

Origination Form

Specifications

Name:	Ronald Meyer	Specification Number:	650-2, 650-3.13, 650-4
Email:	ronald.meyer@dot.state.fl.us	Associated Specs:	995
Date:	2024-06-05T18:55:38Z	Verified:	VERIFIED

Summary:

1. Reformatted APL requirements 2. Added reference to MUTCD requirements 3. Moved material requirements to section 995 4. Updated warranty language to match requirements other sections (e.g., no need for phrase "...in accordance with 5-11 and 608")

Justification:

The language needs to be changed to update section formatting, update requirements, and for consistency with general formatting and warranty language for other traffic control devices.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No
Materials Manual		No
Traffic Engineering Manual		No

Are changes in line with promoting and making progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

Yes. Changes reflect stakeholder needs and improve consistency of specification content.

What financial impact does the change have; project costs, pay item structure, or consultant fees?

No significant impact.

What impact does the change have on production or construction schedules?

No expected impacts to production or construction schedules.

How does this change improve efficiency or quality?

Changes improve quality by updating content and additional consistency with similar requirements.

Which FDOT offices does the change impact?

Traffic Engineering and Operations

What is the impact to districts with this change?

No expected impact.

Does the change shift risk and to who?

No expected change in risk.

Provide summary and resolution of any outstanding comments from the districts or industry.

Comments and Responses are available on the Track the Status of Revisions hyperlink located on the Specifications landing page: <https://www.fdot.gov/programmanagement/Specs.shtm>

What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

VEHICULAR TRAFFIC SIGNAL ASSEMBLIES.
(REV 6-5-24)

ARTICLE 650-2 is deleted and the following substituted:

650-2 Materials.

Meet the following requirements:

Vehicular Traffic Signal Assemblies* 995-4

*Use products on the Department's Approved Product List (APL).

~~Use vehicular signal assemblies that meet the requirements of Section 995 and are listed on the Department's Approved Product List (APL). Vehicular traffic signal assemblies must meet the physical and operational requirements of the MUTCD. Vehicular traffic signal assemblies must meet the requirements of Section 603 and the Institute of Transportation Engineers (ITE) Standard for Vehicle Traffic Control Signal Heads.~~

Provide vehicular traffic signal assemblies as a complete and functioning unit. Components include, but are not limited to, signal housing, light emitting diode (LED) signal modules, visors, backplates, and assembly hardware.

All sections of multi-section assemblies must be from the same manufacturer.

SUBARTICLE 650-3.13 is deleted and the following substituted:

650-3.13 Transit Signal Heads: Use two 12 inch signals for ~~For~~ transit signal priority at signalized intersections with bus queue jumper lanes, ~~install 12 inch two lens signal head assembly per the MUTCD, Figure 8C-3. The 12 inch LED optical unit indications must comply with the MUTCD, Section 8C.11 and as illustrated in Figure 8C-3. The 12 inch LED optical unit must conform to the requirements of the ITE's Performance Specification, Vehicle Traffic Control Signal Heads Light Emitting Diode (LED) Circular Signal Supplement, dated June 27, 2005, regarding environmental requirements, transient protection, operating voltage range, and electronic noise. The indication (bar symbol) must measure 1 1/2 inches wide by 9 inches long. The indication must be capable of being displayed in any angle of orientation from horizontal to vertical.~~

ARTICLE 650-4 is deleted and the following substituted:

650-4 Warranty.

Ensure that the signal housings, backplates, and any other signal assembly components have a manufacturer's warranty covering defects for a minimum of ~~three~~ 3 years from the date of final acceptance ~~in accordance with 5-11 and Section 608~~. Ensure the warranty includes providing replacements, within 30 calendar days of notification, for defective parts and equipment during the warranty period at no cost to the Department or the maintaining agency.

Ensure that the LED signal modules have a manufacturer's warranty covering defects for a minimum of ~~five~~ 5 years from the date of final acceptance ~~in accordance with 5-11 and 608~~.

Ensure that the warranty includes providing replacements, within 30 calendar days of notification, for any defective parts and equipment (including falling below minimum intensity levels) during the warranty period at no cost to the Department or the maintaining agency.