

# ORINATION FORM

## Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Materials Bulletin

Are all references to external publications current?

Yes

No

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs?

Yes

No

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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**MEMORANDUM**

**DATE:** May 30, 2019

**TO:** Specification Review Distribution List

**FROM:** Stefanie D. Maxwell, Manager, Program Management Office

**SUBJECT:** Proposed Specification: **6650100 Pedestrian Detection System.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Matthew DeWitt of the State Traffic Engineering and Research Lab (TERL) to modify the language.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or online at

<http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx> .

Comments received after **June 27, 2019**, may not be considered. Your input is encouraged.

SM/dt

Attachment

**PEDESTRIAN DETECTION SYSTEM.**  
**(REV 5-15-19)**

ARTICLE 665-1 is deleted and the following substituted:

**665-1 Description.**

Install a pedestrian detection system. Use pedestrian detection systems and components listed on the Department's Approved Product List (APL). Pedestrian detection systems are classified into three categories: Standard Pedestrian Pushbutton Detectors, Accessible (Audible/Tactile) Pedestrian Pushbutton Detectors, and ~~Thermal~~ Passive Detectors. The components of the pedestrian detection system include pushbuttons, pedestrian actuation signs, electronics, wiring, and mounting hardware.

SUBARTICLE 665-2.1.2 is deleted and the following substituted:

**665-2 Materials.**

**665-2.1.2 Pushbutton:** The pushbutton must include a normally open, mechanical phenolic enclosed, positive-acting, spring-loaded, audible (i.e., click) snap-action switch with single pole, single throw contacts, or a Piezo driven solid state switch rated for a minimum of 50 V. The Piezo driven solid state switch, when activated, must give an audible (i.e., two-tone chirp) ~~and visual~~ indication of actuation. A visual indication of actuation is optional. The visual indication must remain illuminated until the pedestrian's WALKING PERSON (symbolizing WALK) signal indication is displayed. Switch connections inside the housing must allow wiring and installation without binding. The switch must have a design life of one million operations (minimum) at rated load.

SUBARTICLE 665-2.3 is deleted and the following substituted:

**665-2.3 ~~Thermal~~ Passive Detectors (TPD):** The ~~TPD~~passive detector must consist of all electronic control equipment, wiring, and mounting hardware.

**665-2.3.1 General:** A ~~TPD~~passive detector system uses one or more sensors and analytics hardware and software to detect pedestrian movement presence, and provides a detection output.

**665-2.3.2 Configuration and Management:** Ensure that the ~~TPD~~passive detector is provided with software that allows local and remote configuration and monitoring. Ensure that the system can display detection zones and detection activations overlaid on live ~~thermal~~passive detector inputs. Ensure that the ~~TPD~~passive detector allows a user to edit previously defined configuration parameters, including size, placement, and sensitivity of detection zones.

Ensure that the ~~TPD~~passive detector retains its programming in nonvolatile memory. Ensure that the detection system configuration data can be saved to a computer and restored from a saved file. Ensure that all communication addresses are user programmable.

**665-2.3.3: Solid State Detection Outputs:** Ensure outputs meet the requirements of NEMA TS2-2003, 6.5.2.26.

**665-2.3.4: Electrical Requirements:** Ensure the system operates using a nominal input voltage of 120V of alternating current ( $V_{AC}$ ). Ensure that the system will operate with an input voltage ranging from 89 to 135  $V_{AC}$ . If a system device requires operating voltages other than 120  $V_{AC}$ , supply a voltage converter.

SUBARTICLE 665-2.6 is deleted and the following substituted:

**665-2.6 Environmental:** Ensure equipment performs all required functions during and after being subjected to the environmental testing procedures described in NEMA TS2-2016, Sections 2.2.7, 2.2.8, and 2.2.9.