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**Washroom Buildings Recapitalization  
Buildings 32, 34 & 38  
Newman Sound Campground  
Terra Nova National Park, NL  
Proj. No.: R.079272.001  
Section 26 52 00 – Emergency Lighting**

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**PART 1**      **GENERAL**

**1.1**            **SECTION INCLUDES**

- .1      Materials and installation for emergency lighting systems.

**1.2**            **RELATED SECTIONS**

- .1      Section 01 33 00 - Submittal Procedures.
- .2      Section 26 05 00 - Common Work Results – Electrical.
- .3      Section 26 05 21 - Wires and Cables (0-1000 V).
- .4      Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.

**1.3**            **REFERENCES**

- .1      Canadian Standards Association (CSA)
  - .1      CSA C22.2 No.141, Unit Equipment for Emergency Lighting.

**1.4**            **SUBMITTALS**

- .1      Data to indicate system components, mounting method, source of power and special attachments.

**1.5**            **WARRANTY**

- .1      For batteries, the ten years warranty period is extended to 120 months, with no-charge replacement during the first 5 years and pro-rate charge on the second 5 years from the date of Substantial Completion.

**PART 2**      **PRODUCTS**

**2.1**            **EQUIPMENT**

- .1      Emergency lighting equipment: to CSA C22.2 No.141.
- .2      Supply voltage: 120 V, ac.
- .3      Output voltage: 12 V dc.
- .4      Operating time: 90 minutes.

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- .5 Battery: sealed, maintenance free.
- .6 Charger: solid state, multi-rate, voltage/current regulated, inverse temperature compensated, short circuit protected with regulated output of plus or minus 0.01V for plus or minus 10% input variations.
- .7 Solid state transfer circuit.
- .8 Low voltage disconnect: solid state, modular, operates at 80% battery output voltage.
- .9 Signal lights: solid state, for 'AC Power ON'.
- .10 Lamp heads: integral on unit and remote, 345 degrees horizontal and 180 degrees vertical adjustment. Lamp type: LED as indicated.
- .11 Cabinet: suitable for direct or shelf mounting to wall and c/w knockouts for conduit. Removable or hinged front panel for easy access to batteries.
- .12 Finish: standard.
- .13 Auxiliary equipment:
  - .1 Test switch.
  - .2 Time delay relay.
  - .3 Battery disconnect device.
  - .4 AC input and DC output terminal blocks inside cabinet.
  - .5 Shelf.
  - .6 Cord and single twist-lock plug connection for AC.
  - .7 RFI suppressors.

## **2.2 WIRING OF REMOTE HEADS**

- .1 Conduit: type EMT, in accordance with Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .2 Conductors: RW90 type in accordance with Section 26 05 21 - Wires and Cables (0-1000 V) sized as indicated in accordance with manufacturer's recommendations.

## **PART 3 EXECUTION**

### **3.1 INSTALLATION**

- .1 Install unit equipment and remote mounted fixtures.

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- .2 Direct heads.
- .3 Connect exit lights to unit equipment.
- .4 Perform tests in accordance with Section 26 05 00 – Common Work Results - Electrical and in accordance with Division 01.

**END OF SECTION**