Index 550-011 Bridge Fencing on a Parapet (Curved Top)

ORIGINATION

Date: March 22, 2023 **Name:** Josh Turley **Phone:** (850) 414-4475

Email: Joshua. Turley@dot.state.fl.us

COMMENTARY

Index 550-013's title was changed. This required a change for this index because the two indexes were very similar. We changed the title to highlight the differences between the standards.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **BLUE** = Standard Plans Response **GREEN** = Change Made to Index

Name: Keith Krieger Date: 7/11/2023

COMMENT: Please reconsider the RENAMING of these Indexes.....to avoid confusion.

Index 550-010 (which is not being revised) shows vertical bridge fencing on Traffic Railing Barrier and on Concrete Parapet.

The revisions propose to RENAME:

Index 550-011 to "Bridge Fencing on Parapet" Index 550-103 to "Bridge Fencing on Barrier"

Such that it is confusing how these Indexes are different from 550-010...or are meant to supplement 550-010.

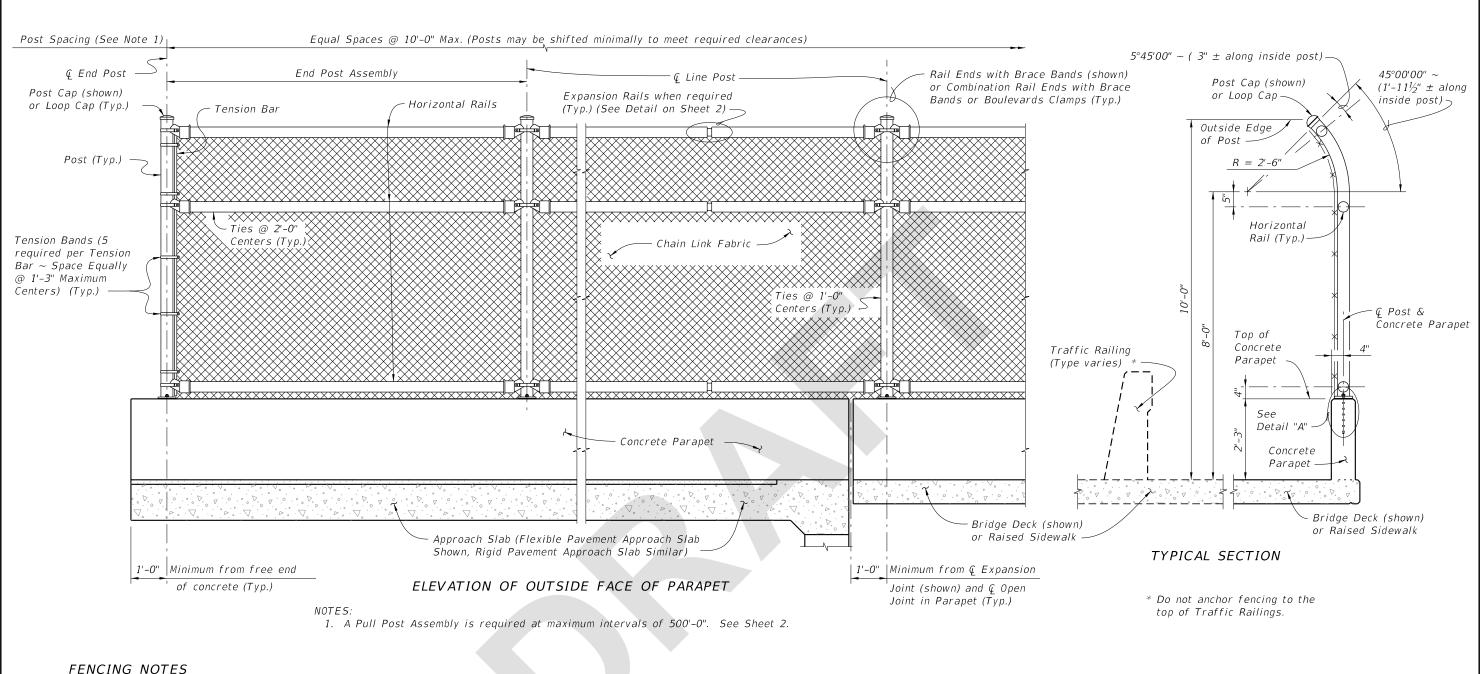
In addition, FDM Section 222.4.1 and Figures 222.4.2 thru 222.4.8 include similar details and "sidewalk" terminology.....that should be coordinated with these proposed revisions to the Standard Plans. Please let me know if any questions.

I will make DeWayne Carver aware of the possible need to revise FDM Chapter 222.

RESPONSE: Agreed. Will rename 550-011 to "Bridge Fencing on a Parapet (Curved Top)" and 550-013 "Bridge Fencing on a Barrier (Curved Top)" in order to distinguish them from the Vertical version. The term "pathway" was used as a more general term to encompass both sidewalks and shared use paths that may be used with this Standard. We did not want to limit to either a sidewalk or shared use path.

CHANGE MADE TO INDEX: Yes; 550-011 was renamed

Response Date: 7/11/2023



FENCE APPLICATION:

This bridge fence can only be used on sidewalk installations separated from traffic by a traffic railing. FENCE INSTALLATION:

Install posts plumb (within a tolerance of $\pm 1\frac{1}{2}$ "). Use shim plates as required to achieve plumb. The required quantity and thickness of shim plates will be determined in the field. Install chain link fence in accordance with ASTM F567 as applicable.

CONCRETE PARAPET DETAILS:

See Index 521-820 - Pedestrian/Bicycle Bullet Railing for Concrete Parapet details. Provide fencing in lieu of aluminum bullet railing as shown on Index 521-820.

LIMITS OF FENCING:

≥ DESCRIPTION:

Limits of fencing are from begin of approach slab at Begin Bridge to end of approach slab at End Bridge, unless otherwise shown in the plans.

Payment will be made under Fencing, Type R. Payment includes posts, horizontal and expansion rails, brace bands, rail ends, combination rail ends, boulevard clamps, chain link fabric, ties, tension bars and bands, post and loop caps, base plates, anchor rods, bolts, nuts, washers, shim plates, neoprene pads, miscellaneous fence fittings and hardware and all incidental materials and labor required to complete installation of the fence.

CROSS REFERENCE:

For Table of Fence Components and Pull Post Assembly Detail see Sheet 2. For Table of Post Attachment Components and Detail "A" see Sheet 3.

LAST REVISION 11/01/23

FDOT

FY 2024-25 STANDARD PLANS

BRIDGE FENCING ON PARAPET (CURVED TOP)

INDEX SHEET 550-011

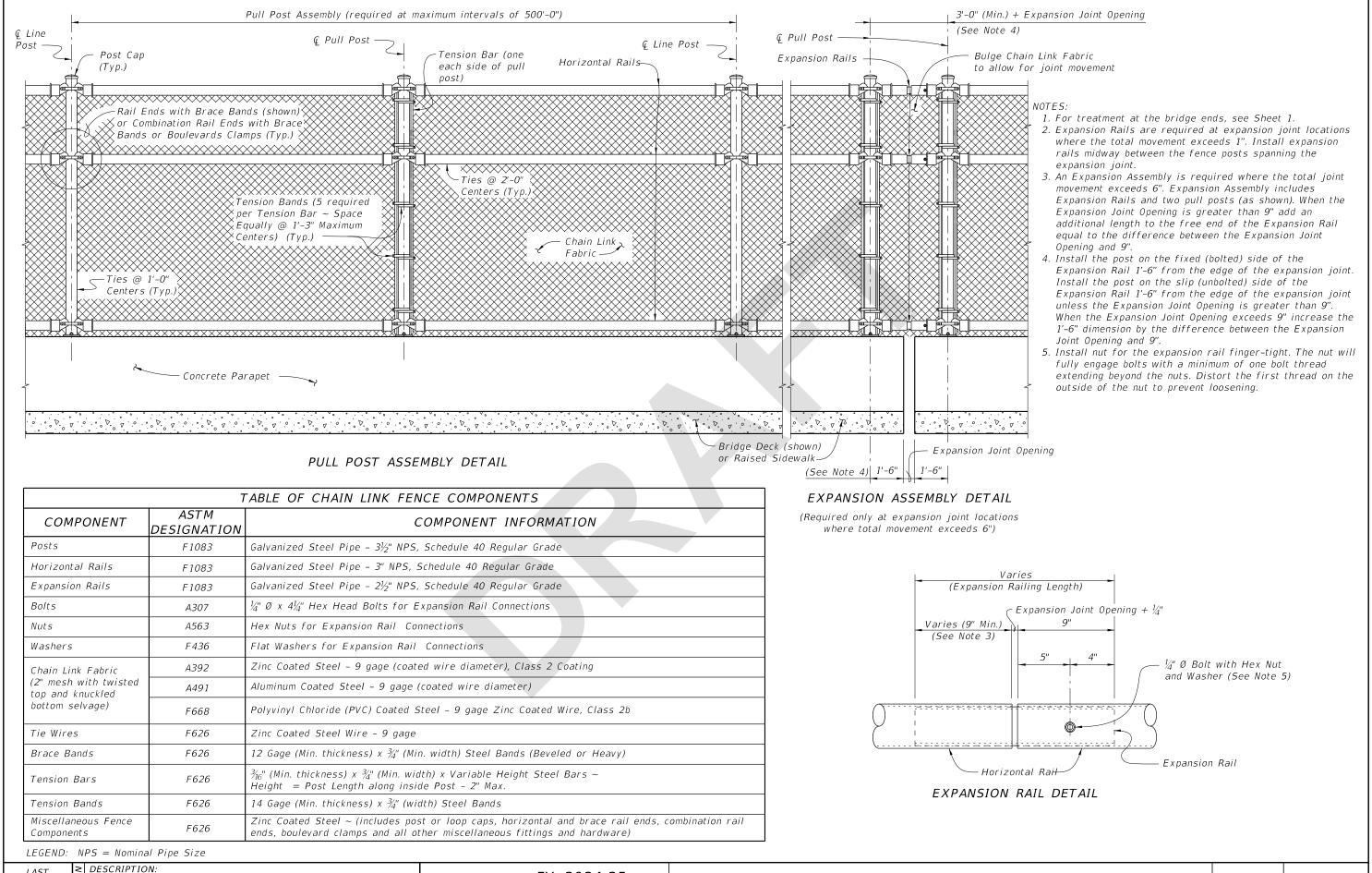


TABLE OF POST ATTACHMENT COMPONENTS		
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
Base Plates	A36 or A709 Grade 36	3/4" Steel PL
Shim Plates	A36 or A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063-T5	Plate thicknesses as required, Holes in shim plates will be $rac{3}{4}$ " Ø
Adhesive Anchor Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods $\sim \%$ " Ø x 14% "
C-I-P Anchor Rods	F1554 Grade 36	Hex Head Anchor Rods $\sim \frac{7}{8}$ " Ø x $14\frac{1}{2}$ "
Nuts	A563	Hex Nuts for Base Plate Connections
Washers	F 436	Flat Washers for Base Plate Connections
Bearing Pads (Plain)	-	In accordance with Specification Section 932 for ancillary structures

POST ATTACHMENT NOTES

ANCHOR RODS, NUTS AND WASHERS:

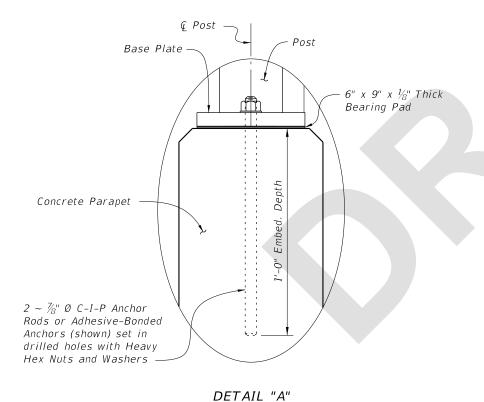
After the nuts have been tightened, distort the Anchor Rod threads to prevent removal of the nuts. Coat distorted threads and exposed trimmed ends of anchors with a galvanizing compound in accordance with Specification Section 562. COATINGS:

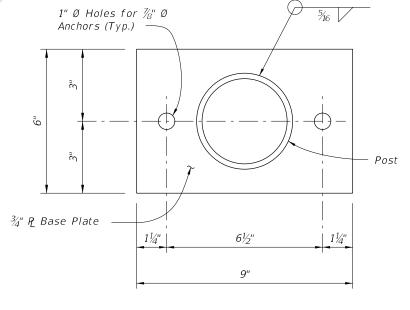
Hot-dip galvanize all Nuts, Washers, Bolts, C-I-P Anchor Rods, Adhesive Anchors and Fence Framework (Posts, Internal Sleeves, Shim Plates and Base Plates) in accordance with Specification Section 962. Hot-dip galvanize Fence Framework after fabrication.

ADHESIVE-BONDED ANCHORS AND DOWELS:

Adhesive Bonding Material Systems for Anchors and Dowels will comply with Specification Section 937 and be installed in accordance with Specification Section 416. Cutting of reinforcing steel is permitted for drilled hole installation.

All welding will be in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). Weld metal will be E60XX or E70XX. Nondestructive testing of welds is not required.





BASE PLATE DETAIL

CROSS REFERENCE:
For location of Detail "A" see Sheet 1

LAST REVISION 11/01/23

DESCRIPTION:

FDOT

FY 2024-25 STANDARD PLANS For location of Detail "A" see Sheet 1.