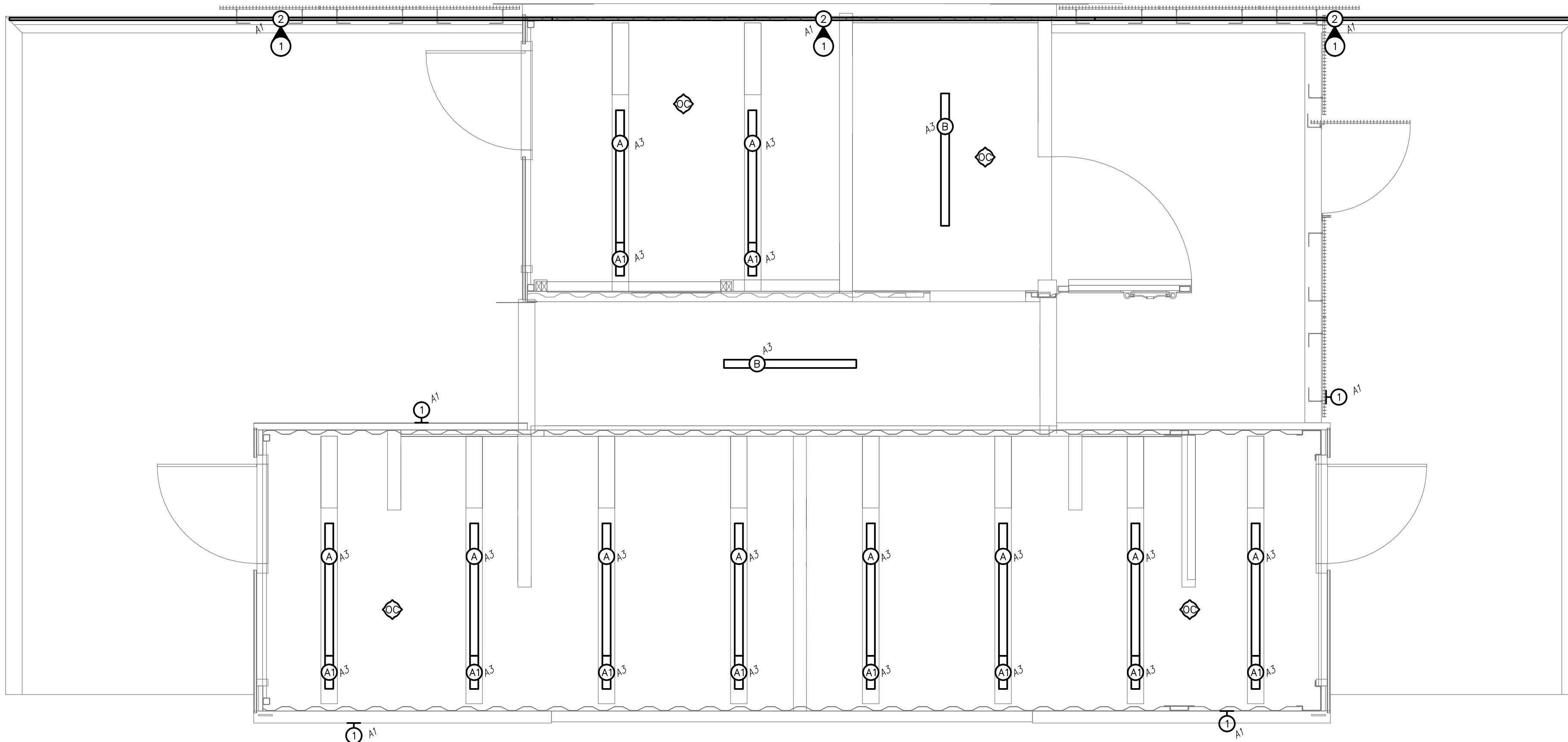


ELECTRICAL SPECIFICATION

1. Scope of Work – The contract shall include the furnishing of labour, new material, equipment and services necessary and reasonably implied and incidental to the complete installation of the electrical work shown on the plans and specifications. Supply and install all devices required for the complete approved system, operating to the complete satisfaction of the Contact Administrator.
2. Laws, Rules, Ordinances and Inspections – The entire electrical installation shall comply with the latest edition of the Canadian Electrical Code and with all provincial and municipal laws; rules and ordinances. Prepare and submit to the proper authorities all necessary permits and pay all permit fees.
3. 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 and Contact Administrator.
4. Drawings – The Electrical Subcontractor shall carefully examine all drawings relating to the work, to be certain that the work under this contract can be carried out and, prior to the submission of his tender, report at once to the Contact Administrator any defect, discrepancy, omission or interference affecting the work of this section or the guarantee of same.
5. Responsibility – Be responsible for any damage caused the owners or their contractors by improperly carrying out this contract.
6. Identification – Install designatory lettering on all electrical equipment.
7. Guarantee – The Electrical Subcontractor shall guarantee the satisfactory operation of all work and apparatus included and installed under this section for a period of twelve(12) calendar months after the final acceptance of the complete building.
8. Existing Work – The Electrical Subcontractor shall take into account items which he/she is responsible for due to the changes and alterations to the existing building and allow for such items that may occur in his/her tendered price.
9. Minimum wire size #12 AWG all wiring to be copper.
10. Provide a complete and code-conforming emergency lighting and signage system. Approved manufacturers are: Lumacell, Aimlite.
11. Unless otherwise instructed in writing, conceal all wiring.
12. Coordinate final location of electrical devices with architectural.

SYMBOL SCHEDULE

- Linear luminaire, 'B1-a' denotes panel circuit # and switch.
- Wall mounted luminaire. 'A' denotes type.
- Ceiling mounted occupancy sensor. 'W' indicates wall mounted. Auto on/off unless otherwise indicated. Sensorswitch.
- Duplex receptacle.
- Duplex receptacle weather proof.
- Duplex receptacle on separate circuit. Provide lamacoid label indicating "SC".
- Ground fault duplex receptacle.
- Motor. Refer to mechanical for exact location. For roof mounted equipment, supply and install wire and connect a separate circuit GFI receptacle in accordance with C.E.C. rule 26-704.
- Disconnect switch to suit application. By electrical contractor.
- Junction box.
- Dyson airblade hand dryer (120V-PH, 1.4KW).
- Motorized damper control wiring by mechanical contractor, 120V power supply by electrical contractor.
- Electric force flow heater c/w built in thermostat unless otherwise indicated. 'FF-4' denotes type. '4K' denotes wattage. See heating schedule for details.



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E1.0 **ELECTRICAL - LIGHTING LAYOUT**
SCALE: 1:30

SPECIFIC ELECTRICAL NOTES

- LED STRIP LOCATED ON UNDERSIDE OF ANGLE. REFER TO ARCHITECTURAL FOR EXACT LOCATION AND LENGTH.

| LUMINAIRE SCHEDULE | | | | |
|--------------------|---|---------------------|---|---------|
| TYPE | DESCRIPTION | MOUNTING | CATALOG NUMBER | LAMPS |
| A | 4' LED COVE LUMINAIRE | WITHIN COVE | LUMENPULSE LCN-RO-120-48-40K-FR-WH-NO | 24W LED |
| A1 | 1' LED COVE LUMINAIRE | WITHIN COVE | LUMENPULSE LCN-RO-120-12-40K-FR-WH-NO | 6W LED |
| B | 4' LED STRIP C/W WIRE GUARD | SURFACE | LITHONIA ZL1N-L48-5000LM-MVOLT-40K-WG Z48 | 42W LED |
| 1 | EXTERIOR WALL PACK | SURFACE, VERTICALLY | BEGA 4574 | 44W LED |
| 2 | EXTERIOR LED STRIP C/W DRIVER TO SUIT APPLICATION | SURFACE | GREEN IMAGE TECH GS50NFX3-24V-WW, M200L24DC | 24W LED |

LUMINAIRE SCHEDULE NOTES:
 1. ALL FLUORESCENT BALLAST TO BE ELECTRONIC. MB HYDRO "POWER SMART" APPROVED.
 2. ALL FLUORESCENT LAMPS TO BE 3500K & 85 CRI, UNLESS OTHERWISE NOTED.
 3. PROVIDE PHOTOCCELL CONTROL FOR ALL OUTDOOR LUMINAIRES.
 4. COORDINATE FINAL LOCATION OF LUMINAIRES WITH ARCHITECTURAL.

NOVA 3 ENGINEERING LTD.
CONSULTING ENGINEERS

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Owner
City of Winnipeg
190 River Road, Winnipeg, MB

| No. | Date | Revision Notes |
|-----|------------|-------------------------|
| 1. | 2015.04.10 | Issued for 66% REVIEW |
| 2. | 2015.05.08 | Issued For Construction |



PEGM
Certificate of Authorization
Nova 3 Engineering Ltd.
No. 962 Date: 2015.05.21

This drawing must not be scaled. The contractors shall verify all dimensions and other data on site prior to commencement of work. Discrepancies, errors, and omissions are to be reported to the Architect prior to proceeding with the Work.

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Project
St. Vital Park Washrooms

Drawing
ELECTRICAL - LIGHTING LAYOUT

Drawn By
KC/AJT
Scale
AS NOTED

Reviewed By
VJT
Drawing No.
E1.0

Date
APRIL 2015

Project No.
1445

File No.
0