



- NOTES:
1. EARTH ELECTRODES ARE TO BE PLACED DIRECTLY BELOW CENTERLINE OF OVERHEAD CONDUCTORS.
  2. COMBINED EARTH ELECTRODES AND POLE FOOTING EARTH RESISTANCE TO BE 30 OHM MAX WHEN ALL MEN AND CMEN CONNECTIONS ARE REMOVED.
  3. COMBINED EARTH GRID RESISTANCE IS TO BE 1 OHM MAX WHEN ALL MEN AND CMEN CONNECTIONS ARE MADE.
  4. IF ABOVE VALUES CAN NOT BE ACHIEVED CONTACT THE PROJECT MANAGER.
  5. THIS ARRANGEMENT IS TO BE USED WHERE SURFACE SOIL RESISTIVITY (TEST ELECTRODE SEPARATION IS 1 METER) IS MORE THAN 200 OHM/M AND LESS THAN 350 OHM/M.
  6. USE 4M OF 70SQMM YELLOW/GREEN INSULATED CABLE (ITEM 2) FROM EARTH BOLT ON THE POLE TO BARE COPPER 70SQMM EARTHING CABLE (ITEM 4). DISTANCE FROM BASE OF POLE TO CONNECTION POINT SHALL BE 1 METER.

7. 2 X GALVANIZED PIPE 25MM I.D. TO BE INSERTED INTO THE POLE FOUNDATION DURING CONSTRUCTION WITH 200MM ABOVE GROUND LEVEL AND 200MM BELOW GROUND LEVEL. YELLOW/GREEN INSULATED CABLE IS TO PASS THROUGH THIS GALVANIZED PIPE. PLACE THE GALVANIZED PIPES SO THAT THEY ARE SHIELDED BY THE POLE, BUT ARE ALSO ACCESSIBLE FOR TONG TESTING OF THE EARTH GRID.
8. AS AN ALTERNATIVE TO DRIVING A EARTH ROD IN TO THE GROUND, A MINIMUM DIAMETER CAN BE BORED INTO THE GROUND TO A DEPTH OF 1.5 METERS. ITEM 4 SHALL BE LOWERED IN TO THE FULL DEPTH OF THIS HOLE. BACKFILLING IS TO BE AS PER NOTE 7 IN S01-2-3-13.
9. REFER TO S01-4-4-01 PN PROCEDURE 'POLE INSTALLATION PROCEDURE (CIVIL WORKS)' FOR THE REQUIREMENT & INSTALLATION OF POLE CONCRETE FOUNDATIONS.

TAG	QTY.	DESCRIPTION	DRG. REF	STOCK CODE
10	1	M12 FLAT WASHER	S01-1-4-43	400832
9	1	M12x40 BOLT & NUT	S01-1-4-43	503669
8	2	GAL. PIPE 25mm I.D. 400mm LONG	-	-
7	12	'C' CONNECTOR EARTHING COMPRESSION	S01-1-5-08	255786
6	2	COMPRESSION LUG 70sqmm	-	5512
5	30m	MARKER TAPE	S02-1-8-05	6569
4	40m	CONDUCTOR COPPER 19/2.14 70sqmm	-	9803
3	10	CONNECTOR EARTHING COMPRESSION	S01-1-5-08	257394
2	4m	Y/GR BUILDING WIRE 70sqmm	S02-1-1-23	401059
1	10	EARTH ROD	S01-1-5-01	414060

**MATERIAL SCHEDULE**

NO	DESCRIPTION	DRN	DATE	CKD	APPD
9	ITEMS 9 & 10 ADDED, NOTE 9 ADDED	K.T.	JUN'16	I.B.	B.C.
8	MATERIAL SCHEDULE UPDATED	A.T.	JAN'15	I.B.	B.C.
7	NOTES UPDATED, EARTH STAKE DEPTH ADDED GAL. PIPE ADDED	C.M.	SEP'10	A.T.	S.C.
6	REMOVED TEST LINK & COPPER STRAP, ALTERNATIVE EARTHING METHOD SHOWN, NOTE 6 ADDED	A.S.	FEB'04	R.C.	M.B.
5	CORRECT NO. OF SPIKES SHOWN	J.A.L.			
4	COMPRESSION LUG (TAG No.6) CHGD. TO 'QUICKLUG'	J.A.L.	MAY'95	S.C.M.	P.J.D.
3	REDRAWN AND REVISED	G.R.	JUL'94	A.G.	A.G.B.
NO	DESCRIPTION	DRN	DATE	CKD	APPD

**PowerWater**
  
 NORTHERN TERRITORY

DES	M. BOCK	<b>EARTHING</b> <b>GENERAL ARRANGEMENT - TYPE 2</b> <b>EARTHING ELECTRODES</b>
DRN	A. SCHMID	
CKD	M. BOCK	
APPD		
SCALE	NTS	
ISSUED	AUG. '03	<b>A3</b>
ALL DIM.	IN mm	
<b>DRAWING NUMBER</b>		<b>S01-2-3-12</b>
<b>DRAFTING STANDARD TO A.S.1100</b>		<b>CAD PRODUCT - DO NOT AMEND MANUALLY</b>

