



*Florida Department of Transportation*

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GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.  
SECRETARY

September 12, 2023

Khoa Nguyen  
Director, Office of Technical Services  
Federal Highway Administration  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: State Specifications Office  
Section: **603**  
Proposed Specification: **6030206 General Requirements for Traffic Control Signals and Devices.**

Dear Mr. Nguyen:

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

The changes are proposed by Derek Vollmer to identify current standards, clarify definitions, and clarify shop drawing submittal/approval requirements.

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email [daniel.strickland@dot.state.fl.us](mailto:daniel.strickland@dot.state.fl.us).

If you have any questions relating to this specification change, please call me at (850) 414-4130.

Sincerely,

Signature on file

Daniel Strickland, P.E.  
State Specifications Engineer

DS/dh

Attachment

cc: Florida Transportation Builders' Assoc.  
State Construction Engineer

**GENERAL REQUIREMENTS FOR TRAFFIC CONTROL SIGNALS AND DEVICES.  
(REV 8-10-23)**

SUBARTICLE 603-2.6 is deleted and the following is substituted:

**603-2.6 Environmental Specifications:** Ensure system electronics intended for installation outdoors or within a roadside cabinet satisfactorily performs all required functions during and after being subjected to the environmental testing described in National Electrical Manufacturers Association (NEMA) ~~TS2~~[TS 2-2021](#), [Sections 2.2.7, 2.2.8, and 2.2.9.](#)

ARTICLE 603-3 is deleted and the following is 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 ; pedestrian detection systems; motorist information systems, video equipment, network devices, ~~dynamic message signs~~[electrically powered signs](#), ~~highway advisory radios~~, cameras, and other equipment used within a traffic control system.

ARTICLE 603-5 is deleted and the following is substituted:

**603-5 Submittal Data Requirements.**

Prior to the installation of equipment and within 30 days after the preconstruction conference, submit a listing of all traffic control signals, devices, and hardware with Department APL approval numbers to the Engineer for approval on Form 750-010-02, Submittal Data - Traffic Control Equipment. Alternate or modified forms are unacceptable. Submit a separate form for each cabinet location. For non-structural equipment or materials that do not have an APL approval number, submit the manufacturer's descriptive literature and technical data fully describing the equipment to the Engineer for approval. The Engineer will submit forms received from the Contractor to the District Traffic Operations Engineer for concurrence.

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.~~ 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.

ARTICLE 603-6 is deleted and the following is substituted:

**603-6 Documentation for Electronic Equipment.**

Prior to final acceptance, submit the following documentary ~~item~~tion obtained from the manufacturer for the electronic equipment listed below:

1. Operation Manual
2. Troubleshooting and Service Manual
3. Assembly and installation instructions
- ~~4. Pictorial layout of components and schematics for circuit boards~~
- ~~5. Parts list~~
- ~~6~~4. Diagram of the field installation wiring (~~not as~~ applicable ~~to the detectors~~)
- ~~7~~5. Warranty information

Submit documentary ~~item~~tion for the following equipment:

1. Controllers
2. Vehicle detectors
3. Load switches
4. Flasher units
5. Preemption units
6. Conflict monitors
7. Special sequence relays
8. Cameras
9. Dynamic message signs
- ~~10. Highway advisory radios~~
- ~~11~~0. Road weather information systems
- ~~12~~1. Any other equipment which has a logic, timing, or communications function
- ~~13~~2. Other equipment specified in the Contract Documents

**GENERAL REQUIREMENTS FOR TRAFFIC CONTROL SIGNALS AND DEVICES.  
(REV 8-10-23)**

SUBARTICLE 603-2.6 is deleted and the following is substituted:

**603-2.6 Environmental Specifications:** Ensure system electronics intended for installation outdoors or within a roadside cabinet satisfactorily performs all required functions during and after being subjected to the environmental testing described in National Electrical Manufacturers Association (NEMA) TS 2-2021, Sections 2.2.7, 2.2.8, and 2.2.9.

ARTICLE 603-3 is deleted and the following is 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 controller assemblies (controller cabinets and their contents); signal heads including their hanging or mounting devices; vehicle detection systems ; pedestrian detection systems; motorist information systems, video equipment, network devices, electrically powered signs, cameras, and other equipment used within a traffic control system.

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**603-5 Submittal Data Requirements.**

Prior to the installation of equipment and within 30 days after the preconstruction conference, submit a listing of all traffic control signals, devices, and hardware with Department APL approval numbers to the Engineer for approval on Form 750-010-02, Submittal Data - Traffic Control Equipment. Alternate or modified forms are unacceptable. Submit a separate form for each cabinet location. For non-structural equipment or materials that do not have an APL approval number, submit the manufacturer's descriptive literature and technical data fully describing the equipment to the Engineer for approval. The Engineer will submit forms received from the Contractor to the District Traffic Operations Engineer for concurrence.

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 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.

ARTICLE 603-6 is deleted and the following is substituted:

**603-6 Documentation for Electronic Equipment.**

Prior to final acceptance, submit the following documentation obtained from the manufacturer for the electronic equipment listed below:

1. Operation Manual
2. Troubleshooting and Service Manual
3. Assembly and installation instructions
4. Diagram of the field installation wiring (as applicable)
5. Warranty information

Submit documentation for the following equipment:

1. Controllers
2. Vehicle detectors
3. Load switches
4. Flasher units
5. Preemption units
6. Conflict monitors
7. Special sequence relays
8. Cameras
9. Dynamic message signs
10. Road weather information systems
11. Any other equipment which has a logic, timing, or communications function
12. Other equipment specified in the Contract Documents