



Ministry of
Transportation
and Infrastructure

ELECTRICAL AND TRAFFIC ENGINEERING MANUAL

Appendix 600.3

Local Area Specification Example

LOCAL AREA SPECIFICATION #3**ADVANCED TRAVELLER INFORMATION SYSTEM (ATIS) MAINTENANCE****1. OBJECTIVE**

To ensure the Advanced Traveller Information System (ATIS) is operational and available to provide travel information. For clarity, there are 7 such systems and associated components in the service area. Specifically, 4 are located at the US Border Crossings: Highway 99, 15, 13 and 11; included in those systems are 4 associated hybrid signs: 2 on Highway 1, 1 on Highway 91 and 1 on Highway 99. The other 3 systems are located at the Alex Fraser Bridge, Lions Gate Bridge (First Narrows) and George Massey Tunnel.

2. DETAILED PERFORMANCE SPECIFICATIONS**2.1 Routine Maintenance Services**

The Contractor must:

- a) repair or replace all electrical components in accordance with the Province's and manufacturer's maintenance manuals and checksheets, the inventory list (available on the Ministry website at http://www.th.gov.bc.ca/bchighways/contracts/electrical/SA_lower_mainland.htm), and ATIS system manual whichever manual has the higher standard;
- b) repair or replace all border ATIS electrical equipment including the following systems, as applicable:
 - i) central system computer;
 - ii) webcams and their components including support structures and communication;
 - iii) advanced traffic controller units;
 - iv) detector loops including detector cards and cables;
 - v) dynamic message signs including communication;
 - vi) fibre optic cable;
 - vii) all underground equipment including junction boxes;
 - viii) all advanced traffic controller or central computer system cabinets; and
 - ix) all power distribution from the point of attachment to the power authority;
- c) immediately, upon detection or notification to the Contractor of an electrical system failure, initiate corrective maintenance and report the failure to the Province;

- d) notify the PHCC of any malfunctioning ATIS electrical system causing a traffic or pedestrian disruption within 5 minutes from the time the malfunction was detected by or reported to the Contractor and notify the PHCC when repaired;
- e) monitor on a daily basis system operation using ATIS maintenance website;
- f) repair or replace any ATIS electrical system that constitutes a Safety Hazard to the highway user and Respond within 1 hour;
- g) repair or replace central computer that is not functioning as designed within 5 Working Days;
- h) repair or replace web cameras or their components that do not create a Safety Hazard or causing a Traffic Disruption on the next Working Day and inform the PHCC when repaired;
- i) repair or replace digital message sign and their components that do not create a Safety Hazard or causing a Traffic Disruption, but are not operating as designed, within two Working Days;
- j) repair or replace advanced traffic controller units that are not functioning as designed on the next Work Day;
- k) repair or replace any detection loop and associated card within 10 Working Days;
- l) repair or replace fiber optic cable and associated modems within 1 week;
- m) document all activities related to electrical maintenance of ATIS lighting including but not limited to field inspections, Patrols, testing, complaints received / responses made, and all changes made to the equipment and operations in a timely manner to the Province's satisfaction.

Note:

If it is estimated by the Contractor and confirmed by the Ministry Representative, that the costs to repair or replace systems or associated components exceeds \$10,000 per incident, the Ministry will reimburse the Contractor for costs greater than \$10,000. The contractor is responsible for the amount up to \$10,000.

2.2**Materials**

The Contractor must supply and use materials in accordance with the Province's and/or manufacturer's maintenance manuals, whichever manual has the higher standard, or as proposed by the Contractor and approved in writing by the Province.