

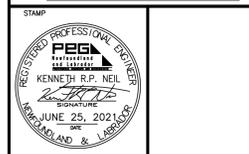
SMALL CRAFT HARBOURS



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

PROVINCE OF NEWFOUNDLAND  
 PERMIT HOLDER  
 Class "A"  
 This Permit Allows  
**CROSBIE ENGINEERING LIMITED**

To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL 00123 which is valid for the year 2021.



revision	description	date
O	ISSUED FOR TENDER	25/06/21
I	RE-ISSUED FOR REVIEW BASED ON 2021 SCOPE	11/05/21
H	RE-ISSUED FOR REVIEW BASED ON 2021 SCOPE	29/04/21
G	ISSUED FOR TENDER	06/03/18
F	RE-ISSUED FOR REVIEW	19/01/18
E	RE-ISSUED FOR REVIEW	04/12/17
D	RE-ISSUED FOR REVIEW	13/10/17
C	RE-ISSUED FOR REVIEW	13/01/17
B	ISSUED FOR 99% REVIEW	12/05/17
A	ISSUED FOR REVIEW	31/03/17

project **WHARF RECONSTRUCTION (PHASE II)**  
 GRAND BANK, NL

drawing **ELECTRICAL DETAILS AND SHED LAYOUT**

designed K.N. concu  
 date MAY 2021  
 drawn D.R. dessine  
 date MAY 2021

approved \_\_\_\_\_ approve

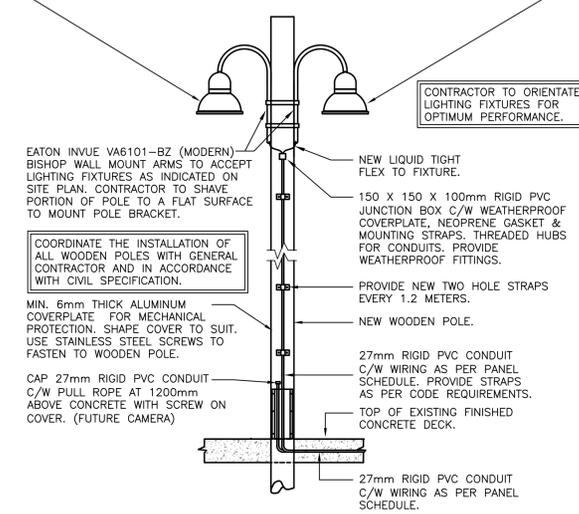
Tender Submission

DFO Project Manager project number no. du projet

**C2-00200**

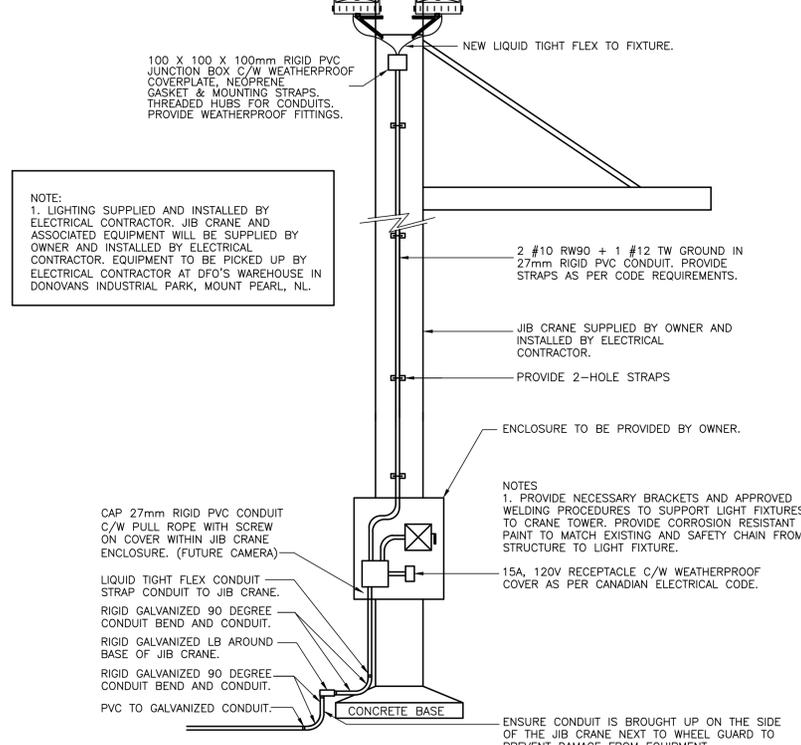
drawing no. E5 no. du dessin

NEW LIGHTING FIXTURES. EATON INVUE EMM-E03-LED-E1-SLL-S0-7030 (C/W 90° SPILL LIGHT ELIMINATOR LEFT) & EATON INVUE EMM-E03-LED-E1-SLR-S0-7030 (C/W 90° SPILL LIGHT ELIMINATOR RIGHT) OR APPROVED EQUAL. SUPPLY AND INSTALL APPROVED MOUNTING BRACKET, POLE BRACKET, AND TWIN POLE MOUNT ARM AS PER MANUFACTURER.

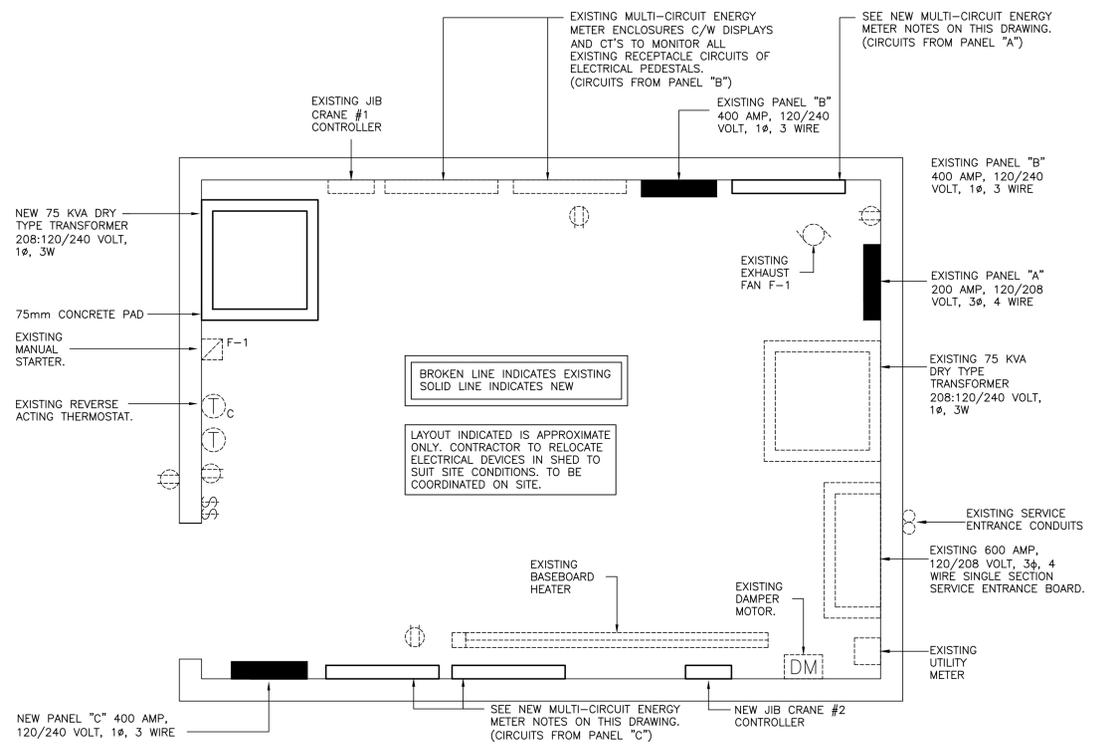


**DETAIL: LIGHT POLE #5 AND #6**  
 SCALE : N.T.S.

NEW TYPE 'A' LED LIGHT FIXTURE. SEE SPECIFICATION FOR DETAILS. SUPPLY AND INSTALL APPROVED MOUNTING BRACKET, WALL/POLE BRACKET, AND CROSS ARM FITTING AS PER MANUFACTURER.



**JIB CRANE DETAIL**  
 SCALE : N.T.S.



**ELECTRICAL SHED LAYOUT**  
 SCALE : 1:20

**NEW MULTI-CIRCUIT ENERGY METER NOTES:**

- NEW MULTI-CIRCUIT ENERGY METER ENCLOSURES C/W DISPLAYS AND CT'S. SHALL MONITOR ALL RECEPTACLE CIRCUITS (11 SUCH) OF NEW ELECTRICAL PEDESTALS (2 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.
- 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".
- 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.
- CONTRACTOR TO INSTALL MULTI-METERING SYSTEM IN COMPLIANCE WITH MEASUREMENT CANADA. REFER TO THE FOLLOWING MEASUREMENT CANADA DOCUMENTS:
  - S-E-04--INSTALLATION REQUIREMENTS FOR MULTIPLE CUSTOMER METERING SYSTEMS <https://www.ic.gc.ca/cic/site/mc-mc.nsf/eng/1m0986.html>
  - S-E-03--SPECIFICATION FOR THE INSTALLATION AND USE OF ELECTRICITY METERS -- INPUT CONNECTIONS AND RATINGS. <https://www.ic.gc.ca/cic/site/mc-mc.nsf/eng/1m00172.html>
  - 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/cic/site/mc-mc.nsf/eng/1m04068.html>
- 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.