

Design Standards Letter

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Section: 610, 616, 901, 1040, 1063, 1065, 1081, 1091

Subject: Revised Supplement to the 2026 Standard Specifications

TO: All Central and District Offices

FROM: Gidget Koestner

DATE: October 26, 2026

SUBJECT: Standard Specifications Letter No. 1, 2027

The Supplemental Revisions to the *2026 Missouri Standard Specifications for Highway Construction*, effective January 1, 2027, are now available on MoDOT's [website](#).

Questions regarding the Supplemental Revisions to the Missouri Standard Specifications should be directed to Gretchen Hanks, Central Office, Engineering Policy Services, at 573-472-9019 or myself at 573-751-6905.

MAJOR REVISIONS:

SECTION 610 PAVEMENT SMOOTHNESS

Sec 610.1 Description. Revise descriptions of pavement construction and overlay categories A, B, C and D.

Sec 610.1.1. Add as new section.

Sec 610.4.1 Smoothness Increments. In the last sentence of part (b), change “length” to “adjusted length of the segment”.

Sec 610.4.2.1. In part (b), create a new last sentence “Profilable pavement is considered any pavement not meeting the exceptions listed in Sec 610.4.2.2 or 610.4.2.3.”

Sec 610.4.5 Full Depth Pavement and Multi-lift Overlays > 3 Inches. Change the section title to “Full-Depth Pavement or Multi-lift Asphalt Overlays > 3 Inches”. In the first sentence, change “pavement treatments” to “categories A and B” and delete “(a) and (b)”.

Sec 610.4.5.4 Method of Correction. Revise Table 1 to show categories A, B and C and supporting details.

Sec 610.4.6 Multi-treatment Overlays or Multi-lift Overlays ≤ 3 Inches. Change the section title to “Multi-lift Overlays ≤ 3 Inches or Single-lift Overlays with Cold Milling ≥ 1 Inch”. In the first sentence, change “pavement treatments” to “category C” and delete “(c)”.

Sec 610.4.6.1 Quality Control Testing. In the first sentence, delete “for multi-lift overlays less than or equal to 3 inches”.

Sec 610.4.7 Single Lift Overlays. In the first sentence, change “pavement treatments” to “category D” and delete “(d)”.

Sec 610.5.1 Fixed Value Improvement. In the first sentence, change “all pavement treatments” to “categories A, B and C” and delete “(a), (b) and (c)”.

Sec 610.5.1.2 Incentives. Delete the first three sentences and replace with “Incentive payment for smoothness will be paid per Table 2 or Table 3, as applicable to the pavement treatment category described in Sec 610.1. For category A and B incentive, when the posted speed limit is greater than 45 mph, Table 2 applies, and when the posted speed limit is 45 mph or less, Table 3 applies. For category C incentive, Table 3 applies for all routes except that Table 2 applies when both the posted speed limit is greater than 45 mph and the AADT exceeds 3500.” Revise Tables 2 and 3 to show categories A, B and C and supporting details.

Sec 610.5.2 Percent Improvement. Change the section title to “Percent Improvement Adjustment”. In the first sentence, change “all pavement treatments” to “category D” and delete “(d)”.

Sec 610.5.2.1. Revise Table 4 to show category D and supporting details.

SECTION 616 TEMPORARY TRAFFIC CONTROL

Sec 616.3.3. In the third sentence of part (a), add “managing the Work Zone Intelligent Transportation Systems (WZITS),” after “signs or devices”.

Sec 616.4.1. In the first sentence, add “WZITS and traffic control” before “devices shall”.

Sec 616.4.1.1. In the second and third sentence, add “and WZITS” before “devices”. In the fourth sentence, add “or WZITS” before “devices”.

Sec 616.4.2.4. In the first sentence, add “and WZITS” before “devices”.

Sec 616.4.2.5. In the first sentence, add “or WZITS” after “traffic control”.

Sec 616.4.3. In the eighth sentence, delete “Type B”.

Sec 616.5.1.1. Renumber to Sec 616.5.2.

Sec 616.5.2. Renumber to Sec 616.5.3 and add new title “Work Zone Lighting”. In the first sentence, delete “Sec 616.5.2.1 and 616.5.2.2” and add “Secs 616.5.3.1 and 616.5.3.2 and shall be in accordance with Sec 901.2.”

Sec 616.5.2.1 through Sec 616.5.2.2. Renumber to Sec 616.5.3.1 through Sec 616.5.3.2.

Sec 616.5.2.3. Renumber to Sec 616.5.4 and add new title “Sequential Flashing Warning Lights”. Delete the first two sentences. In the new first sentence, delete “be able to”, and change “with” to “within” before “the sequence”. In the new second sentence, change “should” to “shall”. In the last sentence, add “Sequential flashing” before “warning lights” and delete “be battery or solar powered and”.

Sec 616.7 Changeable Message Signs. In the first sentence, add “WZITS Plan” after “on the plans”. Add two new sentences to the end of the section, “CMS used on roadways with speed limits of 55 mph or higher shall be visible from ½ mile under both day and night conditions. The message shall be designed to be legible from a minimum of 600 feet for nighttime conditions and 800 feet for normal daylight conditions.”

Sec 616.7.1. In the first sentence, add “or the WZITS Plan” after “traffic control plan”.

Sec 616.7.2. In the first sentence, change “plans” to “contract”. Add a new last sentence, “The contractor shall not activate the CMS on right of way until the Communication Interface is functional.”

Sec 616.8 Work Zone Traffic Signals. In the first sentence, delete “one lane, two way”, add “to alternate one-way traffic flow” after “temporary traffic control”, add “work zone by” after “through the” and add “and lighting in accordance with Sec 902.3” after “temporary traffic signal”.

Sec 616.8.1. In the first sentence, change “work zone traffic signal” to WZITS”.

Sec 616.8.1.3. Replace entire section with “The contractor shall provide uninterrupted WZTS traffic control, for travel through the work zone while travel is restricted to alternating one-way traffic flow. During any period of time the WZTS is inoperable and one-way travel is restricted to alternating one-way traffic flow, the contractor shall provide flaggers at the contractor’s expense”.

Sec 616.8.1.4. Replace entire section with “The contractor shall furnish signal timing, programming, and vehicle detection locations, if required, to the engineer for approval prior to activation of the WZTS. The contractor shall ensure the approved signal timing is provided for the duration of the project. The contractor shall furnish adjustments to the signal timing, programming, and vehicle detection locations to the engineer for approval prior to relocation of the WZTS and prior to adjustments identified by the contractor or engineer.”

Sec 616.8.1.6. In the first sentence, add “all” before “lighting”.

Sec 616.8.3 Portable Traffic Signals. In the last sentence, delete “non-metallic drum-like”.

Sec 616.11 Work Zone Intelligent Transportation System Plan. Add as new section.

Sec 616.11 Method of Measurement. Renumber to Sec 616.12, to accommodate new section.

Sec 616.12 Basis of Payment. Renumber to Sec 616.13. In part (a), add “Furnishing and installing” before “incidental items”. In part (f), add “Furnishing” before “flaggers”. In part (i), change “provide” to “Furnishing”. Add parts (j) and (k).

SECTION 1040 GUARDRAIL, END TERMINALS, ONE-STRAND ACCESS RESTRAINT CABLE AND GUARD CABLE MATERIAL

Sec 1040.2.2 Application for Placement on Qualified List. In the second sentence, change “Pre-Qualified Section 1040, 1043, and 1044 Supplier Inclusion Certificate and Guarantee Statement” to “Roadside Hardware Inclusion Certification and Guarantee Statement”.

Sec 1040.4.5 Brand Registration and Guarantee. Delete section.

Sec 1040.4.5 Placement on the Manufacturer Qualified List. Add as new section.

Sec 1040.4.6 Acceptance. In the first sentence, replace “brand registration and guarantee” with “placement on the Manufacturer Qualified List”.

SECTION 1063 TEMPORARY TRAFFIC CONTROL DEVICES

Sec 1063.1 Scope. In the first sentence, add “and Work Zone Intelligent Transportation System (WZITS)” before “devices”.

Sec 1063.2 General Requirements. Add new second sentence, “The WZITS devices shall be manufactured as shown on the plans and as specified, in accordance with the MUTCD requirements.” In the new third through sixth, eighth and tenth sentences, add “and WZITS” after “temporary traffic control”.

Sec 1063.5 Sequential Flashing Warning Lights. In part (c), change “24 hours per day” to “dusk to dawn”.

Sec 1063.6 Flashing Arrow Panels. Delete the last sentence.

Sec 1063.6.1 Trailer-Mounted Flashing Arrow Panels. Delete the last sentence.

Sec 1063.7 Changeable Message Sign. In the first sentence, delete “solar”.

Sec 1063.7.1 Message Board. Delete the first and fourth through sixth sentences. In the new first sentence, change “Either” to “The”, add “of each CMS” after “message board” and change “to provide” to “of providing”.

Sec 1063.7.3 Solar Power Supply. Delete section.

Sec 1063.8 Portable Traffic Signals. In the first sentence, add “in accordance with this section” to the end of the sentence. In the second sentence, add “in accordance with Sec 1092” after “indications” and change “solar” to “self-contained”.

Sec 1063.8.1 Controller Assembly. In the second sentence, change “both” to “all”.

Sec 1063.8.4 Solar Power Supply. Delete section.

Sec 1063.8.5 and 1063.8.6. Renumber to Sec 1063.8.4 and 1063.8.5, to accommodate deleted section.

Sec 1063.10 Radar Speed Advisory System. In the first sentence, delete “solar”.

Sec 1063.10.2 Speed Display. In the first sentence, change “12 inches” to “18 inches”.

Sec 1063.10.3 Speed Limit Display. In the last sentence, change “12 inches” to “18 inches”.

Sec 1063.10.4 Solar Power Supply. Delete section.

Sec 1063.11 Truck or Trailer Mounted Attenuators. Add “(TMA)” to the end of the section title.

SECTION 1065 DELINEATORS

Sec 1065.5 Guardrail Delineators. Add as new section.

Sec 1065.5 Retroreflective Sheeting. Renumber to Sec 1065.6, to accommodate new section.

MINOR REVISIONS:

SECTION 901 HIGHWAY LIGHTING

Sec 901.2.1. Delete the first sentence and replace with “Temporary lighting shall consist of furnishing, installing and maintaining wood poles where required, luminaires, bracket arms where required, other lighting support and mounting equipment or installation on existing lighting poles, power cable, connection to a power source, mounting hardware and all other material necessary to provide the temporary installation as shown on the plans.”

Sec 901.2.2. Delete the first sentence and replace with “Temporary luminaires shall be equipped with an LED emitter and provide a nominal 16,000 initial lumens unless otherwise specified on the plans, with a Type III medium distribution, semi-cutoff light distribution and a B.U.G. rating of 2-0-2, or better.” In the second sentence, add “and horizontal” after “above the pavement”. In the third sentence, add “where required” after “Bracket arms”.

Sec 901.2.3. In the third sentence, change “Sec 901.14” to “Sec 901.13”.

Sec 901.2.2. In the second sentence, change “Sec 901.14” to “Sec 901.13”.

Sec 901.3.3. Delete the last sentence and replace with “New equipment and material shall be listed and labeled by a nationally-recognized testing laboratory, as applicable, and shall meet the approval from the engineer.”

Sec 901.5 Roadway Lighting Pole Construction Requirements. Add as new section.

Sec 901.5 Lighting Poles. Renumber to Sec 901.5.1, to accommodate new section.

Sec 901.5.1.1 Top Mount Lighting Poles. Add as new section.

Sec 901.5.2 High Mast Lighting Towers. Add as new section.

Sec 901.5.2.1 High Mast Towers and Foundations. Add as new section.

Sec 901.5.2.1.1 Tower Shafts. Add as new section.

Sec 901.5.2.1.2 Tower Installation. Add as new section.

Sec 901.5.2.1.3 Tower Foundations. Add as new section.

Sec 901.5.2.1.4 Identification Sign. Add as new section.

Sec 901.5.2.1.5 Lowering Device Inspection. Add as new section.

Sec 901.6.6 In the first sentence, change “Sec 901.14” to “Sec 901.13”.

Sec 901.6.7 In the first sentence, change “Sec 901.16” to “Sec 901.15”.

Sec 901.7 Contractors. Delete section.

Sec 901.8 Power Supply Assembly. Renumber to Sec 901.7. In the first sentence, replace “pedestal” with “W-beam pedestal or concrete pedestal. In the second sentence, add “conform to the plans, [Sec 1091.9](#), and” after “assembly shall”. Delete the last two sentences.

Sec 901.8.1 through Sec 901.8.3 and Sec 901.8.5. Delete sections.

Sec 901.8.4. Renumber to Sec 901.7.1. In the first sentence, delete “or” after “pole”, and add “or cabinet” to the end of the sentence.

Sec 901.7.2. Add as new section.

Sec 901.9 Rigid Conduit System. Renumber to Sec 901.8. Add new last sentence, “Rigid conduit material shall conform to [Sec 1060](#) and shall be the type specified on the plans.”

Sec 901.10 through Sec 901.12.5. Renumber sections.

Sec 901.13 Luminaires. Renumber to Sec 901.12. Add “as shown on the plans” to the end of the first sentence. Add new second sentence “Luminaires shall conform to Sec [1091.7](#).” Create new section Sec 901.12.1 with last two sentences.

Sec 901.14 Circuits. Renumber to Sec 901.13. Create new section Sec 901.13.1 with last two sentences.

Sec 901.13.1. In the first sentence of the newly created section, change “500-volt” to “1000-volt (minimum)”.

Sec 901.14.1 through 901.15. Renumber sections.

Sec 901.15.1. Renumber to Sec 901.14.1. In the third sentence, add “electrical duct” before “sealing compound”.

Sec 901.15.2 through 901.18.7. Renumber sections.

Sec 901.17.8 through Sec 901.17.9. Add as new sections.

Sec 901.18.8 through 901.18.13. Renumber sections.

Sec 901.18.14. Delete section.

Sec 901.19 through 901.19.4. Renumber sections.

SECTION 1081 COATING OF STRUCTURAL STEEL

Sec 1081.20 Galvanizing of Structural Steel. Change the section title to “Galvanizing Steel”.

Sec 1081.20.1 Scope. In the first sentence, delete “bridges and structures made of structural”.

Sec 1081.20.2 Material. In the first column, third row of the table, add “using Zinc-Based Alloys” after “Galvanizing Repair”. In the second column, third row of the table, add “Annex A1” after “ASTM A780”. Create a fourth row in the table by adding “Galvanizing Repair using Paints Containing Zinc Dust (non-aerosols)” to the first column and adding “ASTM A780, Annex A2” to the second column.

Sec 1081.20.3 Galvanized Metal. Change the section title to “Galvanizing Metal”. In the first sentence, change “Structural steel beams or girders, bracing and diaphragms” to “Steel”. Truncate the section after the third sentence.

Sec 1081.20.4 Galvanized Metal Repair. Add as new section.

Sec 1081.20.4 Acceptance Criteria. Renumber to Sec 1081.20.5, to accommodate new section.

SECTION 1091 LIGHTING EQUIPMENT

Sec 1091.1.1 Pre-Approval. In the second and third sentences, replace “Traffic” with “the engineer”.

Sec 1091.1.2 Requirements. Add new fourth sentence, “All stainless-steel hardware shall conform to ASTM F593.” In the sixth sentence, add “(where required)” after “bracket arms”.

Sec 1091.1.2.3 Top Mount Lighting Pole. Add as new section.

Sec 1091.1.2.3 through Sec 1091.1.2.4.2. Renumber sections.

Sec 1091.1.2.6 through Sec 1091.1.2.6.15 Add as new sections.

Sec 1091.6 Bracket Arms. In the first sentence, add “(where required)” after “Bracket arms”.

Sec 1091.7.1.1. In the first sentence, replace “10,000” with “50,000” and add “with an ambient temperature range of maximum 40°C (104°F) to minimum -25°C (-13°F) to the end of the sentence.

Sec 1091.7.2 Requirements. Change the section title to “General Luminaire Requirements”.

Sec 1091.7.2.1 Roadway. Change the section title to “General”. Add new first sentence, “All luminaires shall be LED.” Replace the third sentence with “IES vertical distribution, control of distribution, and lateral distribution shall be set in accordance with the manufacturer's recommendations and as indicated in the plans unless otherwise directed by the engineer.”

Sec 1091.7.2.1.1 through Sec 1091.7.2.2. Delete sections.

Sec 1091.7.2.3. Renumber to Sec 1091.7.2.2. Add section title “Electrical”. In the first sentence, add “-25°C (-13°F) to +40°C (104°F)” before “ambient temperature” and delete “specified” after “range”.

Sec 1091.7.2.4. Renumber to Sec 1091.7.2.2.1.

Sec 1091.7.2.2.2. Add as new section.

Sec 1091.7.2.5. Renumber to Sec 1091.7.2.3. Add section title “Optical System”. Add new first sentence, “Luminaire optical system shall employ serviceable LED modules with clear tempered or borosilicate glass lens.” Add two new sentences to the end of the section, “Luminaire unit shall deliver the specified initial lumen levels at the specified IES distribution as shown on the plans. The product’s photometry shall have been tested to IESNA LM-79. The unit shall be certified IP-66 rated.”

Sec 1091.7.2.4 through Sec 1091.7.2.7. Add as new sections.

Sec 1091.8.5 Circuit Breakers. In the first sentence, add “conforming to UL489” to the end of the sentence. Add new last sentence, “Plug-in breakers shall not be permitted.”