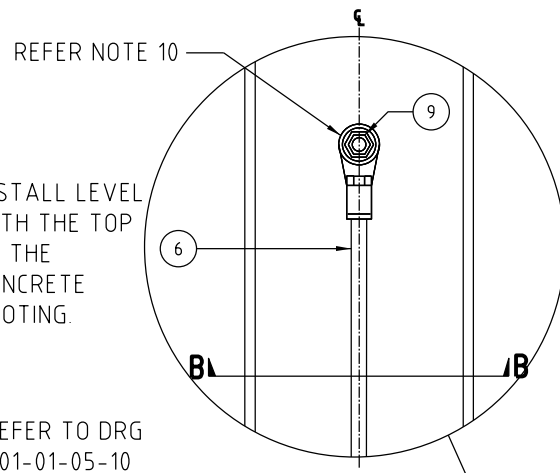


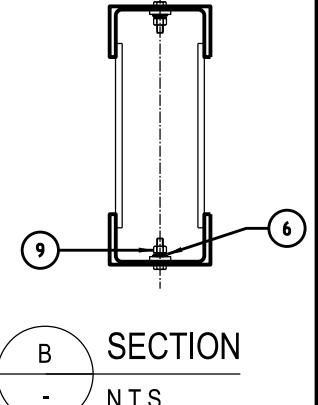
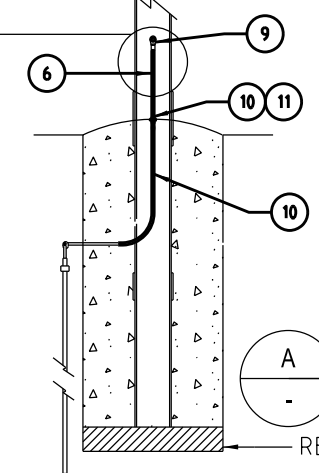
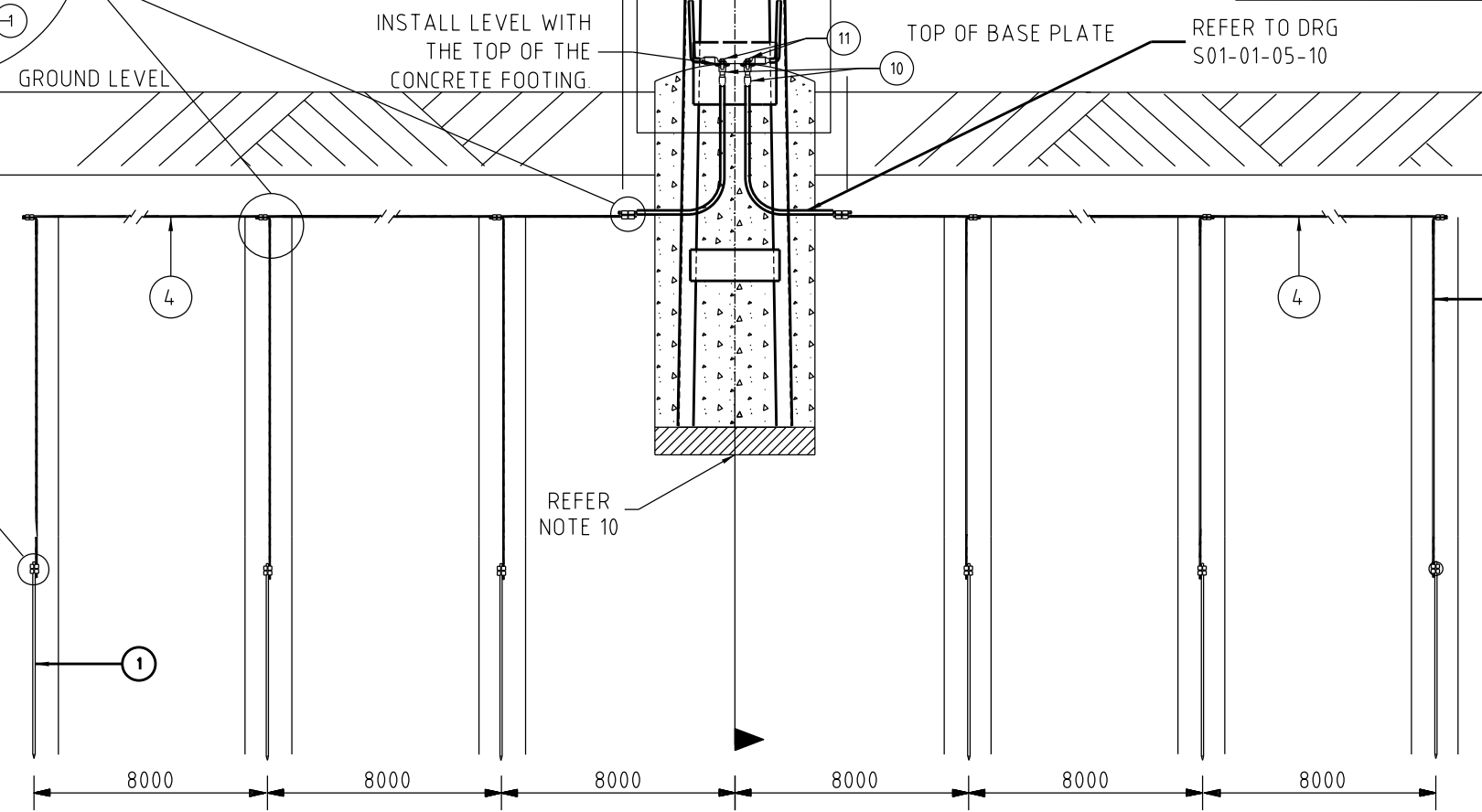
DETAIL 3
SADDLE N.T.S.



REFER NOTE 10

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 TO BASE PLATE TO BARE COPPER 70sqmm EARTHING CABLE (ITEM 4).
9. REFER TO S01-04-04-01 PWC PROCEDURE 'LINE/SERVICE POLE INSTALLATION - CIVIL WORKS' FOR THE REQUIREMENT & INSTALLATION OF POLE CONCRETE FOUNDATIONS.
10. TWO INDEPENDENT ANTI-THEFT EARTH CABLES AND BASE PLATES MUST BE USED ON ALL NEW POLE INSTALLATIONS. LEGACY POLE DESIGNS MAY REQUIRE ADDITIONAL EARTHING HOLES TO BE DRILLED TO ACHIEVE THIS DESIGN.
11. THE POLE EARTH BOLT HOLE AREA SHOULD BE CLEAN AND SHINY AND A JOINTING COMPOUND PUT ON THE LUG PRIOR TO FASTENING, THEN ONCE COMPLETE THE AREA SHOULD BE PAINTED WITH ZINC RICH COLD GALV PAINT ONCE FASTENED.
12. 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.
13. IF YOU STRIP THE BOLT AN EASY OUT WILL BE REQUIRED TO REMOVE BRASS BOLT FROM THE BASE PLATE.



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	16	CONNECTOR, COMP., 'C', Cu, 70-70 SQ.MM	255786	S01-01-05-08
6	2	ANTI-THEFT EARTHING CABLE	505169	S01-01-05-10
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
1	6	EARTH ROD, SS316, 14MM DIA.	414060	S01-01-05-01
ITEM	QTY.	DESCRIPTION	ITEM NUMBER	DRAWING REF.

MATERIAL SCHEDULE

SELECTED BACKFILL
SEE NOTE 7

12	RELOCATED EARTHING CONNECTION POINTS TO THE POLE. ADDED NOTES 13 & 14. ADDED ITEM 10. REPLACED ITEM 6 & ITEM 2 REMOVED. ADDED DETAIL 3. 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. TITLEBLOCK & DRAWING NUMBERS FORMATTED. ITEM 9 & 10 ADDED. NOTE 10 ADDED. MATERIAL SCHEDULE UPDATED. NOTES UPDATED. EARTH STAKE DEPTH ADDED GAL PIPE ADDED. REMOVED TEST LINK & COPPER STRAP. ALTERNATIVE EARTHING METHOD SHOWN. NOTE 6 ADDED.	C.C.	AUG'25	B.B.	B.V.
11		A.N.	SEP'21	A.N.	B.V.
10		C.C.	JAN'21	B.V.	B.C.
9		K.T.	JAN'19	C.C.	C.C.
8		K.T.	JUN'16	I.B.	B.C.
7		A.T.	JAN'15	I.B.	B.C.
6		C.M.	SEP'10	A.T.	S.C.
5		A.S.	FEB'04	R.C.	M.B.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



DES	M. BOCK	POWER STANDARD DRAWING			
DRN	A. SCHMID	EARTHING			
CKD	M. BOCK	GENERAL ARRANGEMENT - TYPE 3			
APPD	-	EARTHING ELECTRODES			
SCALE	NTS				
ISSUED	AUG'03				
ALL DIM. IN mm	A3	DRAWING NUMBER	S01-02-03-13		
DRAFTING STANDARD TO A.S.1100	CAD PRODUCT - DO NOT AMEND MANUALLY				12