

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 LESS THAN 200 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 IS TO BE 1 METRE.


7. AS AN ALTERNATIVE TO DRIVING A EARTH ROD INTO THEGROUND, A MINIMUM DIAMETER CAN BE DRILLED INTO THEGROUND TO A DEPTH OF 2100MM. ITEM 4 SHALL BE LOWERED IN TO THE FULL DEPTH OF THIS HOLE. BACKFILLING IS TO BE AS PER NOTE 7 IN S01-02-03-13.
9. THIS STANDARD DESIGN SHALL BE CONSTRUCTED IN ACCORDANCE WITH S01-04-04-01 PWC PROCEDURE 'LINE/SERVICE POLE INSTALLATION - CIVIL WORKS' FOR THE REQUIREMENTS & INSTALLATION OF POLE CONCRETE FOUNDATIONS.

10. TWO INDEPENDENT EARTH CONNECTORS OR AN EXOTHERMIC EARTHING WELD MUST BE USED ON ALL NEW JOINTS AND TERMINATIONS. LEGACY POLE DESIGNS MAY REQUIRE ADDITIONAL EARTHING HOLES TO BE DRILLED TO ACHIEVE THIS DESIGN.

11. CONNECTIONS TO THE GROUNDING PLATE ARE TO BE 45NM AND TO THE STRUCTURE 70NM. DO NOT USE RATTLE GUN ON GROUNDING PLATE BOLT. ONLY USE TORQUE WRENCH OR YOU WILL STRIP THE BRASS BOLT. (ALL SURFACES TO BE CLEANED).

11	2	M12 BOLT & WASHER REPLACEMENT ONLY	505176	S01-01-05-10
10	2	GROUND BOND, EARTHING, PLATE 4m TAIL KIT	505168	S01-01-05-10
9	2	M12 GALV. STEEL SPRING WASHER	239616	S01-01-04-43
	2	M12 GALV. STEEL FLAT WASHER	400832	S01-01-04-43
	2	M12x40 GALV. STEEL BOLT & NUT	503669	S01-01-04-43
7	12	CONNECTOR, COMP., Cu, 'C' PROFILE, 70-70 SQ.MM	255786	S01-01-05-10
6	2	ANTI-THEFT EARTHING CABLE	505169	S02-01-02-11
5	18m	MARKER TAPE	6569	S02-01-08-05
4	24m	CONDUCTOR, BARE, Cu, 70 SQ.MM	9803	S01-01-05-05
3	12	CONNECTOR, COMP., Cu, '6' PROFILE, 14MM DIA. - 70 SQ.MM	257394	S01-01-05-08
1	6	EARTH ROD, SS316, 14MM DIA.	414060	S02-01-01-23
ITEM	QTY.	DESCRIPTION	ITEM NUMBER	DRAWING REF.
MATERIAL SCHEDULE				

12	RELOCATED EARTHING CONNECTION POINTS TO THE POLE, ADDED ITEM 10 & 11, REPLACED ITEM 6. ADDED DETAIL 3	C.C.	AUG'25	B.B.	B.V.
11	CORRECTED SPELLINGS, ADDED DWG REFERENCE FOR ITEMS 4 & 6. REMOVED ITEM 8 & NOTE 8. ADDED DOUBLE INDEPENDENT CONNECTIONS & NOTE 10.	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 9 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.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



NORTHERN TERRITORY

DES	M. BOCK	POWER STANDARD DRAWING	
DRN	A. SCHMID	EARTHING	
CKD	M. BOCK	GENERAL ARRANGEMENT - TYPE 1	
APPD	-	EARTHING ELECTRODES	
SCALE	N.T.S.	A3	DRAWING NUMBER S01-02-03-11
ISSUED	AUG'03		
ALL DIM. IN mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	

12

AMDT