

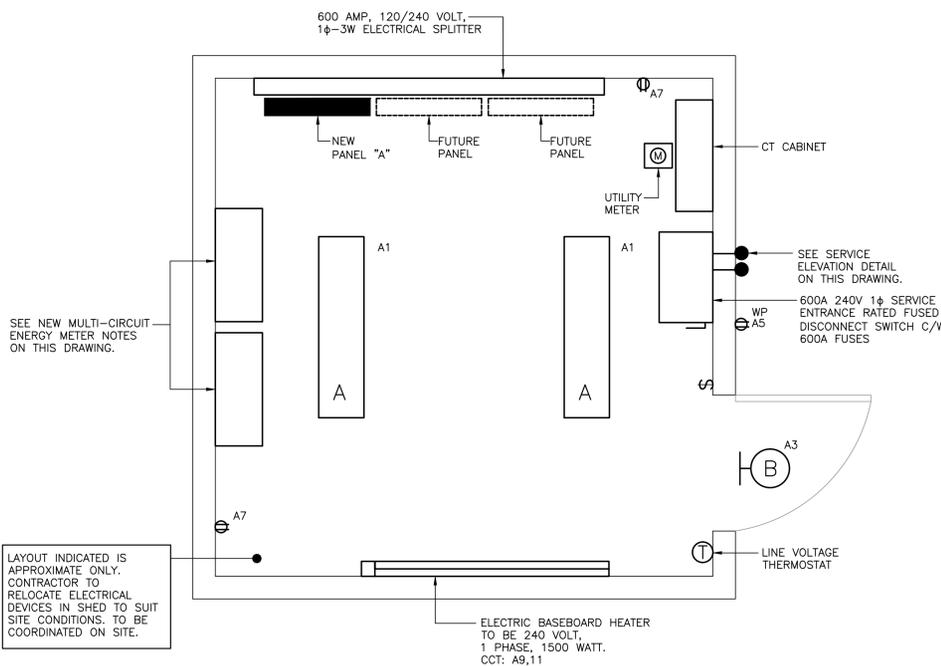
LEGEND

- Ⓚ LED LIGHTING FIXTURE, WALL MOUNTED. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- A LED LIGHTING FIXTURE. LETTER DENOTES TYPE. SEE LIGHTING FIXTURE SCHEDULE & SPECIFICATIONS FOR DESCRIPTION.
- S SINGLE POLE TOGGLE SWITCH, 15 AMP, SPECIFICATION GRADE, WHITE C/W STAINLESS STEEL COVERPLATE. SEE SPEC. FOR MORE INFORMATION. MOUNT 1200mm ABOVE FINISHED FLOOR.
- Ⓜ WP DUPLEX U-GROUND RECEPTACLE. 120 VOLT, 15 AMP, SPECIFICATION GRADE. WHITE & C/W STAINLESS STEEL COVERPLATE. WALL MOUNT 400mm ABOVE FINISHED FLOOR. "WP" INDICATES WEATHERPROOF COVERPLATE.
- Ⓜ ELEC. HEATER. SEE HEATER FIXTURE SCHEDULE AND/OR SPECIFICATION FOR DESCRIPTION.
- Ⓜ LINE VOLTAGE THERMOSTAT. RATED FOR 5000 WATTS, 208 VOLT, 1ϕ. MOUNT 1200mm ABOVE FINISH FLOOR.
- Ⓜ DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL DIVISION UNLESS NOTED OTHERWISE, EEMAC 2 (SPRINKLER PROOF) FOR INTERIOR AND EEMAC 4X FOR EXTERIOR.

ALL BRANCH CIRCUIT WIRING IN NEW ELECTRICAL SHED SHALL BE RW90 OR RWU90 WIRING IN RIGID PVC CONDUIT, SURFACE MOUNTED.

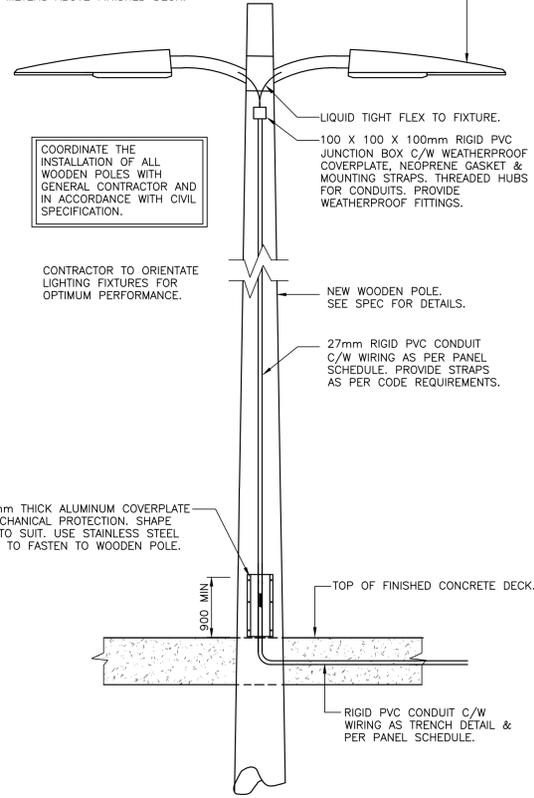
NEW MULTI-CIRCUIT ENERGY METER NOTES:

1. NEW MULTI-CIRCUIT ENERGY METER ENCLOSURES C/W DISPLAYS AND CT'S. SHALL MONITOR ALL RECEPTACLE CIRCUITS (20 SUCH) OF NEW ELECTRICAL PEDESTALS (4 SUCH). CAPACITY FOR MONITORING 30 CIRCUITS MINIMUM. MEASURE AMPERAGE, VOLTAGE, KW, KVA, KVAR, PF, HZ, KWH. INTELLIMETER OR APPROVED EQUAL. ALL METERS TO BE FACTORY SEALED AND REGISTERED WITH MEASUREMENT CANADA. COORDINATE WITH HARBOUR AUTHORITY.
2. CONTRACTOR TO SUPPLY AND INSTALL TEST BLOCK EQUAL TO MESURINA 4 POLE TEST SWITCH C/W COVER. TEST BLOCK TO BE TIED INTO NEW MULTI-METERING SYSTEM TO MEASURE VOLTAGE REFERENCE. PROVIDE LABEL TO READ "VOLTAGE TEST BLOCK".
3. CONTRACTOR SHALL ENSURE THAT THE INFORMATION LABELS OF THE CURRENT TRANSFORMERS (POLARITY MARK / DIRECTION OF CURRENT FLOW, SERIAL NUMBER, APPROVAL NUMBER, ETC.) ARE PLACED AT THE FRONT AND ARE VISIBLE AND LEGIBLE BY THE INSPECTOR.
4. CONTRACTOR TO INSTALL MULTI-METERING SYSTEM IN COMPLIANCE WITH MEASUREMENT CANADA. REFER TO THE FOLLOWING MEASUREMENT CANADA DOCUMENTS:
 - 4.1. S-E-04--INSTALLATION REQUIREMENTS FOR MULTIPLE CUSTOMER METERING SYSTEMS <https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/1m10866.html>
 - 4.2. S-E-03--SPECIFICATION FOR THE INSTALLATION AND USE OF ELECTRICITY METERS -- INPUT CONNECTIONS AND RATINGS. <https://www.ic.gc.ca/eic/site/me-mc.nsf/eng/1m09172.html>
 - 4.3. S-E-08--SPECIFICATIONS FOR THE INSTALLATION AND USE OF ELECTRICITY METERS -- MEASUREMENT CANADA STANDARD DRAWINGS FOR ELECTRICITY METERING INSTALLATIONS <https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/1m14068.html>
5. CONTRACTOR SHALL ARRANGE FOR SUPPLIERS, EQUIPMENT MANUFACTURERS, AND/OR OTHERS AS REQUIRED FOR ALL COMMISSIONING ACTIVITIES OF THIS SYSTEM. ENSURE PROPER OPERATION OF EQUIPMENT AND ON SITE TRAINING, MAKING NECESSARY CORRECTIONS AS REQUIRED. PROVIDE COMMISSIONING REPORT INCLUDING LIST OF ATTENDEES AND DATE OF ON SITE COMMISSIONING. ALL COSTS ASSOCIATED WITH COMMISSIONING REQUIREMENTS SHALL BE INCLUDED WITHIN TENDER PRICE.



NEW SHED - ELECTRICAL LAYOUT
SCALE : 1:20

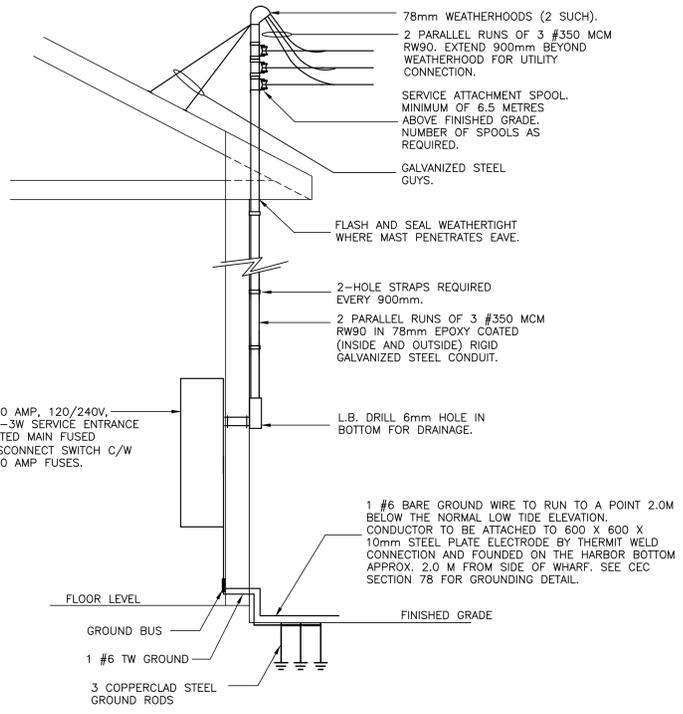
LIGHT FIXTURE, PHOTOCCELL, UPSWING ARM AND LAMP TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. OWNER SUPPLIED MATERIALS TO BE PICKED UP BY THE CONTRACTOR AT DFO'S WAREHOUSE IN MOUNT PEARL, NL. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL OTHER REQUIRED JUNCTION BOXES, CONDUIT, COVERPLATES, ETC FOR A COMPLETE INSTALLATION. FIXTURES SHALL BE MOUNTED 8.8 METERS ABOVE FINISHED DECK.



NEW LIGHT POLE DETAIL
N.T.S

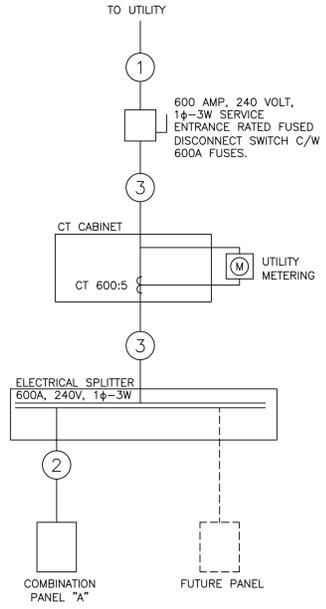
LAYOUT INDICATED IS APPROXIMATE ONLY. CONTRACTOR TO RELOCATE ELECTRICAL DEVICES IN SHED TO SUIT SITE CONDITIONS. TO BE COORDINATED ON SITE.

CONTRACTOR TO COORDINATE WITH UTILITY COMPANY NEW SERVICE REQUIREMENTS. ACTUAL MOUNTING HEIGHT OF SERVICE MAST TO BE COORDINATED WITH UTILITY COMPANY. ADJUST CONDUCTOR AND CONDUIT LENGTHS ON THIS DETAIL AS REQUIRED.

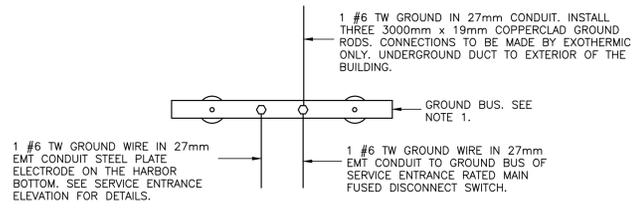


ELECTRICAL SERVICE ELEVATION DETAIL
N.T.S

| SYMBOL | WIRE AND CONDUIT SIZE |
|--------|--|
| ① | 2 PARALLEL RUNS OF 3 #350 MCM RW90 IN 78mm EPOXY COATED (INSIDE AND OUTSIDE) RIGID GALVANIZED STEEL CONDUIT. |
| ② | 2 PARALLEL RUNS OF 3 #3/0 RW90 + 1 #4 TW GROUND IN 53mm EMT CONDUIT. |
| ③ | 2 PARALLEL RUNS OF 3 #350 MCM RW90 + 1 #4 TW GROUND IN 78mm EMT CONDUIT. |



SINGLE LINE DIAGRAM
N.T.S



- NOTES:**
1. GROUND BUS TO BE 600mm x 50mm x 6mm COPPER. WALL MOUNT 450mm A.F.F. ON PORCELAIN STAND-OFF TYPE INSULATORS. MOUNT NEAR SERVICE ENTRANCE BOARD.
 2. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS. TEST AND PROVIDE ENGINEER WITH RESULTS.

GROUND BUS DETAIL
N.T.S

SMALL CRAFT HARBOURS



- NOTES:**
1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.



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|---|-------------------|----------|
| B | ISSUED FOR TENDER | 04/14/21 |
| A | ISSUED FOR REVIEW | 01/19/20 |

WHARF CONSTRUCTION
BAY DE VERDE, NL

ELECTRICAL DETAILS

| | |
|-----------------------|---------------|
| designed K.N. | concu |
| date JANUARY 2021 | |
| drawn S.E. | dessine |
| date JANUARY 2021 | |
| approved D.H. | approuve |
| JANUARY 2021 | |
| Tender Paul Curran | Submission |
| DFO Project Manager | |
| project number 723237 | no. du projet |
| drawing no. E4 | no. du dessin |