



- NOTES:-
- WHERE GROUND CONDITIONS PERMIT A MINIMUM 15mm DIA. COPPER CLAD STEEL EARTH ROD IS TO BE DRIVEN VERTICALLY TO FULL LENGTH LEAVING 100mm ABOVE GROUND LEVEL. A 25 x 3mm COPPER STRIP IS TO BE CONNECTED BETWEEN THE EARTH ELECTRODES AND THE EARTH MAT AS DETAILED.
  - IF ROCK IS ENCOUNTERED, ELECTRODES SHALL BE 25 x 3mm COPPER STRIP, MINIMUM 15mm COPPER CLAD STEEL EARTH ROD OR NOMINAL 70mm<sup>2</sup> STRANDED BARE COPPER CONDUCTOR INSERTED INTO A 40mm or 50mm DIA. HOLE DRILLED TO A DEPTH SPECIFIED AND FILLED WITH AN EARTHING ENHANCEMENT COMPOUND TO AS2239 MIXED WITH WATER IN THE PROPORTION OF 2 PARTS COMPOUND TO 3 PARTS WATER (BY VOLUME).
  - SEPERATE 25 x 3mm COPPER STRIP TAILS ARE TO BE EXTENDED FROM THE EARTH MAT WHERE SHOWN AND ARE TO PROJECT 300mm BEYOND FINISHED CONCRETE SURFACE. ALL ENTRIES THROUGH CONCRETE ARE TO BE WATERPROOF.
  - BRAZING OF COPPER SHALL BE DONE USING EITHER SILFOS OR COMWELD No. 102 OR SIMILAR SILVER BRAZING OR PHOS-COPPER ALLOY HAVING NOT LESS THAN 2% SILVER. FOR COPPER TO STEEL BRAZING, CIG "COMBOND", "COMCOAT" OR BRONZE SHALL BE USED.
  - THE EARTH MAT IS TO BE INSPECTED AND TESTED BY EVOENERGY AFTER ALL BRAZED JOINTS AND COPPER STRIPS ARE CONNECTED PRIOR TO PLACING THE CONCRETE AND/OR BACKFILL.
  - DETAILS OF SUBSTATION EARTHING ARE INCLUDED ON THE REQUIREMENTS DRAWING.
  - EXTERNAL TO THE CHAMBER GROUND LEVEL THE COPPER EARTH MAT IS TO BE A MINIMUM 450mm BELOW FINISHED GROUND LEVEL.
  - THE COPPER STRIP SHOULD HAVE SUFFICIENT SLACK BETWEEN CONNECTIONS TO ALLOW FOR EXPANSION AND CONTRACTION OF SOIL WITHIN THE AREA OF THE EARTH MAT, SO THAT CONNECTION DO NOT DETRIORATE.
  - ALL JOINTS TO BE BRAZED AS PER NOTE 4.

					Drawn: S.Read	Designed: E. Amaratunga	 <b>STANDARD EARTH MAT ELECTRODE CONNECTION DETAILS FOR CHAMBER SUBSTATIONS</b>	Scale:	Date: 16/11/1995	Sheet No: 1 of 1	
					Checked:			Work Pack No:	File:		
					Approved: FRASER			Status: Current			
					Project No:			A3	4961-01	Rev D	
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