**Design Standards Letter**

**Letter Number: S-2017-01**

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**Section/Plan No.: 102, 105, 109, 110, 310, 623, 627, 701, 704, 706, 717, 1053, 1065, 1073**

**Subject: Revised Supplement to the 2016 Standard Specifications**

**Body**

**TO:** All Central and District Offices

**FROM:** Llans Taylor

**SUBJECT:** Engineering Policy

Standard Specifications Letter No. 1, 2017

Revisions Supplement to the 2016 Standard Specifications

The Supplemental Revisions to the *2016 Missouri Standard Specifications for Highway Construction*, effective January 1, 2017 are now available on MoDOT’s website.

Questions regarding the Supplemental Revisions to the Missouri Standard Specification should be directed to Ivan Schmidt, Central Office, Engineering Policy Group, at 573-751-0269 or myself at 573-751-7412.

**MINOR REVISIONS:**

**SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS**

*Sec 102.3.3* Changed agreement name to “Electronic Signature Agreement”.

*Sec 102.3.4* Removed requirement for prospective bidder to pay the Commission for bidding documents. Added that Standard Specifications and Standard Plans can be found on MoDOT’s website.

*Sec 102.3.5* Removed “that submit bids via the internet” from sentence.

*Sec 102.7* Removed sentence that bids may be prepared on paper or electronically.

*Sec 102.7.1* Deleted requirements for bids submitted on paper in its entirety and renumbered subsequent sections accordingly.

*Sec 102.7.1* Deleted “electronically” from the first sentence.

*Previous Sec 102.7.3* Deleted requirements for bidders to alter or correct a unit price submitted on paper in its entirety and renumbered subsequent sections accordingly.

*Previous Sec 102.7.5* Deleted requirement that the bid of an individual, including those doing business under a fictitious name, shall include the signature and address of the individual.

*Sec 102.7.3* Deleted “electronically” from the first sentence.

*Sec 102.7.4* Revised requirement for bids by partnership or joint venture, including individuals doing business under fictitious names or corporations, shall only submit one bid.

*Previous Sec 102.7.11* Deleted specification that bids submitted on paper may use Electronic Bidding System software to generate itemized bid sheets in its entirety and renumbered subsequent sections accordingly.

*Sec 102.8.1* Deleted “as non-responsive” from the sentence.

*Sec 102.8.2* Deleted specification that a bid submitted on the “Request For Bid” document and that is otherwise complete and fully executed, will not be deemed an irregular bid and will not be subject to rejection.

*Sec 102.9.1* Revised requirement that bidders may choose to submit a paper or electronic bid guaranty.

*Sec 102.9.1.1* Deleted “/annual bid bond” from the sentence.

*Sec 102.10* Deleted paper bid delivery requirements in its entirety and renumbered subsequent sections accordingly.

*Previous Sec 102.10.1* Revised requirement that bids shall be submitted via the internet.

*Previous Sec 102.10.2* Deleted specification associated with when bidders submits both via internet and paper.

*Sec 102.11* Deleted withdrawal or revision of paper bids requirement in its entirety and renumbered subsequent sections accordingly.

*Sec 102.12.2.1* Removed requirement for conventional paper bids.

*Sec 102.12.2.1* Removed “Public Opening of Bids” title from specification.

**SECTION 105 CONTROL OF WORK**

*Sec 105.7.6* Inserted specification from Utility JSP that contractor agrees that any effects of the presence of utilities, relocation, coordination, and delays in relocation shall not be compensable as suspension of work. Renumbered subsequent section accordingly.

**SECTION 109 MEASUREMENT AND PAYMENT**

*Sec 109.5.4* Clarified to reference the Equipment Watch Cost Recovery for equipment reimbursement rates.

*Sec 109.14* Added to clarify that asphalt mixes paid by SY will be converted to equivalent tons using a factor of 1.98 tons/yd3. Corrected spelling error of “identified”.

**SECTION 110 STATE AND FEDERAL WAGE RATES AND OTHER REQUIREMENTS**

*Sec 110.3* Added penalty statement that contractor shall forfeit a penalty up to $100 per day per worker for each worker that is paid less than the prevailing rate.

*Sec 110.3.3* Added subsistence deduction specification that contractor shall comply with all applicable federal and state laws for employee payroll deductions for subsistence.

**SECTION 310 AGGREGATE SURFACE**

*Sec 310.1* Corrected sentence to say quantity shown in the contract document.

*Sec 310.3.1* Corrected third sentence to say uniformly unload and distribute the required quantity of material.

*Sec 310.4.4* Corrected to add spaces between various words.

*Sec 310.6* Deleted sentence if type 1 Aggregate for base is used this work, payment will be based on plan quantity and contract unit price from Basis of Payment.

**SECTION 701 DRILLED SHAFTS**

*Sec 701.4.10.3.3* Removed antiquated recordings on videotape requirement from drilled shaft inspections.

**SECTION 706 REINFORCING STEEL FOR CONCRETE STRUCTURES**

*Sec 706.3.3.4* Revised to address significant code changes for development and splicing of reinforcement with the 2015 Interim revisions to the AASHTO LRFD Bridge Design Specification.

*Sec 706.3.3.4.1* Revised to address significant code changes for development and splicing of reinforcement with the 2015 Interim revisions to the AASHTO LRFD Bridge Design Specification.

*Sec 706.3.3.4.2* Revised to address significant code changes for development and splicing of reinforcement with the 2015 Interim revisions to the AASHTO LRFD Bridge Design Specification.

**SECTION 1065 DELINEATORS**

*Sec 1065.2* Deleted guardrail median barrier delineator body specification.

*Previous Sec 1065.3* Changed that delineator body shall be flat sheet aluminum.

**MAJOR REVISIONS:**

**SECTION 623 CONCRETE BONDING COMPOUND, EPOXY MORTAR AND EPOXY POLYMER CONCRETE OVERLAY**

*Sec 623.30.3.4* Added to specification for surface preparation that sand blasting will not be permitted.

*Sec 623.30.3.6* Added to specification for epoxy mixture that the use of a volumetric mixer will be required.

*Sec 623.30.3.7.2* Revised the requirement that prime coat to be used if recommended by manufacture.

**SECTION 627 CONTRACTOR SURVEYING AND STAKING**

*Sec 627.2.3* Revised to add the responsibility of providing surveying for utility relocation occurring during construction to the contractor.

**SECTION 704 CONCRETE MASONRY REPAIR**

*Sec 704.1* Revised to add applying concrete crack filler to the description of work.

*Sec 704.2* Revised to add Concrete Crack Filler to the materials table.

*Sec 704.3.10* Added concrete crack filler to list of types of repairs.

*Sec 704.4.2.3* Added requirements for concrete crack filler preparation.

*Sec 704.4.3.1* Added requirements for applying concrete crack filler.

*Sec 704.4.5.5* Added that filling concrete cracks will be measured to the nearest square foot.

**SECTION 717 FLEXIBLE JOINT SYSTEMS**

Revised the above Section title to remove “Neoprene and Silicone” and add “Flexible”.

*Sec 717.20.4* Restructured the order of sentences in specification.

*Sec 717.50* Added Open Cell Foam Joint title.

*Sec 717.50.1* Added description of open cell foam joint.

*Sec 717.50.2* Added materials list table.

*Sec 717.50.3* Added construction requirements for open cell joint.

*Sec 717.50.3.1* Added field splice requirements.

*Sec 717.50.4* Added method of measurement.

*Sec 717.50.5* Added basis of payment.

*Sec 717.60* Added Preformed Silicone or EPDM Expansion Joints title.

*Sec 717.60.1* Added description of preformed silicone or EPDM expansion joint seal.

*Sec 717.60.2* Added materials list table.

*Sec 717.60.3* Added construction requirements.

*Sec 717.60.3.1* Added surface preparation requirements.

*Sec 717.60.3.2* Added priming requirements.

*Sec 717.60.3.3* Added installation requirements.

*Sec 717.60.4* Added method of measurement.

*Sec 717.60.5* Added basis of payment.

**SECTION 1053 CONCRETE SEALER AND CONCRETE CRACK FILLER**

Added concrete crack filler to title for Section 1053. Restructured numbering of section so that specification for penetrating concrete sealer are listed under Section 1053.10 Penetrating Concrete Sealer.

*Sec 1053.10* Added section title for Penetrating Concrete Sealer.

*Previous 1053.2* moved to *sec 1053.10.4*.

*Sec 1053.10.2* Added acceptance requirements.

*Previous 1053.3* Deleted Penetrating Concrete Sealer title.

*Sec 1053.10.4* Revised *previous sec 1053.2* for manufacturer and brand name approval requirements.

*Sec 1053.20* Added section title for Concrete Crack Filler.

*Sec 1053.20.1* Added scope description.

*Sec 1053.20.2* Added acceptance requirements.

*Sec 1053.20.3* Added the chemical composition requirements.

*Sec 1053.20.4* Added to reference Sec 704 for procedures and application rates.

*Sec 1053.20.5* Added the manufacturer and brand name approval requirements.

**SECTION 1073 JOINT MATERIAL FOR STRUCTURES**

*Sec 1073.6* Added open cell foam joint system components requirements and renumbered subsequent section accordingly.

*Sec 1073.6.1* Added general movement requirements.

*Sec 1073.6.2* Added seal properties requirement.

*Sec 1073.6.3* Added adhesive properties requirement.

*Sec 1073.6.4* Added sealant properties requirement.

*Sec 1073.7* Added preformed silicone or EPDM joints component supply requirements.

*Sec 1073.7.1* Added joint properties physical requirement.

*Sec 1073.7.1.1* Added requirements for cyclic loading test.

*Sec 1073.7.2* Added epoxy primer requirements.

*Sec 1073.7.3* Added locking adhesive requirements.

LET/IWS