

# Design Standards Letter

**Letter Number: S-2002-01**

**Letter Date: 04/01/2002**

**Effective Date: 07/01/2002**

**Section/Plan No.: S101.1, S106.1.5, S109.10, S301.5, S301.9.4, S310.5, S401.5, S401.9.3, S401.15, S402.5, S402.9.2, S403.13.1, 403.15.2, S501.10, S501.13.1.3, S502.3.6, S502.4.1, S502.11.3, S602, S617, S620, S802.2.3.2, S901.4.4.3 - S901.4.4.3.7, S901.8.13, S901.9.3, S902.4.7.3.3, S902.4.7.6, S902.8.12, S902.9.1, S1006.2, S1015.5, S1042.2.7.5, S1042.2.7.5.1, S1042.2.7.5.2, S1042.2.8, S1048, S1072.2.2**

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

**Body**

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 Questions concerning the Supplemental Revisions to the Standard Specifications should be directed to Kirsten Munck, General Headquarters, Design Standards, at 573-526-2919 or David Silvester at 573-526-2903.

NOTE	EXPLANATION
1	The following revisions are effective with the July 2002 bid opening.
SECTION	DESCRIPTION OF REVISION
<b>GSPs</b>	<p>The General Special Provision, <i>"Show Me Progress"</i>, has been revised to specify that these signs shall remain in place upon completion of the project, and that all sign panels, posts and hardware will become the property of the Commission. Added material requirements for washers and steel channel posts, stating that they need to be in accordance with Secs 1042 &amp; 1044, respectively.</p> <p>The General Special Provision, <i>White and Yellow Acrylic Waterborne Traffic Marking Paint</i> has been completely revised. This special provision was updated to a performance-related specification, and is now in agreement with the MGS version used by General Services for procurement of traffic marking paint used by our Traffic forces.</p> <p>The General Special Provision, <i>Video Detection System</i>, has been removed and incorporated into the Standard Specifications (See Sec 902.4.7.6 below for more information.).</p>
SECTION	DESCRIPTION OF REVISION

<b>101.1</b>	Amended the Abbreviations to include ESAL (Equivalent 18-kip Single Axle Load), MSDS (Material Safety Data Sheet) and PWL (Percent Within Limits).
<b>106.1.5</b>	This specification now requires that the contractor supply a list of proposed sources of material either two weeks prior to beginning work or at the pre-construction meeting - whichever is earlier.
<b>109.10</b>	Clarified the existing specification to ascertain that Commission approval is required for all requests to assign any Commission contract or any right or duty under any contract.
<b>301.5</b>	Modified to ascertain that bituminous mixtures shall not be placed onto any wet surface or frozen pavement.
<b>301.9.4</b>	New section created to address pavement edge differentials, which reads, "For roadways constructed under traffic, no pavement edge differential shall be left in place for more than seven calendar days, unless approved by the engineer."
<b>310.5</b>	Revised the <i>Basis of Payment</i> to address Type 1 or Type 2 Aggregate for Base and Gravel (A) and Crushed Stone (B) material used for aggregate surface.
<b>401.5</b>	Modified to ascertain that bituminous mixtures shall not be placed onto any wet surface or frozen pavement. Removed the date restrictions on bituminous mixtures stating that they shall not be placed between October 1 and April 1.
<b>401.9.3</b>	New section created to address pavement edge differentials, which reads, "For roadways constructed under traffic, no pavement edge differential shall be left in place for more than seven calendar days, unless approved by the engineer."
<b>401.15</b>	Removed redundant phrasing and stated that when pavement marking has been obliterated, pavement marking shall be replaced in accordance with Sec 620.
<b>402.5</b>	Modified to ascertain that bituminous mixtures shall not be placed onto any wet surface or frozen pavement. Removed the date restrictions on bituminous mixtures stating that they shall not be placed between October 1 and April 1.
<b>402.9.2</b>	New section created to address pavement edge differentials, which reads, "No pavement edge differential shall be left in place for more than seven calendar days, unless approved by the engineer."
<b>403.13.1</b>	Modified to ascertain that asphaltic concrete shall not be placed onto any wet surface or frozen pavement. Removed the date restrictions on asphaltic concrete stating that it shall not be placed between October 1 and April 1. Removed specification stating that all binder course asphaltic concrete shall be covered with the surface course mixture prior to October 1.

<b>403.15.2</b>	Added a statement to clarify that this specification applies to roadways constructed under traffic. Added a statement to address pavement edge differentials, which reads, "No pavement edge differential shall be left in place for more than seven calendar days, unless approved by the engineer."
<b>501.10</b>	Added specifications addressing the use of Type A water-reducing admixtures, and specified that a reduction of 0.25 sack of cement/cubic yard would be permitted.
<b>501.13.1.3</b>	Deleted this section pertaining to the date restrictions on concrete placement (between November 1 and April 1).
<b>502.3.6</b>	Changed the specifications to allow either a conventional concrete saw or an early-entry concrete saw to establish joints.
<b>502.4.1</b>	Removed the time requirement for protection of freshly placed concrete from freezing, instead of basing the protection period on days, it will now be based on the attainment of compressive strength requirements.
<b>502.11.3</b>	Added specifications for the option of using an early-entry concrete saw for joints.
<b>602</b>	This section has been revised to remove all reference to concrete right of way markers, which are no longer used and to remove specifications for concrete to set drain markers and steel right of way markers.
<b>617</b>	Completely revised this section to include specifications for Type F concrete traffic barrier. The standards will specify that all Type F concrete traffic barriers will be contractor furnished/contractor retained. In the event that the MoDOT would like to retain ownership, the revised Job Special Provision, <i>Contractor Furnished/Commission Retained Temporary Type F Concrete Traffic Barrier</i> should be included in the contract.
<b>620</b>	Completely revised this section. Incorporated performance-based specifications where possible. Divided existing general specifications into permanent and temporary. Revised inspection and acceptance specifications. Split thermoplastic requirements into extruded and hot spray specifications.
<b>802.2.3.2</b>	Removed the table regarding moisture content and pH requirements within this section, replacing the table with the statement that these properties "...shall be in accordance with Sec 802.2.3.1".
<b>901.4.4.3 – 901.4.4.3.7</b>	New section created for Navigation Lighting System specifications.
<b>901.8.13</b>	New section created to address the <i>Method of Measurement</i> for Navigation Lighting Systems.
<b>901.9.3</b>	New section created to address the <i>Basis of Payment</i> for Navigation Lighting Systems.
<b>902.4.7.3.3</b>	New section created by moving the specifications for Detector Loop Sealant (previously located in Sec 902.4.7.6) into Sec 902.4.7.3, Induction

	Loop Detectors.
<b>902.4.7.6</b>	Moved "Detector Loop Sealant," including subsections, into Sec 902.4.7.3.3. Inserted specifications for Video Detection Systems into this section (Secs 902.4.7.6 through 902.4.7.6.7) from the General Special Provisions.
<b>902.8.12</b>	New section to address the <i>Method of Measurement</i> for Video Detection Systems. Video Detection Systems will be measured per each.
<b>902.9.1</b>	New section to address the <i>Basis of Payment</i> for Video Detection Systems.
<b>1006.2</b>	A note was added to the table to indicate that Type 1 or 2 Aggregate for Base may be used. Combined the English and metric tables into one table with dual units.
<b>1015.5</b>	Added EA-90P and CRS-2P emulsions and updated the emulsified asphalt application temperatures in the table.
<b>1042.2.7.5</b>	The last sentence regarding verification testing was struck and revised into Secs 1042.2.7.5.1 & 1042.2.7.5.2.
<b>1042.2.7.5.1 &amp; 1042.2.7.5.2</b>	These two sections were created to clarify the "verification testing" process, and to be in accordance with Sec 1042.2.8, Fluorescent Reflective Sheeting. Preliminary acceptance is now based on NTPEP and verification testing for reflectance & chromaticity, and continued approval will be based upon satisfactory field performance.
<b>1042.2.8</b>	New section created for Fluorescent Reflective Sheeting. The information contained within these new specifications will replace the Job Special Provision, DSP-98-28A, <i>Fluorescent Orange Work Zone Signs</i> .
<b>1048</b>	Revised to incorporate the <i>Glass Beads for Pavement Marking Material</i> and <i>Hot Spray Thermoplastic Pavement Marking Material</i> JSP's into the specifications.
<b>1072.2.2</b>	Removed creosote primer specification requirements from AASHTO M 121, to ASTM D 43.

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