Utah Department of Transportation

Supplemental Specifications for

2012 Standard Specifications

FOR ROAD AND BRIDGE CONSTRUCTION

Issued November 14, 2012

Memorandum UTAH DEPARTMENT OF TRANSPORTATION

DATE: November 14, 2012

TO: Holders of Hard Copy of Standard Specifications

FROM: Barry Axelrod
Standards and Specifications

SUBJECT: Supplemental Specifications Distribution, dated November 14, 2012

Applicable files for the change are attached. Maintain these files as a supplemental update to the UDOT Standard Specifications dated January 1, 2012. No pages are to be removed or replaced in the basic book, electronic or hard copy.

Refer to the Standards and Specifications Web site, Standard and Supplemental Specifications at http://www.udot.utah.gov/go/2012specifications for electronic copies of any Standard or Supplemental Specification. Select the appropriate subtopic from there.

Refer to the Standards and Specifications Web site, Engineering Services Web Store at http://www.udot.utah.gov/go/webstore to purchase a hard copy of the Standard Specifications or Standard Drawings books.

Contact Barry Axelrod at 801-964-4570, 801-725-8823 (cell), or by email at **baxelrod@utah.gov** if you have any questions or problems with the electronic files.

Attachments

Listing of Supplemental Specifications

Issue Date: September 19, 2012

Revised August 30, 2012

- Section 00120M Article 1.15, paragraph A20, Article 1.17, Article 1.18, and Article 1.20 replaced and Article 1.21, paragraph A14 and Article1.27 added.
- Section 00515M Article 1.11, paragraph A replaced.
- Section 00570M Article 1.7, paragraph A38 and A66 through A104 replaced.
- Section 00820M Article 1.17, paragraph C replaced.
- Section 01315M Article 3.1, paragraph D2 and H1 replaced.
- Section 01571M Article 2.1, paragraph B1 replaced.
- Section 02822M Article 1.3, paragraph G and H and Article 2.5, paragraph B8 replaced.
- Section 02823M Article 1.3 and Article 2.2, paragraph B6 replaced.
- Section 02891M Article 1.3, Article 1.4, paragraph A1, and Article 2.1, paragraph C replaced.
- Section 02893M Article 1.3, Article 2.1, paragraph A3c, Article 2.1, paragraph C1, and Article 2.1, paragraph D2 replaced.
- Section 03211M Article 1.3 replaced, Article 2.1, paragraph C added, Article 2.2, paragraph A replaced, Article 2.7, paragraph D and Article 2.8, paragraph D added, Article 3.1, paragraph B1a replaced, and Article 3.1, paragraph E and Article 3.2, paragraph O added.
- Section 03393M Article 1.5, paragraph B deleted, Article 2.1, paragraph A, Article 3.1, paragraph B, and Article 3.3, paragraph C and D replaced, and Article 3.3, paragraph I added.
- Section 03924M Article 1.1, paragraph B added.
- Section 05120M Article 1.3, Article 1.5, paragraph B1, Article 2.2, paragraph C1, and Article 2.2, paragraph D replaced.
- Section 06055M Article 1.3 and Article 2.3 replaced.
- Section 13553M Article 3.2, paragraph O replaced.

Issue Date: November 14, 2012

Revised October 25, 2012

- Section 02752M Article 3.10, paragraph E
- Section 03211M Article 1.3 replaced, Article 2.1, paragraph C added, Article 2.2, paragraph A replaced, Article 2.7, paragraph B replaced, Article 2.7, paragraph D and Article 2.8, paragraph D added, Article 3.1, paragraph B1a replaced, and Article 3.1, paragraph E and Article 3.2, paragraph O added. (This issue replaced previously issued Supplemental Specification for this section.)
- Section 13557M Article 3.1, paragraph A and Article 3.2, paragraph E replaced.

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SECTION 02752M

PORTLAND CEMENT CONCRETE PAVEMENT

Delete Article 3.10, paragraph E and replace with the following:

E. Remove and replace panel with any full depth transverse crack within 4 ft or less of a transverse sawed joint.

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SECTION 03211M

REINFORCING STEEL AND WELDED WIRE

Delete Article 1.3 and replace with the following:

1.3 REFERENCES

A. AASHTO M 31: Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

B. AASHTO M 55: Steel Welded Wire Reinforcement, Plain, for Concrete

C. AASHTO M 111: Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

D. AASHTO M 235: Epoxy Resin Adhesives

E. AASHTO T 106: Compressive Strength of Hydraulic Cement Mortar (Using 50-mm or 2-in Cube Specimens)

F. ASTM A 108: Steel Bar, Carbon and Alloy, Cold-Finished

G. ASTM A 493: Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging

H. ASTM A 706: Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement

I. ASTM A 767: Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement

J. ASTM A 775: Epoxy-Coated Steel Reinforcing Bars

K. ASTM A 955: Deformed and Plain Stainless-Steel Bars for Concrete Reinforcement

L. ASTM A 970: Headed Steel Bars for Concrete Reinforcement

M. ASTM E 1512: Testing Bond Performance of Bonded Anchors

N. American Welding Society (AWS) Standards

O. Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice

P. UDOT Quality Management Plans (QMP)

Add the following to Article 2.1:

C. Refer to ASTM A 955, Type XM-28, Grade 60 for deformed or plain stainless steel bars.

Delete Article 2.2, paragraph A and replace with the following:

A. Refer to ASTM A 775 or AASHTO M 111.

Delete Article 2.7, paragraph B and replace with the following:

B. Provide epoxy coated, painted, or plain basket assemblies with a U-shaped leg for the assembly frame and a minimum 0.3 inch diameter wire with sufficient structure to maintain the proper location and alignment of dowels during concrete pavement placement as approved by the Engineer.

Add the following to Article 2.7:

D. Provide bar supports and wire ties for use with stainless steel bars that meet the following:
   1. Meet the requirements of Table 2.
   2. Provide bar supports that are plastic coated, epoxy coated, plastic, or stainless steel conforming to the requirements of ASTM A 493, Type 316.
   3. Provide wire ties that are plastic coated, plastic, or stainless steel conforming to the requirements of ASTM A 493, Type 316, annealed.
   4. Provide tie-down wires that are plastic coated or stainless steel conforming to the requirements of ASTM A 493, Type 316, annealed.

Add the following to Article 2.8:

D. Use stainless steel splice coupler with stainless steel reinforcement.

Delete Article 3.1, paragraph B.1.a and replace with the following:

a. Meet requirements of ASTM A 775 Appendix A.2 for repair material.

Add the following to Article 3.1:

E. Ship, handle, and store stainless reinforcing steel so it does not come in contact with carbon steel.
   1. Cover stainless reinforcing steel with tarps during outdoor storage.
   2. Separate bundles of stainless reinforcing steel from other types of reinforcing steel with wooden spacers.
   3. Store stainless reinforcing steel on wooden supports off the ground or floor.

Add the following to Article 3.2:

O. Place stainless steel reinforcement so that it does not come in contact with carbon steel.
   1. Do not tie stainless steel to uncoated or coated carbon steel reinforcement, galvanized attachments, or galvanized conduits.
      a. Direct contact is not acceptable.
      b. Use nylon or polyethylene spacers to maintain a minimum 1 inch clearance between the two metals and bind them with nylon cable ties when stainless reinforcing steel or dowels must be near coated or uncoated carbon steel reinforcing or galvanized metals,.
      c. Either bar may be sleeved with a continuous ⅛ inch minimum thickness polyethylene or nylon tube extending at least 1 inch in each direction past the point of closest contact between the two dissimilar bars where insufficient space exists to maintain this minimum.
   2. Use only epoxy coated or non-metallic snap ties, straps, or other forming hardware in members that use stainless steel reinforcement to prevent corrosion from dissimilar metals.

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SECTION 13557M

VARIABLE MESSAGE SIGN

Delete Article 3.1, paragraph A and replace with the following:

A. Contact the Engineer at least 14 calendar days before picking up the State furnished VMS display, VMS controller, and VMS cable (fiber optic).

Delete Article 3.2, paragraph E and replace with the following:

E. Make final adjustments to sign horizontal and vertical angles.
   1. Aim VMS in the direction of on-coming vehicles
   2. Type I Overhead VMS
      a. Mount on full span support structure
      b. Use for Type I VMS only
      c. Orient perpendicular to the viewing angle of motorists 800 ft before the sign
   2. Type I Cantilever VMS
      a. Mount on cantilever support structure
      b. Use for Type I and Type II VMS
      c. Typically installed perpendicular to the oncoming driver's eye
      d. Orient perpendicular to the viewing angle of motorists 800 ft before the sign
   3. Roadside Butterfly VMS
      a. Used for Type II VMS only
      b. Orient the according to the plans.
   4. Adjust the sign angle as needed based on the Engineer's recommendations during initial installation