



Subject: Electrical Power Meters for MoT&I Services	
Date: November 22, 2016	Author: Steve Drew
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Audience	Standards Affected
Ministry Managers, Electrical Services; all holders of the Electrical and Traffic Engineering Manual; all Project Managers and Traffic Engineers; all Design Consultants	Electrical & Traffic Engineering Manual, Electrical & Signing Materials Standards, Standard Specification for Highway Construction

Background:

Utility power meters are not currently mandatory on Ministry electrical services. Lighting installations previously used high pressure sodium (HPS) fixtures and power consumption remained constant, regardless of fixture manufacturer. With the advent of LED roadway lighting this is no longer true; power consumption of LED fixtures varies among manufacturers even when lumen output is similar. With ITS equipment, such as web cameras and message signs, power consumption cannot be predicted as the electrical load depends upon many variables. In order to ensure accurate reporting of power consumption, the Ministry will require utility power meters at all new and upgraded electrical installations.

Policy:

Effective immediately, all new and upgraded electrical services shall have utility power meters installed. The installation of meters shall comply with the construction standards of the power utility and with the Ministry *Standard Specifications for Highway Construction*, Section 635, drawings SP-635 2.4.1 to 2.4.20. Electrical service panels shall be sourced from the Ministry *Recognized Products List*.

Procedure:

Enquiries pertaining to utility power connection or account setup shall be directed to the Ministry *Manager, Electrical Services*. Enquiries pertaining to design of electrical installations in general shall be directed to the Ministry *Electrical Engineering Services Design Group*.

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