

LEGEND

— GI Flat 75X12 mm (BHEL Scope)
(Flat copper 50x6 mm X 1 Run - SIEMENS Recommendation)

— copper cable 2x120 mm²/50x6 x1 Run (SIEMENS Scope)

1. SIEMENS TO SUPPLY REQUIRED 50x6 CU FLAT

Notes:-

INSTALLATION AND TESTING OF THE EARTHING SYSTEM ACC. TO IEC 61936

ALL EQUIPMENT NOT SHOWN (I.E. PIPELINES, RAILINGS, ETC.) TO BE EARTHED ACCORDING TO ABOVE MENTIONED INSTALLATION INSTRUCTIONS.

OPERATION OF NETWORK:

CURRENTS: I²k3= 63 kA, 1s

MAX. TEMPERATURE OF EARTHING CONDUCTOR: 300°

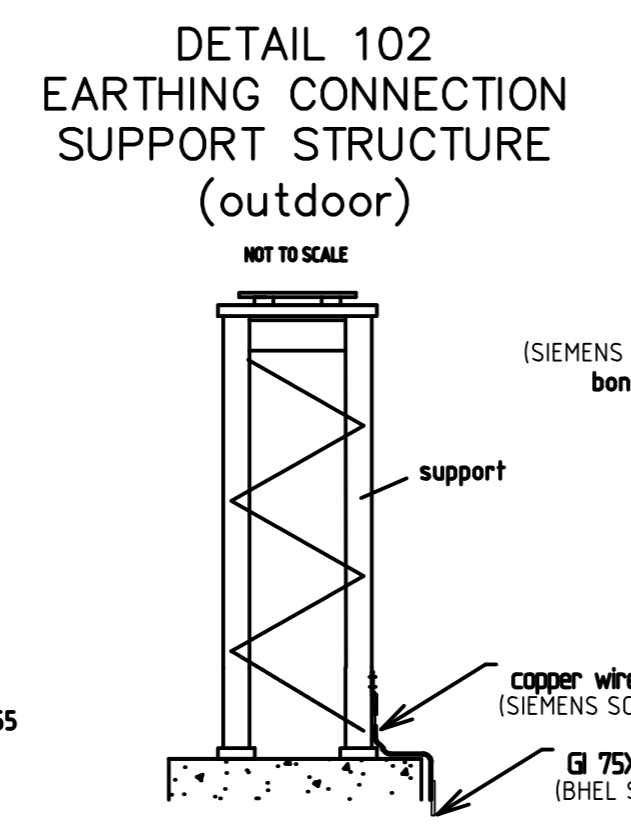
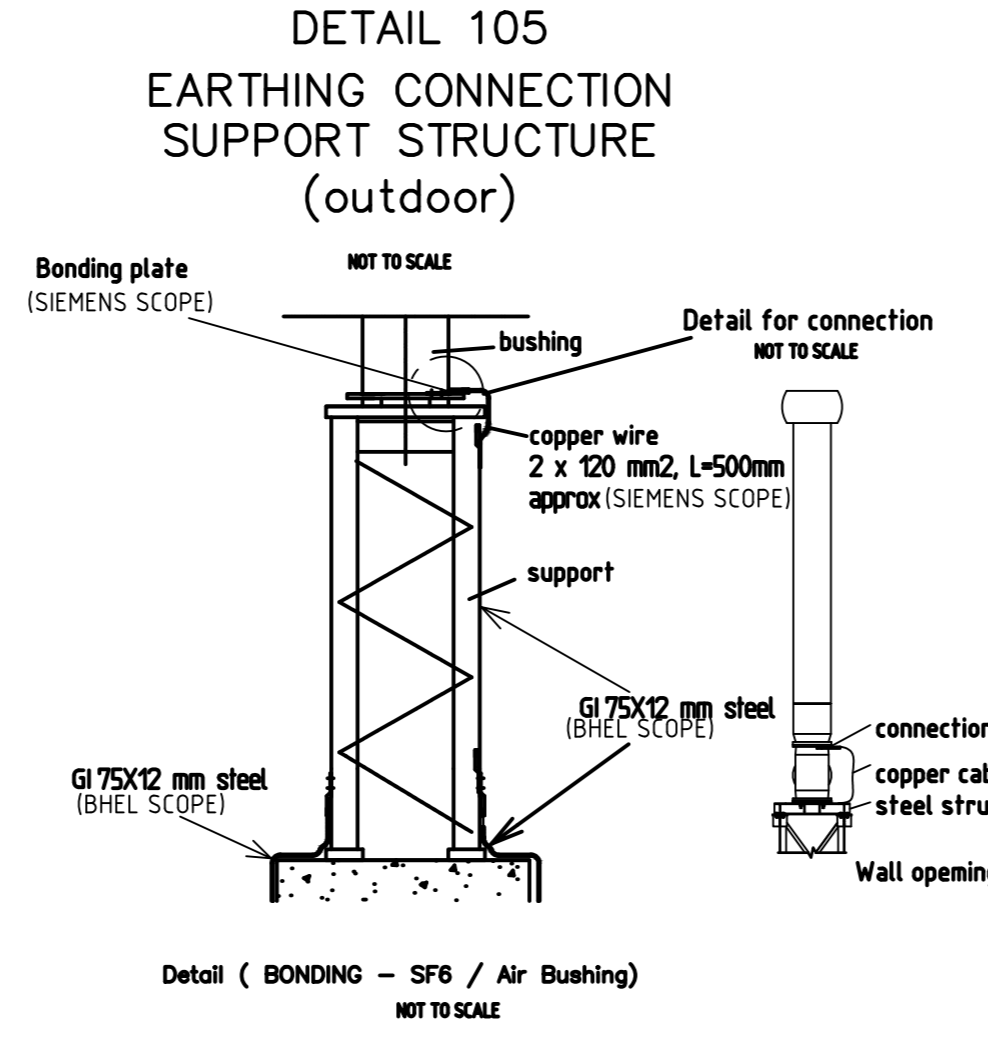
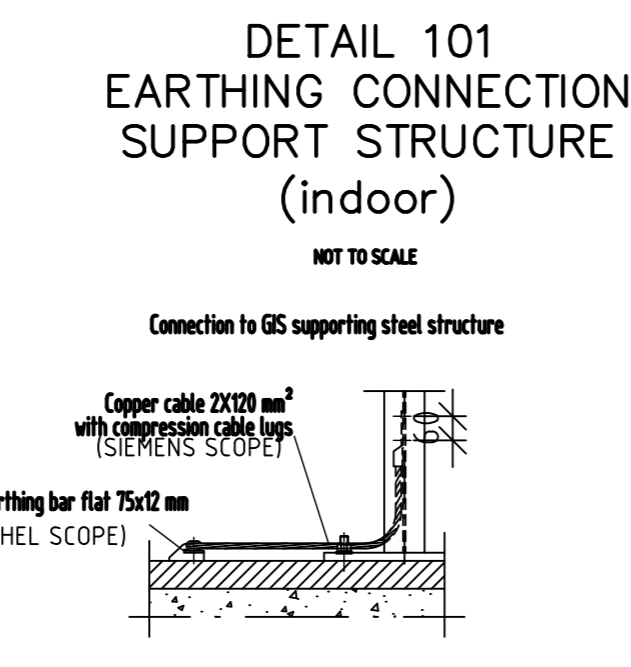
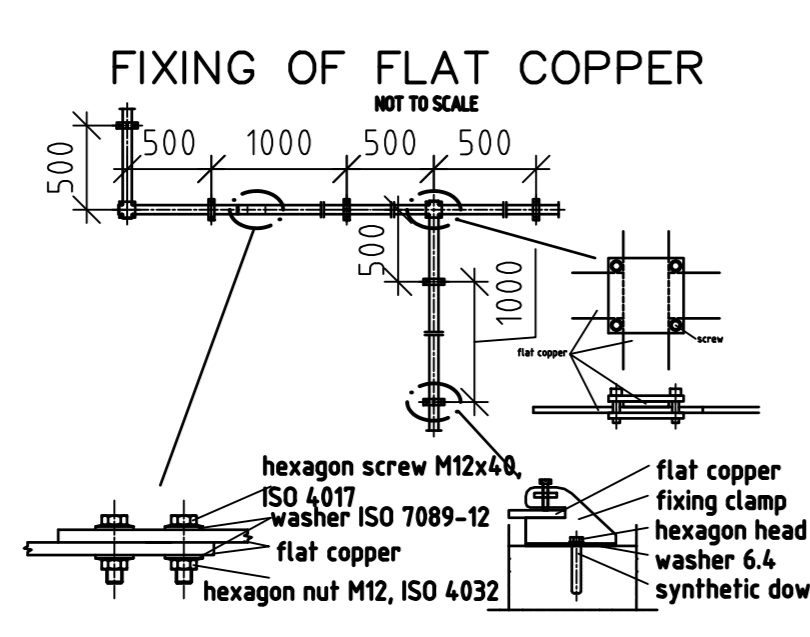
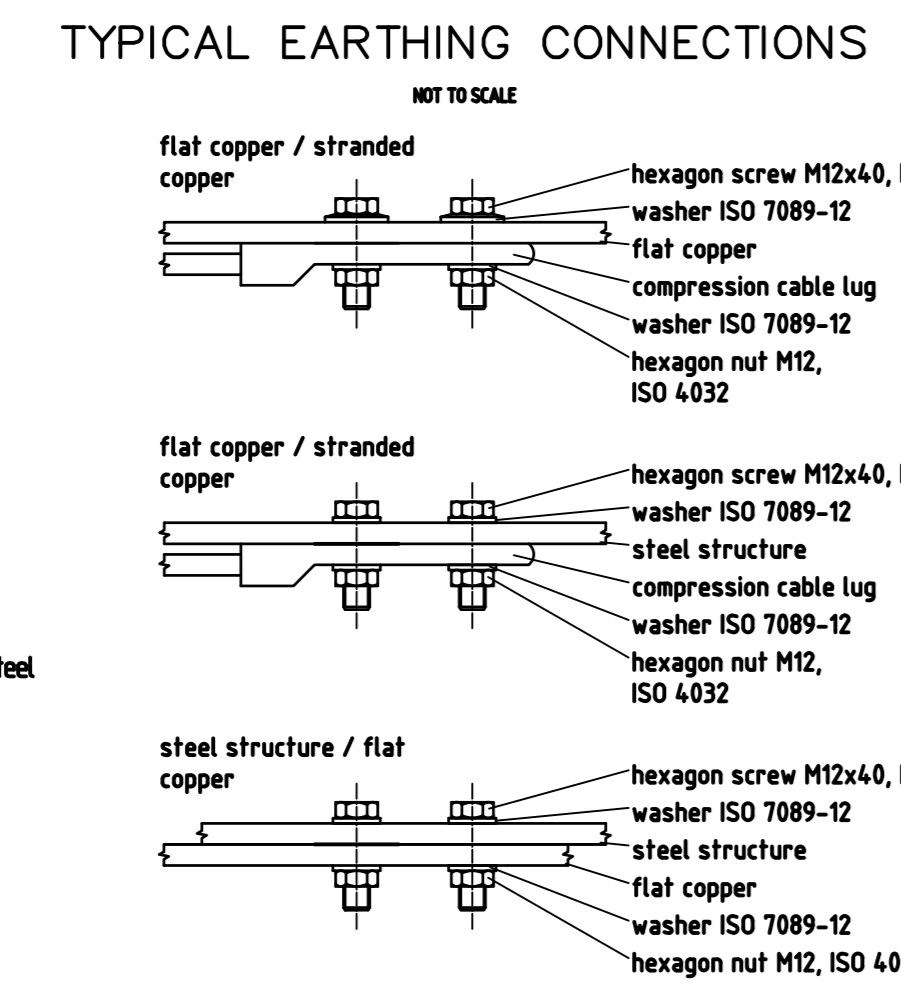
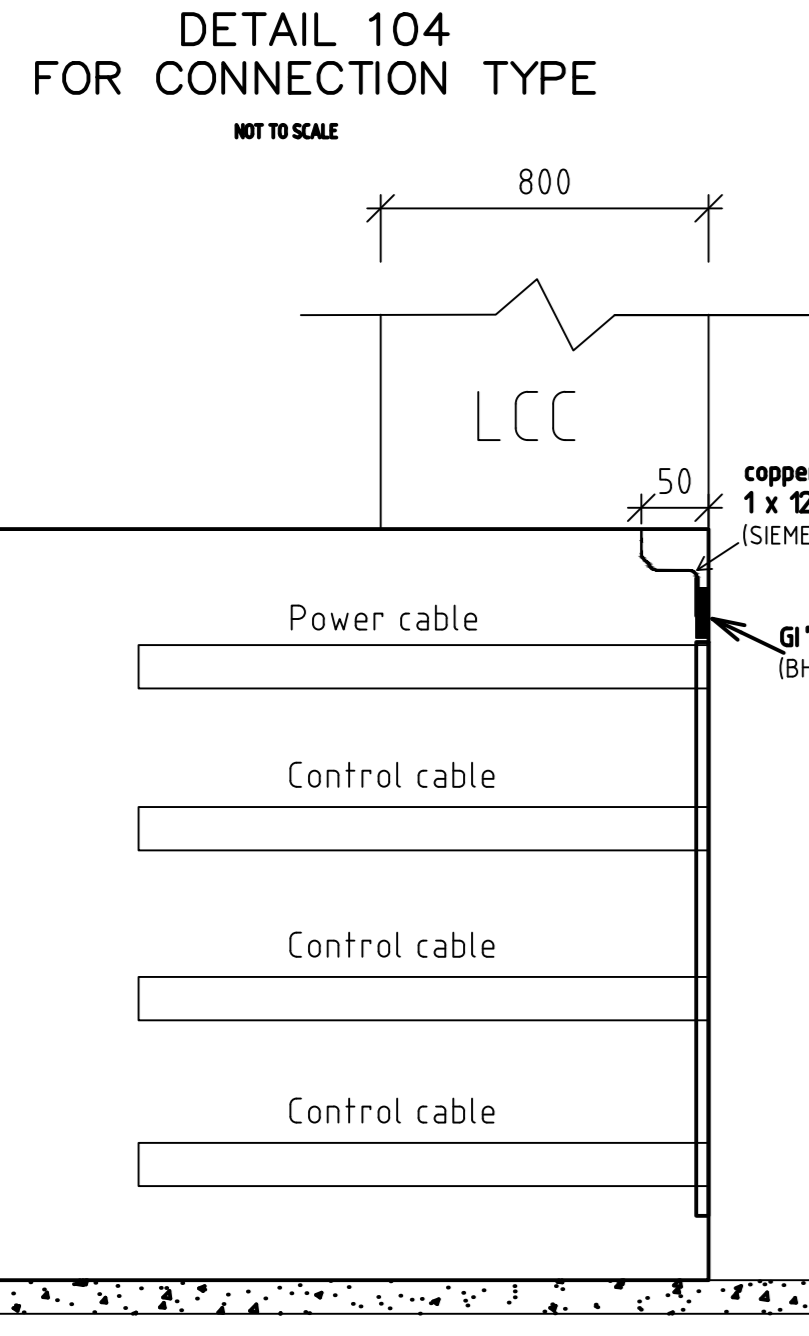
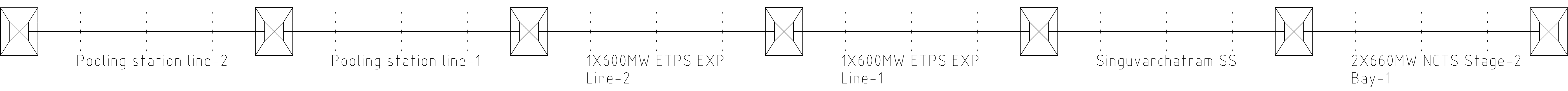
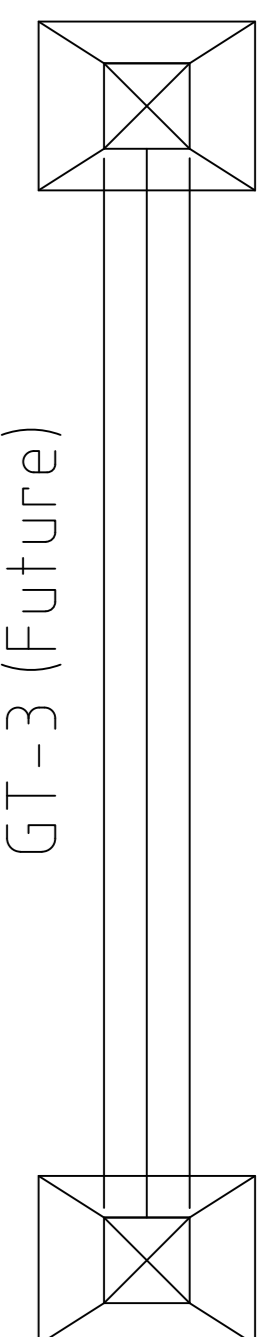
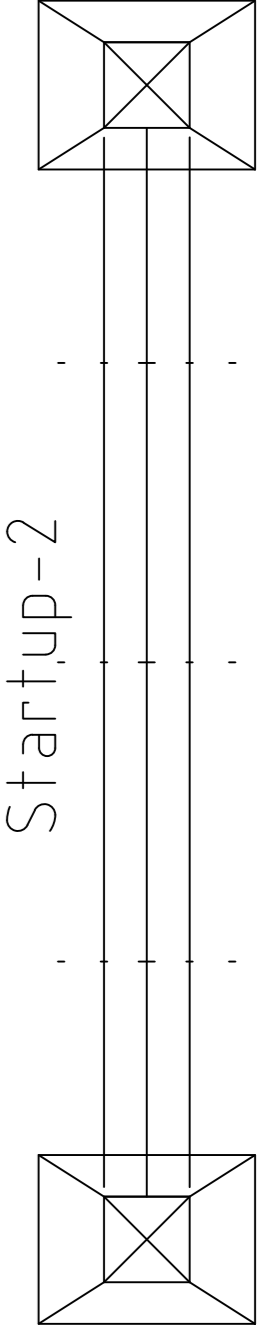
POTENTIAL CONTROL / EARTHING OF FOUNDATION THE GRID OF STEEL BARS MIN. DIA. 12 mm IS TO BE WELDED.

THE EARTHING GRID INSIDE OF THE BUILDING IS TO BE CONNECTED:

- TO THE FOUNDATION EARTHING AT EACH CORNER OF THE BUILDING
- TO THE OUTSIDE EARTHING NETWORK MIN. AT 2 CORNERS OF THE BUILDING, DIAGONALLY OPPOSITE

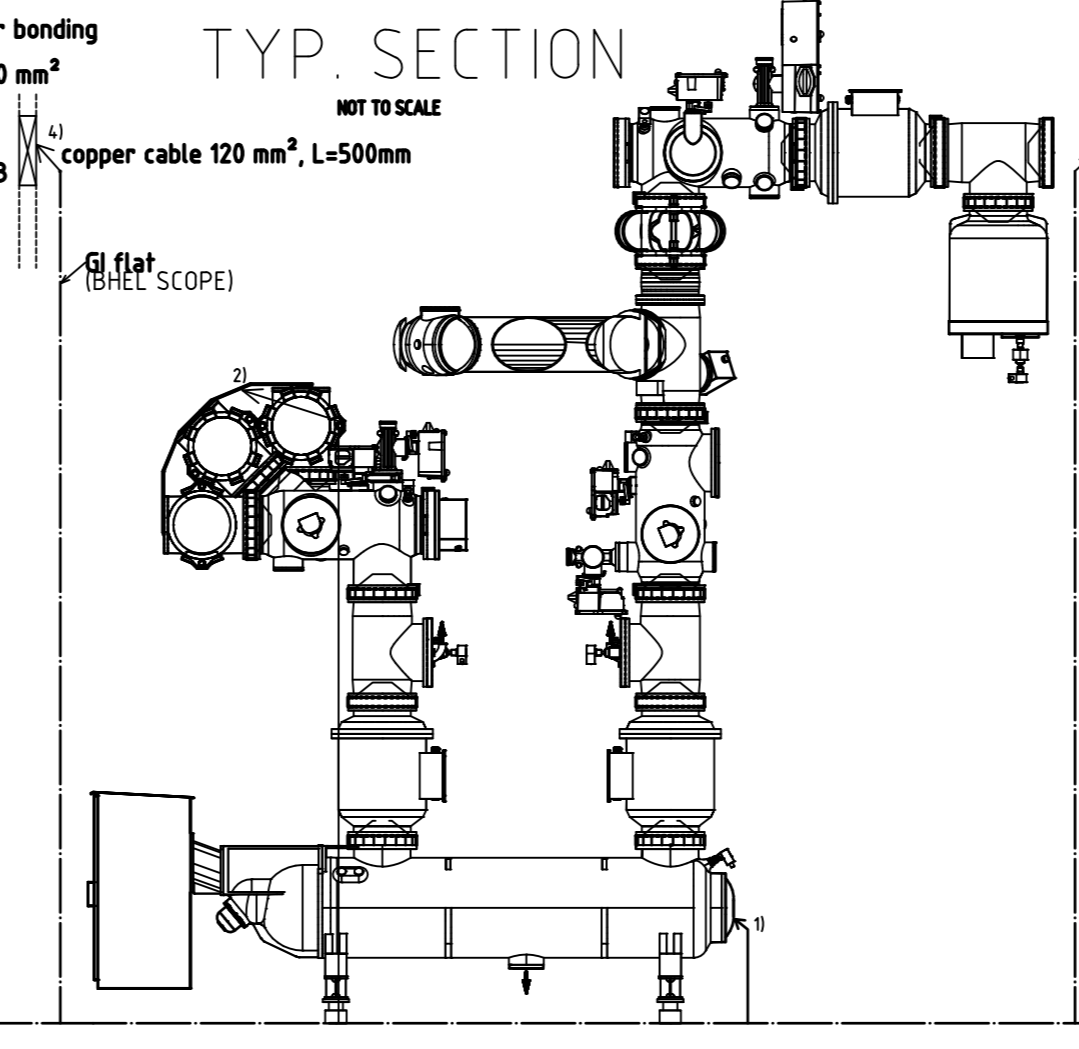
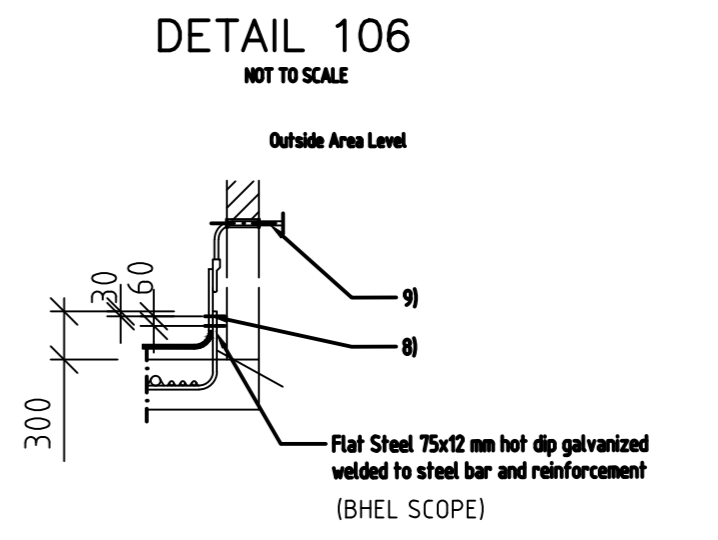
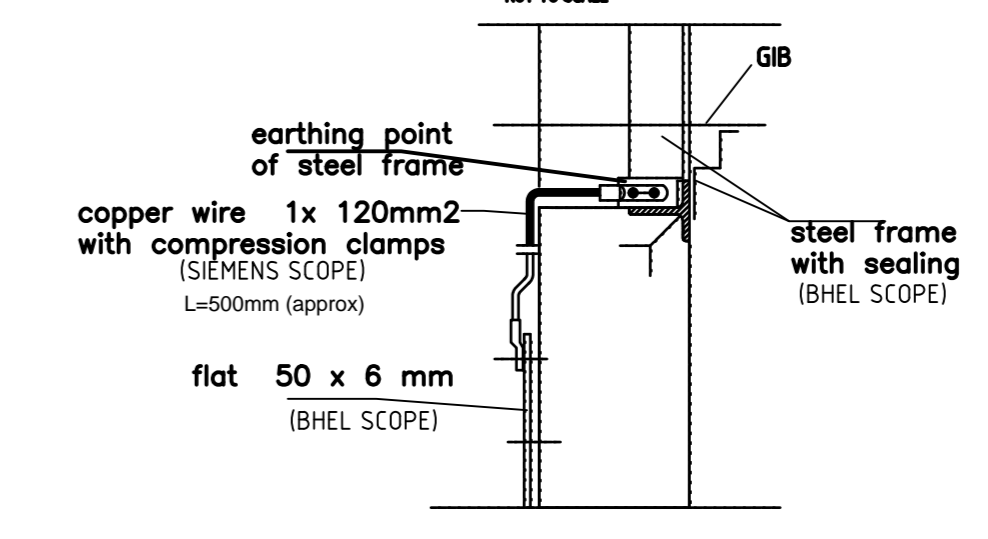
VENTILATION ROOM
8000 X 15000

1. M.S. SIEMENS TO SUPPLY 50X6 MM CU FLAT AS IF RECOMMENDED AND AS PER CONTRACT.
2. PLEASE MARK 'LEGEND 8' CONNECTION TO FOUNDATION EARTHING WITH GI FLAT FOR ALL THE STEEL STRUCTURES UNDER SIEMENS SUPPLY



LEGENDS	DESCRIPTION	SCOPE OF SUPPLY	Mat. Qty. Hrs (Approx)
1	Connection to the Circuit Breaker/Cu Cable 2RunsX120mm ²	SIEMENS	100
2	Connection to the Busbar Flat Cu 1 run 50 x 6 mm ²	SIEMENS	75
3	Connection to the support 2RunsX120mm ² (SEE DETAIL 101/102/103)	SIEMENS	350
4	Connection to the wall frame Cu Cable 1 Run X120mm ² (SEE DETAIL 103)	SIEMENS	20
5	Connection to the LCC Cu Cable 1Run X120mm ² (SEE DETAIL 104)	SIEMENS	30
6	Bonding connection plate to earthing grid Cu Cable 2RunsX120mm ² (DETAIL 105)	SIEMENS	200
7	GI Flat 75X12mm, Fixed At Switchgear/potential equalising) Floor(SEE DETAIL 106) (Flat Cu 1Runs x 50x6mm SIEMENS recommendation)	BHEL	--
8	Connection to foundation earthing GI Flat 75X12mm, (SEE DETAIL 106) (Cu Cable 2 Run X120mm ² SIEMENS recommendation)	BHEL	--

EARTHING CONNECTION FOR WALL FRAME



Reference Drawing:

01	G71770-AC209-V023	400kV GIS- Plan & section view
02	G71770-AC209-P101	400kV GIS-Interface dwg for civil work

THIS EARTHING PLAN ONLY SHOWS THE MEASURES FOR THE EARTHING OF THE HIGH VOLTAGE EQUIPMENT

ONLY BINDING FOR EARTHING

PROJECT :	400kV GIS at 2X660 MW Ennore SEZ Supercritical Thermal Power Project at Ash Dyke of NCTPS, Chennai-120	Scale	1:250
NOA No :	CE/P/SE/M/P/EE-10/E/P/F.2X660MW ENNORE SEZ STTP/D60/DT 27.027.2014	Drawn	BS
CUSTOMER :	TAMILNADU GENERATION AND DISTRIBUTION CORPORATION (TANGEDCO)	Appr.	GO
CONSULTANT :	DESEIN PRIVATE LIMITED, NEW DELHI	Norm	
CONTRACTOR :	BHARAT HEAVY ELECTRICALS LIMITED	00	First Issue
DWG No :	18-378-316-101-07 REV.00	Date	06.04.2018
		Name	BS
			Siemens
			(1) G71770- AC209 - P132 - 00
			Sheet 1-1

AKZ-AC-209-BHEL-ENNORE

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