



## Florida Department of Transportation

**RICK SCOTT**  
**GOVERNOR**

605 Suwannee Street  
Tallahassee, FL 32399-0450

**ANANTH PRASAD, P.E.**  
**SECRETARY**

August 2, 2011

Monica Gourdine  
Program Operations Engineer  
Federal Highway Administration  
545 John Knox Road, Suite 200  
Tallahassee, Florida 32303

Re: Office of Design, Specifications  
Section 603  
Proposed Specification: 6030202 General Requirements for the Installation and  
Evaluation of Traffic Control Signals and Devices

Dear Ms. Gourdine:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Trey Tillander to update the specification to processes, approval references and definitions contained in the Traffic Engineering Manual.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965RP or rudy.powell@dot.state.fl.us.

If you have any questions relating to this specification change, please call Rudy Powell, State Specifications Engineer at 414-4280.

Sincerely,

Signature on File

Rudy Powell, Jr., P.E.  
State Specifications Engineer

RP/ft

Attachment

cc: Calvin Johnson, Chief Civil Litigation  
Florida Transportation Builders' Assoc.  
State Construction Engineer

## GENERAL REQUIREMENTS FOR THE INSTALLATION AND EVALUATION OF TRAFFIC CONTROL SIGNALS AND DEVICES.

(REV ~~1-20-105-18-116-16-11~~) (~~FA 1-28-10~~) (7-10)

SUBARTICLE 603-2.2 is deleted and the following substituted:

**603-2.2 Exceptions:** The Department may grant exceptions to the requirements of 603-2.1 by Temporary Permit ~~or Conditional Approval for Limited Use~~ to evaluate new technology or for other circumstances that are found to be in the public interest.

ARTICLE 603-3 is deleted and the following substituted:

### 603-3 Definitions.

Traffic Control Signals and Devices: ~~Any signal or device, manually, electrically or mechanically operated by which traffic is alternately directed to stop and permitted to proceed or controlled in any manner. Traffic control signals and devices regulate, warn, or guide traffic on, over, or adjacent to a street, highway, pedestrian facility, or bikeway by authority of a public agency having jurisdiction. The Department lists all specifications for traffic control signals and devices required to be preapproved and listed on the APL at:~~

~~[http://www.dot.state.fl.us/trafficoperations/Traf\\_Sys/terl/apl4.shtm](http://www.dot.state.fl.us/trafficoperations/Traf_Sys/terl/apl4.shtm)~~. Any signal or device, manually, electrically or mechanically operated, by which traffic is alternately directed to stop and permitted to proceed or controlled in any manner. Traffic Control Signals and Devices regulate, warn, or guide traffic on, ~~over, over~~ or adjacent to a street, highway, pedestrian facility, or bikeway by authority of a public agency having jurisdiction. Traffic Control Signals and Devices include, but are not limited to, controller assemblies (controller cabinets and their contents); signal heads including their hanging or mounting devices; vehicle detection systems (loops, sealant, amplifier, lead-in wire, or cable); pedestrian detection systems (push button, push button housing, lead-in wires, and signal); Motorist Information Systems, Video Equipment, Network Devices, Dynamic Message Signs, Highway Advisory Radios, ~~Road Weather Information Systems,~~ Cameras, Vehicle Detection Systems, and other equipment used within a traffic control system.

Minimum Specifications for Traffic Control Signals and Devices: *The minimum specifications used for the evaluation, certification, and approval of official traffic control signals and devices and ancillary devices for use on the streets and highways of Florida. The specifications are available on the Traffic Engineering and Operations web site.* ~~The current edition of the MSTCSD, maintained by the State Traffic Engineering and Operations Office, which provides standards and specific technical requirements for electronic equipment and materials for the evaluation of traffic control signals and devices.~~

Approved Product List (APL): *A listing of approved traffic control signals and devices, and ancillary devices or system equipment that the Department has reviewed for compliance to specifications and authorized for use on the streets and highways of Florida. The APL is available on the Traffic Engineering and Operations web site.* ~~A~~

~~listing of certified or approved traffic control signals and devices and hardware, compiled and maintained by the State Traffic Engineering and Operations Office.~~

~~Temporary Permit: *The Department is authorized to permit traffic control signals and devices not in conformity with the uniform system upon showing of good cause. This permit is issued by the State Traffic Engineering and Operations Office for a specified time period at specific locations for a specific product. This permit is issued only when it has been determined to be in the best interest of the public to allow its limited use. This permit is issued to a public or private entity for the purpose of evaluating the device's operational effectiveness and safety.*~~ *A permit issued by the Traffic Engineering and Operations Office to a public or private entity for the purpose of evaluating the operational effectiveness and safety of a device for a specified time period at specific locations. This permit is issued only when the limited use of the device is in the best interest of the public.* ~~A permit issued by the State Traffic Engineering and Operations Office. A Temporary Permit is issued to a public or private entity for the temporary installation of a device for the purpose of evaluating the device's operational effectiveness and safety. Under a Temporary Permit, the device shall be provided at no cost to the Department for the duration of the evaluation. The State Traffic Engineering and Operations Office maintains the list of temporarily permitted traffic control signals and devices.~~

~~Conditional Approval for Limited Use: A limited approval issued by the State Traffic Engineering and Operations Office for a specified time period at a specific location(s) for products requiring approval by the Department and that are determined to be in the best interest of the public. All conditions of the approval must be met for the device to be allowed to remain installed and in use. This approval is issued to a public or private entity for the purpose of evaluating the device's operational effectiveness and safety. The State Traffic Engineering and Operations Office maintains the list of conditionally approved traffic control signals and devices.~~

ARTICLE 603-5 is deleted and the following substituted:

### **603-5 Device Approval Process.**

The *Department's Approved Product List* ~~traffic control signals and devices evaluation and certification/~~ and approval process is described in *the FDOT Traffic Engineering Manual, detail in Section 7.1A601 of the MSTCSD.*

ARTICLE 603-6 is deleted and the following substituted:

### **603-6 Marking of Approved Equipment.**

Ensure that traffic control signals and devices are marked in accordance with Section A601-~~6~~ of the MSTCSD.

ARTICLE 603-7 is deleted and the following substituted:

**603-7 Submittal Data Requirements.**

Prior to the installation of equipment and within 30 days after the preconstruction conference, submit a completed listing of all traffic control signals, devices, or hardware with *FDOT* APL *approval certification* number(s) to the Engineer for approval on *the* form ~~750-010-02, Submittal Data—Traffic Control Equipment~~, provided by the Department. ~~On all~~*For* non-structural equipment or materials that do not have a ~~Florida~~ *D*~~Department of Transportation~~ *APL approval Certification n*Number, submit one copy of the manufacturer's descriptive literature and technical data fully describing the ~~types~~ *of* equipment ~~that will be used~~ to the Engineer *for approval*.

Develop shop drawings for all structural support materials and other special designs, such as non-electrical, non-mechanical, or other fabricated items, which may not be specifically detailed in the plans. Have the Specialty Engineer approve all shop drawings. Do not submit shop drawings for those items that have been previously evaluated and approved. Meet the requirements of 5-1.4 for shop drawings. Send two copies of the shop drawings signed and sealed by the Specialty Engineer to the Engineer.

~~The Engineer will approve submittal data for devices having a Florida Department of Transportation APL Certification Number—The Department is not liable for any equipment or material purchased, work done, or delay incurred prior to such approval.~~

Provide a complete operable signal installation as specified in the Contract regardless of any failure of the Department to discover or note any unsatisfactory material. Meet the requirements of Section 608.

## **GENERAL REQUIREMENTS FOR THE INSTALLATION AND EVALUATION OF TRAFFIC CONTROL SIGNALS AND DEVICES.**

**(REV 6-16-11)**

SUBARTICLE 603-2.2 is deleted and the following substituted:

**603-2.2 Exceptions:** The Department may grant exceptions to the requirements of 603-2.1 by Temporary Permit to evaluate new technology or for other circumstances that are found to be in the public interest.

ARTICLE 603-3 is deleted and the following substituted:

### **603-3 Definitions.**

**Traffic Control Signals and Devices:** Any signal or device, manually, electrically or mechanically operated by which traffic is alternately directed to stop and permitted to proceed or controlled in any manner. Traffic Control Signals and Devices regulate, warn, or guide traffic on, over or adjacent to a street, highway, pedestrian facility, or bikeway by authority of a public agency having jurisdiction. Traffic Control Signals and Devices include, but are not limited to, controller assemblies (controller cabinets and their contents); signal heads including their hanging or mounting devices; vehicle detection systems (loops, sealant, amplifier, lead-in wire, or cable); pedestrian detection systems (push button, push button housing, lead-in wires, and signal); Motorist Information Systems, Video Equipment, Network Devices, Dynamic Message Signs, Highway Advisory Radios, Cameras, Vehicle Detection Systems, and other equipment used within a traffic control system.

**Minimum Specifications for Traffic Control Signals and Devices:** The minimum specifications used for the evaluation, certification, and approval of official traffic control signals and devices and ancillary devices for use on the streets and highways of Florida. The specifications are available on the Traffic Engineering and Operations web site.

**Approved Product List (APL):** A listing of approved traffic control signals and devices, and ancillary devices or system equipment that the Department has reviewed for compliance to specifications and authorized for use on the streets and highways of Florida. The APL is available on the Traffic Engineering and Operations web site.

**Temporary Permit:** A permit issued by the Traffic Engineering and Operations Office to a public or private entity for the purpose of evaluating the operational effectiveness and safety of a device for a specified time period at specific locations. This permit is issued only when the limited use of the device is in the best interest of the public.

ARTICLE 603-5 is deleted and the following substituted:

### **603-5 Device Approval Process.**

The Department's Approved Product List certification and approval process is described in the FDOT Traffic Engineering Manual, Section 7.1

ARTICLE 603-6 is deleted and the following substituted:

**603-6 Marking of Approved Equipment.**

Ensure that traffic control signals and devices are marked in accordance with Section A601 of the MSTCSD.

ARTICLE 603-7 is deleted and the following substituted:

**603-7 Submittal Data Requirements.**

Prior to the installation of equipment and within 30 days after the preconstruction conference, submit a completed listing of all traffic control signals, devices, or hardware with FDOT APL approval number(s) to the Engineer for approval on the form provided by the Department. For non-structural equipment or materials that do not have a FDOT APL approval number, submit one copy of the manufacturer's descriptive literature and technical data fully describing the equipment to the Engineer for approval.

Develop shop drawings for all structural support materials and other special designs, such as non-electrical, non-mechanical, or other fabricated items, which may not be specifically detailed in the plans. Have the Specialty Engineer approve all shop drawings. Do not submit shop drawings for those items that have been previously evaluated and approved. Meet the requirements of 5-1.4 for shop drawings. Send two copies of the shop drawings signed and sealed by the Specialty Engineer to the Engineer.

Provide a complete operable signal installation as specified in the Contract regardless of any failure of the Department to discover or note any unsatisfactory material. Meet the requirements of Section 608.