**Design Standards Letter**

**Letter Number: S-2020-01**

**Letter Date: 10/21/2019**

**Effective Date: 01/01/2020**

**Section: 109, 618, 724, 902, 1092**

**Subject: Revised Supplement to the 2019 Standard Specifications**

**TO:** All Central and District Offices

**FROM:** Sarah Kleinschmit

**DATE:** October 21, 2019

**SUBJECT:** Standard Specifications Letter No. 1, 2020

The Supplemental Revisions to the *2019 Missouri Standard Specifications for Highway Construction*, effective January 1, 2020 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 109 MEASUREMENT AND PAYMENT**

*Sec 109.16* Added fixed cost item to table, 618-10.20 Additional Mobilization for Seeding with a unit of each at a fixed price of $600.

**SECTION 618 MOBILIZATION**

***(Deleted NJSP1603 Additional Mobilization for Seeding and added the following information from the JSP to Sec 618.)***

*Sec 618.3 Additional Mobilization for Seeding.* Added new specification for additional mobilization to perform temporary or permanent seeding beyond the initial occurrence.

 *Sec 618.3.1 Method of Measurement.* Added new specification for measurement of the number of occurrences authorized by the engineer for additional mobilization to perform temporary or permanent seeding beyond the initial occurrence.

*Sec 618.3.2* Added new specification. When payment for Additional Mobilization is not provided in the contract, all mobilization occurrences necessary to comply with the SWPPP shall be considered included in payment for other items.

*Sec 618.4 Basis of Payment.* Added new specification for payment of Additional Mobilization for Seeding at the fixed unit price specified in Sec 109.

**SECTION 724 PIPE CULVERTS**

*Sec 724.3.7 Inspection Criteria.* Updated AASHTO PP 63-09 to AASHTO R 82-17 in the table under Limitations.

**SECTION 902 TRAFFIC SIGNALS**

*Sec 902.4.5* Added specifications for allowing equipment and material that is not covered by a category of the preapproved list, but is in accordance with Sec 902.4.

**SECTION 1092 SIGNAL EQUIPMENT**

*Sec 1092.4.7.6 Microwave Vehicle Detectors.* Revised specification to the following. The product shall be designed for traffic management application and detect vehicles within user definable fields of detection. The number of lanes covered and number of detection outputs shall be sufficient to support the specific traffic signal design or application. The product shall have a minimum detection range of 120 feet for any vehicle type. The product shall be designed to place a constant call to the controller in the event of any failure. All product components shall meet or exceed NEMA environmental standards, including a continuous operating temperature range of -29° F to 165° F (-34° C to 74° C). The unit shall have FCC certification and shall be tested to the applicable FCC specifications. Sensor enclosures shall be weather and UV resistant. All user operated controls and adjustments shall be clearly marked and easily accessible. The product shall include all interface circuitry and cabinet modules necessary to interface with NEMA TS1, NEMA TS2 or Type 170 traffic signal control cabinets as appropriate to support the specific traffic signal design or application. All cabling installed shall be as specified by the detection system manufacturer. The product shall include mounting hardware designed for attachment to typical signal and lighting structures. Power supply equipment shall be specified by the detection system manufacturer and shall be provided with the unit. Any software required for configuration, operation or maintenance shall be included.

SKK/TMO