

BC MINISTRY OF TRANSPORTATION

Electrical Maintenance Specification E-350 (Version 6 – May/05)

ARCHITECTURAL AND ORNAMENTAL LIGHTING MAINTENANCE

1. OBJECTIVE

- To ensure that Architectural and Ornamental Lighting is operational and functions in accordance with their design and Ministry standards.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

- All services for the Electrical Maintenance Specification are routine.

2.2 Additional Services

- Not applicable to this Electrical Maintenance Specification.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

The Contractor must:

- a) repair or replace Architectural and Ornamental Lighting and their components;
- b) perform preventative maintenance;
- c) replace all Architectural and Ornamental Lighting lamps;
- d) notify the PHCC of any malfunctioning Architectural and Ornamental Lighting causing a traffic or pedestrian disruption and inform the PHCC when repaired;
- e) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;

- f) mark the replacement lamps with the date of replacement; and
- g) document all activities related to electrical maintenance of Architectural and Ornamental Lighting including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations.

3.1.1 Performance Time Frames

The Contractor must:

- a) repair any Architectural and Ornamental Lighting that constitutes a safety hazard to the Highway User within 1 hour from the time the deficiency was detected by or reported to the Contractor;
- b) repair or replace Architectural and Ornamental Lighting and their components that create traffic disruptions within 1 hour from the time the deficiency was detected by, or reported to the Contractor;
- c) repair or replace Architectural and Ornamental Lighting and/or their components if three (3) adjacent luminaires or more than 50 % of the luminaires are not operational within 7 days;
- d) repair or replace Architectural and Ornamental Lighting and/or their components that do not create a safety hazard, do not cause traffic disruptions, or are structurally sound but have identified deficiencies within three months;
- e) perform preventative maintenance as required;
- f) replace all High Intensity Discharge lamps every 48 months;
- g) replace all Architectural and Ornamental Lighting non-HID lamps every 12 months;
- h) notify the PHCC of any malfunctioning Architectural and Ornamental Lighting causing a traffic or pedestrian disruption within 5 minutes from the time

the malfunction was detected by or reported to the Contractor and inform the PHCC when repaired;

- i) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- j) mark the replacement lamps with the date at the time of replacement; and
- k) document all activities related to electrical maintenance of Architectural and Ornamental Lighting including but not limited to field inspections, patrols, testing, complaints received / responses made, and all changes made to the equipment and operations immediately.

3.2 Additional Services

- Not applicable to this Electrical Maintenance Specification.

3.3 Materials

- Refer to the Introduction.