**Design Standards Letter**

**Letter Number: P-2016-04**

**Letter Date: 08/24/2016**

**Effective Date: 10/01/2016**

**Section/Plan No.: 606.00, 606.41, 606.50, 606.60, 606.70, 606.80, 613.00, 617.10, 620.00, 620.10, 731.10, 903.01, 903.02, 903.03, 903.05, 903.06, 903.07, 903.08, 903.10, 903.12, 903.60,**

**Subject: Revised Supplement to the 2009 Missouri Standard Plans for Highway Construction and New Publication of the 2016 Missouri Standard Plans for Highway Construction**

**Body**

**TO:** All Central and District Offices

**FROM:** Llans Taylor

**DATE:**  August 24, 2016

**SUBJECT:** Engineering Policy

Standard Plans Letter No. 4, 2016

Supplemental Revisions to 2009 Missouri Standard Plans for Highway Construction and the New Publication of the 2016 Missouri Standard Plans for Highway Construction

The Supplemental Revisions to the *2009 Missouri Standard Plans for Highway Construction* are now included in the new publication of the *2016 Missouri Standard Plans for Highway Construction* along with the following additional revision listed below. The *2016 Missouri Standard Plans for Highway Construction* effective October 1, 2016 are now available.

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

**REVISIONS:**

**606.00** Removed standard plans *(sheet 2 of 8)*. Renumbered all sheet numbers.

**606.00** *(sheet 4 of 7)* *–* Added new guardrail delineation detail and added note to refer to Standard Plans 903.03 for additional delineation details.

**606.41** *(sheet 1 of 7)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**606.50** *(sheet 3 of 8)* *–* Added new guardrail delineation detail and added note to refer to Standard Plans 903.03 for additional delineation details.

**606.60** *(sheet 2 of 5)* *–* Corrected spelling error of “Approach”.

**606.70** *(sheet 1 of 5)* *–* Changed dimension “4 spaces at 1’-6 ¾” from “4 spaces at 1’-9 ¾”.

**606.80** *(sheet 8 of 8)* *–* Revised note for details of post and block to refer to Standard Plan 606.00 sheet 4 of 7.

**613.00** *(sheet 2 of 3)* *–* Revised the whole sheet to include additional repair situations.

**617.10** *(sheet 1 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 3 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 4 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 6 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 7 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 8 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 9 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**617.10** *(sheet 10 of 12)* *–* Removed delineation details and added note to refer to Standard Plans 903.03 for delineation details.

**620.00** *(sheet 1 of 5)* *–* Revised dotted white line in taper areas to be optional.

**620.00** *(sheet 4 of 5)* *–* Revised dotted white line in taper areas to be optional. Revised Fish-Hook Arrow Roundabout Approach Marking Detail.

**620.10** *(sheet 1 of 4)* *–* Revised roadway situations of temporary markings to show Type 1 raised pavement markers. Consolidated four details of the 2 thourgh 5-Lane Section down to two details. Updated detail for Type 1 TRPM. Added detail for an Optional Temporary Pavement Marking Detail for Intermediate Lifts. Added an Optional Detail A for Intermediate Lift. Revised notes for contractor replacement of temporary pavement markings.

**731.10** *(sheet 5 of 8)* *–*Changed nomenclature for “Welded Wire Fabric” to “Steel Welded Wire Reinforcement” in SECTION O-O detail.

**903.01** *(sheet 1 of 2)* *–* Removed figure to determine which arrow to use. Traffic and Highway Safety will provide design.

**903.01** *(sheet 2 of 2)* *–* Added standard MoDOT and MUTCD arrow details.

**903.02** *(sheet 1 of 7)* *–* New sheet. Provides sign fabrication details.

**903.02** *(sheet 2 of 7)* *–* New sheet. Revised existing Sheet 14 of 19 and added business shields.

**903.02** *(sheet 3 of 7)* *–* New sheet. Revised existing sheet 15 of 19. Added signs for 2 post assembly. Changed vertical backing bar spacing to sign spacing to clarify.

**903.02** *(sheet 4 of 7)* *–* New sheet. Moved information from Standard Plans 903.03 Sheet 6 of 11.

**903.02** *(sheet 5 of 7)* *–* New sheet. Replaces existing Sheet 17 of 19. Updated hole punching details to include new signs and sizes.

**903.02** *(sheet 6 of 7)* *–* New sheet. Replaces existing Sheet 18 of 19. Updated hole punching details to include new sign and sizes.

**903.02** *(sheet 7 of 7)* *–* New sheet. Replaces existing Sheet 19 of 19. Added all combinations of barricade boards.

**903.03** *(sheet 1 of 15)* *–* Added washer information for each post design to the table. Moved note for post design numbers 3, 4, 5 and 6 to Sheet 3 of 15. Changed Footing Detail to dimension from slope.

**903.03** *(sheet 2 of 15)* *–* Added washer information for each post design to the table. Added two direction breakaway for perforated fuse plate and splice plate detail.

**903.03** *(sheet 3 thru 15 of 15)* *–* Reformatted this entire section to organize sheets according to post type.

**903.03** *(sheet 6 of 15)* *–* Added mounting details for flat sheet on pipe post.

**903.03** *(sheet 7 of 15)* *–* Added barrier wall mounting detail for PSST.

**903.03** *(sheet 9 of 15)* *–* Added detail for no splice U-channel post installation.

**903.03** *(sheet 10 of 15)* *–* New Sheet for sign mounting height and offset details.

**903.03** *(sheet 11 of 15)* *–* Added details for delineator placement in an island and median strip. Added tubular marker detail.

**903.03** *(sheet 12 of 15)* *–* New Sheet. Added a sheet showing new guard cable, guardrail and traffic barrier delineation details.

**903.03** *(sheet 14 of 15)* *–* Added Type D guardrail details. Removed Type 3 Object Markers.

**903.05** *(sheet 1 of 2)* *–* Added notes to that signs shall be vertically centered. Removed the expansive grout detail. Added the rodent screen at the bottom of the post.

**903.05** *(sheet 2 of 2)* *–* Added details of the rodent screen in Detail B. Removed reference to expansive grout.

**903.06** *(sheet 1 of 2)* *–* Added notes to that signs shall be vertically centered. Removed the expansive grout detail. Added the rodent screen at the bottom of the post.

**903.06** *(sheet 2 of 2)* *–* Added details of the rodent screen in Detail B. Removed reference to expansive grout.

**903.07** *(sheet 1 of 2)* *–* Added notes to that signs shall be vertically centered. Removed the expansive grout detail. Added the rodent screen at the bottom of the post. Added details to clarify the horizontal placement and maximum cantilever distance of the sign on the cantilever arm.

**903.07** *(sheet 2 of 2)* *–* Removed the expansive grout detail. Added the rodent screen in Detail A. Added details to clarify the horizontal placement and maximum cantilever distance of the sign on the cantilever arm.

**903.08** *(sheet 1 of 2)* *–* Added notes to that signs shall be vertically centered. Removed the expansive grout detail. Added the rodent screen at the bottom of the post. Added details to clarify the horizontal placement and maximum cantilever distance of the sign on the cantilever arm.

**903.08** *(sheet 2 of 2)* *–* Added details of the rodent screen in Detail A. Removed reference to expansive grout.

**903.10** *(sheet 1 of 6)* *–* Added notes to that signs shall be vertically centered.

**903.10** *(sheet 6 of 6)* *–* Revised dimensions for H and H1.

**903.12** *(sheet 1 of 7)* *–* Added notes to that signs shall be vertically centered.

**903.12** *(sheet 3 of 7)* *–* Added notes to that signs shall be vertically centered. Added details of the rodent screen. Removed reference to expansive grout.

**903.12** *(sheet 7 of 7)* *–* Added notes to that signs shall be vertically centered. Revised dimensions for H and H1.

**903.60** *(sheet 1 of 5)* *–* Added notes to that signs shall be vertically centered.

**903.60** *(sheet 3 of 5)* *–* Added details of the rodent screen. Removed reference to expansive grout.

**903.60** *(sheet 5 of 5)* *–* Added notes to that signs shall be vertically centered. Revised dimensions for H and H1.

LET/IWS