



Subject: Cost Sharing Guidelines for Electrical Installations on Arterial Highways	
Date: November 30, 2005	Author: Ross Casey
Bulletin Number: TE-2005-08 Bulletin Type: Clarification of Existing Policy	Effective Date: Immediately
Audience	Standards Affected
All holders of the Electrical and Traffic Engineering Manual	None

Background:

The Ministry of Transportation cost shares in all warranted electrical installations on arterial highways. This technical bulletin summarizes the pertinent electrical cost sharing information taken from the document G 23/87 – Classified Highways – Part 3 Transportation Act. Responsibility and Cost Sharing Guide.

Policy:

Cost sharing with municipalities and other governing bodies shall be implemented for all relevant electrical installations in accordance with this technical bulletin, which is based on Ministry Circular Letter G 23/87. The cost sharing applies to both installation and power and maintenance costs.

Procedure:

Electrical Designers shall determine and document cost sharing responsibility for all electrical designs. The estimated capital costs shall be determined early in the design process so that the Ministry can obtain written confirmation of a municipality’s or governing body’s consent to proceed with an installation. Power and maintenance cost sharing shall be included as part of the Electrical Design folder.

The relevant Ministry Project Manager or Manager, Electrical Services, as applicable, shall contact the municipality or governing body, in writing, with estimated capital costs and cost sharing percentages. The relevant Ministry Manager, Electrical Services will prepare and forward agreement cards to the municipality or governing body, outlining power and maintenance cost sharing.

Municipalities or governing bodies shall be invoiced for their share of capital costs at the completion of construction, when actual costs are determined.

Municipalities or governing bodies shall be invoiced for their share of power and maintenance costs quarterly, in arrears.

The attached documents should be used as a guideline when determining cost sharing for electrical installations.

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Table 1 - Responsibility for Electrical Works on Arterial Highways

Work Item	Arterial(Non-Freeway)						Arterial(Freeway)					
	Construction			Maintenance			Construction			Maintenance		
	Resp Agency	Prov %	Mun. %	Resp Agency	Prov %	Mun. %	Resp Agency	Prov %	Mun. %	Resp Agency	Prov %	Mun. %
1.) Lighting of Intersections & Raised channelization considered warranted by the Ministry (including lease lighting)	Ministry	see table in G 23/87		Ministry	see table in G 23/87		Ministry	100	0	Ministry	100	0
2.) Lighting of Intersections not considered warranted by the Ministry	Municipality	0	100	Municipality	0	100	N/A	N/A	N/A	N/A	N/A	N/A
3.) Lighting between Intersections considered warranted by the Ministry	Ministry	100	0	Ministry	100	0	Ministry	100	0	Ministry	100	0
4.) Lighting between Intersections not considered warranted by the Ministry	Ministry or Municipality	0	100	Ministry or Municipality	0	100	Ministry	0	100	Ministry	0	100
5.) Traffic Signals & flashing beacons including preducting & interconnection	Ministry	see table in G 23/87		Ministry	see table in G 23/87		N/A	N/A	N/A	N/A	N/A	N/A
6.) Pedestrian signals	Ministry	50	50	Ministry	50	50	N/A	N/A	N/A	N/A	N/A	N/A
7.) Fire or Emergency signals	Ministry	50	50	Ministry	50	50	N/A	N/A	N/A	N/A	N/A	N/A
8.) Pre-emption a.) Rail and bus pre-emption b.) Emergency	Ministry	0	100	Ministry	0	100	N/A	N/A	N/A	N/A	N/A	N/A
9.) Audible Signals	Ministry	0	100	Ministry	0	100	N/A	N/A	N/A	N/A	N/A	N/A
10.) Countdown Pedestrian Signals	Ministry	0	100	Ministry	0	100	N/A	N/A	N/A	N/A	N/A	N/A

[See clause 407.2 of the Electrical and Traffic Engineering Design Manual](#)

Excerpts from and clarification of Circular Letter G 23/87

Arterial Highways

Responsibility and Cost Sharing Guide

(Pertains to Electrical Installations Only and is only to be used as a supplement to the Transportation Act – in the event of conflict, the Highway Act shall prevail)

Responsibility and Cost Sharing

- 1.) Provincial participation in cost shared works requested by municipalities on Arterial Highways is subject to Ministry approval and availability of funds. Enquiries and applications for cost sharing should be directed to the appropriate District office of the Ministry.
- 2.) The Ministry has control of the design on Arterial Highways. It may agree to inclusion of features on Arterial Highways which will be paid for by a municipality.
- 3.) The attached Table 1 specifies responsibility as either Ministry or Municipality and indicates a percentage division of costs for most electrical works items on arterial highways.
- 4.) Generally, the Ministry installs lighting on steel poles and municipalities arrange with power utilities for leased lighting on utility poles. The Ministry will participate in installation, power and maintenance for lighting intersections where the Ministry warrants are filled and the design and light source are approved by the Ministry. The Ministry generally performs maintenance on lighting which it has installed. See clause 302.2 of the Electrical and Traffic Engineering Manual for more information regarding cost sharing and financial responsibility for lighting.
http://www.th.gov.bc.ca/publications/eng_publications/electrical/electrical_and_traffic_eng/2004-Electrical_Signing_Design_Manual/Section%20300/Section%20300.pdf
- 5.) Where new signals (traffic, flashing beacon and pedestrian) are to be installed or existing signals reconstructed at existing intersections, Ministry warrants must be filled.
- 6.) While installation of fire signals on non-freeway type Arterial Highways is generally a municipal or Fire District responsibility, the Ministry is responsible for paying the full cost of installation if necessitated by construction of a new major highway, if considered warranted by the Ministry.

- 7.) While the Railway company is responsible for railway signal installation and maintenance, the Road Authority (a municipality, the Ministry or both) shares in the costs. In the case of Federally regulated railways, the Federal/Company/Road Authority division of costs is defined in a Board Order. With Provincially regulated railways, the Company/Road Authority division of costs is defined in an Order-in-Council.
- 8.) Cost of construction and maintenance for warranted traffic signals and lighting on non-freeway type Arterial Highways, at intersections with four legs, will be as follows:
 - a.) At the junction of two Arterial Highways the Ministry will pay all costs.
 - b.) At the junction of an Arterial Highway and a municipal road, the cost sharing will be 50 % Ministry and 50 % Municipal.

At intersections with other than four legs, cost sharing shall be on a pro-rata basis to be calculated by the Ministry.

- 9.) The term “municipal” may be replaced with Fire District, Regional District or other local government agency.
- 10.) A municipality is responsible for providing, maintaining and paying costs to provide a “request for pre-emption” signal, as defined in Clause 407.2 of the Electrical and Traffic Engineering Manual.
http://www.th.gov.bc.ca/publications/eng_publications/electrical/electrical_and_traffic_eng/2004-Electrical_Signing_Design_Manual/Section%20400/Section%20400.pdf
- 11.) Municipalities shall pay all costs associated with the installation of audible and pedestrian countdown signals.