ORIGINATION FORM

Proposed Revisions to the Specifications

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

Date:	Office:				
Originator:	Specification Section:				
Telephone:	Article/Subarticle:				
email:	Α	Associated Section(s) Revisions:			
Will the proposed revision require changes to:					
Publication	Yes	No	Office S	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					
		1			
Will this revision necessitate any of the following	ng:				
Design Bulletin Construction Bulletin	E:	stimates Bulle	etin	Materials Bulletin	
Are all references to external publications current? Yes No					
If not, what references need to be updated? (Pl	ease inclu	ıde changes iı	n the redline do	ocument.)	
Why does the existing language need to be cha	ngod2				
willy does the existing language need to be tha	iigeu:				
Summary of the changes:					
Are these changes applicable to all Department If not, what are the restrictions?	jobs?	Yes	No		



RON DESANTIS GOVERNOR KEVIN J. THIBAULT, P.E. SECRETARY

MEMORANDUM

DATE: May 20, 2021

TO: Specification Review Distribution List

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

SUBJECT: Proposed Specification: 7060000 RAISED PAVEMENT MARKERS AND

BITUMINOUS ADHESIVE.

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

The changes are proposed by Olivia Townsend to clarify that epoxy adhesive may be used with Raised Pavement Markers in the Standard Specification. This specification revision is associated with the revisions to Sections 102 and 970.

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 June 17, 2021, may not be considered. Your input is encouraged.

DS/dh

Attachment

RAISED PAVEMENT MARKERS AND BITUMINOUS ADHESIVE. (REV 5-5-21)

SECTION 706 is deleted and replaced by the following:

SECTION 706 RAISED PAVEMENT MARKERS AND BITUMINOUSMARKER ADHESIVE

706-1 Description.

Place rRaised pavement markers (RPMs) and adhesive , which upon installation produces provide a positive guidance system to supplement other reflective pavement markings.

706-2 Materials.

Use only Class B markers, except as follows:

For center line rumble strip installations where RPMs are in conflict with the grinding, install Class D RPMs with the first application of standard paint. Remove Class D RPMs prior to grinding, then install Class B RPMs in an unground area after grinding.

Install Class F RPMs only when shown in the plans.

Meet the requirements of Section 970.

706-2.1 Product Acceptance on the Project: Use only RPMs and bituminous adhesive that are listed on the Department's Approved Product List (APL). For Class F RPMs, provide a warranty assigned to the Department in accordance with Section 970.

706-3 Bituminous Adhesive Equipment.

Use equipment having either thermostatically controlled double boiler type units utilizing heat transfer oil or thermostatically controlled electric heating pots to install hot applied bituminous adhesive. Use a melter/applicator unit suited for both melting and pumping the bituminous adhesive through heated applicator hoses.

Heat the bituminous adhesive to between 375°F and 425°F and apply directly to the bonding surface from the melter/applicator by either pumping or pouring. Maintain the application temperature between 375°F and 425°F. The bituminous adhesive may be reheated. However, do not exceed the manufacturer's recommendations for pot life at application temperatures.

706-4 Application.

Install RPMs in accordance with the Plans and Standard Plans, Indexes 706-001 and 711-003, prior to opening the road to traffic.

Apply RPMs to the bonding surface using bituminous or epoxy adhesives in accordance with the manufacturer's instructions.

For Class F RPMs, installation may include the removal of roadway surface material to recess a portion of the RPM housing.

Prior to application of adhesive, clean the portion of the bonding surface of any material which would adversely affect the adhesive.

Apply the adhesive to the bonding surface (not the RPM) so that 100% of the bonding area of the RPM will be covered, in accordance with adhesive manufacturer's recommendations.

Apply sufficient adhesive to ensure that when the marker is pressed downward into the adhesive, adhesive will be forced out around the entire perimeter of the RPM.

Immediately remove excess adhesive from the bonding surface and exposed surfaces of the RPMs. Soft rags moistened with mineral spirits meeting Federal Specifications TT-T-291 or kerosene may be used to remove adhesive from exposed faces of the RPMs. Do not use any other solvent. If any adhesive, pavement marking materials or other foreign matter adheres to the traffic face of the RPM, replace the RPM at no cost to the Department.

Restore any areas impacted by the installation of Class F RPMs to original condition. Ensure that all final RPMs are in place prior to opening the road to traffic.

If more than 2% of the RPMs fail in adhesion or alignment within the first 45 days under traffic, replace all failed RPMs at no expense to the Department. If more than 5% of the RPMs fail in adhesion and or alignment during the initial 45 day period, the Engineer will extend the replacement period an additional 45 days from the date that all replacement RPMs have been installed. If, at the end of the additional 45 day period, more than 2% of all RPMs (initial installation and 45 day replacements combined) fail in adhesion or alignment, replace all failed RPMs at no expense to the Department.

706-5 Contractor's Responsibility for Notification.

Notify the Engineer prior to the placement of RPMs. At the time of notification, submit the APL number and the batch or Lot numbers of RPMs and bituminous adhesive to be used.

706-6 Method of Measurement.

The quantity of RPMs to be paid for under this Section will be the quantity per each, furnished and installed, completed and accepted.

706-7 Basis of Payment.

706-7.1 Class B RPMs: Price and payment for Class B RPMs will be full compensation for all work and materials in this Section.

706-7.2 Class D RPMs: Payment will be made in accordance with Section 102.

706-7.3 Class F RPMs: Price and payment for Class F RPMs will be full compensation for all work and materials in this Section.

706-7.4 Payment Items: Payment will be made under:

Item No. 706- 1- Raised Pavement Marker - per each.