

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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SECRETARY

M E M O R A N D U M

DATE: May 28, 2020
TO: Specification Review Distribution List
FROM: Daniel Strickland, P.E., State Specifications Engineer
SUBJECT: Proposed Specification: **4500902 Precast Prestressed Concrete Construction.**

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

This change was proposed by Thomas Frank by the State Materials Office to include finished surfaces under shallow surface crack description in addition to formed surface. Proposed language also includes stainless steel lifting devices as an option for highly corrosion resistant products.

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 25, 2020**, may not be considered. Your input is encouraged.

DS/rf

Attachment

PRECAST PRESTRESSED CONCRETE CONSTRUCTION.**(REV 4-30-20)**

SUBARTICLE 450-9.2.1.1 is deleted and the following substituted:

450-9.2 Other Embedded Materials:**450-9.2.1 Inserts and Lifting Devices:**

450-9.2.1.1 Placement: Locate inserts and lifting devices in accordance with the tolerances listed in 450-2.3. For stainless-steel or FRP reinforced products, use only non-metallic or stainless-steel (Type 304 or 316) inserts and lifting devices. ~~Use only non-metallic inserts and lifting devices with CFRP reinforced piling.~~

SUBARTICLE 450-11.6.1 is deleted and the following substituted:

450-11.6.1 Beams Ends that will not be Permanently Encased in Concrete Diaphragms:

1. Remove any corrosion product from all accessible surfaces at the cut end of the strands.
2. Apply two layers of epoxy to the exposed beam ends (including clipped and chamfered surfaces) no later than fourteen days after detensioning.
Ensure that the first epoxy layer is cured before applying the second layer.
The finished thickness of the epoxy coating must be a minimum of 1/16 inch and form a vertical flat plane without deviations or localized depressions from recessed strands or other defects.
Ensure that the epoxy coating is cured per the manufacturer's recommendations prior to shipping the products.
Any modifications to the time limits above must be approved by the Engineer.

SUBARTICLE 450-11.6.2 is deleted and the following substituted:

450-11.6.2 Beams Ends that will be Permanently Encased in Concrete Diaphragms:

1. Cut the strands in accordance with 450-11.5.1.
2. Seal openings between strand and sheathing for debonded strands with 100% silicone sealant within fourteen calendar days of detensioning, and cure per the manufacturer's recommendations.

SUBARTICLE 450-12.3.1.6 is deleted and the following substituted:

450-12.3.1.6 Shallow Surface Cracks: Shallow surface cracks are considered a minor defect, and are defined as the separation of the formed or finished surface up to 0.25 inch in depth.

4500902
All Jobs

with 450-13.3.

Remove the affected material and repair the surface in accordance