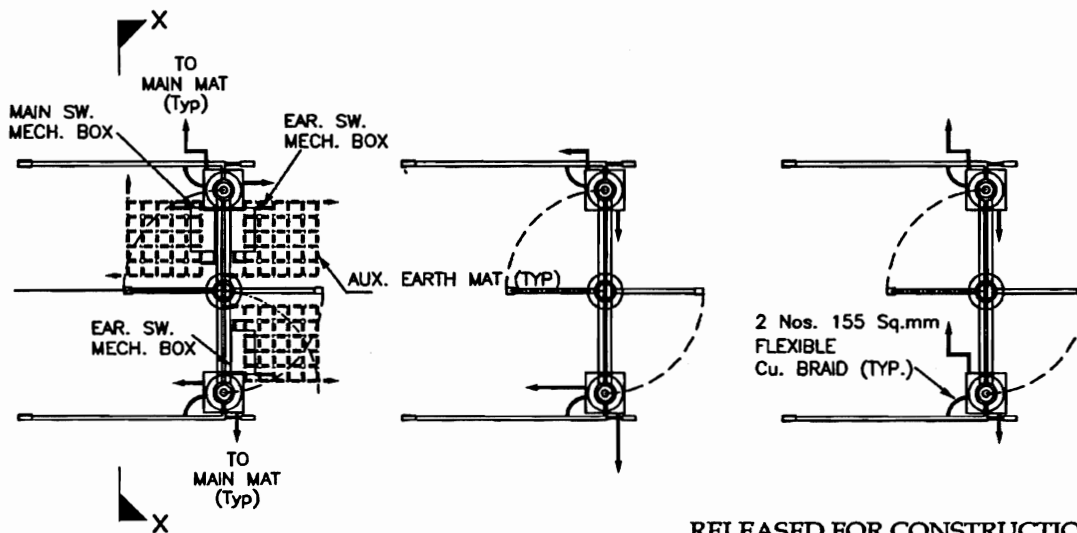
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<i>SKP</i>	<i>SKP</i>	27/3/2008	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 9	Rev. 00
CKD BY	PRPD BY	Date		

## EARTHING OF ISOLATOR



ELEVATION



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PLAN

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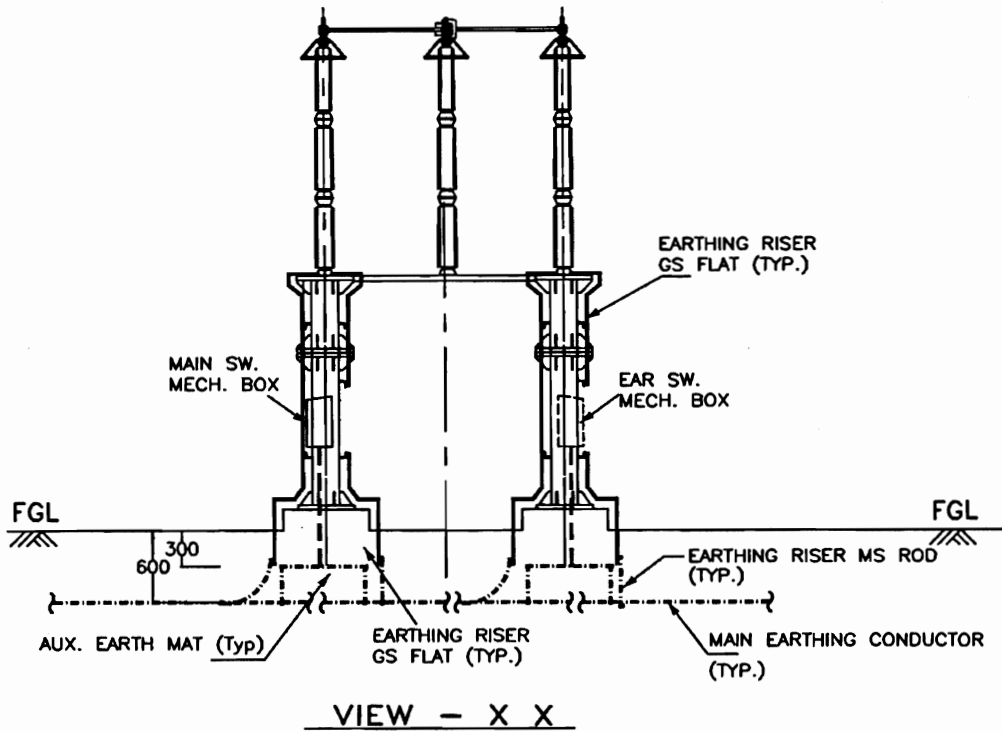


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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## EARTHING OF ISOLATOR (1 PH)



### LEGEND

— · — · — · —	40mm $\phi$ MS ROD
—————	75 x 12 mm GS FLAT
-----	50 x 6 mm GS FLAT

### NOTES :-

1. No. OF RISERS FOR ISOLATOR = 4 Nos. / PHASE.
2. No. OF RISERS FOR MAIN MECH. BOX = 2 Nos.
3. No. OF RISERS FOR EARTH SW. MECH. BOX = 2 Nos. / BOX.
4. No. OF AUXILIARY EARTH MAT = 1 Nos. FOR EACH MB
5. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.
6. NO. OF AUX. EARTH MAT IS INDICATIVE ONLY. IT SHALL BE EXECUTED AS PER ACTUAL NUMBER/POSITION OF EARTH SWITCHES.

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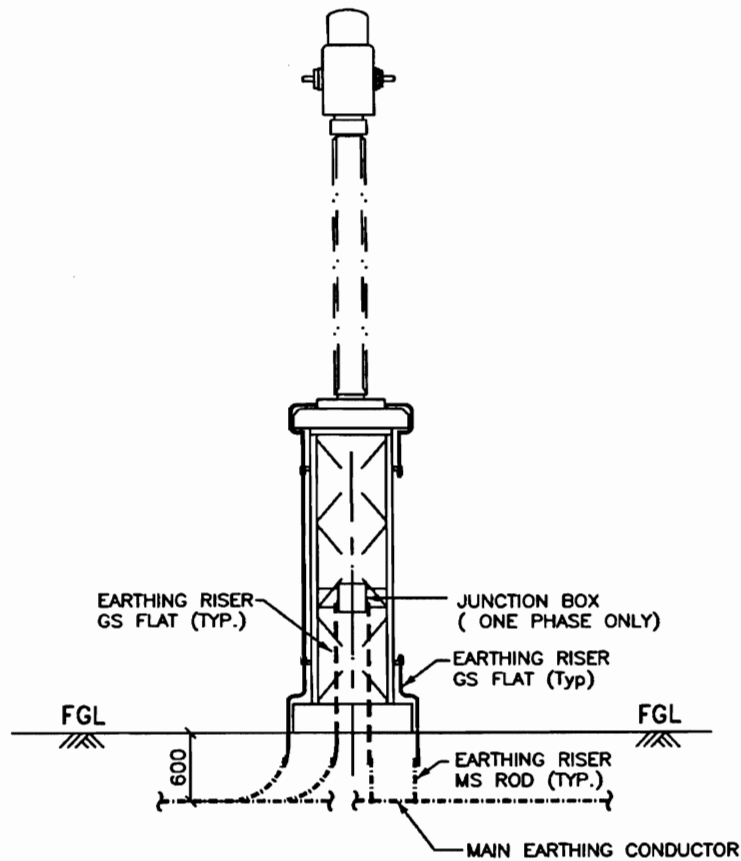


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**TITLE:- STANDARD EARTHING DETAILS**

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		27/3/2008		

## EARTHING OF CURRENT TRANSFORMER (1 PH)



ELEVATION

### LEGEND

— · — · —	40mm $\phi$ MS ROD
————	75 x 12 mm GS FLAT
-----	50 x 6 mm GS FLAT

### NOTES :-

1. No. OF RISERS = 2 Nos. / PHASE.
2. No. OF RISERS FOR JUN. BOX = 2 Nos.
3. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

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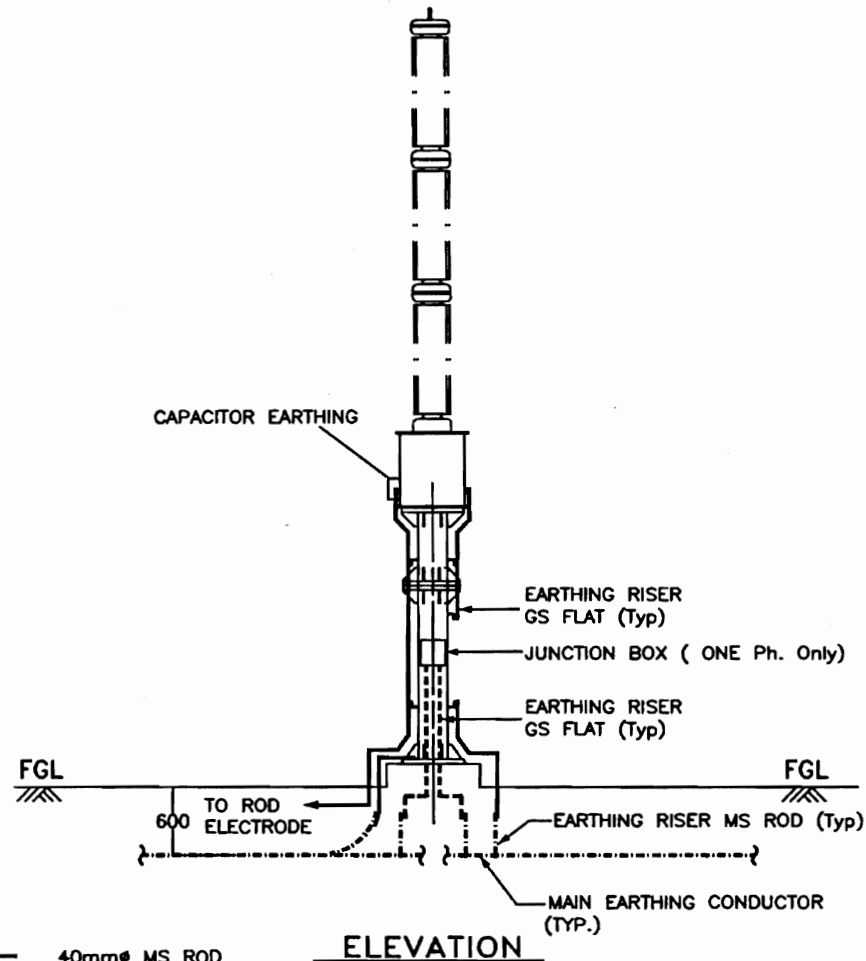


**PROJECT :- STANDARD**

**TITLE:- STANDARD EARTHING DETAILS**

<i>CKD</i>	<i>PRPD</i>	27/3/2008	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 12	Rev. 00
CKD BY	PRPD BY	Date		

## EARTHING OF CAPACITIVE VOLTAGE TRANSFORMER (1 PH)



### LEGEND

- · — · — · — 40mm $\phi$  MS ROD
- 75 x 12 mm GS FLAT
- 50 x 6 mm GS FLAT

### NOTES :-

1. No. OF RISERS = 3 Nos. / PHASE.
2. No. OF RISERS FOR J. BOX = 2 Nos.
3. No. OF ROD ELECTRODE REQUIRED = 1 No. / PHASE.
4. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

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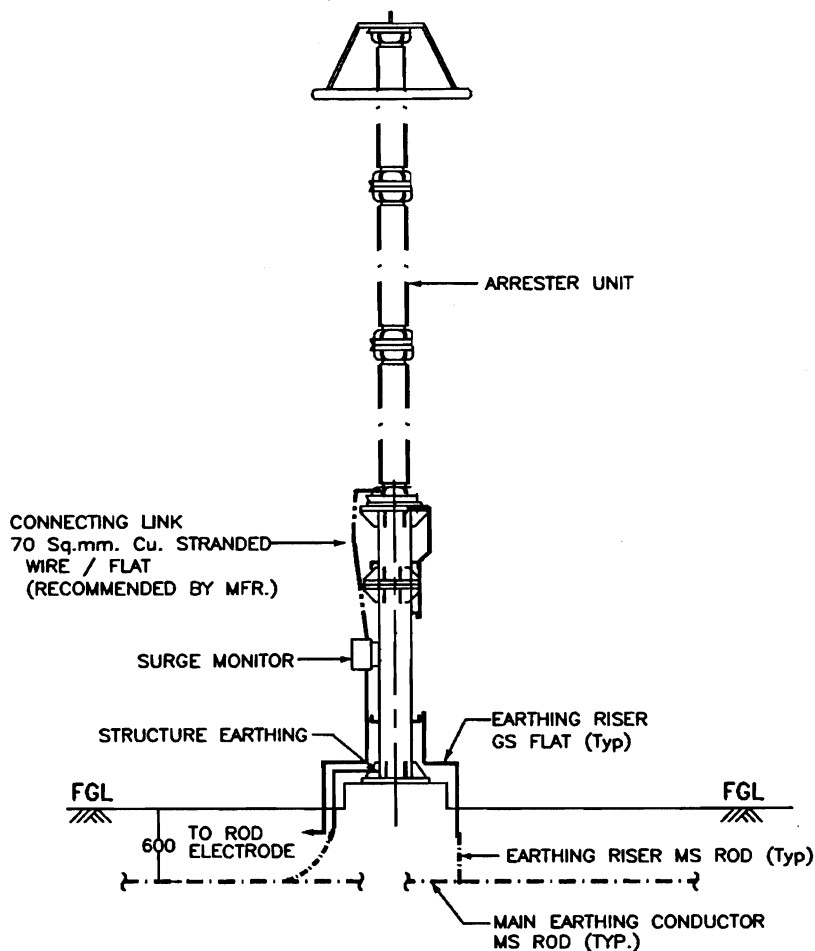


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**TITLE:- STANDARD EARTHING DETAILS**

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JKP/Perkar	JKP/Perkar	27/3/2008		

## EARTHING OF SURGE ARRESTER (1PH)



ELEVATION

### LEGEND

- · — · — 40mm $\phi$  MS ROD
- 75 x 12 mm GS FLAT

### NOTES :-

- 1 . No. OF RISERS = 3 Nos. / PHASE.
- 2 . No. OF ROD ELECTRODE REQUIRED = 1 No. / PHASE.
- 3 . CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

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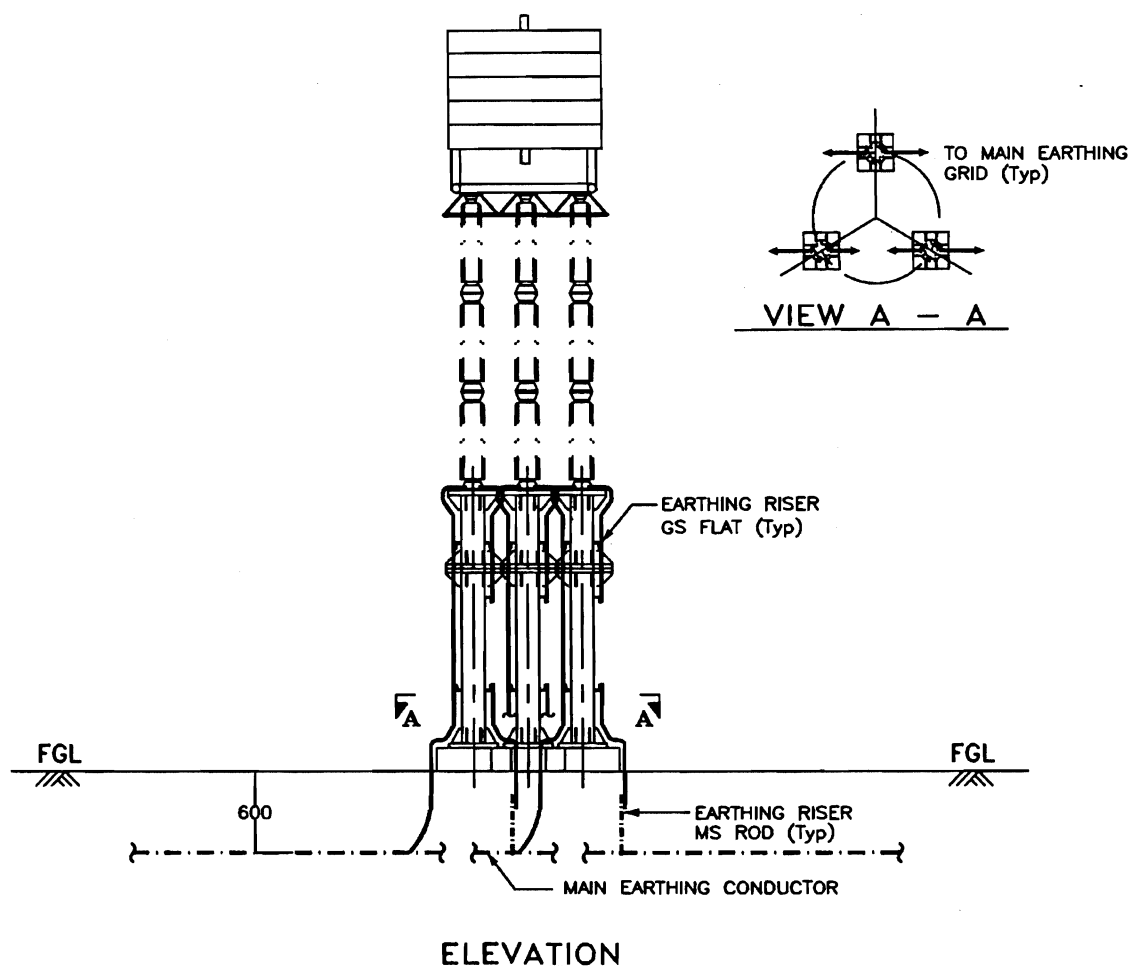
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**PROJECT :- STANDARD**

**TITLE:- STANDARD EARTHING DETAILS**

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		27/3/2008		

## EARTHING OF WAVE TRAP (1PH)



### LEGEND

- 40mm $\phi$  MS ROD  
 75 x 12 mm GS FLAT

### NOTE :-

1. No. OF RISERS = 6 Nos. / PHASE.
2. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

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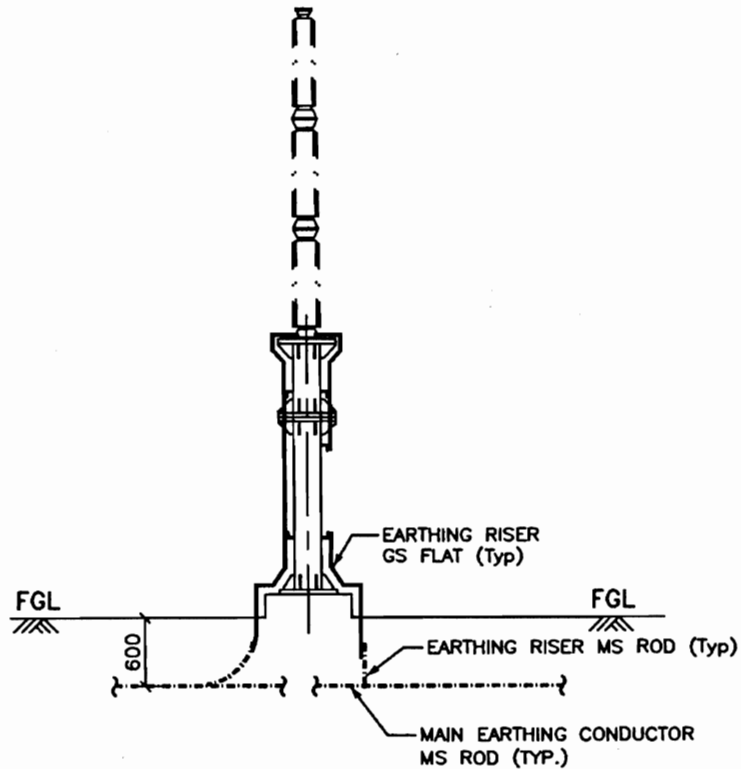
**PROJECT :- STANDARD**

**TITLE:- STANDARD EARTHING DETAILS**

<i>CKD</i>	<i>PRPD</i>	27/3/2008	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 15	Rev. 00
CKD BY	PRPD BY	Date		



## EARTHING OF POST INSULATOR (1PH)



### LEGEND

— · — · — · —	40mm $\phi$ MS ROD
—————	75 x 12 mm GS FLAT

### NOTES :-

1. No. OF RISERS = 2 Nos. / PHASE.
2. CLEAT CLAMP SHALL BE PROVIDED AT 1000mm INTERVAL.

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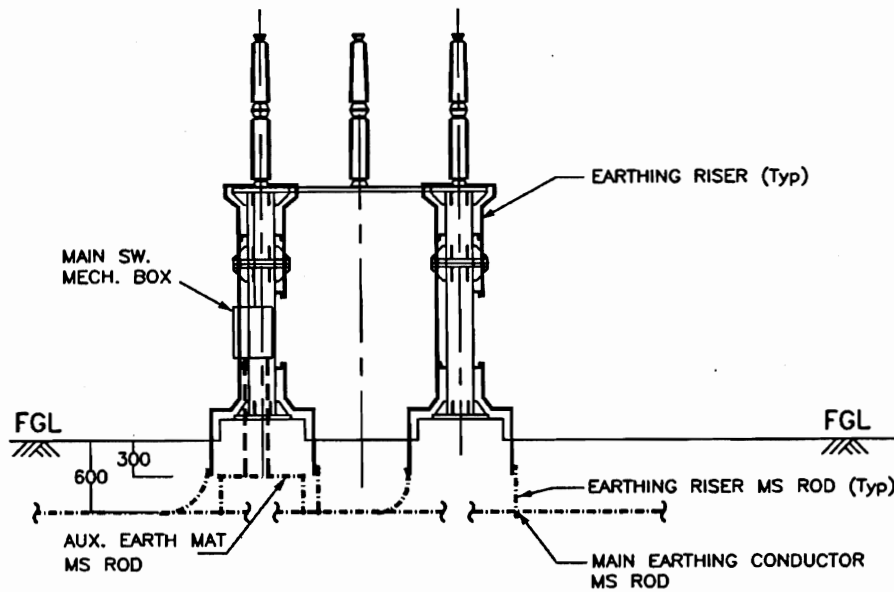


**PROJECT :- STANDARD**

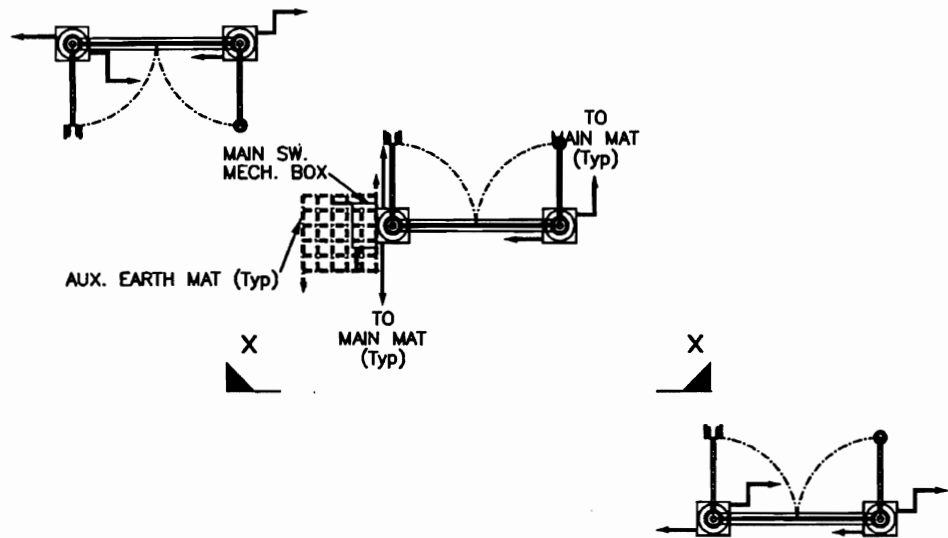
**TITLE:- STANDARD EARTHING DETAILS**

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## TANDEM ISOLATOR



VIEW - X X



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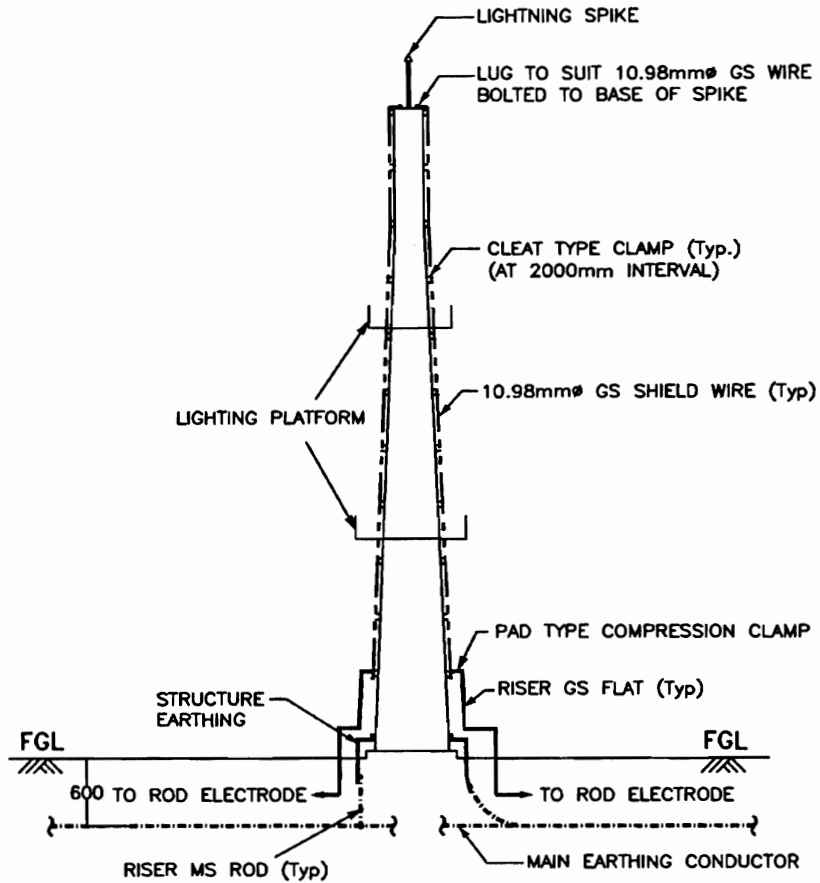


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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JKP/Arshav	JKP/Arshav	27/3/2008		

## EARTHING OF LIGHTNING MAST



### NOTES :-

1. No. OF RISERS = 4 Nos.
2. No. OF ROD ELECTRODE REQUIRED = 2 Nos.
3. No. OF PAD TYPE CLAMP = 2 Nos.

### LEGEND

- · — · — · — · — 40mm $\phi$  MS ROD  
 ————— 75 x 12 mm GS FLAT

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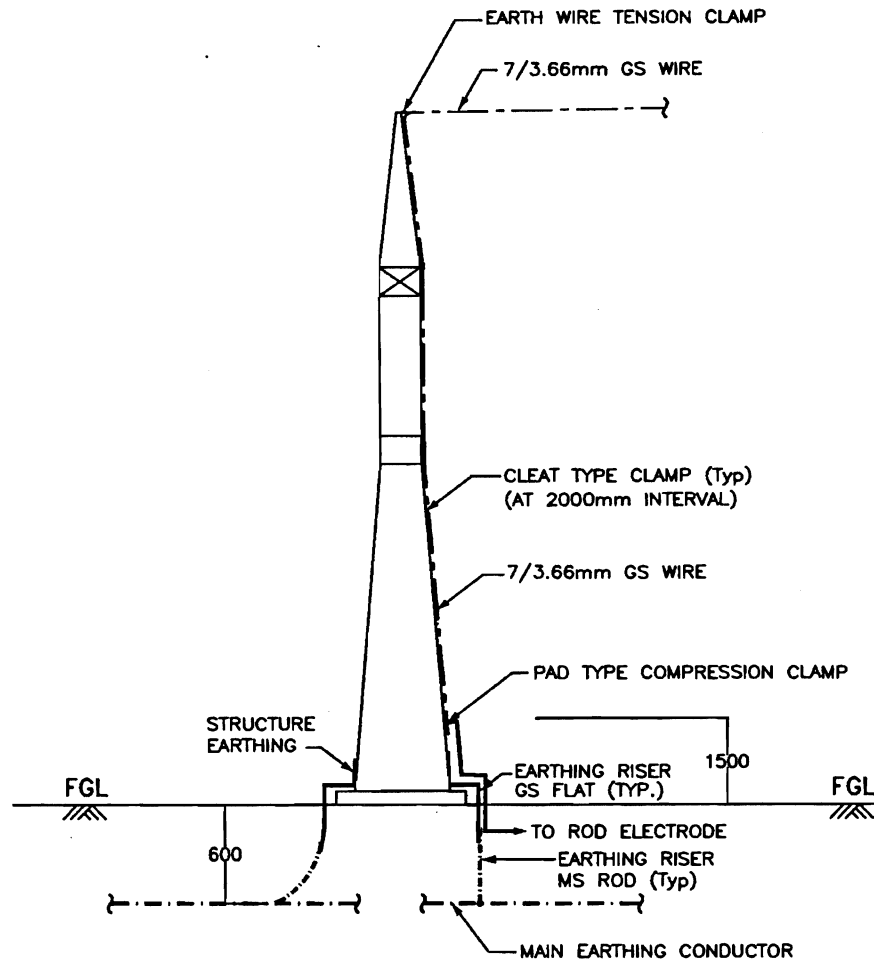


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**TITLE:- STANDARD EARTHING DETAILS**

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## EARTHING OF TOWER WITH PEAK



### ELEVATION

### LEGEND

- - - - - 40mm $\phi$  MS ROD  
 ————— 75 x 12 mm GS FLAT

### NOTES :-

1. No. OF RISERS = 3 Nos.
2. No. OF ROD ELECTRODE REQUIRED = 1 No.
3. No. OF PAD TYPE CLAMP = 1 No.

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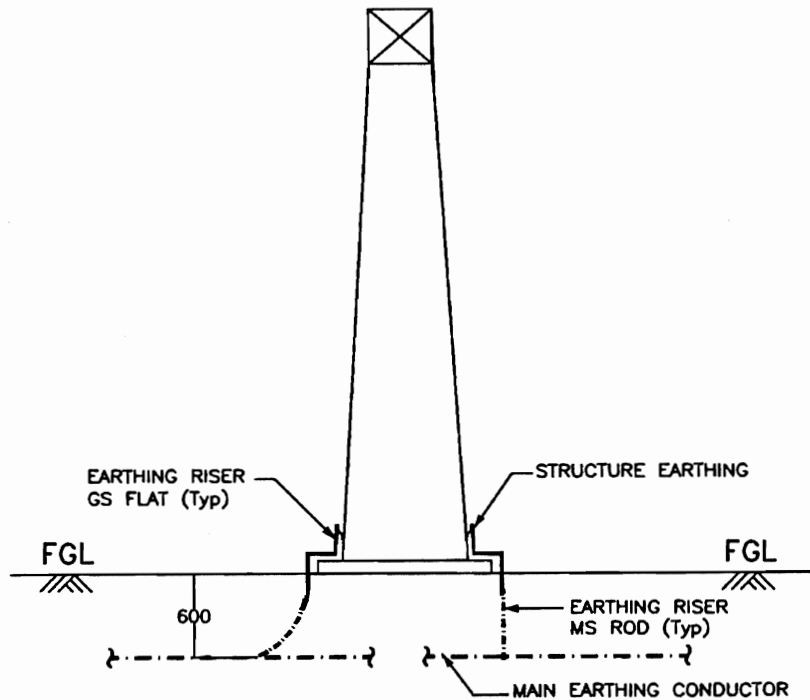


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

CKD BY	PRPD BY	Date	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 19	Rev. 00
JKP/Perkar	JKP/Perkar	27/3/2008		

## EARTHING OF TOWER WITHOUT PEAK



### ELEVATION

#### LEGEND

- · — · — 40mm $\phi$  MS ROD
- 75 x 12 mm GS FLAT

#### NOTES :-

1. No. OF RISERS = 2 Nos.

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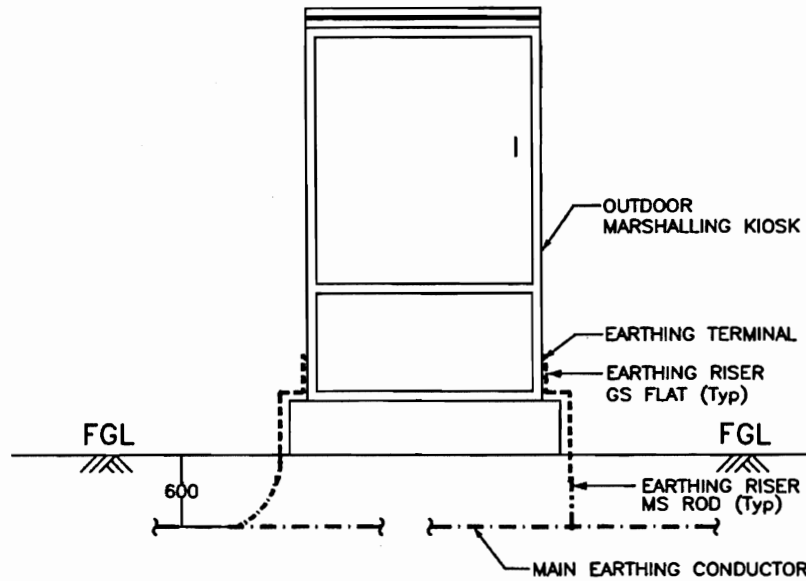


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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## EARTHING OF BAY MARSHALLING BOX



### ELEVATION

#### LEGEND

— · — · —	40mm $\phi$ MS ROD
—————	75 x 12 mm GS FLAT
-----	50 x 6 mm GS FLAT

#### NOTE :-

1. No. OF RISERS = 2 Nos.

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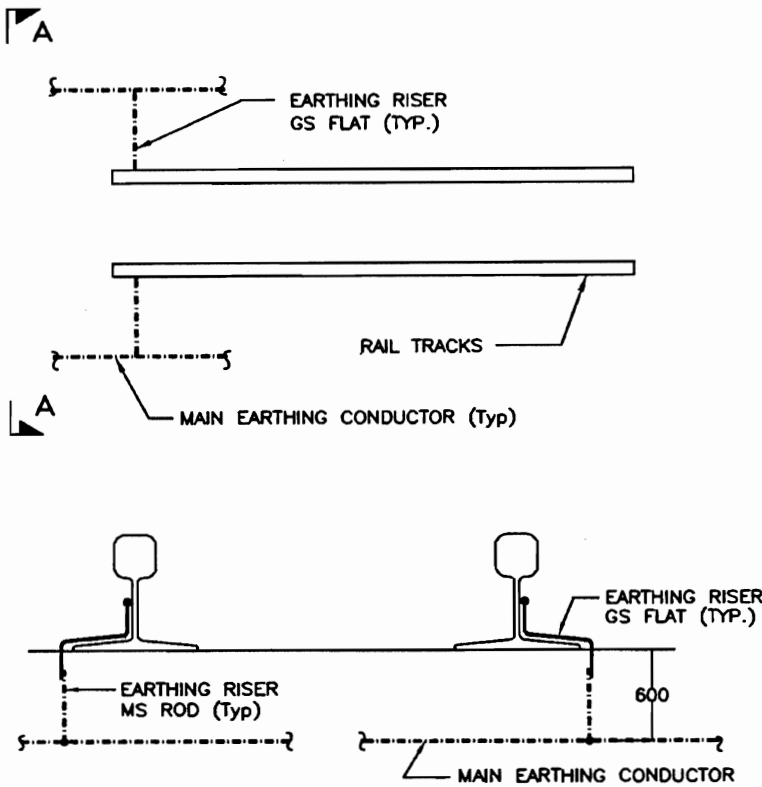


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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		27/3/2008		

## EARTHING OF RAIL TRACK



**SECTION A - A**

**LEGEND**

— · — · — 40mm MS ROD  
— 75 x 12 mm GS FLAT

NOTES :-

1. EACH RAIL SHALL BE EARTHED AT 30M INTERVAL AND ALSO AT BOTH ENDS.

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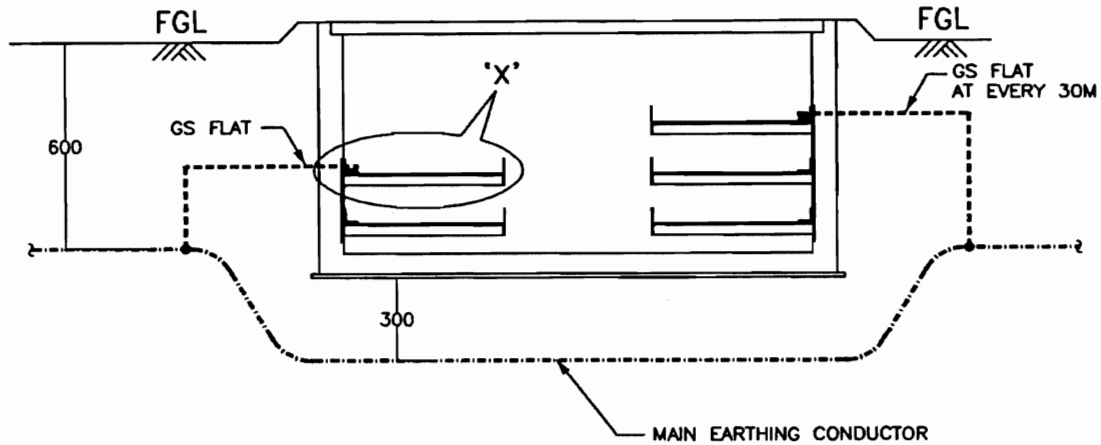


**PROJECT :- STANDARD**

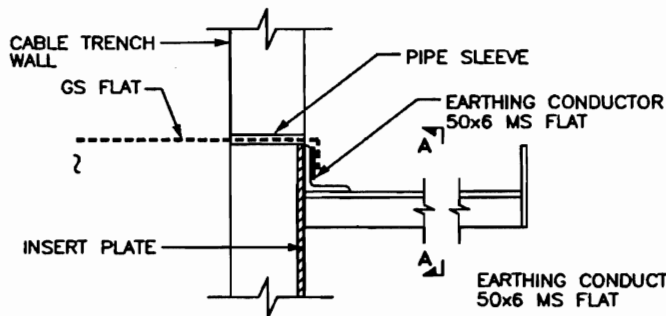
**TITLE:- STANDARD EARTHING DETAILS**

<i>KKParker</i>	<i>KKParker</i>	27/3/2008	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 22	Rev. 00
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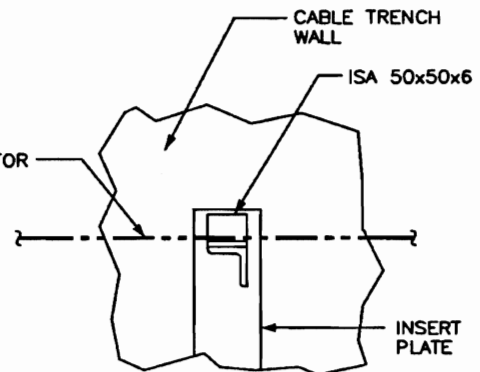
## EARTHING OF CABLE TRENCH



## TYPICAL CROSS SECTION OF CABLE TRENCH



DETAIL - X



SECTION A - A

### NOTES :-

1. MS FLAT SHALL RUN ON TOP TIER ALL ALONG THE CABLE TRENCHES & WELDED TO EACH OF THE RACKS.
2. MS FLAT SHALL BE EARTHED AT 30M INTERVAL AND ALSO AT BOTH ENDS.

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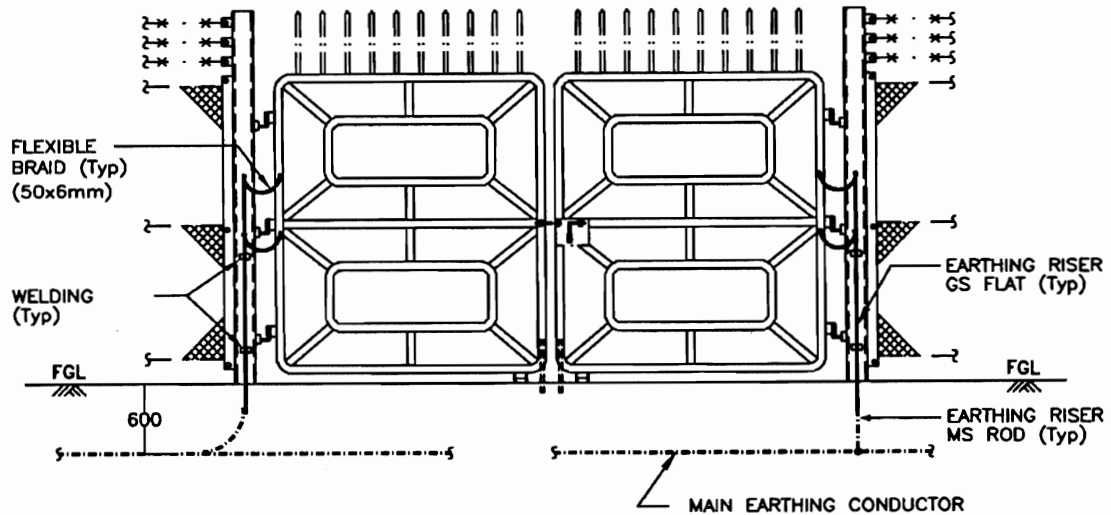
PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

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		27/3/2008		



## EARTHING OF GATES & FENCE



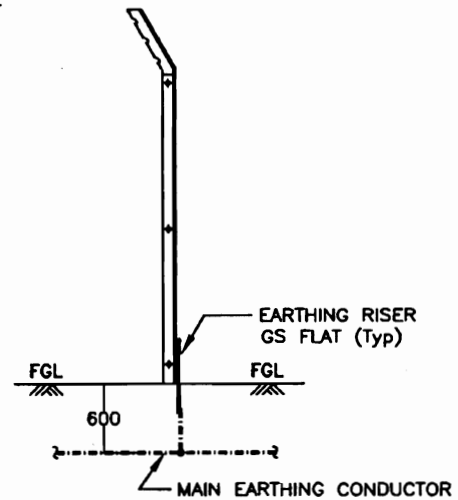
### MAIN GATE

#### LEGEND

— · — · — · —	40mm $\phi$ MS ROD
—————	75 x 12 mm GS FLAT
-----	50 x 6 mm MS FLAT

#### NOTES :-

	FENCE POST	MAIN GATE
1 . No. OF RISERS REQUIRED	1	2
2 . No. OF FLEXIBLE BRAID	-	4
3. ALL GATES SHALL BE CONNECTED TO EARTHING GRID.		
4. EVERY ALTERNATE FENCE SHALL BE CONNECTED TO EARTHING GRID.		



### FENCE POST (ALTERNATE FENCE POST)

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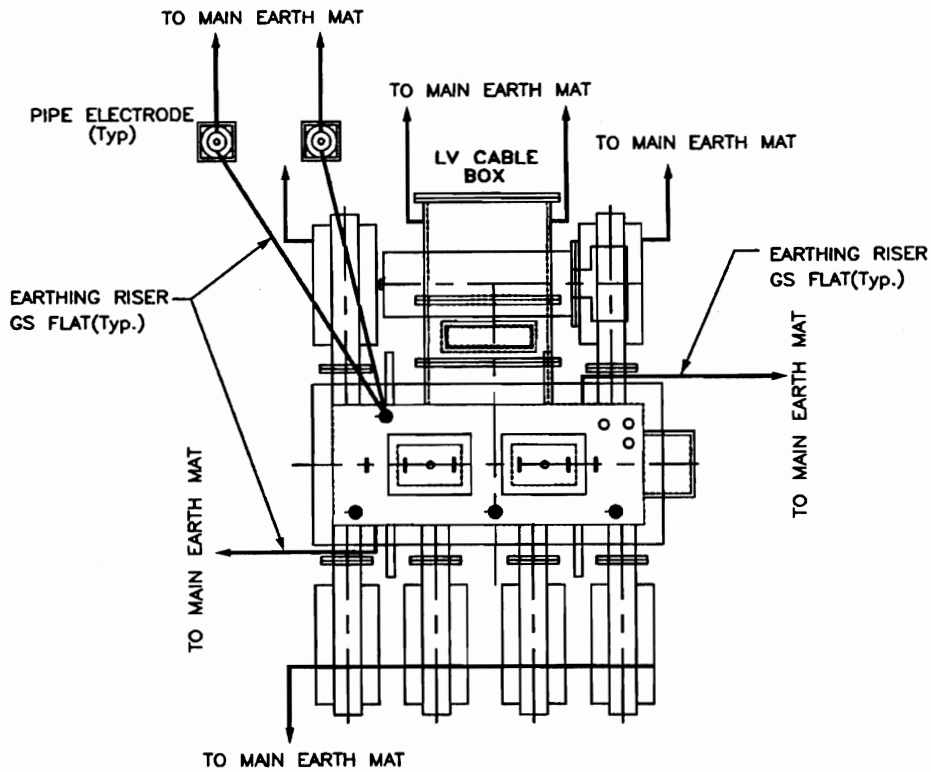


**PROJECT :- STANDARD**

**TITLE:- STANDARD EARTHING DETAILS**

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SKK/Parhar	SKK/Parhar	27/3/2008		

## EARTHING OF LT TRANSFORMER



### PLAN

#### LEGEND

— · — · —	40mm $\phi$ MS ROD
—————	75 x 12 mm GS FLAT
-----	50 x 6 mm GS FLAT

#### NOTES :-

1. No. OF RISERS FOR MAIN TANK & T.M. MAR. BOX = 4 Nos.
2. No. OF RISERS FOR LV CABLE BOX & RADIATOR = 4 Nos.
3. No. OF RISERS FOR PIPE ELECTRODE = 2 Nos.
4. No. OF PIPE ELECTRODES REQUIRED = 2 Nos.

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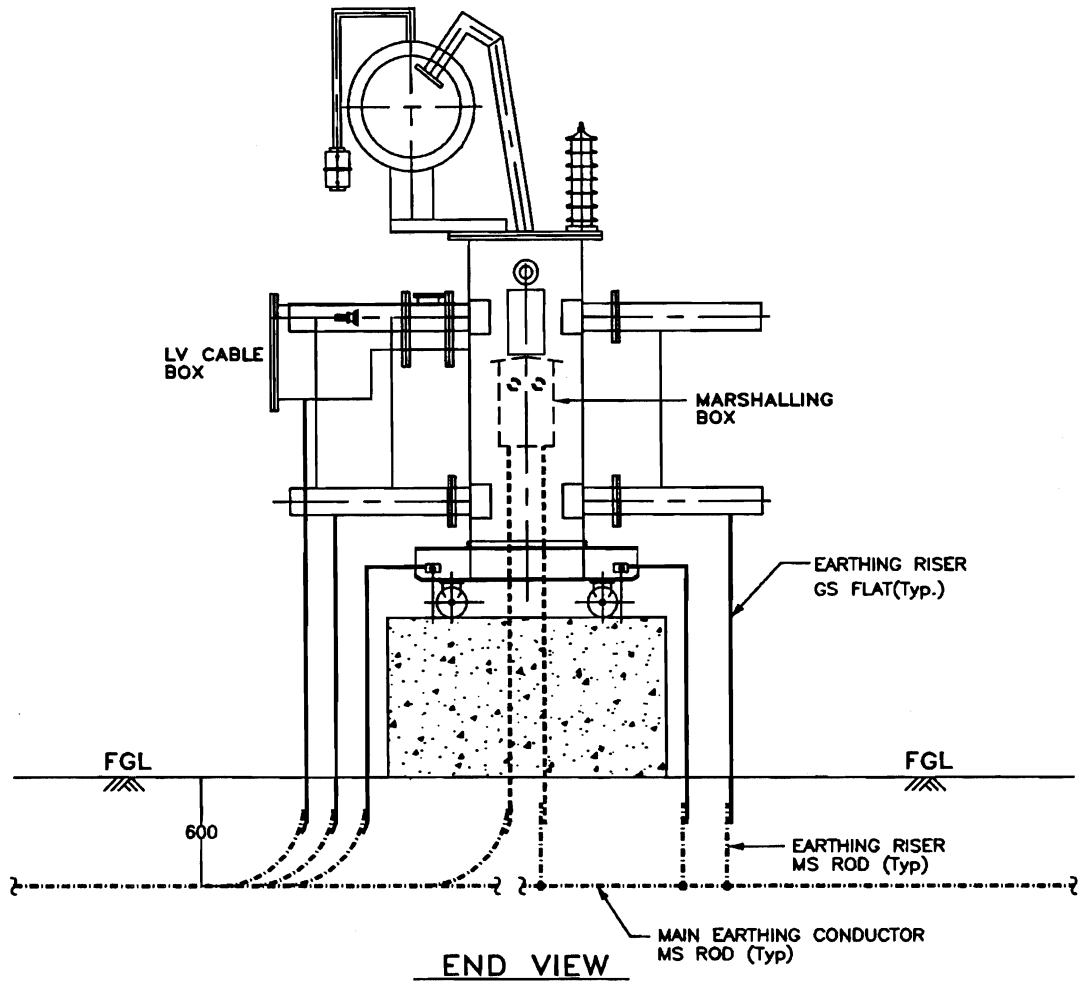


PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

CKD BY	PRPD BY	Date	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 25	Rev. 00
		27/3/2008		

## EARTHING OF LT TRANSFORMER



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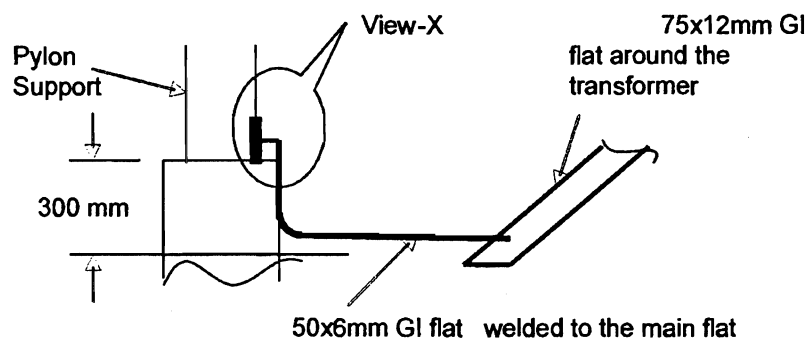
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TITLE:- STANDARD EARTHING DETAILS

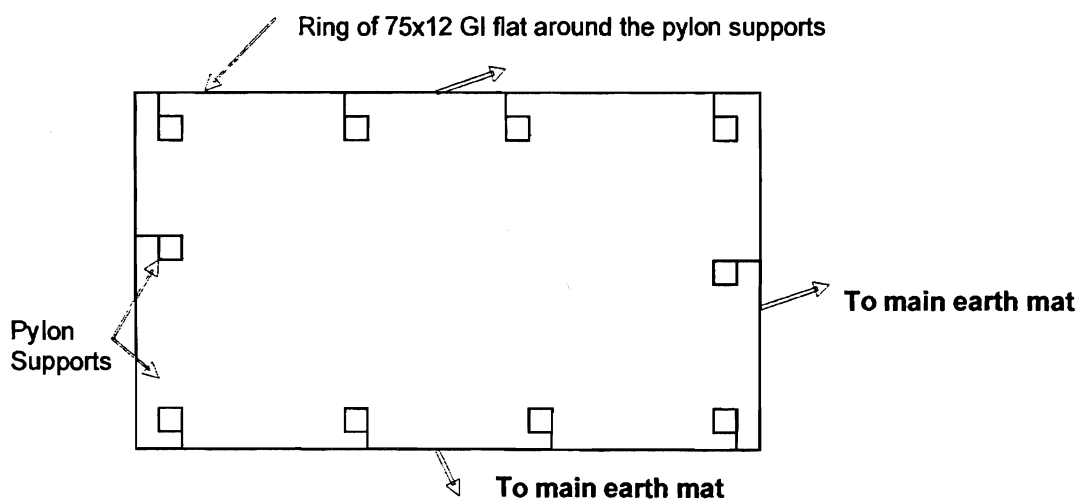
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## EARTHING OF PYLON SUPPORTS

Pylon supports shall be grounded through 50x6mm GI flat to the ring around the Pylon supports of 75x12mm GI flat which in turn is connected to the main grid (40 mm dia MS rod) at 2 to 3 points as available.



**Fig.- Elevation (Earthing of Pylon Supports)**



**Fig.- Layout (Earthing of Pylon Supports)**

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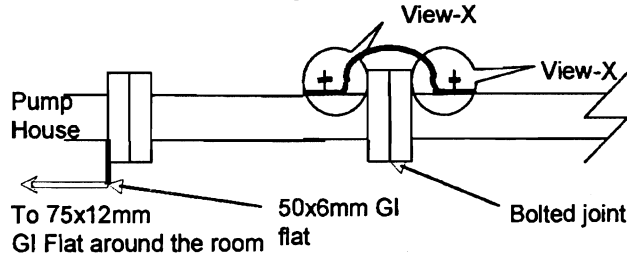
**PROJECT :- STANDARD**

**TITLE:- STANDARD EARTHING DETAILS**

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SKP/Perkar	SKP/Perkar	27/3/2008		

## EARTHING OF HYDRANT/ HVW SPRAY PIPING

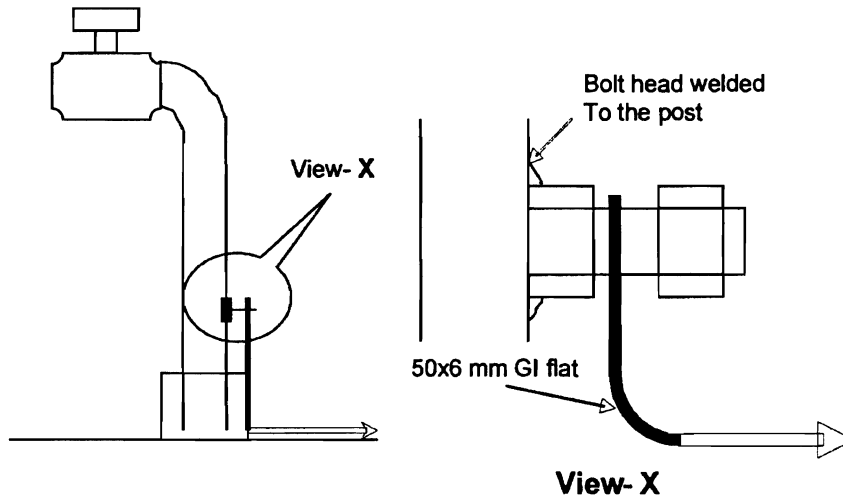
These pipes shall be grounded at pump house through 50x6mm GI flat connected to the main flat, 75x12mm running around the room.



**Fig.-Earthing of Hydrant / HVW Spray Piping**

## EARTHING OF HYDRANT POST/ HOSE BOX

A bolt shall be welded to these structures at the time of installation which can be used to connect them to the nearest riser or main 75x12mm GI flat through 50x6mm GI flat.



**Fig.- Earthing of hydrant box / hose box**

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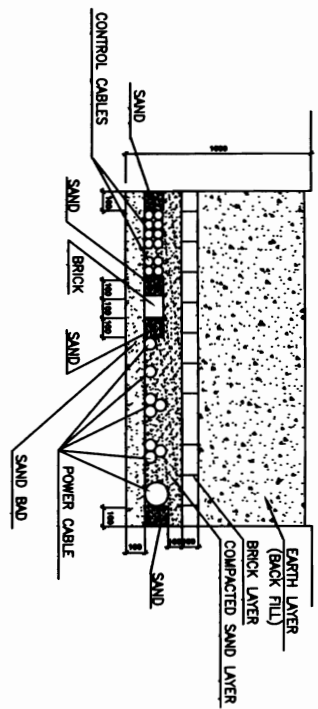
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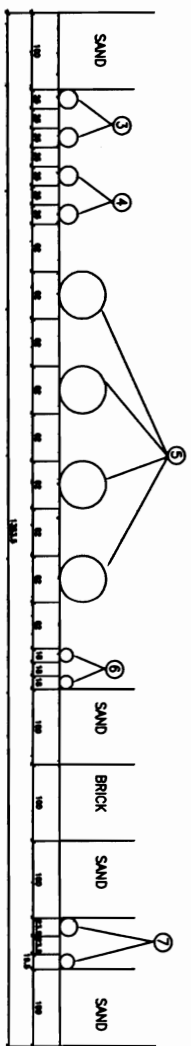
PROJECT :- STANDARD

TITLE:- STANDARD EARTHING DETAILS

CKD BY	PRPD BY	Date	Drawing No.: C/ENG/STD/EARTHINGS SHEET # 28	Rev. 00
JKP/Prashar	JKP/Prashar	27/3/2008		



TYPICAL BURIED CABLE TRENCH



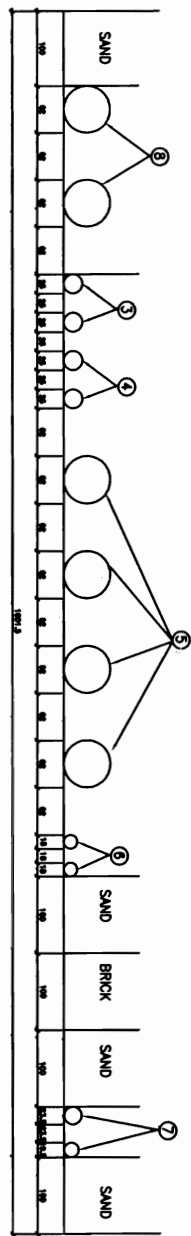
SECTION F-F  
SCALE 1:4

TABLE 1

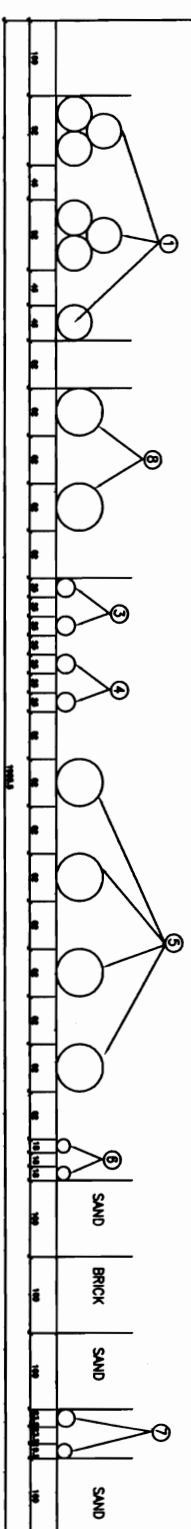
SL. NO.	FROM	TO	CABLE TYPE DESCRIPTION	SECTION	REMARKS
1	630 KVA TRANSFORMER	415V MAIN SWITCH BOARD	(2X3C+1CX630 SQ. MM XLPE AL)	A-A	POWER CABLE
2	800 KVA TRANSFORMER	415V MAIN SWITCH BOARD	(3X3C+2CX630 SQ. MM XLPE AL)	D-D	POWER CABLE
3	JOCKEY PUMP	415V ACDB	(1.5CX35 SQ. MM PVC AL)X2	F-F	POWER CABLE
4	FF ACDB	415V ACDB	(1.5CX35 SQ. MM PVC AL)X2	F-F	POWER CABLE
5	H/W MOTOR	415V MAIN SWITCH BOARD	(2X3.5CX300 SQ. MM XLPE AL)X2	F-F	POWER CABLE
6	FF ANNUNCIATION PANEL (FF ROOM)	220V DCDB	(2CX8 SQ. MM PVC AL)X2	F-F	POWER CABLE
7	FF ANNUNCIATION PANEL (FF ROOM)	FF ALARM PANEL (CONTROL ROOM)	(1X10CX2.5 SQ. MM + 1X5CX12.5 SQ. MM PVC CU)	F-F	CONTROL CABLE
8	DO SET	415V ACDB	(2X3.5CX300 SQ. MM XLPE AL)	E-E	POWER CABLE

NOTE:-

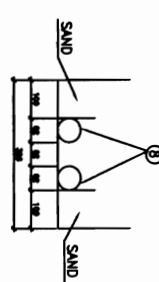
1. ALL DIMENSIONS ARE IN MM.
2. THE CABLES (POWER & CONTROL) BETWEEN LT STATION, CONTROL ROOM, BURIED CABLE TRENCHES.
3. FOR LIGHTING PURPOSE BURIED CABLE TRENCH SHALL BE USED IN OUTDOOR AREA (IN ILLUMINATION SCOPE).
4. CABLE ROUTE & JOINT MARKER & R/C WARNING COVER SHALL BE PROVIDED WHEREVER REQUIRED.
5. SINGLE CORE CABLE IN TRENCH FORMATION SHALL BE LAID WITH A DISTANCE OF 3 TIMES THE DIAMETER OF CABLE BETWEEN TRENCH CENTER LINE.
6. ALL POWER CABLE SHALL BE LAID WITH A MINIMUM CENTER TO CENTER DISTANCE EQUAL TO TWICE THE DIAMETER OF THE CABLES OF HIGHER SIZE OF CABLES.
7. TRENCH CLAMPS FOR SINGLE CORE CABLE SHALL BE REQUIRED AT EVERY 2 METER OF CABLE RUNS.



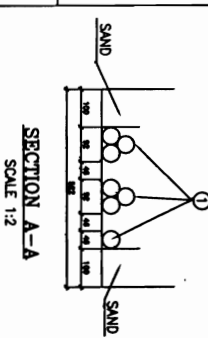
SECTION B-B (SEC. F-F + SEC. E-E)  
SCALE 1:4



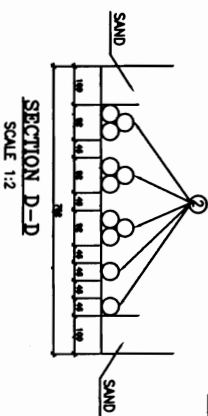
SECTION C-C (SEC. B-B + SEC. A-A)  
SCALE 1:4



SECTION E-E  
SCALE 1:2



SECTION A-A  
SCALE 1:2



SECTION D-D  
SCALE 1:2

REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
ZONE		CHECKED	ZONE		CHECKED	ZONE		CHECKED	ZONE		CHECKED
		APPROVED			APPROVED			APPROVED			APPROVED

ADDITIONAL INFORMATION	STATUS OF DRAWING	DISTRIBUTION OF PRINTS
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NAME OF CUSTOMER/PROJECT  
Bharat Heavy Electricals Ltd.  
TRANSMISSION PROJECTS DIVISION  
SCALE 1:20  
DATE 4/22  
SHEET NO. 1  
TOTAL SHEETS 1

BURIED CABLE TRENCH

FOR TENDER PURPOSE  
00

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