2021 Standard Plans – Revision Summary

A-50.10-01 Embankment Widening at Bridge End with Wing Wall – Plan updated to reflect current roadside safety and structural guidance.

A-50.40-01 Embankment Widening at Bridge End with Sidewalk – Plan updated to reflect current roadside safety and structural guidance.

B-10.40-02 Catch Basin Type 2 with Flow Restrictor – Subject Matter Expert (SME) requested revision to revise Note 2, 8" minimum diameter has been revised to 12".

B-10.70-02 Catch Basin – PVC – Subject Matter Expert (SME) requested revision to revise gravel backfill depth, depth is revised from 4" Min. to 6" Min.

B-55.20-03 Pipe Zone Bedding and Backfill – Subject Matter Expert (SME) requested revision to add a detail depicting the typical gravel backfill bedding at base of a concrete structure (catch basin) to clarify the 6" depth of the backfill.

B-75.20-03 Headwalls for Culvert Pipe or Pipe Arch – Subject Matter Expert (SME) requested revision to show thickness of the pipe (culvert) to clarify the parameters of dimension "D" in the Step and Full Mitered Pipe views.

B-95.20-02 Median Barrier Drainage Installation – Subject Matter Expert (SME) requested revision to add a General Note stating the design parameters shown are typical of all drainage structure types for clarification.

C-20.10-07 Beam Guardrail Type 31 – Subject Matter Expert (SME) requested revising the Slope/Embankment table to address post lengths and embankment widths.

C-20.40-08 Beam Guardrail Type 31 Placement 12' - 6", 18' - 9", or 25' - 0" Span – Subject Matter Expert (SME) requested revising the plan to add Section B2 (fall protection and barrier placement).

C-20.41-03 Box Culvert Guardrail Steel Post ~ Type 31 – Subject Matter Expert (SME) requested revising the plan, the minimum distance to the edge of the box culvert has been revised from 2 feet to 3 feet, in Section A.

C-25.20-07 Beam Guardrail (Type 31) Transition Section Type 21 – Subject Matter Expert (SME) requested revising the plan to add typical thrie beam element detail to the plan.

C-25.22-06 Beam Guardrail (Type 31) Transition Section Type 22 – Subject Matter Expert (SME) requested revising the plan to add thrie beam expansion section detail to the plan. Add general notes 3 and 4.

C-25.26-05 Beam Guardrail (Type 31) Transition Section Type 23 – Subject Matter Expert (SME) requested revising the plan to add thrie beam expansion section detail to the plan. Add general notes 4 and 5.

C-25.30-01 Beam Guardrail (Type 31) Transition Type 24 (Posted Speed 45 MPH and Below) – Subject Matter Expert (SME) requested revising the plan to add general note 7.

C-60.15-00 Concrete Barrier Type F with Scuppers (Precast) - *(New Plan)* – MASH compliant Type F barrier with scuppers.

C-60.30-01 Type F Transition to Type 2 Barrier Plan – SME requested the plan be revised to address dimensioning error in End A view.

C-60.40-00 Type F to CIP Single-Slope Barrier Transition (Cast-In-Place) *(New Plan)* – MASH compliant transition from Type F barrier to Single-Slope barrier.

C-60.45-00 Type F to Precast Single-Slope Barrier Transition (Precast) *(New Plan)* – MASH compliant transition from Type F barrier to Single-Slope barrier.

C-60.50-00 Type F to Single-Slope Bridge Barrier Transition *(New Plan)* – MASH compliant transition from Type F barrier to Single-Slope Bridge Barrier.

C-60.60-00 Type F to Type F Bridge Barrier Transition *(New Plan)* – MASH compliant transition from Type F barrier to Type F Bridge Barrier.

C-60.80-00 Type F Terminal End Section *(New Plan)* – MASH compliant Type F Terminal end section.

C-70.10-03 Single-Slope Concrete Barrier (Precast) – Subject Matter Expert (SME) requested revising the plan to correctly show the height dimension of the lifting slot in the Elevation view.

C-70.15-00 Single-Slope Concrete Barrier with Scuppers (Precast)

C-75.20-03 Single-Slope Concrete Barrier (Precast) Vertical Back – Subject Matter Expert (SME) requested revising the plan to delete the redundant height dimension of the lifting slot in the Elevation view.

C-75.30-03 Single-Slope Concrete Barrier (Precast) Terminal – Subject Matter Expert (SME) requested revising the plan to add "(TYP.)" to the height dimension of the lifting slot in the Elevation view.

C-80.30-02 Single-Slope Concrete Barrier (Cast-In-Place) Transition – Subject Matter Expert (SME) requested revising the plan to update plan references in callout (Isometric View).

C-85.15-02 Single-Slope Concrete Barrier (42") Light Standard Foundation – Subject Matter Expert (SME) requested revising the plan to update plan references in callouts (Section B).

C-85.18-02 Single-Slope Concrete Barrier Transition for Monotube Sign Support – Subject Matter Expert (SME) requested revising the plan to reflect use of high performance barrier for luminaires/sign supports (revise Sections A & B barrier heights and the table).

D-2.46-02 Noise Barrier Wall Type 14 – Subject Matter Expert (SME) requested revision to provide guidance regarding barrier placement.

F-45.10-03 Detectable Warning Surface – SME requested revision to the plan to address the placement of DWS in concrete (permanent) and the use of adhesives (temporary/construction) to secure DWS.

G-20.10-03 Ground-Mounted Sign Placement – SME requested revision to the plan to address the placement (distance) of signage behind a traffic barrier.

H-70.10-02 Mailbox Support Type 1 – SME requested revision to the plan to address MASH compliance. All reference to wood post usage is removed. Mash compliant mounting hardware added.

H-70.20-02 Mailbox Support Type 2 – SME requested revision to the plan to address MASH compliance. All reference to wood post usage is removed. Mash compliant mounting hardware and detailing added.

J-10.16-02 Service Cabinet Type A (0 - 100 Amp Type 120 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General note 6. Revise General note 8, 250 amps is revised to read 125 amps. Revise General note 12 plan reference. Revise plan title"0-60 Amp" is revised to 0-100 Amp. Key notes 10, 14 and 19 are revised and Key note 20 is added. Type A wiring diagram revised to add Surge Protection device.

J-10.17-02 Service Cabinet Type B (0 - 100 Amp Type 120/240 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General note 6. Revise General note 8, 250 amps is revised to read 125 amps. Revise General note 12 plan reference. Revise plan title"0-60 Amp" is revised to 0-100 Amp. Key notes 12, 16, 19 and 21 are revised and Key note 22 is added. Type B wiring diagram revised to add Surge Protection device.

J-10.18-02 Service Cabinet Type C (0 - 200 Amp Type 480 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General note 6. Revise General note 12 plan reference. Revise plan title"0-60 Amp" is revised to 0-200 Amp. Key notes 12, 23, 25 and 27 are revised and Key note 28 is added. Wiring diagram revised to add Surge Protection device.

J-10.20-04 Service Cabinet Type B Modified (0 - 200 Amp Type 120/240 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General notes 4 & 5. Revise Key notes 2, 7, 9, & 16. Wiring diagram revised to add Surge Protection device.

J-10.21-02 Service Cabinet Type D (0 - 200 Amp Type 120/240 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General notes 4 & 5. Revise Key notes 9, & 16. Wiring diagram revised to add Surge Protection device.

J-10.22-02 Service Cabinet Type E (0 - 200 Amp Type 480 Volt Single Phase) – Subject Matter Expert (SME) requested revising the plan to provide a hinged panel in lieu of a removable panel and associated callouts. Add Surge Protection device to panel. Revise General notes 4 & 5. Revise Key notes 2, 9, 22 & 26. Wiring diagram revised to add Surge Protection device.

J-28.60-03 Steel Light Standard Barrier Mounted Base - Subject Matter Expert (SME) requested revising the plan to update plan reference in general note 1. Add anchor Bolt/Plate assembly detailing.

J-80.10-01 Type 334 Ramp Meter/Data Station Cabinet - Subject Matter Expert (SME) requested revising the plan to revise General notes 4 & 5. Add model # to Front View, Output File #2LX (3U) section **(#420)**.

J-80.12-00 Signal Cabinet Field Output Terminal Panels *(New Plan)* - Subject Matter Expert (SME) requests creation of this plan to provide clarity to service cabinet components.

J-81.10-02 Type 334 Ramp Meter/Data Station Cabinet - Subject Matter Expert (SME) requested revision to this plan to add plan reference to General note 3. Label Controller (4U) in Front View. revise PDA #3LX Rear View detail.

J-81.12-00 PDA #3LXW Field Output Terminal Panel *(New Plan)* - Subject Matter Expert (SME) requests creation of this plan to provide clarity to service cabinet components.

K-80.32-00 Concrete Barrier Type 2 – ***(Former Std. Plan C-8)*** SME requested creation of this "new" plan to address temporary traffic barrier use.

K-80.34-00 Concrete Barrier Type 4 and Transition Section – ***(Former Std. Plan C-8a)*** SME requested creation of this "new" plan to address temporary traffic barrier use.

M-60.20-03 Shoulder Rumble Strip, Types 2, 3, and 4, for Undivided Highways – SME requested the plan be revised to new Note 1; added to increase the depth of the rumble strips by 1/8" when applying a BST (chip seal) after installation of rumble strip. This note is added to ensure adequate depth of the rumble strip after the chip seal partially fills in the rumble strip.

M-65.10-03 Centerline Rumble Strip - SME requested the plan be revised to; (1) New Note 3 added to increase the depth of the rumble strips by 1/8" when applying a BST (chip seal) after installation of rumble strip. This note is added to ensure adequate depth of the rumble strip after the chip seal partially fills in the rumble strip, and (2) New Note 4 added that tells plan users to go to Std. Plan M-20.10 for more information on centerline longitudinal marking patterns. This request came from project support. The note will make it easier for contractors and inspectors to find and use appropriate pavement marking standard plans associated with the centerline rumble strip installation.

Standard Plan Retirements

C-8 Concrete Barrier Type 2

C-8a Concrete Barrier Type 4 and Transition Section

C-85.16-01 Single-Slope Concrete Barrier Sign Bridge Foundation

C-85.20-01 Single-Slope Concrete Barrier Cantilever Sign Structure Foundation

G-90.11-00 Overhead Sign Lighting Bracing

G-90.40-02 Overhead Sign Lighting Details