

## **PART 1 - GENERAL**

### **1.1 RELATED REQUIREMENTS**

- .1 Section 26 50 00 - Lighting.
- .2 Section 26 09 23.02 – Lighting Control Devices – Photoelectric.

### **1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CSA C22.2 No.206-2013, Lighting Poles.
  - .2 CSA S6-10, Canadian Highway Bridge Design Code.

### **1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

### **1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused metal and wiring materials from landfill to metal recycling facility approved by Departmental Representative.
- .5 Fold up metal banding, flatten and place in designated area for recycling.

### **1.5 LEED 2009 REQUIREMENTS**

- .1 LEED Documentation:
  - .1 Submit Material Safety Data Sheets (MSDS) or product data sheets, for all site applied interior paints, coatings, adhesives, sealants, sealant primers, concrete curing compounds, etc. to ensure compliance with LEED Requirements for low emitting materials as per Section 01 35 21.

## **PART 2 - PRODUCTS**

### **2.1 ALUMINUM POLES**

- .1 Aluminum poles: to CSA C22.2 No.206 designed for underground wiring and:
  - .1 Mounting on concrete anchor base.
  - .2 Style: Monotube, round tapered 6063 aluminum extruded alloy, wall thickness 6mm.
  - .3 Tapered davit for one or two luminaires, as indicated on the drawings.
  - .4 Access handhole 450 mm above pole base for wiring connections, with welded-on reinforcing frames bolted-on cover.
  - .5 Size: as indicated in Luminaire Schedule. Pole shall be CSA S6 approved to withstand 710 Pa 25 year hourly mean wind pressure.
  - .6 Anchor bolts: size as per manufacturer recommendations, galvanized steel with shims, nuts, washers and covers.
  - .7 Finish: corrosion resistant thermoset powder coat. Colour: brushed aluminum.
  - .8 Grounding lug.

### **2.2 LUMINAIRE MOUNTING BRACKETS**

- .1 Mounting brackets aluminum for specified luminaires:
  - .1 Single and twin brackets as indicated in Luminaire Schedule.
  - .2 Arm extension length as indicated in Luminaire Schedule.
  - .3 Type: cantilever.
  - .4 Finish: brushed aluminum.

### **2.3 LUMINAIRES**

- .1 Refer to Section 26 50 00 and Luminaire Schedule.

### **2.4 LEED 2009 REQUIREMENTS**

- .1 All site applied interior paints, coatings, adhesives, sealants, sealant primers, concrete curing compounds, etc. to comply with LEED Requirements for low emitting materials as per Section 01 35 21 - LEED 2009 Requirements.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- .1 Install poles true and plumb, complete with brackets in accordance with manufacturer's instructions.
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- .2 Install luminaires on pole and install lamps.
- .3 Check luminaire orientation, level and tilt.
- .4 Connect luminaire to lighting circuit.
- .5 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.