

SECTION 671 TRAFFIC CONTROLLERS

671-1 Description.

Furnish and install a traffic controller unit as shown in the Plans. Meet the requirements of Section 603.

671-2 Materials.

Use traffic controllers listed on the Department's Approved Product List (APL). Ensure equipment is permanently marked with the manufacturer's name or trademark, part number, and serial number.

Controllers must meet the following applicable industry standards:

NEMA TS2 Controller NEMA TS-2-2003

Model 170 Controller CALTRANS TEES, 2009

Model 2070 Controller

..... CALTRANS TEES, 2009 ERRATA No. 2

Note: All controllers must meet AASHTO/ITE/NEMA ATC 5201, v06.25.

All controllers must provide functionality that meets or exceeds operational characteristics, including NTCIP support, as described in NEMA TS-2-2016.

If shown in the Plans, new installations must include controllers that will:

1. Deactivate the dimming circuit of LED street lighting, as shown in the Plans, during pedestrian activations. Pedestrian detector diagnostics must be activated when this feature is used.

2. Capture all mandatory event-based data elements listed in supplemental requirement SR-671-2, Supplemental Traffic Controller High Resolution Data Logging Requirements, as published on the Department's State Traffic Engineering and Operations Office website at the following URL:

http://www.fdot.gov/traffic/Traf_Sys/Product-Specifications.shtm.

3. Provide and make Management Information Bases (MIBs) available for Traffic Signal Controller Broadcast Messages (TSCBM) to local agencies and FDOT that are compatible with Society of Automotive Engineer (SAE) J2735 201603.

4. Support programming of destination Internet Protocol (IP) addresses via controller front panel for interface with Dedicated Short-Range Communication (DSRC) Roadside Units (RSU), also called Vehicle to Infrastructure (V2I) Hubs.

671-3 Method of Measurement.

No separate payment will be made for the controller; payment is included with the Traffic Controller Assembly.