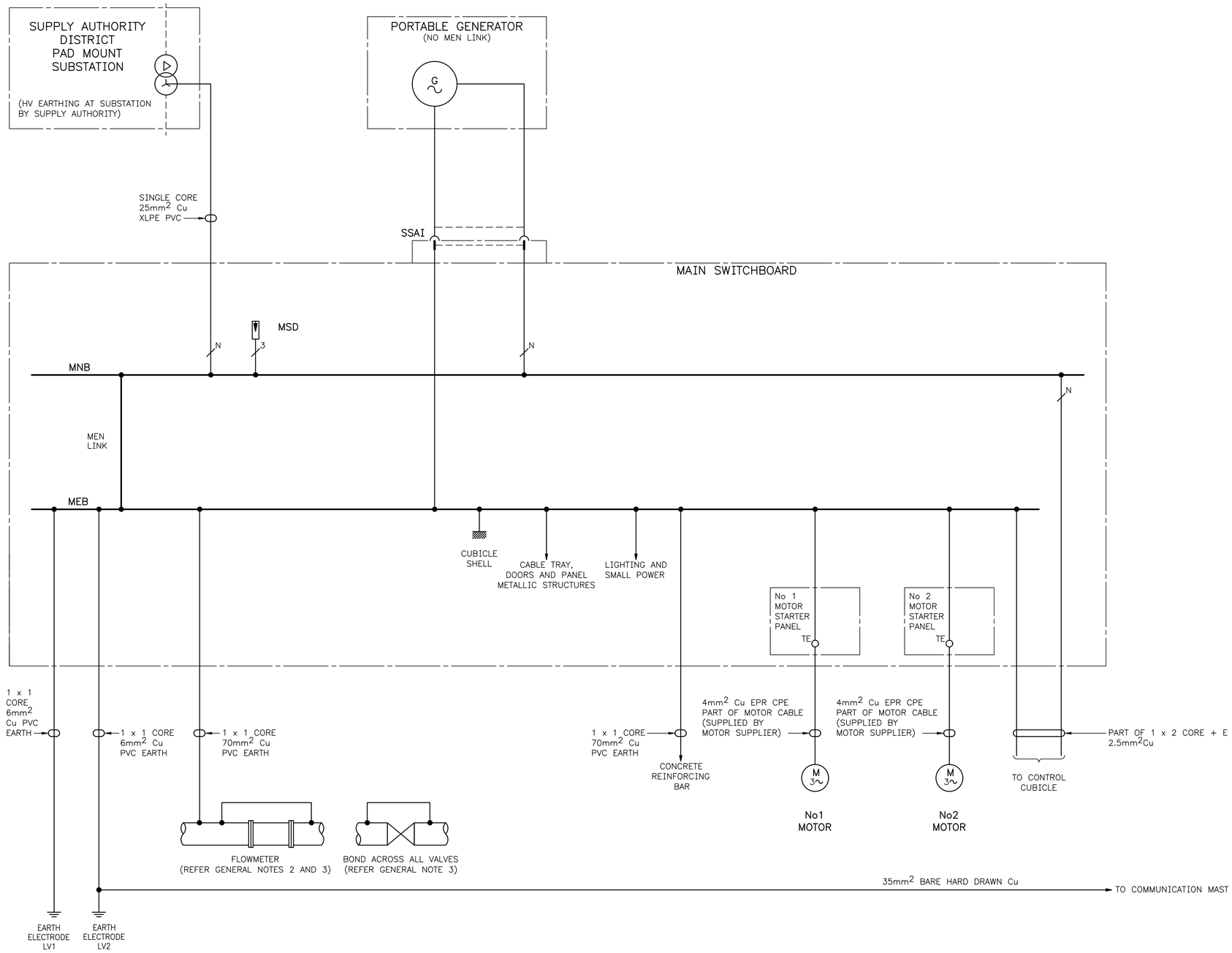


## CODE SCHEDULE

| | |
|---|---|
| MEB | MAIN EARTH BAR |
| MNB | MAIN NEUTRAL BAR |
| MSD | MAINS SURGE DIVERTER |
| SSAI | STANDBY SUPPLY APPLIANCE INLET |

## EARTH ELECTRODE NOTES

1. TWO EARTH ELECTRODES 16mm DIAMETER INSTALLED 10m DEEP AND SHALL BE SPACED A MINIMUM OF 10 METRES APART
2. INDIVIDUAL ELECTRODE RESISTANCE CALCULATED TO BE 20.87 Ω
3. ELECTRODE SYSTEM (2 ELECTRODES) RESISTANCE CALCULATED TO BE 11.77 Ω

## SOIL RESISTIVITY TESTS

PERFORMED BY JOHN DOE, A COMPANY, 7 JULY 2013

| DISTANCE (m) | 0.5 | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 15 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|
| RESISTANCE (Ω) | 306 | 146.2 | 69.8 | 25.90 | 10.9 | 4.8 | 2.7 | 1.8 | 1.3 | 1.6 |
| SOIL RESISTIVITY RHO (Ωm) | 961 | 919 | 877 | 638 | 412 | 242 | 168 | 136 | 119 | 197 |

*CAUTION*

*VALUES SHOWN ARE INDICATIVE ONLY, DRAWING IS ONLY A PRESENTATION EXAMPLE OF A COMPLETED DESIGN*

## GENERAL NOTES

1. THE OVERALL EARTHING RESISTANCE OF THE ELECTRICAL EARTHING SYSTEM SHALL BE NOT MORE THAN 15 OHMS
2. FLOWMETER TO BE EARTHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
3. UNLESS OTHERWISE SHOWN ALL BONDING CABLES 70mm2

| ISSUE | DATE | GRID | REVISION | DRN | REC | APPD |
|---|---|---|---|---|---|---|
| C | 07/2021 | | CAUTION NOTE ADDED | PH | TL | EG |
| B | 11/2019 | | COMMUNICATIONS MAST EARTH AND EB, NB CODES REVISED | PH | EG | NJ |

DESIGN SURVEY NONE | VERTICAL DATUM NONE | COORDINATE SYS NONE | ASCON SURVEY NONE | DES REF | DES CALC E FONG | DES CHD K O'GRADY | DRN P HARVEY | Q.C. CHD S MEMORY | NORTH POINT

SUBMITTED 24/07/2017 E FONG (SIGNED) SENIOR ENGINEER – ELECTRICAL

RECOMMENDED 24/07/2017 K O'GRADY (SIGNED) PRINCIPAL ENGINEER – ELECTRICAL

APPROVED 24/07/2017 N JOHNSON (SIGNED) SNR PRINCIPAL ENGINEER – ELECT

**ENGINEERING**

WATER CORPORATION

ELECTRICAL STANDARD SWITCHBOARD DESIGNS
SMALL PUMP STATIONS
ELECTRICAL PRIMARY DESIGN – DRAWING EXAMPLE
WASTEWATER 100A – EARTHING DIAGRAM

FILE | PROJECT | PLAN MN01–31–3 | CAD | ISSUE C | ORIGINAL SHEET SIZE A1 | MF

566
810

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STANDARDS\APPROVED\MN01\MN01–031–003–01C 13:26 26/04/2022 HARVEYPO/NB46193