**Design Standards Letter**

**Letter Number: S-2018-02**

**Letter Date: 02/13/2018**

**Effective Date: 04/01/2018**

**Section: 616, 701, 702, 703, 717, 733, 901, 1001, 1018, 1055, 1057, 1091, 1092**

**Subject: Revised Supplement to the 2017 Standard Specifications**

**TO:** All Central and District Offices

**FROM:** Sarah Kleinschmit

**DATE:** February 9, 2018

**SUBJECT:** Engineering Policy

 Standard Specifications Letter No. 2, 2018

The Supplemental Revisions to the *2017 Missouri Standard Specifications for Highway Construction*, effective April 1, 2018 are now available on MoDOT’s website.

Questions regarding the Supplemental Revisions to the Missouri Standard Specification should be directed to Tim Oligschlaeger, Central Office, Engineering Policy Services, at 573-751-3813 or myself at 573-751-7412.

**MINOR REVISIONS:**

**SECTION 616 TEMPORARY TRAFFIC CONTROL**

*Sec 616.10* Renumbered current Sec. to 616.11 and created a new Sec. 616.10 “Radar Speed Advisory System”.

 **SECTION 701 DRILLED SHAFTS**

*Sec 701.4.10* Replaced the word “Television” with the word “Video” in the title, as well as other locations within the text.

*Sec 701.7.5* Replaced the word “Television” with the word “Video” in the title, as well as other locations within the text. Revised additional language throughout for clarification, also omitted last sentence.

**SECTION 703 CONCRETE MASONRY CONSTRUCTION**

*Sec 703.3.6.1.4* Added the following sentence to the beginning of section. “The contractor shall submit to the engineer a plan to monitor the free moisture and maintain continuous free moisture for the 7 day period.”

**SECTION 717 FLEXIBLE JOINT SYSTEMS**

*Sec 717.10.3.1* In the first sentence replaced the word device with joint systems. In the last sentence replaced armor steel with steel armor.

*Sec 717.20.3.1* In the first sentence replaced armored joint with expansion joint system. Added a new sentence requiring dimensions of the seal to be shown on the shop drawings for the armored joint. Replaced and added some wording to clarify the different parts of the joint system.

*Sec 717.30.3* In the first sentence replaced the word device with joint systems. In the last sentence replaced armor steel with steel armor.

**SECTION 1018 FLY ASH FOR CONCRETE**

*Sec 1018.3.1* Deleted subsection and renumbered following sections accordingly.

*Sec 1018.3.2* Renumbered to 1018.3.1. In the first sentence added the requirement of sending in a copy of the laboratory’s QC Plan and QC departments. Added a sentence to the end of the section, “In addition, the plant may be inspected to verify the information and to establish personal contact with the QC personnel”.

*Sec 1018.3.4* Renumbered section to 1018.3.3 and deleted last sentence stating laboratories found to not be operating independent of qualified marketing entities shall be disqualified.

**SECTION 1055 CONCRETE CURING MATERIAL**

*Sec 1055.3.2.1 Waterproof Paper.* Replaced AASHTO M 171 with ASTM C 171.

*Sec 1055.3.2.3 White Burlap-Polyethylene Sheeting.* Replaced AASHTO M 171 with ASTM C 171.

*Sec 1055.3.2.4 Burlap and Mats of Jute or Cotton.* Included “or other synthetic material equivalents” to the forth sentence when describing burlap and mats.

**SECTION 1057 MATERIAL FOR JOINTS**

*Sec 1057.6* Created section title “Pavement Joint Forming Material” and renumbered existing Sec 1057.6 to 1057.6.1

*Sec 1057.6.2 Semi-rigid, Closed-cell Polypropylene Foam, Preformed Expansion Joint Filler.* Added as a new subsection.

**SECTION 1092 SIGNAL EQUIPMENT**

*Sec 1092.1.4* Added sentences, “When as indicated in the plans, a reflectorized strip shall be placed along the perimeter of the backplate. The reflectorized strip shall be made from yellow sheeting in accordance with Section 1042. The reflectorized strip shall be adhered to the backplate as shown in the plans.”

**MAJOR REVISIONS:**

**SECTION 616 TEMPORARY TRAFFIC CONTROL**

*Sec 616.3.3* (a) Added language clarifying and describing responsibilities and duties of Work Zone Specialist. (c) Changed language that states the contractor shall obtain authorization from the engineer for any lane closure or shift at least two working days prior to the planned work and 15 calendar days prior to a planned closure or restriction. Also added language that the engineer reserves the right to deny any request for lane closer, traffic shift, road closure or restrictions.

**SECTION 702 LOAD-BEARING PILES**

*Sec 702.2* Revised galvanized pile requirements eliminate steel piling option AASHTO M 270, Grade 36 (ASTM A 709, Grade 36)  and replace it with AASHTO M 270, Grade 50 (ASTM A709, Grade 50).  Manufactured pile point reinforcement to be installed on cast-in-place concrete piles no longer need to be attached to the pile.

*Sec 702.4.5* Pile points for cast-in-place concrete piles shall be attached to the pile as shown on the plans.

*Sec 702.4.8* Expanded for instructions for bitumen and paint as well as galvanizing.

*Sec 702.4.10* “Dynamic Formula” was renamed “FHWA-modified Gates Dynamic Formula”.

*Sec. 702.5.2* No separate measurement will be made for the part of the galvanized pile that is not galvanized.

**SECTION 733 PRECAST CONCRETE BOX CULVERTS**

*Sec 733.2* Added row for Subsurface Drainage Geotextile to existing table along with corresponding link to Section 1011.

*Sec 733.3.2.1* Revised to include when and how geotextile fabric is used on pre-cast joints. Created section 733.3.2.1.1 from existing paragraph and added two sequentially numbered sections.

*Sec 733.3.2.2* Added the words “and Core” to section title. Added sentences, “Lift and core holes are to be sealed with approved materials. Filter cloth at joints may be extended to cover patched holes in lieu of sealing.” to end of paragraph.

**SECTION 901 HIGHWAY LIGHTING**

*Sec 901.4* The approved list of lighting equipment will be in accordance with Sec 902.4.5.

*Sec 901.6.1* Changed lamps shall be focused in the lenses to they shall be oriented for the application.

**SECTION 902 TRAFFIC SIGNALS**

*Sec 902.4.5* The approved list of lighting equipment form D-15 will now be included in the Electronic Deliverables. The completed list will be provided to the engineer electronically

**SECTION 1001 GENERAL REQUIREMENTS FOR MATERIAL**

*Sec 1001.4* Changed Chat definition.

*Sec 1001.12* Deleted current language and added new requirements on how Chat may be furnished.

**SECTION 1091 LIGHTING EQUIPMENT**

*Sec 1091.1.1* Reduced the number of copies fabricators should submit from six to two. Deleted language requiring welding procedures.

*Sec 1091.7 Luminaires.* Changed specifications from High Pressure Sodium to Light Emitting Diode (LED) and renumbered subsequent sections.

*Sec 1091.7.2 Underpass* Renumbered to 1091.7.2.1.1.

SKK/TMO