



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 THE GROUND, A MINIMUM DIAMETER CAN BE DRILLED INTO THE GROUND 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. REFER TO 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. 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 | 12 | CONNECTOR, COMP., Cu, 'C' PROFILE, 70-70 SQ.MM | 255786 | S01-01-05-08 |
| 6 | 2 | LUG, COMPRESSION, Cu, 70 SQ.MM, M12 | 5512 | 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 |
| 2 | 4m | CABLE, INSULATED, Cu, Y/Gr, 70 SQ.MM | 401059 | S02-01-01-23 |
| 1 | 6 | EARTH ROD, SS316, 14MM DIA. | 414060 | S02-01-01-23 |

MATERIAL SCHEDULE

| NO | DESCRIPTION | DRN | DATE | CKD | APPD |
|----|--|------|--------|------|------|
| 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. |



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

