

Origination Form

Specifications

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Date:	2025-06-24T19:29:54Z	Associated Specs:	N/A

Summary:

Changes to 620-2.7.4 regarding manufacturer warranty requirements for SPDs and 620-3.3 regarding grounding of pedestal poles on t-bases.

Justification:

Clarifying that warranty coverage applies to failures due to defect or workmanship and clarifying that pedestal poles on t-bases be grounded to a rod connected to the intersection grounding array.

Do the changes affect other types of specifications?

Neither

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans	Rick Jenkins, Shae Gibbs, James Frimmel	Yes
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, update and clarify technical requirements, and improve consistency and quality of specification content.

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

No expected significant financial 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 efficiency and quality by updating requirements to address user needs and fostering consistency.

Which FDOT offices does the change impact?

Traffic Engineering and Operations Office

What is the impact to districts with this change?

Districts will benefit from updated requirements that address needs, provide additional clarity, and reflect best practices.

Does the change shift risk and to who?

No expected shift 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.

GROUNDING AND LIGHTNING PROTECTION (REV 6-24-25)

SUBARTICLE 620-2.7.4 is deleted and the following substituted:

620-2.7.4 Manufacturer's Warranty: Ensure that the SPD has a manufacturer's warranty covering failures due to defect or workmanship for a minimum of 2 years from the date of final acceptance.

The term "failure" for warranty replacement is defined as follows:

Parallel-connected, power-rated SPD units are considered in failure mode when any of the visual indicators shows failure mode when power is applied to the terminals at the unit's rated voltage, or the properly functioning over-current protective device will not reset after tripping.

Series-connected, low-voltage power, data, or signal units are considered in the failure mode when an open circuit condition is created and no data/signal will pass through the SPD device or a signal lead is permanently connected to ground.

If the SPD, including any component of the unit, should fail during the warranty period, the entire SPD must be replaced by the manufacturer at no cost to the Department or maintaining agency.

SUBARTICLE 620-3.3 is deleted and the following substituted:

620-3.3 Grounding Traffic Control Systems at Signalized Intersections: Ensure that all separately grounded elements at an intersection (signal cabinet, power service, mast arms or strain poles, etc.) are bonded together to form an intersection grounding network array.

For traffic signal poles, including pedestals for pedestrian signals, accommodate the ground connection from signal heads and electrically powered signs through span wires to the ground rod assembly or array located at the pole base in accordance with the details in the Standard Plans. Ground poles, including pedestal poles on transformer bases, to a ground rod assembly that is part of the intersection grounding network array, in a pull box, and no more than 36 inches from the pole foundation.

For span wire assemblies, use the span wire to connect the ground rod assemblies or arrays of the poles. Do not use guy wires for grounding purposes, however, bond any guy wire to the span wire as part of the intersection grounding network.