

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?

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

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Valencia Cunningham 850-414-4101 Valencia.Cunningham@dot.state.fl.us Darla Hunsicker 850-414-4114 Darla.Hunsicker@dot.state.fl.us

Tubular Marker Implementation: The Department will be using the same product as the Managed Laned Markers for permanent channelizing devices on Arterials and Collectors. The colors for these Tubular Markers will be the same as the lane line that they supplement (white or yellow) per the MUTCD requirements. This also requires a transition plan for the color of Managed Lane Markers.

Are changes in line with promoting and moving the needle on the vital few and how?

This Specification change is in line with moving the needle on the vital few by providing a more visible and durable product as a channelizing device to improve the safety of bicyclists and pedestrians on arterials and collectors. Until now, this product has been used on Managed Lane to preclude lane changing. The durability, visibility and larger diameter of these products are desired. The increased durability will also benefit the department and improved safety by not having to be replaced as often. The reduction in MOT operations for replacement drastically improved safety on our roadways.

What financial impact does the change have? Pay items and consultant fees.

These products have a slightly higher initial cost over "high performance delineators"; however, the long-term savings in maintenance greatly outweighs the increased initial cost. As stated above, the fewer MOT operations improve safety, mobility, and further reduce costs. There is no change to consultant fees.

Which offices does the change impact?

This impacts the Program Management, Materials, Design, Traffic Operations, Safety, Construction, and Maintenance.

What impacts to the Districts are anticipated?

This will clarify and simplify design for the District Design, Traffic Operations, Safety, and Construction Offices. This will also simplify things for maintenance. Maintenance will have fewer products to keep in stock and fewer items/incidences to maintain.

Have District counterpart's comments been addressed?

This change is being communicated to all the District counterparts through the established procedures.

Does the change shift risk and to who?

This change does not shift risks.

What is the communication plan and schedule of events?

The following is the schedule for implementation:

November 2020:

- *Memorandum (not a bulletin) is released to highlight the changes, provide commentary, and show the drafts of the upcoming Specifications changes:*
 - *Drafts of Specifications 704, 991 and 993 will be included in the Memorandum (See February 2021 below)*
 - *Boilerplate MSP will be included in the Memorandum and will be available for use when a shorter height is needed*
- *2021 FDM is published: includes language clarifying the criteria for use of Tubular Markers and Delineators will be released*
- *FY 2021-22 Standard Plans is published: modified to showing proper call-outs for Tubular Markers and Delineators*
- *TEM Section 4.5 will reflect the use of Tubular Markers instead of "Express Lane Markers" and reference Section 704 of the Standard Specifications*
- *Managed Lanes (Manual?, Handbook?) will reflect the use of Tubular Markers instead of "Managed Lane Markers" and reference Section 704 of the Standard Specifications*
- *BOE will be updated to show new Pay Item structure for Tubular Markers*
- *Pay Items for "High Performance Delineators" and "High Visibility Median Separator Delineators" will be removed from the BOE*
- *APL will be updated to show new category for Tubular Markers*
- *APL Items for "High Performance Delineators" and "High Visibility Median Separator Delineators" will be removed*

February 2021:

- *July 2021 Standard Specifications is published:*
 - *New Sections 704 and 991*
 - *Standard Specification 993 will be modified to remove "High Performance Delineators" and "High Visibility Median Separator Delineators"*



RON DESANTIS
GOVERNOR

KEVIN J. THIBAUT, P.E.
SECRETARY

MEMORANDUM

DATE: October 29, 2020
TO: Specification Review Distribution List
FROM: Daniel Strickland, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **7040000 TUBULAR MARKERS**

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

The changes are proposed by Gevin McDaniel from the Roadway Design Office to use the same product as the Managed Laned Markers for permanent channelizing devices on Arterials and Collectors. The colors for these Tubular Markers will be the same as the lane line that they supplement (white or yellow) per the MUTCD requirements. This language will be added as a new Section to the Standard Specification.

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 **November 30, 2020** may not be considered. Your input is encouraged.

DS/dh

Attachment

TUBULAR MARKERS
(REV 9-28-20)

The following new Section is added after Section 701.

SECTION 704
TUBULAR MARKERS

704-1 Description.

Furnish and install tubular markers at the locations called for in the Standard Plans or in the Plans.

704-2 Materials.

Meet the following requirements:

Durable Tubular Markers.....Section 991

Standard Tubular MarkersSection 991

704-2.1 Product Acceptance on the Project: Use tubular markers listed on the Department's Approved Product List (APL).

704-3 Installation Requirements.

Install tubular markers in accordance with the manufacturer's installation instructions posted on the APL. Use the same color as the pavement marking being emphasized.

704-4 Method of Measurement.

The quantity to be paid will be the number of tubular markers furnished, installed, and accepted.

704-5 Basis of Payment.

Prices and payments will be full compensation for work specified in this Section, including the cost of labor, materials, and incidental items required to complete the work.

Payment will be made under:

Item No. 704 - 1 Tubular Marker - each.