Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	550-013
Date:	4/23/2024	Sheet Number(s):	2
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	BRIDGE FENCING ON BARRIER (CURVED TOP)

Summary of the changes:

Sheet 2: Added shim info to the TABLE OF POST ATTACHMENT COMPONENTS

Commentary/Background:

We needed to add some limiting parameters to edges shims so that they get installed correctly.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

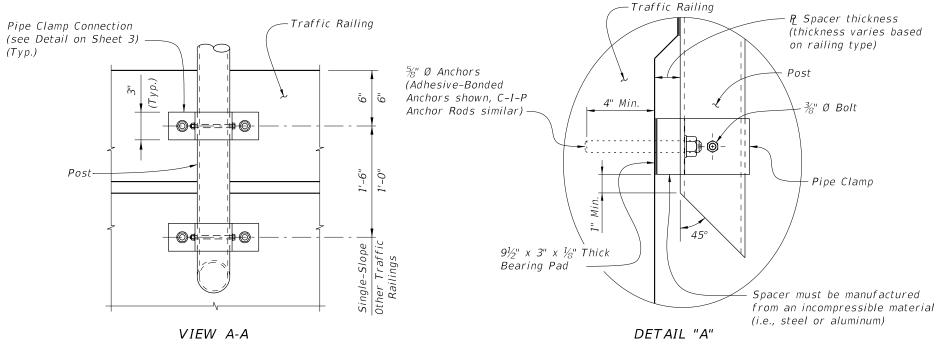
Implementation

["FY-Standard Plans (Next Release)"]

TABLE OF CHAIN LINK FENCE COMPONENTS			
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION	
Posts	F1083	Galvanized Steel Pipe – 3½" NPS, Schedule 40 Regular Grade	
Chain Link Fabric (2" mesh with twisted top and knuckled bottom selvage)	A392	Zinc Coated Steel - 9 gage (coated wire diameter), Class 2 Coating	
	A491	Aluminum Coated Steel - 9 gage (coated wire diameter)	
	F668	Polyvinyl Chloride (PVC) Coated Steel - 9 gage Class 2b	
Tie Wires	F626	Zinc Coated Steel Wire - 9 gage	
Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)	
Tension Bars	F626	$rac{3}{16}$ " (Min. thickness) x $rac{3}{4}$ " (Min. width) x 6'-10" (Min. height) Steel Bars	
Tension Bands	F626	14 Gage (Min. thickness) x $rac{3}{4}$ " (Min. width) Steel Bands	
Miscellaneous Fence Components	F626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)	
Tension Wire	A824 & A817	Type II (Zinc Coated Steel Wire) - 7 gage, Class 4 Coating	
		Type I (Aluminum Coated Steel Wire) - 7 gage	
Hog Rings	F626	Zinc Coated Steel Wire - 12 gage	
Brace Rails	F1083	Galvanized Steel Pipe - 1½" NPS, Schedule 40 Regular Grade	

TABLE OF POST ATTACHMENT COMPONENTS			
	COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
Pipe	Clamps A36 or 1/4" Steel PL		¼" Steel ዊ
Base	Plates	A36 or A709 Grade 36	¾" Steel ¶
Shim	Plates	A36 or A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063	Plate thicknesses as required; Holes in shim plates will be $\frac{3}{4}$ " Ø
Space	ers	-	Plate thickness varies based on traffic railing type (See Detail "A")
Pipe Clamp Connection	Adhesive Anchor Rods	F1554 Grade 36	Fully threaded Headless Anchor Rods $\sim \frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)
Pipe (Conne	C-I-P Anchor Rods	F1554 Grade 36	Hex Head Anchor Rods $\sim \frac{7}{8}$ " Ø x 6" (no spacer) or $\frac{7}{8}$ " Ø x (6" + spacer thickness)
Bolts		A307	3/8" Ø x 43/4" Hex Head Bolts for Pipe Clamp Connections to Posts
Nuts		A563	Hex Nuts for Pipe Clamp Connections
Wash	ers	F436	Flat Washers for Pipe Clamp Connections
	ing Pads n Neoprene)	-	In accordance with Specification Section 932 for Ancillary Structures

ADDED: For edge shims match the edge length of the base plate with a min. width of 3/4". Apply adhesive bonding material bed of 1-1/2" (Min.) wide



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.

Hot-dip galvanize all Nuts, Washers, Bolts, C-I-P Anchor Rods, Adhesive Anchors and Fence Framework (Posts, Internal Sleeves, Shim Plates, Base Plates, Pipe Clamps and Spacers) 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.

WELDING:

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.

For location of View A-A and Detail "A" see Sheet 1.

REVISION

DESCRIPTION:

FDOT

FY 2024-25 STANDARD PLANS

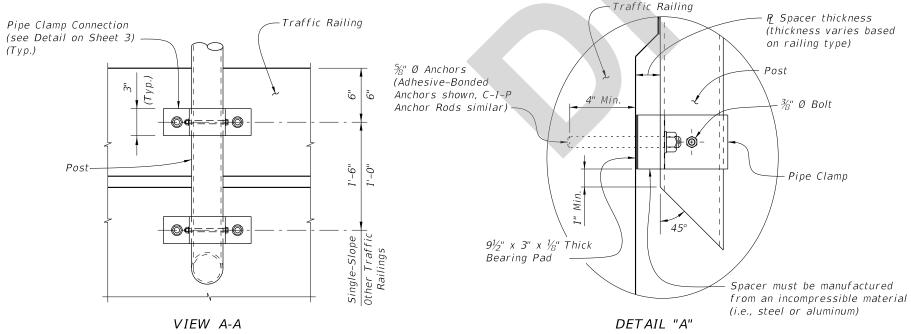
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TABLE OF CHAIN LINK FENCE COMPONENTS				
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION		
Posts	F1083	Galvanized Steel Pipe - $3\frac{1}{2}$ " NPS, Schedule 40 Regular Grade		
Chain Link Fabric (2" mesh with twisted top and knuckled bottom selvage)	A392	Zinc Coated Steel - 9 gage (coated wire diameter), Class 2 Coating		
	A491	Aluminum Coated Steel - 9 gage (coated wire diameter)		
	F668	Polyvinyl Chloride (PVC) Coated Steel - 9 gage Class 2b		
Tie Wires	F626	Zinc Coated Steel Wire - 9 gage		
Brace Bands	F626	12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)		
Tension Bars	F626	$\frac{3}{16}$ " (Min. thickness) x $\frac{3}{4}$ " (Min. width) x 6'-10" (Min. height) Steel Bars		
Tension Bands	F626	14 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands		
Miscellaneous Fence Components	F626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)		
Tension Wire	A824 & A817	Type II (Zinc Coated Steel Wire) - 7 gage, Class 4 Coating		
		Type I (Aluminum Coated Steel Wire) - 7 gage		
Hog Rings	F626	Zinc Coated Steel Wire - 12 gage		
Brace Rails	F 1083	Galvanized Steel Pipe - 1½" NPS, Schedule 40 Regular Grade		

TABLE OF POST ATTACHMENT COMPONENTS				
ASTM DESIGNATION	COMPONENT INFORMATION			
A36 or A709 Grade 36	¼" Steel ዊ			
A36 or A709 Grade 36	¾" Steel P			
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 $\frac{3}{4}$ " Ø. For edge shims match the edge length of the base plate with a min. width of 3/4". Apply adhesive bonding material bed of 1–1/2" (Min.) wide			
-	Plate thickness varies based on traffic railing type (See Detail "A")			
F1554 Grade 36	Fully threaded Headless Anchor Rods $\sim \frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)			
F1554 Grade 36	Hex Head Anchor Rods $\sim \frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x (6" + spacer thickness)			
A307	$\frac{3}{8}$ " Ø x 4 $\frac{3}{4}$ " Hex Head Bolts for Pipe Clamp Connections to Posts			
A563	Hex Nuts for Pipe Clamp Connections			
F436	Flat Washers for Pipe Clamp Connections			
-	In accordance with Specification Section 932 for Ancillary Structures			
	ASTM DESIGNATION A36 or A709 Grade 36 A36 or A709 Grade 36 A36 or A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063-T5 - F1554 Grade 36 A307 A563			



POST ATTACHMENT NOTES

ANCHOR RODS, NUTS AND WASHERS:

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

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WELDING:

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.

CROSS REFERENCE:

For location of View A-A and Detail "A" see Sheet 1.

LAST REVISION 11/01/24

≥ DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

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