

Design Standards Letter

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Section: 102, 401, 402, 403, 501, 502, 616, 620, 701, 703, 706, 1005, 1015, 1042, 1048, 1063

Subject: New Publications of the 2025 Standard Specifications

TO: All Central and District Offices

FROM: Gidget Koestner

DATE: May 23, 2025

SUBJECT: Standard Specifications Letter No. 3, 2025

The Supplemental Revisions to the *2024 Missouri Standard Specifications for Highway Construction* are now included in the new publication of the *2025 Missouri Standard Specification for Highway Construction* along with the following additional revisions listed below. The *2025 Missouri Standard Specifications for Highway Construction* effective July 1, 2025 is 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 1005 AGGREGATE FOR CONCRETE

Sec 1005.2.1.2. In the third sentence, replace “90 percent” with “80 percent”. In the fourth row of the table, change “80” to “75”.

Sec 1005.2.4. In the third sentence, replace “90 percent” with “80 percent”. In the fifth row of the table, change “80” to “75”.

MINOR REVISIONS:

SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS

Sec 102.7.1 Modify last sentence by splitting into two sentences and adding new language. “In case of alternate items, unit prices shall be entered for only one alternate in an alternate set. If unit prices are entered for more than one alternate in an alternate set then the bidder is irregular, unless otherwise specified in the bidding documents.”

SECTION 401 PLANT MIX BITUMINOUS BASE AND PAVEMENT

Sec 401.5.1 Sample Location. Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

SECTION 402 PLANT MIX BITUMINOUS SURFACE LEVELING

Sec 402.6 Sample Location. Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

SECTION 403 ASPHALTIC CONCRETE PAVEMENT

Sec 403.5.1 Gradation and Deleterious Content Control. Add new fourth sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

Sec 403.5.7 Aggregate Properties. Add the following to the end of the section “Samples are to be taken from the combined cold feed whether from a drum-mix plant or a batch plant. Samples are to be taken in accordance with AASHTO R 90.”

SECTION 501 CONCRETE

Sec 501.2.1 Aggregate Acceptance. Add new last sentence “Aggregate samples shall be taken in accordance with AASHTO R 90.”

Sec 501.6.3 Calibration Frequency. Add new second sentence “The commercial scale service shall be independent of the contractor, MoDOT consultants and all project subcontractors or suppliers including the concrete producers.”

Sec 501.8.11 Delivery Tickets. Add new items (k) through (s) and add last sentence “Other forms of reporting records may be permitted as approved by the engineer.”

SECTION 502 PORTLAND CEMENT CONCRETE BASE AND PAVEMENT

Sec 502.11.2.1.1 Aggregate Gradation. Add new third sentence “Samples shall be taken in accordance with AASHTO R 90.”

Sec 502.11.2.1.2 Deleterious Materials. Add new third sentence “Samples shall be taken in accordance with AASHTO R 90.”

Sec 502.11.2.1.3 Absorption. Add new second sentence “Samples shall be taken in accordance with AASHTO R 90.”

Sec 502.11.2.1.4 Thin or Elongated Pieces. Add new second sentence “Samples shall be taken in accordance with AASHTO R 90.”

Sec 502.11.2.2 Slump. In the last sentence add “taken” in front of “in accordance with”.

Sec 502.11.2.3 Entrained Air Content. Add new eighth sentence “Material samples shall be taken in accordance with AASHTO R 60.”

SECTION 616 TEMPORARY TRAFFIC CONTROL

Sec 616.5.1.1(a) Red or Red and Blue Warning Lights. Add new sentence to end of section “Red or red and blue lights may only be displayed between dusk and dawn and when the vehicles and/or equipment are stationary.”

SECTION 620 PAVEMENT MARKING

Sec 620.10.2.1 Description. Delete the second sentence. In the third sentence, delete “for standard and high build waterborne”.

Sec 620.10.2.2 Material. In the first row of table, change “Standard” to “High Build”.

Sec 620.10.2.3.2 In the first sentence, change “15 mils” to “18 mils”.

Sec 620.10.6.2 Applications. In the first sentence, change “standard waterborne” to “Class 1 pavement marking”. In the second sentence, change “high build waterborne” to “Class 2 pavement marking”.

Sec 620.10.6.4 Material. In the first row of table, change “1048.30.2” to “1048.30”.

Sec 620.10.6.5 Construction Requirements. In the first sentence, change “15 mils” to “18 mils”.

Sec 620.20.2.2 Material. Delete the second row of table.

Sec 620.20.2.5 Replace title with “Class 1 Pavement Marking Paint”. In the first sentence, change “Standard waterborne” to “Class 1 pavement marking” and change “15 mils” to “18 mils”.

Sec 620.20.2.5.1 In the first sentence, change “standard waterborne” to “Class 1 pavement marking”.

Sec 620.20.2.6 Replace title with “Class 2 Pavement Marking Paint”. In the first sentence, change “High build waterborne” to “Class 2 pavement marking”.

Sec 620.20.2.6.1 In the first sentence, change “high build waterborne” to “Class 2 pavement marking”.

Sec 620.20.2.6.2 In the first sentence, change “High Build Waterborne Paint” to “Class 2 pavement marking paint”.

Sec 620.40.2.2.4 Replace title of first table with “Class 1 Paint (Type P Beads)”. Replace title of second table with “Class 2 Paint (Type L Beads)”. Replace title of fourth table with “Class 1/Class 2 Paint on Seal Coat Surfaces”.

SECTION 701 DRILLED SHAFTS

Sec 701.4.12.1 Reinforcing Ties, Splices and Clearances. In the fourth sentence, change “30 inches” to “24 inches”.

SECTION 703 CONCRETE MASONRY CONSTRUCTION

Sec 703.3.6.3.2.2 Application Rate. In the first sentence, change “150 square feet” to “200 square feet”.

SECTION 706 REINFORCING STEEL FOR CONCRETE STRUCTURES

Sec 706.3.3.4 In the table, add “& Galv.” after “Plain” in the column headings. Revise minimum lap lengths and minimum cover and spacing values in the table. Add “and Galvanized” after “Plain” in note below the table.

Sec 706.3.3.4.1 Revise the formula to the following:

$$B = \frac{d_b}{0.3c_b}, \text{ if } B > 3.33, \text{ then } B = 3.33$$

SECTION 1015 BITUMINOUS MATERIAL

Sec 1015.3.1 Certification. In the third sentence add “chemical additives, such as polyphosphoric acid (PPA), used in modification,” between “grade of material,” and “specific gravity”.

Sec 1015.3.7 Railroad Shipments. In the second sentence add “chemical additives, such as PPA, used in modification,” between “grade of material,” and “quantity represented”.

Sec 1015.10.1 General. Add the following to the end of the first sentence “except Re-refined Engine Oil Bottoms (REOB) and Vacuum Tower Asphalt Extenders (VTAE) shall not be used as modifiers”.

SECTION 1042 HIGHWAY SIGN MATERIAL

Sec 1042.2.7.4 Barricades. Rename section “Advanced Warning Rails” to “Barricades”. In the first sentence replace “Advanced Warning Rails” with “Barricades”.

SECTION 1048 PAVEMENT MARKING MATERIAL

Sec 1048.10 Temporary Pavement Marking Materials Change all references from “15 mils” to “18 mils”.

Sec 1048.10.1.1.1.4 Color. Correct section numbering by changing “1048.10.1.1.4” to “1048.10.1.1.3.4”.

Sec 1048.10.1.1.1.4.1 through 1048.10.1.1.1.5.3 Renumber to accommodate section numbering correction.

Sec 1048.10.1.1.2.2.4 Mixed Paint. Correct section numbering by changing “1048.10.1.1.2.2.4” to “1048.10.1.1.2.3”.

Sec 1048.10.1.1.2.2.4.1 through 1048.10.1.1.2.5.1 Renumber to accommodate section numbering correction.

Sec 1048.20 Permanent Pavement Marking Materials Change all references from “15 mils” to “18 mils”.

Sec 1048.20.1.1 through 1048.20.1.1.4.3. Delete sections.

Sec 1048.20.1.2 through 1048.20.1.2.4.3 Renumber to accommodate deleted sections.

SECTION 1063 TEMPORARY TRAFFIC CONTROL DEVICES

Sec 1063.4.5 Flag Assembly. Delete section.

Sec 1063.4.6 Advance Warning Rails. Delete section.

GJK/GFH