

BC MINISTRY OF TRANSPORTATION

Electrical Maintenance Specification E-340 (Version 6 – May/05)

PEDESTRIAN AND CYCLIST TUNNEL LIGHTING MAINTENANCE

1. OBJECTIVE

- To ensure that Pedestrian and Cyclist Tunnel 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 this 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 Pedestrian and Cyclist Tunnel Lighting and their components;
- b) replace all Pedestrian and Cyclist Tunnel Lighting lamps;
- c) notify the PHCC of any malfunctioning Pedestrian and Cyclist Tunnel Lighting causing a traffic or pedestrian disruption and inform the PHCC when repaired;
- d) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- e) mark the replacement lamps with the actual date of replacement; and

- f) document all activities related to electrical maintenance of Pedestrian and Cyclist Tunnel 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 or replace any Pedestrian and Cyclist Tunnel 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 Pedestrian and Cyclist Tunnel Lighting and their components that create pedestrian or cyclist disruptions within 1 hour from the time the deficiency was detected by, or reported to the Contractor;
- c) repair or replace Pedestrian and Cyclist Tunnel Lighting and/or their components if two (2) adjacent luminaries or more than 50 % of the luminaries in the tunnel are not operational within 1 hour;
- d) repair or replace Pedestrian and Cyclist Tunnel Lighting and/or their components if 50 % or less are not operational within 7 working days;
- e) repair or replace Pedestrian and Cyclist Tunnel Lighting and/or their components that do not create a safety hazard, do not cause traffic disruptions, and are structurally sound but have identified deficiencies within three months;
- f) perform preventative maintenance;
- g) replace all Pedestrian and Cyclist Tunnel Lighting low pressure sodium and high pressure sodium lamps every 48 months;
- h) replace all Pedestrian and Cyclist Tunnel Lighting non-HID lamps every 12 months;
- i) notify the PHCC of any malfunctioning Pedestrian and Cyclist Tunnel Lighting causing a pedestrian or cyclist

disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and inform the PHCC when repaired;

- j) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*;
- k) mark the replacement lamps with the date at the time of replacement; and
- l) document all activities related to electrical maintenance of Pedestrian and Cyclist Tunnel 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.