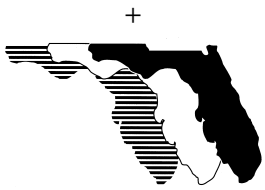

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

M E M O R A N D U M

DATE: January 26, 2012

TO: Brian Blanchard, Assistant Secretary for Engineering and Operations

FROM: Duane Brautigam, Director, Office of Design
David Sadler, Director, Office of Construction

COPIES: Rudy Powell, State Construction Engineer

SUBJECT: Mandatory Specification Revision No. 2

I approve the implementation plan of the subject Specification.

Duane Brautigam	signature on file	January 31, 2012
	Director, Office of Design	Date

David Sadler	signature on file	January 31, 2012
	Director, Office of Construction	Date

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

M E M O R A N D U M

DATE: January 26, 2012

TO: District Specifications Engineers and Central Office Staff

FROM: Rudy Powell, P.E., State Construction Engineer

SUBJECT: MANDATORY SPECIFICATIONS REVISIONS
January 2012 Workbook: Mandatory Revision No.2

Revise specification packages as described below for the effective letting date as noted:

Specification Number	Heading	Revision Date	Effective Letting Date	Remarks
SP4600702	Structural Steel and Miscellaneous Metals.	1-25-12	2-12	New SP. Usage Note: When weathering steel is used.
SP5600100	Coating Structural Steel.	1-25-12	2-12	New SP. Usage Note: When weathering steel is used.
SP9750601	Structural Coating Materials.	1-25-12	2-12	New SP. Usage Note: When weathering steel is used.

These specification changes are part of the increased use of weathering steel as outlined in Structures Design Bulletin C12-02 and Roadway Design Bulletin 12-04.

STRUCTURAL STEEL AND MISCELLANEOUS METALS.
(REV 1-25-12) (2-12)

SUBARTICLE 460-7.2 (Page 623) is deleted and the following substituted:

460-7.2 Special *Requirements for Uncoated* Weathering Steel ~~Requirements~~:

460-7.2.1 General: Do not use marking materials (grease sticks, crayons) that leave behind a residual film that may affect the weathering process of the steel. Store the girders as required for non-weathering steels.

460-7.2.2 Steel Preparations: Prior to erection, perform the following as appropriate:

Blast clean the exposed fascia of the exterior girders (both I and box) to meet SSPC-SP10 criteria; blast clean the remaining exposed surfaces of steel trapezoidal girders, not required to be prepared otherwise, to meet SSPC-SP6 criteria; for steel I-girders, if a non-uniform mill scale finish has developed, as determined by the Engineer, blast clean all remaining exposed surfaces, not required to be prepared otherwise, to an SSPC-SP6 criteria; coat the inside of box members including, but not limited to, all bracing members, cross frames and diaphragms~~, per~~*in accordance with Section 560. Coat the exterior face of box girder end diaphragms and all interior surfaces of box girders extending beyond the end diaphragm with an inorganic zinc coating system in accordance with Section 560.* ~~with only the prime coat. For the bottom or walking surface, certify that the applicable OSHA requirements on slip resistance will be obtained after applying the coating. Reapply the coating as necessary to satisfy the OSHA requirements. Submit the composition of coating to the Engineer for review.~~

460-7.2.3 Concrete Substructure Preparations:

460-7.2.3.1 Substructure Areas Not Receiving Class 5 Finish: Prior to erection of the girders, ~~wrap~~ *cover* all exposed substructure concrete surfaces ~~with polyethylene sheeting, or equal, as approved by the Engineer,~~ to protect them against staining from the weathering steel components. Leave the ~~sheeting~~ *covering* in place ~~and keep it free of tears or separations until just prior to the preparation for and application of the Class 5 Finish. In any case, do not remove the sheeting prior to~~*until after* placement of the concrete deck. As directed by the Engineer, clean all visible stains on concrete in areas not receiving a Class 5 Finish by sandblasting and follow-on cleaning using a stain remover or commercial cleaner after completion of the structure in accordance with Section 400.

460-7.2.3.2 Substructure Areas Receiving a Class 5 Finish: *If the Class 5 Finish is to be applied prior to the placement of the concrete deck, cover all finish concrete surfaces after application and curing of the Class 5 Finish to protect them from staining from the weathering steel components. Leave the covering in place until after placement of the concrete deck. Upon removal of the covering, reapply the Class 5 Finish to cover any stains which may be present.*

If the Class 5 Finish is to be applied after placement of the concrete deck, no substructure covering will be required.

460-7.2.4 Structure and Site Clean Up: Upon the completion of construction, remove all oil, dirt, grease or other foreign material, including excessive or uneven mill scale from the steel. Remove lubricants from the exposed surfaces of installed fastener assemblies and other surfaces in accordance with the manufacturer's recommendations. Follow procedures

specified in Section 560 as appropriate. Final surface finish is to be an even mill scale as approved by the Engineer.

SUBARTICLE 460-8.8 (page 626) is deleted and the following substituted:

460-8.8 Coatings: The preparation, application, clean-up and the consumables used in the coatings process are considered incidental to the work and will not be paid for separately. ~~When required by the Contract Documents and upon the Engineer's prior approval, apply coating in accordance with Section 649.~~

SP5600000
When Weathering Steel is used

COATING NEW STRUCTURAL STEEL.
(REV 1-25-12) (2-12)

Section Title (of the Supplemental Specifications) is deleted and the following substituted:

SECTION 560
COATING *NEW* STRUCTURAL STEEL

SUBARTICLE 560-1 (of the Supplemental Specifications) is deleted and the following substituted:

560-1 Description

Coat new structural steel in accordance with the requirements of this Section. *Apply the coating system designated in the Contract Documents.*

Comment [dh1]: In accordance with Structures Design Bulletin, the plans will designate the coating system.

SUBARTICLE 560-9.7 (of the Supplemental Specifications) is deleted and the following substituted:

560-9.7 Stripe Coating: Apply stripe coats to achieve complete coverage and proper thickness on welds, corners, crevices, sharp edges, bolts, nuts, rivets, and rough or pitted surfaces. *Stripe coating is not required for the inside surface area of all steel box girders.*

Comment [dh2]: Stripe coating the interior of box girders is not required. The interior of box girders receive an inorganic zinc prime coat and then are painted white for inspection purposes.

STRUCTURAL COATING MATERIALS.
(REV 1-25-12) (2-12)

SUBARTICLE 975-6.1 (of the Supplemental Specifications) is deleted and the following substituted:

975-6.1 General: All coatings shall possess physical properties and handling characteristics compatible with the application requirements of Section 400. Unless otherwise specified, the color of the finish coat shall meet Federal Color Standard No. 595~~B~~, Table VIII, Shade No. 36622*, or No. 36642 for uncoated weathering steel bridges*.