ORIGINATION FORM
Proposed Revisions to the Specifications
(Please provide all information - incomplete forms will be returned)

Date: 5/1/23

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Article/Subarticle: Table 926-1 & 926-8

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Associated Section(s) Revisions: 560

Will the proposed revision require changes to the following Publications:

Publication	Yes	No	Office Staff Contacted	Date
Standard Plans Index	○	◉	Rick Jenkins/Joshua Turley	7/5/23
Traffic Engineering Manual	○	◉	Mariano Amicarelli	7/5/23
FDOT Design Manual	○	◉	DeWayne Carver	7/5/23
Construction Project Administration Manual	○	◉	Patrick Overton	7/5/23
Basis of Estimate/Pay Items	○	◉	Ryan Gray	7/5/23
Structures Design Guidelines	○	◉	Ben Goldsberry	7/5/23
Approved Product List	○	◉	Karen Byram	7/5/23
Materials Manual	○	◉	Susan Musselman/Brad Pearson	7/5/23
Maintenance Specs	○	◉	Deanna Hutchison	7/5/23

Will this revision necessitate any of the following:

Design Bulletin ☐ **Construction (DCE Memo)** ☐ **Estimates Bulletin** ☐ **Materials Bulletin** ☐

Have all references to internal and external publications in this Section been verified for accuracy? YES

Synopsis: Summarize the changes:

Added a second coating option that can be applied to sheet pile, over the inorganic zinc rich primer. Updated the material requirements for each coating.

Justification: Why does the existing language need to be changed?

The Department currently specified one option for coating sheet piles (inorganic zinc + coal tar epoxy). This adds a second option (Inorganic zinc + glass flake epoxy). The intent is to identify an alternative product that would help the Contractor avoid supply chain issues and that could still meet our intended design of the coated sheet pile. Section 560 will need to be updated simultaneously as it identifies the application requirements for the new coating option.

Do the changes affect either of the following types of specifications (Hover over type to go to site.):

Special Provisions ☐ **Developmental Specifications** ☐

List Specifications Affected: (ex. SP3270301, Dev330TL, Dev334TL etc.)

Contact the State Specifications Office for assistance completing this form.

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1. Are changes in line with promoting and making meaningful progress on improving safety, enhancing mobility, inspiring innovation, and fostering talent; explain how?

The mobility will be enhanced because the Department will help prevent a potential supply chain issue by allowing more material options to the Contractor.

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

There should be no impact on cost.

3. What impacts does the change have on production or construction schedules?

? There is an anticipated positive change to production or construction scheduling.

4. How does this change improve efficiency or quality?

This change should directly impact efficiency. The risk of future supply chain issues should be minimized. Quality should remain the same.

5. Which FDOT offices does the change impact?

Construction & Maintenance

6. What is the impact to districts with this change?

District Construction, District Maintenance

7. Does the change shift risk and to who?

Risk does not change; it remains with the Contractor.

8. 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

9. What is the communication plan?

Through the established specification revision process (e.g., Internal and Industry Review)

10. What is the schedule for implementation?

The Standard Specifications eBook and Workbook are effective July 1st every year.

EPOXY COMPOUNDS.
(REV 5-1-23)

ARTICLE 926-1 is deleted and the following substituted:

926-1 Types of Compounds.

Epoxy resin-based compounds for application to portland cement concrete, bituminous cement concrete, metals and other type surfaces shall be applicable for the following types as designated. Products may only be used for applications recommended by the manufacturer.

Table 926-1	
Type	Description
AB*	An epoxy resin, for bonding fresh or hardened concrete to hardened concrete and constructing doweled splices in precast prestressed concrete piles.
E*	A fluid epoxy for crack injection in the repair of old structures.
F F-1* F-2**	An epoxy for repairing spalled areas on concrete bridge structures with these subtypes: A non-sagging gel type for vertical surfaces. A pourable type for repairs where forms are to be used.
H**	An epoxy for structural bonding where asphalt overlays are to be in contact with the hardened compound.
K*	An epoxy for underwater sealing of the bottom of the jacket of an integral pile jacket system.
M***	A coal tar or glass flake reinforced epoxy coating for steel sheet piles and H piles (water immersion) and hot applied coal tar epoxy tape.
PSE*	A two-part epoxy system to match the cast faces of joints between precast segmental concrete superstructure and/or substructure segments.
Q*	An epoxy for use in post tensioning anchorage protection systems.
*Accepted by APL **Accepted by certified test report ***Accepted by certification	

ARTICLE 926-8 is deleted and the following substituted:

926-8 Specific Requirements for Type M Compounds.

Type M Coal Tar epoxy coatings for steel sheet and H piles used in bridges, fender systems and other structures subject to immersion in water shall comply with the requirements of SSPC Paint 16 with Type 1 pitch. Glass flake reinforced epoxies must be designed for immersion service and include a passivator. Application of the epoxy coating shall meet the requirements of Section 560 for a coal tar epoxy coating.

Hot applied coal tar epoxy tape used to protect tie back rods on sheet pile walls and bulkheads shall comply with the requirements of American Water Works Association standard C203. Application shall be according to the manufacturers published recommendations.

Submit to the Engineer a manufacturer certification, confirming that the coal tar or glass flake reinforced epoxy meets the requirements of this Section. The certification shall conform to the requirements of Section 6. Do not incorporate these materials into the project until the Engineer has accepted and approved the certification for the material. Submit such certification for each LOT of material delivered to the project. In each certification, identify the serial or LOT numbers of the containers certified.