

BC MINISTRY OF TRANSPORTATION

Electrical Maintenance Specification E-220 (Version 6 – May/05)

WARNING SIGNS WITH FLASHERS MAINTENANCE

1. OBJECTIVE

- To ensure that Warning Signs with Flashers are operational and function 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 Warning Signs with Flashers and their components;
- b) perform preventative maintenance;
- c) replace non-LED lamps;
- d) replace high pressure sodium lamps
- e) replace LED signal head light sources;
- f) notify the PHCC of any malfunctioning Warning Signs with Flashers causing a traffic disruption and inform the PHCC when repaired;

- g) remove or cover graffiti in accordance with the *Highway Maintenance Specification – Litter collection and Graffiti Removal*; and
- h) document all activities related to electrical maintenance of Warning Signs with Flashers 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 following establishes the maximum time, from the time the deficiency was detected or reported to the Contractor, within which the Contractor must Respond to deficiencies:

- a) Warning Signs with Flashers and their components that constitute or have the potential to constitute an immediate safety hazard to the Highway User, within 1 hour;
- b) Warning Signs with Flashers and their components that do not operate as per their original design but are not immediate safety hazards, on the next regularly scheduled work day;
- c) Warning Signs with Flashers and/or their components that operate as per the original design, do not create a safety hazard, and are structurally sound but have identified deficiencies, within 3 months;

The Contractor must:

- a) replace all non-LED lamps once every 12 months;
- b) replace high pressure sodium lamps every 4 years
- c) replace LED signal head light sources as required;
- d) notify the PHCC of any malfunctioning Warning Signs with Flashers causing a traffic disruption within 5 minutes from the time the malfunction was detected

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

- e) remove or cover graffiti in accordance with the Performance Time Frames listed in the *Highway Maintenance Specification – Litter Collection and Graffiti Removal*; and
- f) document all activities related to electrical maintenance of Warning Signs with Flashers immediately.

Note:

The Contractor will clean, repair and/or replace Warning Signs in accordance with the Maintenance Specification for “Sign System Maintenance” and its attached Appendix A.

3.2 Additional Services

- Not applicable to this Electrical Maintenance Specification.

3.3 Materials

- Refer to the Introduction.

