

CURB REINFORCING STEEL NOTES:

(Between WWR Sections)

ESTIMATED CONCRETE CURB

QUANTITIES (SCHEME 2)

CY/LF

LB/LF

UNIT

ITFM

Reinforcing Steel

Concrete

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The reinforcement for the curb on a retaining wall shall be the same as detailed for an 8" deck.
- 3. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 4. Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 1'-9".
- 5. At the option of the Contractor Welded Wire Reinforcement (WWR) may be used in lieu of all Bars 4P and 4S. Welded Wire Reinforcement shall conform to ASTM A497.

QUANTITY

0.0124

4.01

Pre-cured Silicone Sealant (4" wide) over. ement

DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

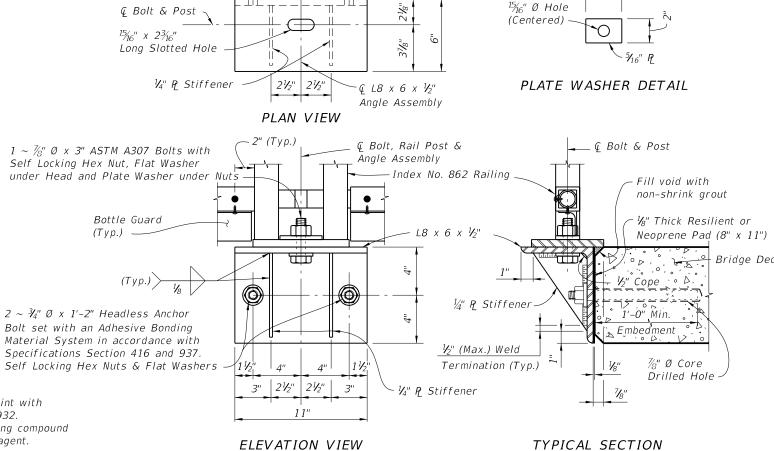
INTERMEDIATE JOINT SEAL NOTE:

At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.

Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.

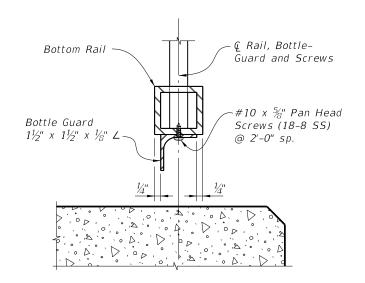
= SCHEME 2 - CONCRETE CURB DETAILS =

REINFORCEMENT (WWR)



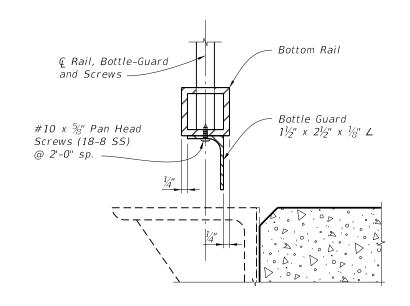
15∕16" Ø Holes

for Anchor Bolts



TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

= SCHEME 1 - BOTTLE GUARD DETAIL ==



CROSS REFERENCE:

See Sheet 3 for Bridge Railing Notes.

TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

SCHEME 3 - SIDE-MOUNTED SUPPORT BRACKET DETAILS =

= SCHEME 3 - BOTTLE GUARD DETAIL =====

LAST REVISION

FDOT DESIGN STANDARDS
2013

BRIDGE PEDESTRIAN/BICYCLE RAILING (ALUMINUM)

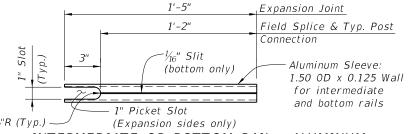
INDEX S NO. **861**

SHEET NO. **2**

DESCRIPTION:

ROUND RAILS - TOP RAIL OR HANDRAIL

- * $\frac{1}{4}$ " Ø x $\frac{3}{4}$ " Pan Head Aluminum (Allov 7075-T73) or Stainless Steel (Type 316 or 18-8 Alloy) Set Screws along outside face of railing. Set screws must be set flush against the rail surface. A 3/4" Ø plug weld may be substituted for the two set screws at expansion joints.
- ** Embedded length may be 4" for plug welded connection.
- *** Increase handrail sleeve embedment to 8" for Expansion Joint openings greater than 2".
- **** Expansion Joint opening shall match the clear opening in the deck joint but not greater than 3".



INTERMEDIATE OR BOTTOM RAIL - ALUMINUM SLEEVE DETAIL (Bottom Side Shown)

====== DETAIL "B" EXPANSION JOINT (FIELD SPLICE SIMILAR) =========

BRIDGE RAILING NOTES:

- APPLICABILITY NOTE: Railing is limited to use on bridges with an expansion joint thermal movements not exceeding 5". Scheme 3 is limited to bridge retrofit applications where additional sidewalk width is required.
- RAILING DETAILS: For Railing fabrication and installation details and notes see Index No. 862, except that railing shall be fabricated and installed normal to the Profile Grade longitudinally and vertical transversely, unless otherwise shown in the Contract Plans.
- BOTTLE-GUARD (Schemes 1 & 3): L-Shape shall be in accordance with ASTM B209, Alloy 6063-T5
- CONCRETE CURB (Scheme 2): Construct concrete curb vertical with the top surface finished level transversely. Concrete class shall be the same as the bridge deck.
- SIDE-MOUNTED SUPPORT BRACKET (Scheme 3): L-Shape and Stiffener Plate shall be in accordance with ASTM B209, Alloy 6061-T6. Welding shall be in accordance with the American Society of Structural Welding Code (Aluminum) ANSI/AWS D1.2 (current edition). Filler metal shall be either ER4043, ER5183, ER5356 or ER5556. Nondestructive testing of welds is not required.
- PAYMENT: Railing shall be paid per linear foot (Item No. 515-2-abb) for the aluminum railing and include the cost of support brackets (Scheme 3). Concrete and reinforcing steel quantities for the concrete curb (Scheme 2), will be included in the bridge deck plan quantity pay items. Payment will be plan quantity measured as the length along the center line of the top rail, and includes rails, posts, pickets, rail splice assembly, base plates, bottle-quards, anchor bolts, nuts, washers, resilient or neoprene pads and all incidental materials and labor required to complete installation of the railing.

LAST REVISION 01/01/11

DESCRIPTION:



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