

November 9, 2018

**SPECIAL PROVISION**

**AMENDMENT TO SECTION 550 -- STRUCTURAL STEEL**

This special provision amends Section 550 and applies to the coating of new structural steel as shown on the plans or otherwise specified. This special provision specifies a duplex metallizing/sealer coating as described in the NHDOT Standard Specifications for Road and Bridge Construction, Section 708, Appendix C, Duplex Coatings - Metallizing and Sealer, and as modified herein or as directed.

**Amend** 550.3.13.1.1 to read:

**3.13.1.1** Furnishing and applying shop coatings shall conform to the requirements of NHDOT Standard Specifications for Road and Bridge Construction, Section 708, Appendix C, Duplex Coatings - Metallizing and Sealer, as modified herein or as directed.

**Add** to Section 708, Appendix C:

**1.4 DESCRIPTION OF BRIDGE(S)**

**1.4.1** The description of bridges and newly fabricated structural steel to be coated is stated herein. All descriptions regarding the bridge(s) and surface area(s) are intended to be generally, but not guaranteed to be precisely, accurate.

**1.4.1.1**

DESCRIPTION OF BRIDGES - SUMMARY TABLE 1.4					
Item. No.	City/Town	Br. No.	Route	over	structure type
550.104	Durham	145/116	US Rte 4	Bunker Creek	PBU

**Add** to Section 708, Appendix C:

**1.3.1 SCOPE OF WORK**

SCOPE OF WORK - SUMMARY TABLE 1.3.1				
Item. No.	Surfaces to be coated	Surface Preparation	Required Coating System	Final Color
550.104	All structural steel surfaces, including beams, cross frames, appurtenances, and bearings	SSPC-SP5 & SC 2	Metallizing plus clear seal coat	Metallizing Gray

**1.3.1.1 Surfaces to be painted.** All new steel surfaces, including beams, stiffeners and connection plates, diaphragms, cross frames, appurtenances, and bearings as described in Table 1.3.1, shall be cleaned and coated, including (if applicable) portions encased in concrete. See Table 1.3.1.

**1.3.1.1.1 Finished bearing surfaces.** When bearings are to be coated, the surface preparation and coating shall include the machined finish for rolling (but not for sliding) surfaces. All surfaces, including the bottom surface of masonry plates, shall receive the full coating system.

**1.3.1.1.2 Field welded surfaces.** Coat areas to be field welded as specified. Areas to be field welded shall be ground to bare metal immediately prior to welding. After field welding, surfaces of welds and damaged coatings shall be cleaned and prepared with a MBX<sup>®</sup> Bristle Blaster<sup>®</sup> power tool, and then recoated with galvanizing touch-up according to Section 550.2.9.1, Galvanizing touch-up and repair, to a thickness equal to the surrounding coating.

**Add** to Section 708, Appendix C, 2.2.3, Low-lead wire:

- a. Submit a written certificate of conformance to the Department for the coatings supplied stating that the metallizing wire is “lead-free”, i.e. having lead content less than 100 ppm.

**Amend** Section 708, Appendix C, 2.3.1 to read:

Primer: Thermal Spray Coating (metallizing) thickness 10 mils minimum (DFT)

**Add** to Section 708, Appendix C, 3.1.2(1), TSC Applicator Facility:

**3.2.3.1 Shop coating contractor- certification of qualification.** Fabricators supplying shop applied metallized steel products shall be certified with the American Institute of Steel Construction (AISC) Sophisticated Paint Endorsement (SPE), or with the Society for Protective Coatings (SSPC) Quality Procedure 3 “Standard Procedure for Evaluating Qualifications of Shop Painting Contractors (QP3).

**3.2.3.2 Field coating contractor- certification of qualification.** Coating contractors and subcontractors shall be certified by the Society for Protective Coatings (SSPC) Painting Contractor Certification Program (PCCP) to the requirements of SSPC-QP1 for all field coating work, including touch-up and repairs to shop-applied coatings, and to the requirements of SSPC-QP2 for work involving the removal or overcoating of lead-bearing paint.