



- 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 METRE) IS MORE THAN 350 OHM/M AND LESS THAN 500 OHM/M.
 6. BORED HOLE IS TO BE 4600 DEEP USING MINIMUM DIAMETER AUGER.
 7. IF BORED HOLE IS LESS THAN 75mm DIAMETER, BACKFILL WITH A MIXTURE OF EARTHING COMPOUND/WATER RATIOS BEING 2-3 (10kg) BAGS/10/15 LITRES WATER. IF BORED HOLE IS GREATER THAN 75mm BACKFILL WITH SELECTED SOIL MIXED WITH EARTHING COMPOUND AT 1:1 RATIO AND PLACED IN THE HOLE DRY AND PROGRESSIVELY WATERED.
 8. 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 IS TO BE 1 METRE.
 10. REFER TO S01-04-04-01 PWC PROCEDURE 'LINE/SERVICE POLE INSTALLATION - CIVIL WORKS' FOR THE REQUIREMENT & INSTALLATION OF POLE CONCRETE FOUNDATIONS.
 11. TWO INDEPENDENT EARTH CONNECTORS OR AN EXOTHERMIC EARTHING WELD MUST BE USED ON ALL NEW JOINTS AND TERMINATIONS. EXISTING INSTALLATIONS MAY HAVE SINGLE CONNECTORS

ITEM	QTY.	DESCRIPTION	ITEM NUMBER	DRAWING REF.
2	2	M12 GALV. STEEL SPRING WASHER	239616	S01-01-04-43
9	2	M12 GALV. STEEL FLAT WASHER	400832	S01-01-04-43
	2	M12x40 GALV. STEEL BOLT & NUT	503669	S01-01-04-43
7	16	CONNECTOR, COMP., 'C', Cu, 70-70 SQ.MM	255786	S01-01-05-08
6	2	LUG, COMPRESSION, LUG, 70 SQ.MM, M12	5512	S02-01-02-11
5	48m	MARKER TAPE	6569	S02-01-08-05
4	63m	CONDUCTOR, BARE, COPPER, 70 SQ.MM	9803	S01-01-05-05
3	12	CONNECTOR, COMP., '6', Cu, 14 MM-70 SQ.MM	257394	S01-01-05-08
2	4m	CABLE, INSULATED, Cu, Y/Gr, 70 SQ.MM	401059	S02-01-01-23
1	6	EARTH ROD, SS316, 14MM DIA.	414060	S01-01-05-01

MATERIAL SCHEDULE

NO	DESCRIPTION	DRN	DATE	CKD	APPD
11	CORRECTED SPELLINGS, ADDED DRAWING REFERENCE FOR ITEMS 4 & 6. REMOVED NOTE 9 & ITEM 8. ADDED NOTE 11. ADDED DOUBLE INDEPENDENT CONNECTIONS. INCLUDE ITEM NUMBER FOR ITEM 8	A.N.	SEP'21	A.N.	B.V.
10	TITLEBLOCK & DRAWING NUMBERS FORMATTED	C.C.	JAN'21	B.V.	B.C.
9	ITEM 9 & 10 ADDED, NOTE 10 ADDED	K.T.	JAN'19	C.C.	C.C.
8	MATERIAL SCHEDULE UPDATED	K.T.	JUN'16	I.B.	B.C.
7	NOTES UPDATED, EARTH STAKE DEPTH ADDED GAL.PIPE ADDED	A.T.	JAN'15	I.B.	B.C.
6	REMOVED TEST LINK & COPPER STRAP, ALTERNATIVE	C.M.	SEP'10	A.T.	S.C.
5	EARTHING METHOD SHOWN, NOTE 6 ADDED	A.S.	FEB'04	R.C.	M.B.
4	COMPRESSION LUG (TAG No 6) CHGD. TO 'QUICKLUG'	J.A.L.	MAY'95	S.C.M.	P.J.D.


 NORTHERN TERRITORY

DES		POWER STANDARD DRAWING	
M. BOCK		EARTHING GENERAL ARRANGEMENT - TYPE 3	
A. SCHMID		EARTHING ELECTRODES	
M. BOCK			
-			
NTS			
AUG'03		A3	DRAWING NUMBER S01-02-03-13
IN mm			
A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	