

CHAPTER 13
STANDARD DRAWING REVISION LOG

B13.1A 32” Concrete Parapet with Thrie Beam Rail – without approach slab

- July 2009 Added ½” V Groove detail 3” from edge of deck
- July 2010 Changed spacing of bottom R3 bar to 2½” in Section A-A to match details in Section C-C.
Deleted lap splice in bottom R3 bar in Partial Parapet Elevation.
- June 2013 Changed concrete to Class 40AF.
- March 2015 Revised future overlay allowance to 2”.
Added note for increasing the parapet height equal to the depth of overlay when overlay is applied during original construction.
- Oct 2016 Changed deck reinforcement to #5 bars in Section C-C.
Added ½” clearance to bottom reinforcement.
Changed title to 32” Concrete Parapet.
Added date panel details.
- Oct 2017 Revised reference to Roadway Standard Drawing to agree with new numbering system.
- Nov 2019 Added Note 16 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
Revised Notes to active voice, imperative mood.
- Jan 2022 Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”
Deleted Delineator Attachment detail and threaded insert note.
Converted sheet to ORD format.
- June 2022 Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”
Revised note 1.
Revised format of leader lines.
- Oct 2023 deleted sheet.

B13.1B 32” Concrete Parapet with Precast End Connection - without approach slab

- April 2008 Changed Section C-C in the Partial Elevation to D-D to avoid duplication in View A-A.
- July 2009 Added ½” V Groove detail 3” from edge of deck.
- July 2010 Changed spacing of R3 bars to match details for Concrete Parapet with Thrie Beam Rail.
- Feb 2012 Labeled R1 bar in Section Thru Slab.
- June 2013 Revised reference to concrete barrier roadway standard drawing to G-2-A-1 or G-2-A-2 in the Partial Parapet Plan.
Added Note for 2 loops at bottom of G-2-A-2 at connection to bridge parapet.
Increased bottom slot to 7” to accommodate 2 loops in roadway barrier connection
Changed concrete to Class 40AF.
- March 2015 Revised future overlay allowance to 2”.
Added note for increasing the parapet height equal to the depth of overlay when overlay is applied during original construction.
- Oct 2016 Changed deck reinforcement to #5 bars in Section C-C.
Changed title to 32” Concrete Parapet.
Added date panel details.
- Oct 2017 Revised reference to Roadway Standard Drawing to agree with new numbering system.
- Nov 2019 Added Note 17 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
Moved location of date panel to 4’-0” from end of parapet.
Revised Notes to active voice, imperative mood.
- Jan 2022 Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar

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	details to “Epoxy Reinforcement”.
	Deleted Delineator Attachment detail and threaded insert note.
	Converted sheet to ORD format
June 2022	Revised reference to “Concrete Barrier” to “Standard Drawing 612-18”.
	Revised note 1.
	Revised format of leader lines.
Oct 2023	deleted sheet
 B13.1C-1 32” Concrete Parapet with Thrie Beam Rail – with approach slab @ Integral Abutment sheet 1 of 2	
July 2009	Added ½” V Groove detail 3” from edge of deck
July 2010	Changed spacing of bottom R3 bar to 2½” in Section A-A to match details in Section C-C. Deleted lap splice in bottom R3 bar in Partial Parapet Elevation.
Feb 2012	Changed reference to R7 bar to R1
June 2013	Changed concrete to Class 40AF
March 2015	Revised future overlay allowance to 2”. Added note for increasing the parapet height equal to the depth of overlay when overlay is applied during original construction.
Aug 2016	Changed deck reinforcement to #5 bars in Section C-C. Added 1½” clearance to bottom reinforcement. Changed title to 32” Concrete Parapet. Added date panel details.
Oct 2017	Revised reference to Roadway Standard Drawing to agree with new numbering system.
Nov 2019	Added Note 16 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
	Revised Notes to active voice, imperative mood.
July 2021	Added joint in parapet at approach slab/deck joint for integral abutments. Added Section C-C and added “@Integral Abutment” in title block. Added view of integral abutment in Elevation. Added Detail A.
Jan 2022	Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.
	Deleted Delineator Attachment detail and threaded insert note.
	Converted sheet to ORD format
June 2022	Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”.
	Revised note 1.
	Revised format of leader lines.
Oct 2023	deleted sheet
 B13.1C-2 32” Concrete Parapet with Thrie Beam Rail – with approach slab @ Integral Abutment sheet 2 of 2	
July 2021	Added new sheet.
Jan 2022	Converted sheet to ORD format
June 2022	Revised format of leader lines.
Oct 2023	deleted sheet

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B13.1D-1 32” Concrete Parapet with Precast End Connection – with approach slab @ Integral Abutment sheet 1 of 2

- July 2009 Added ½” V Groove detail 3” from edge of deck.
Added Note 16
- June 2013 Corrected height of parapet in Partial parapet Elevation
Revised reference to concrete barrier roadway standard drawing to G-2-A-1 or G-2-A-2 in the Partial Parapet Plan.
Added Note for 2 loops at bottom of G-2-A-2 at connection to bridge parapet.
Increased bottom slot to 7” to accommodate 2 loops in roadway barrier connection
Changed concrete to Class 40AF.
- March 2015 Revised future overlay allowance to 2”.
Added note for increasing the parapet height equal to the depth of overlay when overlay is applied during original construction.
- Aug 2016 Changed deck reinforcement to #5 bars in Section C-C.
Added 1½” clearance to bottom reinforcement.
Changed title to 32” Concrete Parapet.
Added date panel details.
- Oct 2017 Revised reference to Roadway Standard Drawing to agree with new numbering system.
- Nov 2019 Added Note 18 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
Moved location of date panel to 4’-0” from end of parapet.
Revised Notes to active voice, imperative mood.
- July 2021 Added joint in parapet at approach slab/deck joint for integral abutments.
Added Section H-H and added “@Integral Abutment” in title block.
Added view of integral abutment in Elevation.
Added Detail B.
- Jan 2022 Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Deleted Delineator Attachment detail and threaded insert note.
Converted sheet to ORD format
- June 2022 Revised reference to “Concrete Barrier” to “Standard Drawing 612-18”.
Revised note 1.
Revised format of leader lines.
- Oct 2023 deleted sheet

B13.1D-2 32” Concrete Parapet with Precast End Connection – with approach slab @ Integral Abutment sheet 2 of 2

- July 2021 Added new sheet.
- Jan 2022 Converted sheet to ORD format
- June 2022 Revised format of leader lines.
- Oct 2023 deleted sheet

B13.1E 32” Concrete Parapet Light Pole Support

- April 2008 Added new sheet
- June 2013 Changed concrete to Class 40AF.
- Sept 2016 Deleted Bolt Circle table and specified bolt circle according to manufacturer’s specifications.

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Nov 2019 Added 1½” clearance to bottom reinforcement.
Changed title to 32” concrete Parapet Light Pole Support.
Changed L4 bars from #6 to #5 and added 3.5” dimension from top of parapet to the first L4 bar.

Jan 2022 Revised Notes to active voice, imperative mood.
Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Deleted Delineator Attachment detail and threaded insert note.
Converted sheet to ORD format.

June 2022 Deleted inch symbol from angle designation and from weld size designation.
Revised note 1.
Revised format of leader lines.

Oct 2023 deleted sheet

B13.1F Protective Fence for Concrete Parapet – 32” concrete parapet

Nov 2019 Added new sheet.

Sep 2020 Reformatted Notes.
Added weld symbol to Detail C.
Changed “See note 14” to “See note 15” in Detail B.
Changed “1” clear” to “2” max clear” in Section A-A.

May 2021 Renumbered drawing from B13.3G to B13.1F
Revised spacing of horizontal tubes to make the 32” concrete parapet & 42” single slope parapet details the same.
Revised dummy joint location to tube splices & uniformly spaced across bridge between 6’ & 12’.

Jan 2022 Converted sheet to ORD format.

June 2022 Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”.
Deleted inch symbol from HSS designation and angle designation.
Deleted inch symbol from weld size designation.
Revised note 4 to change ASTM A385 to A153 and added “Repair damaged coating in accordance with ASTM A780 and A123.”
Revised note 10 to construct railing normal to longitudinal grade and vertical to transverse grade.
Revised note 17 to “Furnish and install parapet as shown on plans, complete in place.”
Added 32” to title block name.
Revised format of leader lines.

Oct 2023 deleted sheet

B13.1A 42” Single Slope Concrete Parapet – without approach slab

July 2018 Added new sheet.

Nov 2019 Added Note 17 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
Revised Notes to active voice, imperative mood.
Revised Guardrail Attachment detail to include F-Shape to Single Slope connection details to match roadway standard drawing 612-25.

May 2021 Renumbered drawing from B13.1K to B13.2A
Moved start of back of parapet indent from 3’-6” to 8’-6” from begin of parapet.

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Jan 2022 Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Deleted Delineator Attachment detail and threaded insert note.
Converted sheet to ORD format.

June 2022 Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”
Revised note 1.
Revised format of leader lines.

Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Added Grade 60 Type S to reinforcement bar details
Renumbered sheet from B13.2A to B13.1A.

Dec 2024 Added limits of textured concrete to Sections B-B & C-C.
Labeled “wingwall” in Section A-A and Section B-B.
Revised Note 15 to add “Provide both sets of holes” to both notes.
Added Note 16 for textured concrete.
Changed Approximate Parapet Quantities for concrete and epoxy reinforcement from 3.48 & 39.5 to 3.45 & 35.
Changed clearance for R1 from top of deck to bottom of deck.
Changed name of “Elevation D-D” to “View D-D”.
Denoted epoxy bars with (E) designation

B13.1B 42” Single Slope Concrete Parapet – with approach slab @ Integral Abutment

July 2018 Added new sheet.

Nov 2019 Added Note 16 for Date Panel and changed Date Panel references to “Year Built” and “Bridge Key Number”.
Revised Notes to active voice, imperative mood.
Revised Guardrail Attachment detail to include F-Shape to Single Slope connection details to match roadway standard drawing 612-25.

May 2021 Renumbered drawing from B13.1L to B13.2B.
Moved start of back of parapet indent from 3’-6” to 8’-6” from begin of parapet.

July 2021 Added Section G-G for details of joint at abutment/deck joint.
Added “@Integral Abutment” to title block.

Jan 2022 Changed reinforcement in Approximate Parapet Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Deleted Delineator Attachment detail and threaded insert note.
Converted sheet to ORD format.

June 2022 Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”.
Revised note 1.
Revised format of leader lines.

Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Added Grade 60 Type S to reinforcement bar details
Renumbered sheet from B13.2B to B13.1B

Aug 2024 Added limits of textured concrete to Sections B-B & C-C.
Labeled “wingwall” in Section B-B.
Revised Note 15 to add “Provide both sets of holes” to both notes.
Added Note 16 for textured concrete.
Changed Approximate Parapet Quantities for concrete and epoxy reinforcement from 3.48 & 39.5 to 3.45 & 35.

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Changed clearance for R1 from top of deck to bottom of deck.
Changed name of “Elevation D-D” to “View D-D” and “Detail a” to “Detail 1”.
Denoted epoxy bars with (E) designation

B13.1C 42” Single Slope Concrete Parapet Light Pole Support

Nov 2019 Added new sheet.
May 2021 Renumbered drawing from B13.1M to B13.2C.
Jan 2022 Changed reinforcement in Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Converted sheet to ORD format.
June 2022 Revised format of note 1.
Deleted inch symbol from angle designation and weld size designation.
Revised format of leader lines.
Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Added Grade 60 Type S to reinforcement bar details
Revised Note 1 to require Concrete Class 40AF.
Renumbered sheet from B13.2C to B13.1C
Dec 2024 Denoted epoxy bars with (E) designation

B13.1D Protective Fence for Concrete Parapet – 42” single slope concrete parapet

Nov 2019 Added new sheet.
Sep 2020 Reformatted Notes.
Added weld symbol to Detail C.
Changed “See note 14” to “See note 15” in Detail B.
Changed “1” clear” to “2” max clear” in Section A-A.
May 2021 Renumbered drawing to from B13.3H to B13.2D.
Revised spacing of horizontal tubes to make the 32” concrete parapet & 42” single slope parapet details the same.
Revised dummy joint location to tube splices & uniformly spaced across bridge between 6’ & 12’.
Jan 2022 Converted sheet to ORD format.
June 2022 Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”.
Deleted inch symbol from HSS designation and angle designation.
Deleted inch symbol from weld size designation.
Revised note 4 to change ASTM A385 to A153 and added “Repair damaged coating in accordance with ASTM A780 and A123.
Revised note 10 to construct railing normal to longitudinal grade and vertical to transverse grade.
Revised note 17 to “Furnish and install parapet as shown on plans, complete in place.”
Revised format of leader lines.
Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Revised reference to shop drawings in note 9 to subsections 504.01F and 105.02.
Renumbered sheet from B13.2D to B13.1D
Dec 2024 Changed name of “Detail A” to “Detail 1”, “Detail b” to “Detail 2”, and “Detail C” to “Detail 3”.

B13.3A-1 Two-Tube Curb Mounted Rail Sheet 1

June 2006 Revised Note 2 to make anchor bolts conform to ASTM F-1554 Grade 105.

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	Revised Note 14 reference to conform to the 2004 Standard Specifications. Added 4" dimension between slotted holes in post and specified horizontally slotted holes in post.
July 2009	Added ½" V Groove detail 3" from edge of deck.
June 2013	Changed concrete to Class 40AF.
May 2014	Corrected reference in Note 14 to subsection 705.02 to agree with the 2012 Standard Specifications.
March 2015	Changed to a 180° hook for the #6(E) additional deck reinforcement. Revised note 2 to add ASTM A-325 for bolts. Revised note 5 for electronic shop drawings. Added note for increasing the curb height equal to the depth of the overlay when the overlay is applied during original construction.
Aug 2016	Added dummy joint details and note 16. Added 1½" clearance to bottom.
Oct 2017	Revised reference to Roadway Standard Drawing to agree with new numbering system.
Nov 2019	Revised Notes to active voice, imperative mood.
May 2021	Renumbered drawing from B13.2A to B13.3A-1
July 2021	Added joint in curb at approach slab/deck joint for integral abutments. Added Section B-B and added "Integral Abutment" in title block
Jan 2022	Changed reinforcement in Approximate Quantities and Parapet Reinforcement bar details to "Epoxy Reinforcement". Converted sheet to ORD format
June 2022	Revised rails to HSS designation. Revised reference to Thrie beam Connector to "Standard Drawing 612-10 or 612-11". Deleted inch symbol from HSS designation. Revised note 2 to provide ASTM F3125 Grade 325 bolts. Revised note 8 to galvanize in accordance with ASTM A123 and AA153. Added "Repair damaged coating in accordance with ASTM A780 and A123". Revised note 7 to construct railing normal to longitudinal grade and vertical to transverse grade. Revised note 13 to "Furnish and install parapet as shown on plans, complete in place." Changed pay limits from end of last post to end of approach slab. Changed title block name from "Two-Tube" to "2-Tube". Revised format of leader lines.
Oct 2023	deleted sheet.

B13.3A-2 Two-Tube Curb Mounted Rail Sheet 2

July 2009	Added ½" V Groove detail 3" from edge of deck.
March 2015	Changed Guardrail Connection Plate detail reference to "hex head cap screw"
Oct 2017	Revised reference to Roadway Standard Drawing to agree with new numbering system.
May 2021	Renumbered drawing from B13.2B to B13.3A-2.
Jan 2022	Converted sheet to ORD format.
June 2022	Deleted inch symbol from weld size designation and angle designation. Revised reference to Thrie beam Connector to "Standard Drawing 612-10 or 612-11". Changed title block name from "Two-Tube" to "2-Tube". Revised format of leader lines.

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June 2023 deleted sheet.

B13.2A Three-Tube Curb Mount Rail Sheet 1 with approach slab

May 2021 Added new sheet.

July 2021 Added joint in curb at approach slab/deck joint for integral abutments.
Added Section B-B and added “Integral Abutment” in title block

Jan 2022 Changed reinforcement in Approximate Quantities and Parapet Reinforcement bar details to “Epoxy Reinforcement”.

Converted sheet to ORD format.

June 2022 Revised C2 from 5 bars to 3 bars in Elevation to agree with crash test details.

Revised reference “roadway plans 612-11” to “standard drawing 612-10 or 612-11”.

Changed “7'-0” max spacing to end post (typ each post)” to “7'-0” max spacing to end post (typ @ end)”.

Corrected spelling of “silicone” to “silicon”.

Changed Plan & Elevation to “NTS”.

Revised spacing of C1 bars to 18” max.

Revised note 2 to add Grade 36.

Revised note 3 ASTM F3125 for H.S. bolts.

Revised note 5 to add Grade 60.

Revised note 7 to galvanize according to ASTM A123 and ASTM A153. Added note for repair of damaged coatings.

Revised note 13 to construct railing normal to longitudinal grade and vertical to transverse grade.

Revised note 19 to “Furnish and install 3-tube curb mount rail as shown on plans, complete in place.”

Corrected quantity of structural steel to 66 lb/ft and epoxy reinforcement to 5 lb/ft.

Corrected lap length of C2 bars to 30”.

Revised format of leader lines.

Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.

Added Grade 60 Type S to note 5

Revised reference to shop drawings in note 12 to subsections 504.01F and 105.02

Renumbered sheet from B13.3B-1 to B13.2A

Dec 2024 Raised end post to top of top rail in Partial Elevation.

Changed rebar designation from “C” to “R”.

Revised note 2 to specify ASTM A709 Grade 50 for posts, rail splices, and base plates.

Added “without end wall” to title block.

B13.2B Three-Tube Curb Mount Rail Sheet 2 with approach slab

May 2021 Added new sheet.

Jan 2022 Converted sheet to ORD format

June 2022 Added C2 bar in Post Details Elevation and revised to 3 C2 bars in Post details Section.

Changed pay limit from last post to end of approach slab.

Deleted inch symbol from weld size designation and HSS designation.

Added “Transition Connection” title.

Revised format of leader lines.

Oct 2023 Renumbered sheet from B13.3B-2 to B13.2B

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Dec 2024 Deleted ** on 7" curb height in Post Details.
Changed rebar designation from "C" to "R".
Added "without end wall" to title block.
Changed name of "Section C-C" to "Section A-A".
Changed name of "Section C-C" to "Section A-A".

B13.2C Three-Tube Curb Mount Rail Sheet 3 with or without approach slab

May 2021 Added new sheet.
Jan 2022 Converted sheet to ORD format
June 2022 Revised HS to HSS in Rail Splice Details.
Deleted inch symbol from weld size designation, angle designation, and HSS designation.
Corrected dimensions in Rail Cap details.
Exchanged location of Detail A and Alternate Post "S".
Revised format of leader lines.
Oct 2023 Renumbered sheet from B13.3B-3 to B13.2C
Dec 2024 Added ASTM A709 Grade 36 note to Anchor Plate Detail, Plate Washer C, Plate A,
Connection Angle B, and Guardrail Connection Plate.
Added "without end wall" to title block.
Changed name of "Detail A" to "Detail 1".

B13.2D Three-Tube Curb Mount Rail with End Block Sheet 1 of 3

Dec 2024 Added new sheet.

B13.2E Three-Tube Curb Mount Rail with End Block Sheet 2 of 3

Dec 2024 Added new sheet.

B13.2F Three-Tube Curb Mount Rail with End Block Sheet 3 of 3

Dec 2024 Added new sheet.

B13.3A Combination Railing Sheet 1 with approach slab

May 2021 Added new sheet
July 2021 Added Section C-C details for joint at approach slab/deck.
Jan 2022 Moved rail post from 1.5" to 1" from front of base plate in Section Thru Post and added
note to refer to Protective Fence drawing for base plate with fence post.
Converted sheet to ORD format
June 2022 Revised rails to HSS designation.
Revised reference to Thrie beam Connector to "Standard Drawing 612-10 or 612-11".
Deleted inch symbol from HSS designation and weld size designation.
Revised note 6 to galvanize in accordance with ASTM A123 and AA153. Added "Repair
damaged coating in accordance with ASTM A780 and A123".
Revised note 12 to construct railing normal to longitudinal grade and vertical to transverse
grade.
Revised note 19 to "Furnish and install parapet as shown on plans, complete in place."
Revised format of leader lines.
Oct 2023 Revised notes format for active voice, imperative mood and Writer's Style Guide.
Renumbered sheet from B13.4A-1 to B13.3A
Added ELEVATION for Parapet details.

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- Dec 2024 Moved parapet details from sheet 2 to sheet 1
Modified Notes for only Parapet Notes.
Changed “U” & “V” bar designations to R4 & R5.
Revised Note 12.
Changed name of “Detail A” to “Detail 1” and “Detail B” to “Detail 2”.
Denoted epoxy bars with (E) designation
- B13.3B Combination Railing Sheet 2 with approach slab**
- May 2021 Added new sheet
- July 2021 Renamed “Intermeduante Wall Joint” to “Wall Joint”.
Clarified note 29.
- Jan 2022 Changed reinforcement in Parapet Reinforcement bar details to “Epoxy Reinforcement”.
Changed distance from back of parapet to base plate from 1” to 2.5”.
Changed End Block Plan View dimension from 10½” to 12” to match total width of 14”.
Changed rebar sketch U bars A dimension from 8½”, 7½”, and 6½” to 10”, 9” and 8”.
Changed rebar sketch V bars A dimension from 8½” to 10”.
Added T-2” to B dimension of U bars in sketch.
Converted sheet to ORD format
- June 2022 Corrected 3’-6” rail height to top of sidewalk in Typical Section on Bridge.
Extended limits of textured surface to full height in Typical Section at End Block.
Deleted “ Construct parapet plumb...” from note 24.
Revised reference to Thrie beam Connector to “Standard Drawing 612-10 or 612-11”.
Revised format of leader lines.
- Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Modified Notes for only Railing Notes.
Moved railing details from sheet 1 to sheet 2.
Revised reference to shop drawings in note 11 to subsections 504.01F and 105.02
Renumbered sheet from B13.4A-2 to B13.3B
- B13.3C Protective fence for Combination Railing Sheet 1**
- May 2021 Added new sheet
- Jan 2022 Changed size of fence anchor bolts from 1” to 0.875” in Section A-A and added 4.25”
distance from back face of parapet to fence anchor bolt.
Converted sheet to ORD format
- June 2022 Deleted inch symbol from HSS designation and weld size designation.
Revised format of leader lines.
- Oct 2023 Renumbered sheet from B13.4C-1 to B13.3C
- Dec 2024 Changed name of “Detail a” to “Detail 1”, “Detail B” to “Detail 2”, and “Detail C” to
“Detail 3”.
- B13.3D Protective fence for Combination Railing Sheet 2**
- May 2021 Added new sheet
- Jan 2022 Added base plate details for fence post at combination rail.
Added dimensions to Base Plate Detail at Fence Post to locate base plate on parapet.
Converted sheet to ORD format
- June 2022 Revised HS to HSS and deleted inch symbol.
Added “Repair damaged coating in accordance with ASTM A780 and A123” to note 5.

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- Revised note 11 to construct railing normal to longitudinal grade and vertical to transverse grade.
Revised note 18 to “Furnish and install parapet as shown on plans, complete in place.”
Revised format of leader lines.
- Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Revised reference to shop drawings in note 10 to subsections 504.01F and 105.02
Renumbered sheet from B13.4C-2 to B13.3D
- B13.4A Standard Pedestrian/Bicycle Railing**
- June 2006 Combined the Bicycle and Pedestrian rail drawings using a 3’-6” height to conform to the approved 2006 Ballot Item.
Deleted epoxy reinforcement from the Drilled Concrete Post Base.
Widened the curb to 10” to provide cover for reinforcement around the anchor bolts.
Modified the title block to include “Bicycle”.
- July 2009 Added ½” V Groove detail 3” from edge of deck.
Changed tube wall thickness to 3/16”.
- March 2011 Added “Deck Expansion Joint Typical at Abutment & Pier” to Partial Elevation.
Corrected maximum clear opening at expansion joint to 6” to comply with Article 13.8.1.
Added Upper & Lower Splice Connection Elevation to set the distance from the edge of the 2”x2” vertical post to the end of horizontal tube at 1.5” to avoid conflict with the slotted hole tube splice details.
- May 2021 Renumbered drawing from B13.4B to B13.5A-1
- Jan 2022 Converted sheet to ORD format
- June 2022 Deleted inch symbol from HSS designation.
Added ASTM F1554 Grade 36 for anchor bolts.
Revised format of leader lines.
- Oct 2023 Corrected spelling of “Bicycle” in title block
Renumbered sheet from B13.5A-1 to B13.4A
- Dec 2024 Corrected leader line to the anchor bolts in the Drilled Concrete Post Base Detail.
Added Date panel to Section A-A.
Added Date Panel Elevation.
Labeled R3 & R4 bars in Section B-B.
Changed name of Details A-E to Details 1-5 and added Detail 6.
Revised Lower Splice Connection Elevation to avoid splice insert from hitting post.

B13.4B Pedestrian/Bicycle Railing Details

- June 2006 Revised Note 6 to require epoxy reinforcement only in the curb.
Added Note 7 specifying Concrete Class 40A.
Added Notes 16, 17, & 19 for tube ends, vent holes, and alternate splice details.
Increased the top width of bar R2.
Modified the title block to include “Bicycle”.
- July 2009 Renumbered the Notes
Added additional requirements for powder coating
Changed tube wall thickness to 3/16”.
Modified splice tube detail.
Modified note 21 to read, “Each rail section...”
- March 2011 Deleted details F & G for the rub rail that has been deleted.

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March 2015	Modified splice tube details. Revised note 17 for electronic shop drawings Revised color reference to RAL 9005 (jet black). Increased powder coating thickness to 3 mils minimum.
Nov 2019	Revised Notes to active voice, imperative mood. Deleted Note 16 and renumbered notes.
Sep 2020	Revised wording of notes 4, 17, & 23. Deleted "All" from notes 8 & 10.
May 2021	Renumbered drawing from B13.4C to B13.5A-2
Jan 2022	Changed reinforcement in Reinforcement bar details to "Epoxy Reinforcement". Converted sheet to ORD format
June 2022	Added Grade 60 epoxy reinforcement to note 6. Revised note 8 to galvanize in accordance with ASTM A123 and A153. Added "Repair damaged coating in accordance with ASTM A780 and A123" to note 10. Revised note 17 to construct railing normal to longitudinal grade and vertical to transverse grade. Revised note 22 to "Furnish and install parapet as shown on plans, complete in place." Revised HS to HSS and deleted inch symbol. Deleted inch symbol from weld size designation. Revised format of leader lines.
Oct 2023	Revised notes format for active voice, imperative mood and Writer's Style Guide. Added Grade 60 Type S to note 6 Revised reference to shop drawings in note 16 to subsections 504.01F and 105.02 Renumbered sheet from B13.5A-2 to B13.4B.
Dec 2024	Revised the wording of Notes 11 & 12. Deleted Note 23 allowing alternate aluminum rail. Changed name of Details A-E to Details 1-5 and added Detail 6. Changed rebar designations to "R".

B13.6A 32" Concrete Median Barrier

June 2013	Changed concrete to Class 40AF.
Oct 2017	Revised reference to Roadway Standard Drawing to agree with new numbering system.
Nov 2019	Revised Notes to active voice, imperative mood.
May 2021	Renumbered drawing from B13.5 to B13.6A
Jan 2022	Changed reinforcement in Approximate Median Quantities and Median Reinforcement bar details to "Epoxy Reinforcement". Converted sheet to ORD format
June 2022	Added note 12 to "Furnish and install median barrier as shown on plans, complete in place." Revised reference to "Concrete Barrier" to "Standard Drawing 612-18". Revised note 1. Revised format of leader lines.
Oct 2023	Deleted sheet.

B13.5 42" Single Slope Concrete Medians Barrier

May 2021	Added new drawing
July 2021	Changed size of joint in Section B-b from ¼" to ½".

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Jan 2022 Changed reinforcement in Approximate Median Quantities and Median Reinforcement bar details to “Epoxy Reinforcement”.
Converted sheet to ORD format

June 2022 Revised note 13 to “Furnish and install median barrier as shown on plans, complete in place.”
Revised reference to “Concrete Barrier” to “Standard Drawing 612-25”.
Revised format of leader lines.

Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Renumbered sheet from B13.6B to B13.5

Dec 2024 Changed “M” rebar designations to “R”.
Deleted recess into deck for median barrier to agree with Crash Test.
Added “Grade 60 Type S” to note 8.
Changed name of “Detail A” to “Detail 1”.
Denoted epoxy bars with (E) designation

B13.6A W-Beam Railing, Through Bolt Anchorage

June 2006 Added a note in the title block for using roadway standard drawing G-1-L on retrofit projects.

March 2011 Changed height of rail to meet 29” top of rail height.

Dec 2011 Revised note 3 for anchor bolts to F1554 Grade 36 and nuts to ASTM A563.
Corrected weld symbol in section B-B.

Sept 2012 Revised note 5 for washers to comply with ASTM F436, Type 1.
Changed Post Height Table note from “down station” to “ahead station”.

May 2014 Added note 11 for polyethylene blockouts.
Corrected reference in note 1 to AASHTO M270, Grade 36

March 2015 Added plate thickness to Section B-B and Section C-C.
Added maximum 10:1 maximum slope in Section A-A.
Corrected bid item in note 9 to 612-005A.
Changed sheet title to “W-Beam Railing, Through Bolt Anchorage.

Oct 2017 Revised reference to Roadway Standard Drawing to agree with new numbering system.
Changed height to cg of rail from 1”-11” to 2’-1” to agree with new MASH standards in the Roadway Standard Drawings.

Nov 2019 Revised Notes to active voice, imperative mood.

May 2021 Renumbered drawing from B13.6A to B13.7A

Jan 2022 Converted sheet to ORD format

June 2022 Revised format of leader lines.

Oct 2023 Revised notes format for active voice, imperative mood and Writer’s Style Guide.
Corrected reference to 612-1 note 7 to 612-1 note 10 in note 11.
Renumbered sheet from B13.7A to B13.6A

Dec 2024 Changed name of “Detail a” to “Detail 1”.

B13.6B W-Beam Railing, Adhesive Anchorage

March 2015 Added new sheet.

Oct 2017 Revised reference to Roadway Standard Drawing to agree with new numbering system.
Changed height to cg of rail from 1”-11” to 2’-1” to agree with new MASH standards in the Roadway Standard Drawings.

Nov 2019 Revised Notes to active voice, imperative mood.

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May 2021 Renumbered drawing from B13.6B to B13.7B
Jan 2022 Converted sheet to ORD format
June 2022 Revised format of leader lines.
Oct 2023 Revised notes format for active voice, imperative mood and Writer's Style Guide.
Corrected reference to 612-1 note 7 to 612-1 note 10 in note 10.
Renumbered sheet from B13.7B to B13.6B
Dec 2024 Corrected title block to reference "for rail retrofit projects".
Changed name of "Detail A" to "Detail 1".

B13.7 Date Panel

Oct 2016 Added new sheet.
May 2018 Revised Date Panel Location notes to use 4 digit year built and 5 digit bridge inspection number.
Nov 2019 Changed "Bridge Inspection Number" to "Bridge Key Number".
Added "General Notes".
Added traffic face and back face notes to Date Panel Location.
Jan 2022 Renumbered General Notes to put note for Protective Fence at end to make note easier to delete and not renumber the notes.
Converted sheet to ORD format
June 2022 Added approach slab to "Date Panel Location" and moved date panel to end of approach slab.
Revised format of leader lines.
Oct 2023 Corrected orientation of radius arrows.
Renumbered sheet from B13.8 to B13.7
Dec 2024 Added Date Panel Location and General Notes for a curb/edge beam.
Added "Bridge" designation for Date Panel layout and General Notes.

B13.8 Bridge Name Signage

Nov 2019 Added new sheet.
Sep 2020 Revised note 2 to "Align the left edge of the sign 2'-0" to the right of the lane/shoulder stripe".
Combined note 5 & 8 and renumbered notes.
Added Section A-A.
Revised PLAN view to show sign 2' to the right of the lane/shoulder stripe.
Moved Type 1 & 2 Applications from Note to Designer to A13.2.
Added "Refer to Article A13.2 for Detailing Instructions" to Note to Designer.
Jan 2022 Added Type 3 Mounting Bracket & Base Plate detail.
Added min/max distance from sign text area to edge of sign.
Added min/max mounting post spacing and min/typical distance from mounting post to edge of sign in PLAN.
Converted sheet to ORD format.
June 2022 Revised format of leader lines.
Oct 2023 Revised notes format for active voice, imperative mood and Writer's Style Guide.
Renumbered sheet from B13.9 to B13.8
Dec 2024 Changed name of "Detail A" to "Detail 1" and deleted reference to "Section A-A".

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B13.9 Temporary Concrete Barrier Anchorage

Oct 2023 Added new sheet.

Dec 2024 Corrected scale factor in Details A, B, & C from 3" = 1'-0" to 1½" = 1'-0".

Revised notes 1, 2, & 3.

Changed name of "Detail A", "Detail B", and "Detail C" to "Detail 1", "Detail 2", and "Detail 3".