

ELECTRICAL SPECIFICATION

Electrical installation shall be in accordance with the current edition of The Canadian Electrical Code, Provincial, Municipal and other codes, rules and regulations.

The Contract shall include the furnishing of labor, new material, equipment and services necessary and reasonably implied and/or incidental to the complete installation of the electrical Work as shown on the plans and or specified. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the Contract Administrator.

Prepare and submit to the proper authorities all necessary permits and pay all fees. Provide Contract Administrator a PDF copy of all electrical permits.

Upon completion and before final payment is made, present to Contract Administrator a Certificate of Approval for all electrical Work from the inspection department having jurisdiction.

Electrical Work shall be completed in conformance with, and subject to, all cautionary notes available to the reader including those available on the websites of the manufacturers, consultants and Contract Administrator.

Electrical installation including electrical equipment supplied, installed or connected shall be tested in the presence of the City on completion of the Work.

The Electrical Subcontractor shall visit the site and ascertain that all Work indicated can be carried out without additional cost to the City.

The Electrical Subcontractor shall guarantee the satisfactory operation of all Work and apparatus included and installed under this section of the specification for a period of twelve (12) calendar months after the final acceptance of the complete project.

The Electrical Subcontractor shall be responsible for any damage caused the Owners, the City or their Subcontractors by improperly carrying out this contract.

The Electrical Subcontractor shall carefully examine all drawings and specifications relating to the Work to be certain that the Work under this Contract can be satisfactorily carried out and prior to the submission of his tender, report at once to the Contract Administrator any defect, discrepancy, omission or interference affecting the Work of this section or the guarantee of same.

Submit one set of "as-built" prints or PDF documents to the Contract Administrator.

Grounding shall be in accordance with the latest edition of The Canadian Electrical Code.

Conduits shall be electric metallic tubing unless otherwise noted on drawings or unless prohibited by regulations. Conduits in direct contact with earth or in concrete shall be rigid PVC. Conduits shall be concealed unless otherwise noted on the drawings. Conduits shall not be exposed in any area where concealed installation, apparatus or work is required without prior written approval.

Outlet, junction and switch boxes shall be of size and type to suit the requirements of each outlet. Outlet boxes shall be accessible.

Wire and cable shall be copper of standard AWG sizes with 300V (60 Degree C) insulation, NMWU unless otherwise noted on drawings or prohibited by regulations. Aluminum conductors will not be accepted, unless otherwise indicated. Minimum wire size shall be # 12 AWG.

Panelboards shall be factory-assembled custom made of size, type and arrangement as shown on drawing. Circuit breakers shall be thermal and magnetic trip. Trip values as shown on drawing. Two or three pole breakers shall have common trip units. Mount a typewritten directory behind a plastic shield on the inside of panelboard doors. All distribution equipment to be weather-proof and c/w lockable door. All entry of conduits or cables must utilize rain-tight wiring methods. Minimum fault rating of circuit breakers shall be 22KA S.C.I.C.

Mount surface mounted equipment such as panelboards, on treated mounting boards, c/w grey enamel finish.

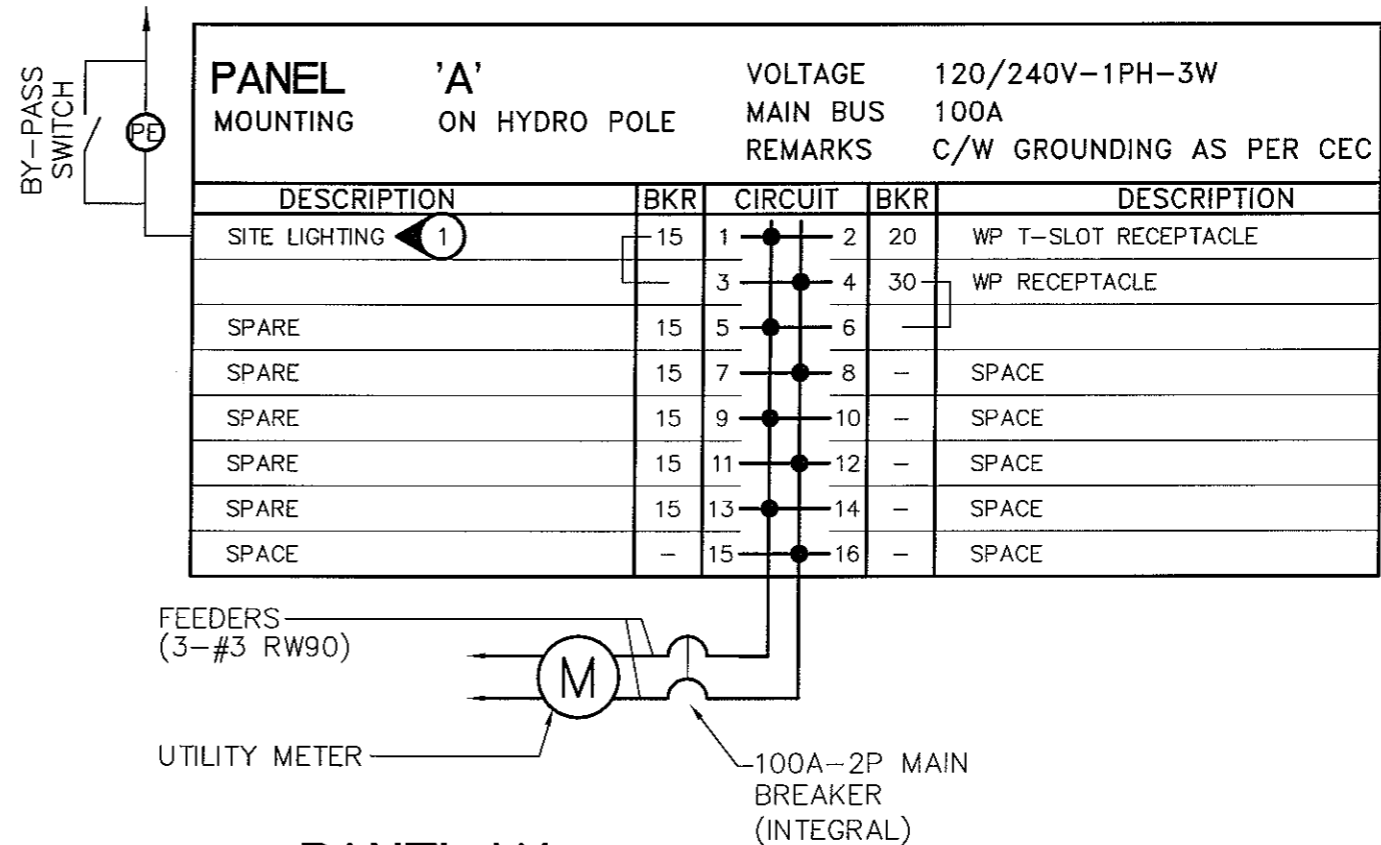
Equipment and material shall be installed as specified. Requests for equal status shall be submitted in accordance with B7. Where not covered by B7, request shall be submitted to Contract Administrator 5 Business days prior to tender submission none of these requests will be accepted past the 5 day deadline.

Electrical Subcontractor shall submit shop drawings to Contract Administrator for review prior to ordering equipment.

Supply and install, wire and connect all luminaires as indicated.

Pay all utility contribution charges for associated power services. Provide trenching and backfilling as required. Coordinate all requirements with utilities prior to tender close to ensure availability and contribution costs of services.

Identify all existing underground plant and utilities. Repair any damage to existing underground plant and utilities caused during installation of electrical equipment wiring and bases.



PANEL 'A'

NOTE: PANEL TO BE W.P., LOCKABLE, EATON RCPM108M OR APPROVED EQUAL

SPECIFIC ELECTRICAL NOTES

- ① PROVIDE PHOTOCELL CONTROL WITH MANUAL BY-PASS (ON) OF CIRCUIT 'A1,3'. PHOTOCELLS AT HIGH LEVEL ON POLE TO REDUCE RISK OF DAMAGE DUE TO VANDALISM. BY-PASS SWITCH TO BE MOUNTED IN WEATHER-PROOF, METALLIC, LOCKABLE ENCLOSURE.



APEGM
 Certificate of Authorization
 Nova 3 Engineering Ltd.
 No. 962 Date: 2018.05.16

GORD DONG DEVELOPMENT - ELECTRICAL SERVICE UPGRADE
 348 PACIFIC AVENUE - WINNIPEG, MB

ELECTRICAL - Specifications and Schedules

NOVA 3 ENGINEERING LTD.
 201-120 FORT STREET WINNIPEG, MANITOBA. R3C 1C7 WWW.NOVA3.CA
 TEL.: (204) 943-6142 FAX.: (204) 942-1276 JN.: 38-050

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NOVA 3 ENGINEERING LTD. AND MAY ONLY BE REPRODUCED WITH THE WRITTEN PERMISSION OF NOVA 3 ENGINEERING LTD.
 THE CONCEPT AND DESIGN INCORPORATED INTO THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CLIENT AND OTHER RELATED SOURCES. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR DRAWING AND DESIGN UNLESS DRAWING IS ACCOMPANIED BY ORIGINAL SEALED LETTER OF INTENT OR EQUIVALENT ACCEPTABLE FACSIMILE. PROFESSIONAL ENGINEER ACCEPTS NO RESPONSIBILITY FOR FINAL INSTALLATION CONFORMANCE WITHOUT ORIGINAL SEALED CERTIFICATE OF INSPECTION OR EQUIVALENT ACCEPTABLE FACSIMILE.

SCALE AS SHOWN	JOB NUMBER 38-050	SHEET E1.0
DATE 2018.05.03	DESIGNED BY DZ	DRAWN BY AM