

INVENTORY No.		SIGN. & DATE		REF. DRG. No.		COMPUTER DRG. PATH NAME :		COPY RIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED It must not be used directly or indirectly in anyway detrimental to the interest of the company.			
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GROUNDING CONDUCTOR DETAILS :-

Sl. No.	DESCRIPTION	CONDUCTOR DETAILS
a)	MAIN GROUNDING CONDUCTOR	40mm ϕ MS ROD
b)	SUB / AUXILIARY GROUND MAT CONDUCTOR	40mm ϕ MS ROD
c)	GROUNDING RISERS ABOVE GROUND LEVEL	75 x 12 mm GS FLAT
d)	GROUNDING CONDUCTOR ALONG CABLE TRENCHES.	50 x 6 mm MS FLAT

SIZE OF GI FLATS	USAGE
75 x 12 MM GI FLAT	1. EQUIPMENT EARTHING FOR SWITCHYARD EQUIPMENTS FOR 220KV EQUIPMENTS 2. ALL STRUCTURES, TOWERS IN 220KV SWITCHYARDS & TRANSFORMER YARD
50 x 6 MM GI FLAT	1. OUTDOOR MOUNTED MK, JB, CVT BOX, CB – CONTROL CABINET, ISOLATOR OPERATING BOX 2. OUTDOOR MOUNTED LIGHTING PANELS 3. BATTERY CHARGER 4. LT SWITCHGEAR PANELS 5. CONTROL & REALAY PANELS, ACDB, DCDB, LDB, MCC, PCC ETC. 6. 33 KV SWITCHGEAR PANELS 7. OTHER PANELS MOUNTED INSIDE CONTROL ROOM 8. CABLE TRAYS
8 SWG GI WIRE	1. JUNCTION BOX, PUSH BUTTON STATIONS

GENERAL NOTES:

- 1 EARTH STRIP CLEATED TO LATTICE /PIPE TYPE STRUCTURE AT AN INTERVAL OF 1.0M SUITABLE PROVISION SHALL BE MADE WITH SUPPORT STRUCTURE.
- 2 ALL EARTH STRIPS SHALL BE TAKEN ALONG EDGE OF STRUCTURE. ALL DRAWING SHOWS TYPICAL ARRANGEMENT ONLY.
- 3 ALL STRUCTURES/EQUIPMENTS SHALL BE EARTHED AS SHOWN IN THE FOLLOWING SHEETS.
- 4 BOLT SIZE FOR CONNECTING EARTHING FLAT TO THE EQPT/STRUCTURE SHALL BE TO SUIT RESPECTIVE HOLE SIZE.
- 5 ALL EARTHING SHALL BE DONE IN ACCORDANCE WITH IS:3034 UNLESS OTHERWISE STATED IN TECHNICAL SPECIFICATION
- 6 ONLY ONE EARTHING STRIPS SHALL BE CONNECTED TO ONE RISER.
- 7 EACH RISER OF A PARTICULAR EQUIPMENT SHALL BE CONNECTED TO A DIFFERENT EARTHROD
- 8 FOR WELDING DETAILS REFER RESPECTIVE SHEETS
- 9 E/WIRE DOWN CONDUCTOR SHALL BE CLEATED AT AN INTERVAL OF 2.0 M ALONG WITH STRUCTURE NO HOLES IN STRUCTURE IS ALLOWED FOR THIS PURPOSE

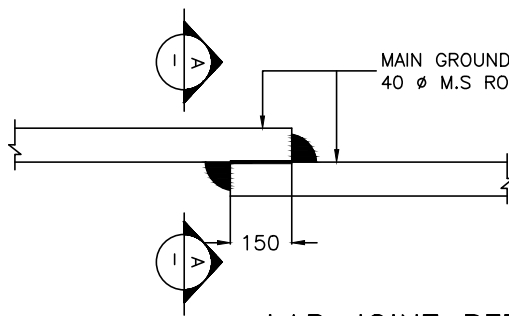
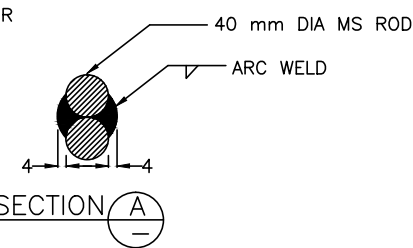
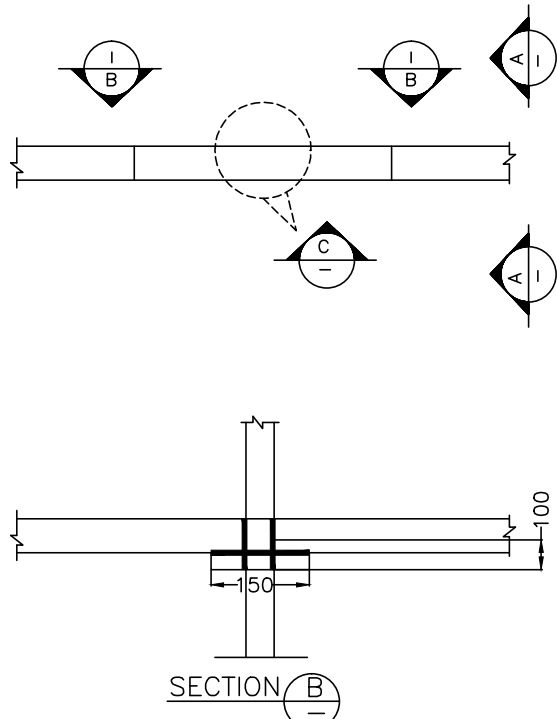
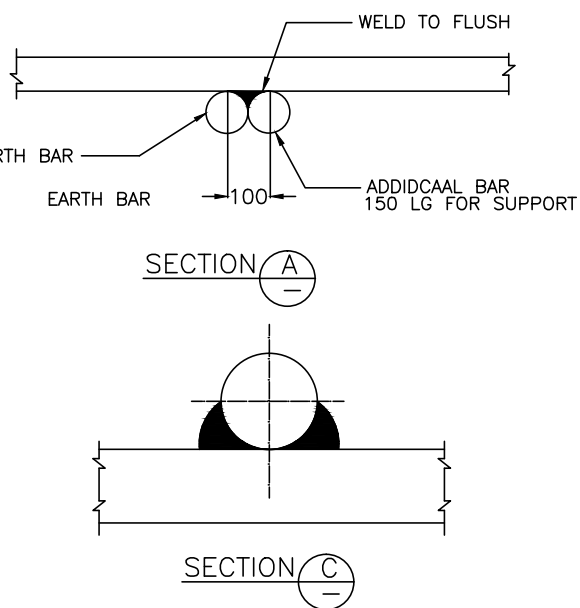
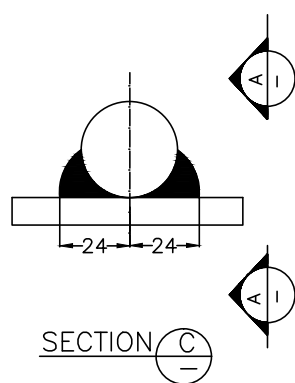
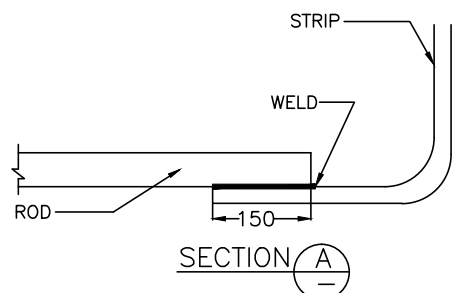

COVER SHEET (02) + 28= 30 SHEETS

ADDITIONAL INFORMATION W.O.No. _____ STATUS OF DRAWING _____ DISTRIBUTION OF PRINTS _____		WO/ L.OA No. _____ L.OA NO. RPRC182401/26286965 DTD.24.01.2020 NAME OF CUSTOMER: INDIAN OIL CORPORATION LIMITED NAME OF PROJECT: LSTK JOB FOR ISBL WORK OF 220KV GRID POWER IMPORT AT PANIPAT REFINERY NAME OF CONSULTANT: TATA CONSULTING ENGINEERS LIMITED													
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DEPT. _____ CODE _____ TITLE 220/33KV SWITCHYARD— EQUIPMENT EARTHING PHILOSOPHY AND DETAILS			SCALE _____	CARD CODE _____	DRAWING NO. TB-411-316-016	REV. 00
				SHEET No. 02	NEXT SHEET 03	

DRAWING No. TB-411-316-016

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<h3>APPENDIX-1: SYSTEM GROUNDING DETAILS</h3> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="width: 45%;">  <p>MAIN GROUNDING CONDUCTOR 40 Ø M.S ROD</p> <p>150</p> <p style="text-align: center;">LAP JOINT BETWEEN M.S. RODS</p> </div> <div style="width: 45%;">  <p>40 mm DIA MS ROD</p> <p>ARC WELD</p> <p style="text-align: center;">SECTION A</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="width: 45%;">  <p style="text-align: center;">RIGHT ANGLED JOINT</p> <p style="text-align: center;">SECTION B</p> </div> <div style="width: 45%;">  <p>EARTH BAR</p> <p>WELD TO FLUSH</p> <p>100</p> <p>ADDDCAAL BAR 150 LG FOR SUPPORT</p> <p style="text-align: center;">SECTION A</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="width: 45%;">  <p style="text-align: center;">TYPICAL DETAILS OF ROD TO STRIP/RIGHT ANGLE BEND</p> <p style="text-align: center;">SECTION C</p> </div> <div style="width: 45%;">  <p>STRIP</p> <p>WELD</p> <p>ROD</p> <p>150</p> <p style="text-align: center;">SECTION A</p> </div> </div>							8	7	6	5	4	3	2	1																															
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APPENDIX-1: SYSTEM GROUNDING DETAILS

SECTION A-A

CROSS LAP JOINT

SECTION A-A

TYPICAL DETAILS OF STRAIGHT LAP JOINT/ RISER

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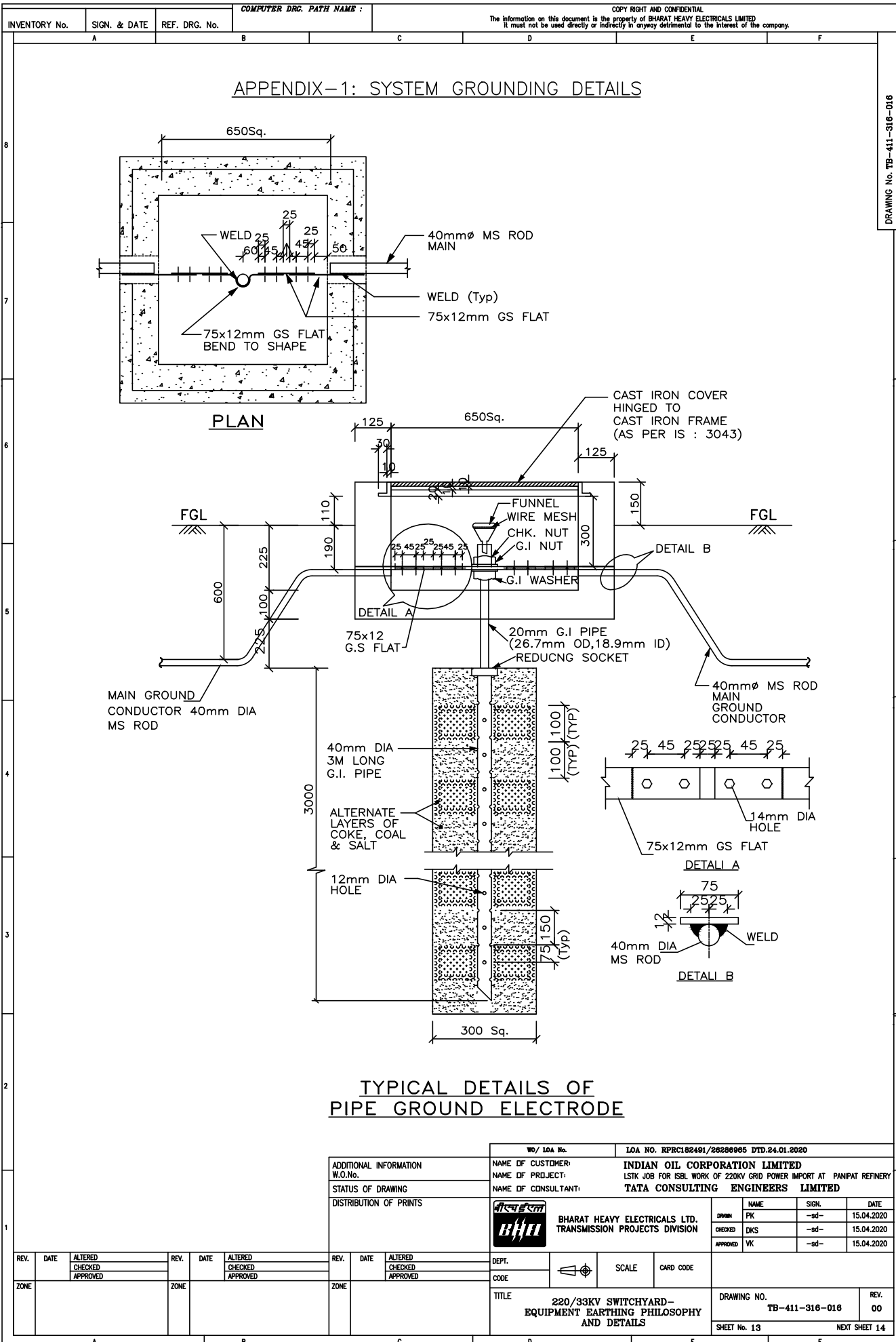
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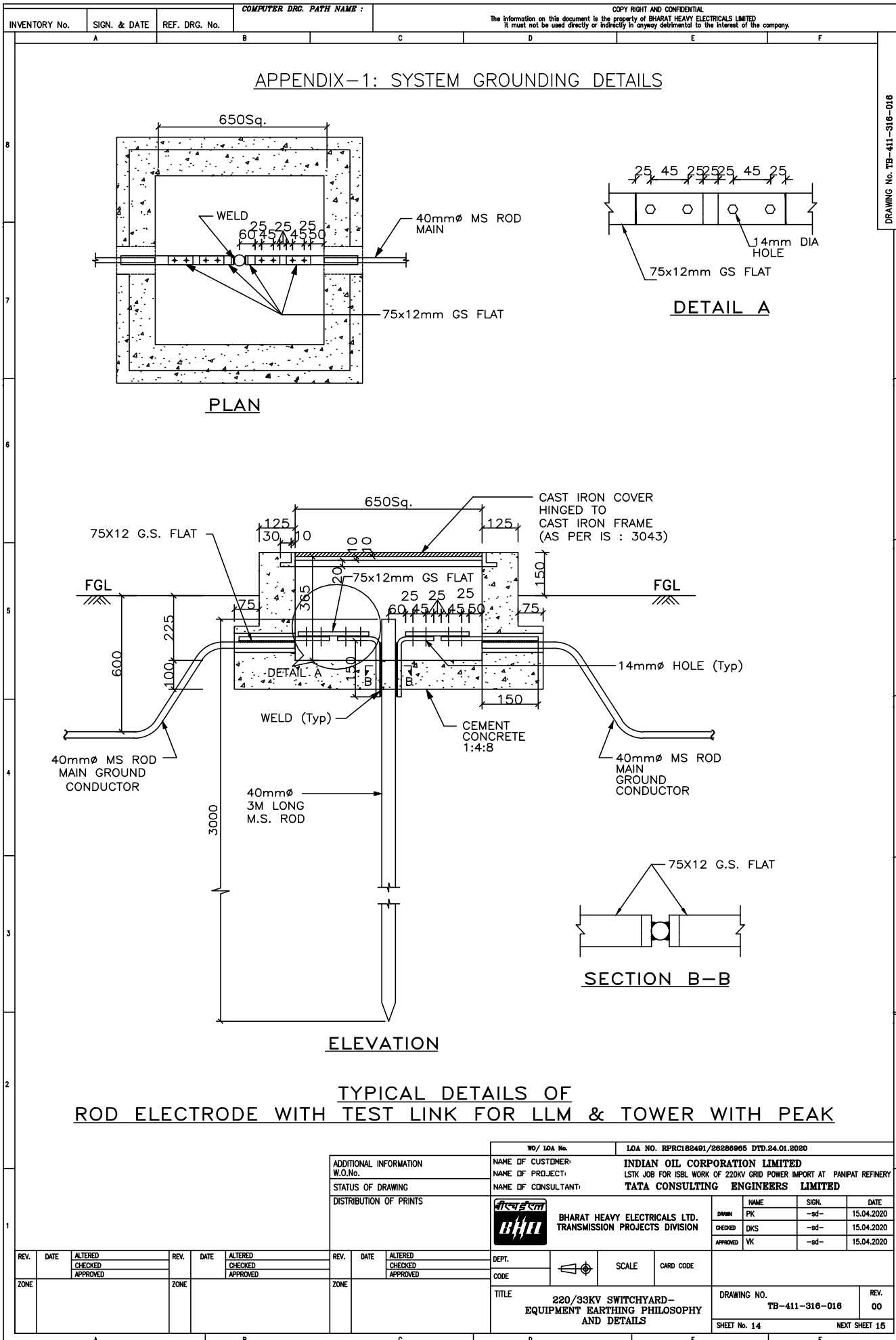
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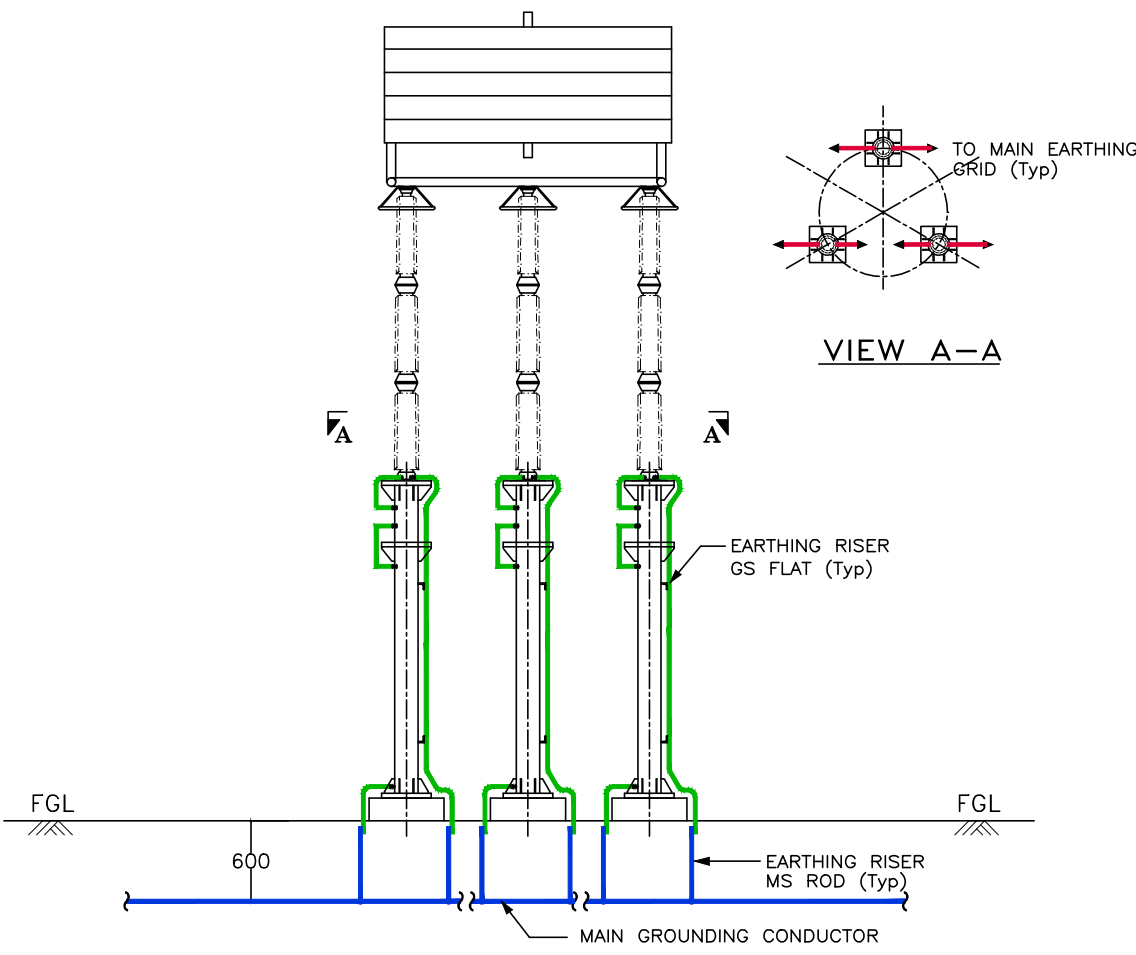
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<div><div><div><div><div>FGL</div><div>600</div><div>300</div><div>RISER TO ISO MECH. BOX</div></div><div><div>50x6 GS FLAT (TYP.)</div><div>RISER TO ISO MECH. BOX</div><div>FGL</div></div><div><div>AUX. GROUND MAT (MS ROD)</div><div>MAIN GROUND CONDUCTOR (MS ROD)</div></div></div><div>ELEVATION</div></div><div><div><div>TO MAIN MAT</div><div>1500</div><div>300</div><div>TAG WELD (TYP)</div><div>MS ROD</div><div>300</div><div>1500</div><div>TO ISOLATOR MECHANISM BOX</div><div>TO ISOLATOR OPERATING MECHANISM BOX</div><div>TO MAIN GROUND MAT</div></div><div>PLAN</div></div></div>																																																																																																																																																																																																																														
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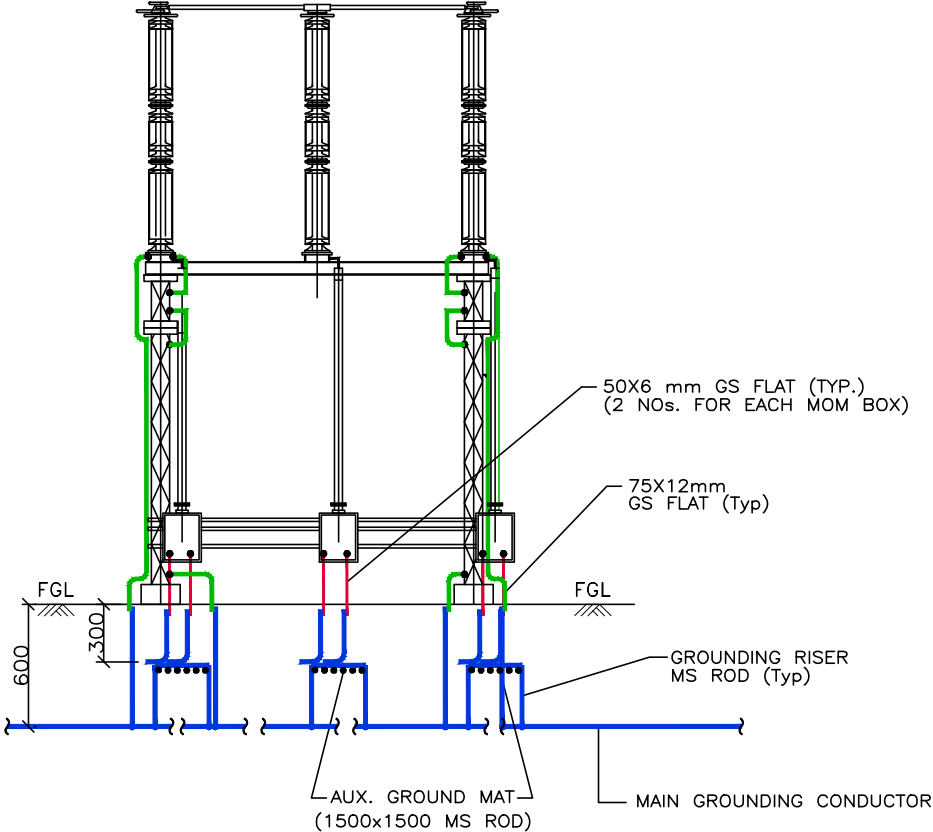

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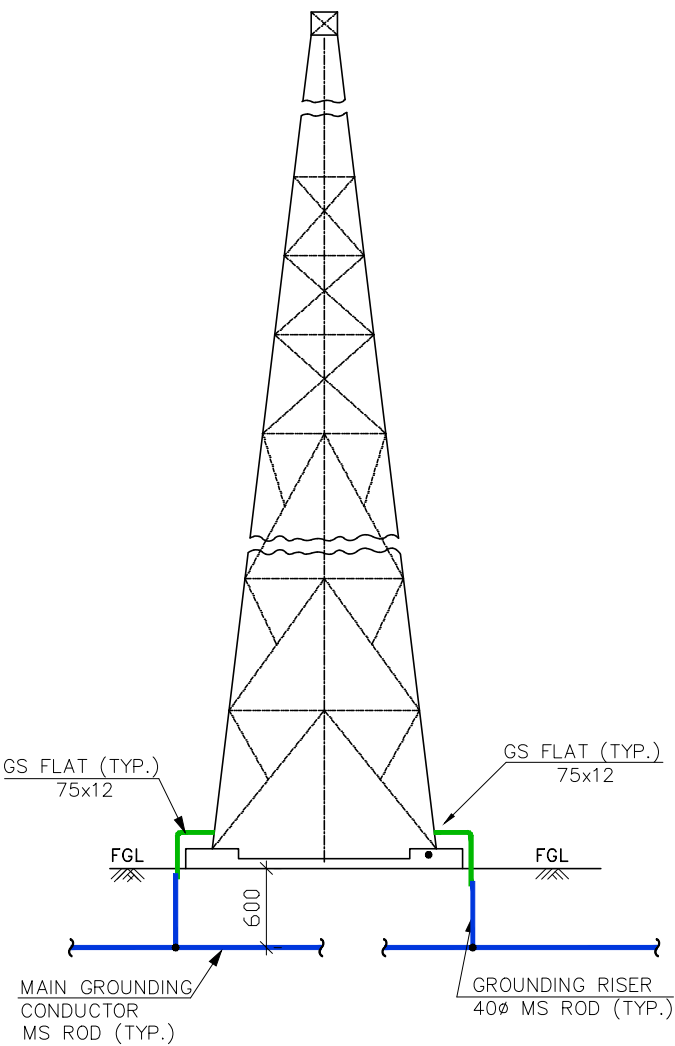
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