

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 and date 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			

**This section must be completed prior to processing proposed revisions.

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?



Florida Department of Transportation

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KEVIN J. THIBAUT, P.E.
SECRETARY

MEMORANDUM

DATE: November 27, 2019

TO: Specification Review Distribution List

FROM: Daniel Strickland, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **9930202 Object Markers and Delineators.**

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

This change was proposed by Paul Gentry from the Program Management Office to update the language for High Performance delineators, impact testing requirements and to remove references to ASTM D1925.

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://fdotewp1.dot.state.fl.us/programmanagement/development/industryreview.aspx> . Comments received after **December 25, 2019**, may not be considered. Your input is encouraged.

DS/VC
Attachment

OBJECT MARKERS AND DELINEATORS

(REV 11-13-2019)

SUBARTICLE 993-2.2.2 is deleted and the following substituted:

993-2.2.2 Color: The post shall be opaque white. The yellowness index shall not exceed 12 when tested in accordance with ~~ASTM D1925~~ or ASTM E313. The daylight 45 degree, 0 degree luminous directional reflectance shall be a minimum of 70 when tested in accordance with ASTM E1347.

SUBARTICLE 993-2.4.3 is deleted and the following substituted:

993-2.4.3 Color: The plastic post shall be opaque white. The yellowness index shall not exceed 12 when tested in accordance with ~~ASTM D1925~~ or ASTM E313. The daylight 45 degree, 0 degree luminous directional reflectance shall be a minimum of 70 when tested in accordance with ASTM E1347 or ASTM E1164.

SUBARTICLE 993-2.5.1 is deleted and the following substituted:

993-2.5.1 Dimensions: The delineator shall have a minimum height of ~~36~~ 48 inches above the pavement surface and have a minimum dimension of 2 inches.

SUBARTICLE 993-2.5.2 is deleted and the following substituted:

993-2.5.2 Post Base: ~~The base shall be manufactured to accommodate the replacement of the post.~~ The base shall be mechanically anchored to the pavement and be capable of withstanding fifty vehicle impacts without damage.

SUBARTICLE 993-2.5.3 is deleted and the following substituted:

993-2.5.3 Color: The plastic post shall be opaque white. The yellowness index shall not exceed 12 when tested in accordance with ~~ASTM D1925~~ or ASTM E313. The daylight 45 degree, 0 degree luminous directional reflectance shall be a minimum of 70 when tested in accordance with ASTM E1347 or ASTM E1164.

SUBARTICLE 993-2.5.5 is deleted and the following substituted:

993-2.5.5 Impact Performance: ~~The post, installed according to manufacturer's recommendations, shall be capable of returning to a vertical position plus or minus 5 degrees with no delaminating after receiving fifty vehicle impacts when tested according to National testing Product Evaluation Program (NTPEP). The NTPEP requirement of one half of the hits at 32°F is waived. All hits shall be at 65°F or greater. NTPEP data or independent test lab data shall be submitted for product approval. For acceptance purposes there should be no post failures and no more than two posts may list between 5° and 10° after receiving fifty vehicle impacts.~~ To resist an impact of a test vehicle, the post must restore to within 10 -degrees of vertical in any direction, and not have a crack or tear through more than 50% of its cross section. List/Lean

must be measured from the point the post protrudes from the base to the top edge of the post. For acceptance purposes, there should be no post failures and no more than two posts may list between 5 -degrees and 10 -degrees after receiving fifty vehicle impacts.

Impact testing must be performed in accordance with NTPEP Evaluation of Temporary Traffic Control Devices: Flexible Delineators, for the category of High Speed Applications. Testing must be performed by a facility that is listed on the Laboratories Accredited to Crash Test Roadside Safety Hardware which can be found at the following URL: [http://tf13.org/Subcommittee 7 Test Facilities.php](http://tf13.org/Subcommittee_7_Test_Facilities.php)