

Origination Form

Specifications

Name:	Bishoy Hanna	Specification Number:	561-2, 561-4, 561-10, 561-11
Email:	bishoy.hanna@dot.state.fl.us	Associated Specs:	
Date:	2024-06-18T15:35:57Z	Verified:	VERIFIED

Summary:

Central Office held multiple meetings with the District Contamination Impact Coordinators to clarify miscellaneous items in Section 561. Changes included adding references to requirements for materials in Section 561-2. In 561-4 Revised certification requirements due to changes in National Association. in 561-10 deleted Table 561-1 and referenced OSHA and National Institute for Occupational Safety and Health requirements and added reference to 29 CFR 1926.55 for barium mercury and zinc. In 561-11 added clarifying language and included option of using a laboratory accredited by the National Environmental Laboratory Accreditation Program.

Justification:

Changed for clarification, also added language referencing materials and requirements.

Do the changes affect other types of specifications?

No

List Specifications Affected:

Other Affected Documents/Offices	Contacted	Yes/No
Other Standard Plans		No
Florida Design Manual		No
Structures Manual		No
Basis of Estimates Manual		No
Approved Product List	Missy Hollis	Yes
Construction Office		No
Maintenance Office	Deanna Hutchison	Yes

Materials Manual	Adrian Steele	Yes
Traffic Engineering Manual		No

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

Yes – it provides guidance for materials, handling hazardous waste and using properly accredited for testing laboratories and certifications.

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

No Impact.

What impact does the change have on production or construction schedules?

No Impact.

How does this change improve efficiency or quality?

It improves efficiency by adding approved accreditation for laboratories and adding requirements to put the dates on the drums.

Which FDOT offices does the change impact?

No Impact

What is the impact to districts with this change?

No Impact

Does the change shift risk and to who?

No.

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>

What is the communication plan?

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

What is the schedule for implementation?

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

COATING EXISTING STRUCTURAL STEEL (REV 6-18-24)

ARTICLE 561-2 is deleted and the following substituted:

561-2 Materials.

Meet the following requirements:

<u>Structural Steel Coating Systems*</u>	<u>Section 975</u>
<u>Thinners, Solvents and Cleaners</u>	<u>560-2.2</u>
<u>Caulking</u>	<u>560-2.3</u>
<u>Abrasives</u>	<u>560-2.5</u>
<u>Rust Preventative Compound</u>	<u>560-2.6</u>

*Use products listed on the Department's APL.

561-2.1 Coating Systems: For removal and replacement systems, use coating products and systems meeting the requirements of Section 975 and are listed on the Department's Approved Product List (APL).

For overcoating systems, use products and systems as designated in the Contract Documents. Submit product data sheets and product Material Safety Data Sheets (SDS), or in lieu of SDS, submit test reports showing percent weight compositional analysis, Chemical Abstract Number, American Conference of Governmental Industrial Hygienists (ACGIH) time weighted average and ceiling exposure limits for all components, and lower and upper explosive limits, flash point, boiling point, amount of volatile organic compounds by weight, and specific gravity for each component of the coating system.

561-2.2 Thinners, Solvents and Cleaners: ~~Meet the requirements of 560-2.2. In addition, f~~For overcoating systems, use thinners, solvents, and cleaners that do not damage the existing coating system.

~~561-2.3 Caulking: Meet the requirements of 560-2.3.~~

~~561-2.34 Soluble Salts Test Kit:~~ Meet the requirements of 560-2.4.

~~561-2.5 Abrasives: Meet the requirements of 560-2.5.~~

~~561-2.6 Rust Preventative Compound: Meet the requirements of 560-2.6.~~

~~561-2.7~~**4 Storage:** Meet the requirements of 560-2.7.

ARTICLE 561-4 is deleted and the following substituted:

561-4 Quality Control (QC).

561-4.1 Field Preparation and Application: For the surface preparation of steel and application of coatings, submit a current Association for Materials Protection and Performance (AMPP)SSPC QP1 or National Association of Corrosion Engineers (NACE) International Institute Contractor Accreditation Program (NHCAP) AS-1F certification with the Corporate QC Plan ~~that was reviewed by SSPC or NHCAP under the current certification~~ and a site specific coating plan to the Engineer at least 14 calendar days prior to beginning coatings work. For the removal of hazardous coatings, submit a current SSPC-AMPP QP2 certification with the Corporate QC Plan ~~that was reviewed by SSPC under the current certification~~ and a site specific coating plan to the Engineer at least 14 calendar days prior to beginning coatings work. Do not begin coatings work until the site specific coating plan has been approved by the Engineer.

Prepare a traffic control plan for each phase of construction activities signed and sealed by the Contractor's Engineer of Record in accordance with the FDOT Design Manual. Do not begin work until the traffic control plan is approved by the Engineer. Maintain traffic in accordance with Section 102.

For work over navigable waters, submit a work plan to the United States Coast Guard including any scheduled restrictions to navigation channels or marine traffic. Obtain Coast Guard approval at least 30 days in advance of any restrictions.

561-4.2 Inspection: Meet the requirements of 560-5.3.

SUBARTICLE 561-10.2.3.3 is deleted and the following substituted:

561-10.2.3.3 Regulated Area: Establish a regulated area around the work site to prohibit unauthorized persons from areas where exposure to hazardous airborne metals may exceed the ~~following~~ action levels: in accordance with OSHA and National Institute for Occupational Safety and Health (NIOSH).

Table 561-1 Hazardous Airborne Metals and Action Levels	
Airborne Metals	Action Level
Lead	30 µg/m³
Cadmium	2.5 µg/m³
Arsenic	5 µg/m³
Hexavalent Chromium (Cr⁶⁺)	2.5 µg/m³

Conduct monitoring in accordance with the ~~National Institute for Occupational Safety and Health (NIOSH)~~ procedures upon initiation of dust producing operations and submit the test results to the Engineer within 72 hours of sampling. Report sample results as eight-hour Time Weighted Averages (TWA). Reestablish the regulated area and perform additional sampling when the results exceed the action levels or when directed by the Engineer. Record all pertinent data. Position air-sampling pumps around the project perimeter where the public or personnel can approach the work area. Place sampler inlets at breathing height. Clearly mark the regulated area by the use of warning signs, rope, barrier tape, or temporary construction fencing.

SUBARTICLE 561-10.5 is deleted and the following substituted:

561-10.5 Worker Protection: Comply with the requirements of OSHA 29 CFR 1926 and applicable portions of 29 CFR 1910. Include specific programs as required by 29 CFR 1926.62 (lead), 29 CFR 1926.1118 (inorganic arsenic), 29 CFR 1926.1126 (hexavalent chromium), ~~and~~ 29 CFR 1926.1127 (cadmium), and 29 CFR 1926.55 (barium, mercury, zinc) when these ~~hazardous agents~~ are present. Implement appropriate safety procedures for all hazards on the job site whether specifically identified herein or not.

SUBARTICLE 561-11.1 is deleted and the following substituted:

561-11 Waste Handling and Management.

561-11.1 General: Prepare a waste handling and management program ~~plan~~ which addresses the applicable requirements from EPA Federal, State and Local Regulations for hazardous waste management ~~and~~ in accordance with the Contract Documents. Include provisions for the handling and disposal of all hazardous and non-hazardous waste. Dispose of all waste generated in accordance with all federal, state, and local laws and regulations.

SUBARTICLE 561-11.3 is deleted and the following substituted:

561-11.3 Testing and Analysis: Laboratory analyses for all waste stream and environmental samples shall be conducted by an EPA certified, independent laboratory with an approved Quality Assurance Plan. Laboratory analyses for worker monitoring and regulated area samples shall be conducted by an American Industrial Hygiene Association (AIHA) metals accredited laboratory or National Environmental Laboratory Accreditation Program (NELAP) laboratory. Submit all sampling and test reports no later than 72 hours after collection of samples.

SUBARTICLE 561-11.5 is deleted and the following substituted:

561-11.5 Waste Storage: Collect waste from the control devices, equipment, and all work surfaces on a daily basis. Keep hazardous and non-hazardous waste separate. Do not mix blasting debris with any other type of waste. Place waste in approved storage drums.

Locate all hazardous waste within a regulated area. The maximum weight for each drum, when filled, is 821 pounds. Properly seal and label all drums, including the accumulation date. Transport waste storage drums to a secured, marked, permitted, temporary storage area. Locate the temporary storage area on well-drained ground not susceptible to flooding or storm water run-off. Place drums on a pallet and cover with fiber reinforced, impermeable tarpaulins. Store drums no more than two drums wide and two drums high. Arrange drums so that labels are easily readable. Do not store any waste in the temporary storage area for longer than 90 days.

SUBARTICLE 561-11.6 is deleted and the following substituted:

561-11.6 Waste Disposal: Transport, treat and dispose of all hazardous and non-hazardous waste in accordance with all applicable Federal, State, and Local Rules and Regulation. Notify the Engineer a minimum of three weeks prior to the date of shipment of any waste to an off- site facility. Prior to arranging disposal, provide ~~Submit to~~ the Engineer with documentation that the receiving disposal facilities are properly licensed. Submit manifests for all hazardous and non-hazardous waste shipments. Identify any waste disposal subcontractors and submit verification of their licensing to perform waste disposal and transport operations.