



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 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 METRE.

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 5 METERS. ITEM 4 SHALL BE LOWERED IN TO THE FULL DEPTH OF THIS HOLE. BACKFILLING IS TO BE AS PER NOTE 7 IN S01-02-03-13.
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 | 24 | CONNECTOR, COMP., Cu, 'C' PROFILE, 70-70 SQ.MM | 255786 | S01-01-05-08 |
| 6 | 2 | LUG, COMPRESSION, LUG, 70 SQ.MM, M12 | 5512 | S02-01-02-11 |
| 5 | 30m | MARKER TAPE | 6569 | S02-01-08-05 |
| 4 | 40m | CONDUCTOR, BARE, COPPER, 70 SQ.MM | 9803 | S01-01-05-05 |
| 3 | 20 | CONNECTOR, COMP., Cu, '6' PROFILE, 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 | 10 | EARTH ROD, SS316, 14MM DIA. | 414060 | S01-01-05-01 |
| MATERIAL SCHEDULE | | | | |

| NO | DESCRIPTION | DRN | DATE | CKD | APPD |
|----|--|------|--------|------|------|
| 12 | CORRECTED SPELLINGS, ADDED DWG REF FOR ITEMS 4 & 6. REMOVED NOTE 7 & ITEM 8. ADDED DOUBLE INDEPENDENT CONNECTIONS & NOTE 10. | A.N. | SEP'21 | A.N. | B.V. |
| 11 | INCLUDE ITEM NUMBER FOR ITEM 8 | C.C. | JAN'21 | B.V. | B.C. |
| 10 | TITLEBLOCK & DRAWING NUMBERS FORMATTED | K.T. | JAN'19 | C.C. | C.C. |
| 9 | ITEM 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. |


PowerWater
 NORTHERN TERRITORY

| DES | | POWER STANDARD DRAWING | |
|-----------|--|---------------------------------------|-----------------------------|
| M. BOCK | | EARTHING GENERAL ARRANGEMENT - TYPE 2 | |
| A. SCHMID | | EARTHING ELECTRODES | |
| M. BOCK | | A3 | DRAWING NUMBER S01-02-03-12 |
| - | | | |
| NTS | | | |
| AUG'03 | | | |
| IN mm | | | |
| A.S.1100 | | CAD PRODUCT - DO NOT AMEND MANUALLY | |