

- 1. A Pull Post Assembly is required at maximum intervals of 500'-0". See Sheet Nos. 3 of 4.
- 2. Brace rails are only required for vertical fence installations on Traffic Railing.
- 3. Provide horizontal rails for vertical fence installations on Concrete Parapets in lieu of tension wire. Locate horizontal rails as shown in the Typical Section for Concrete Parapets at right.

* Fencing shall not anchor to the top of Traffic Railings.

FENCING NOTES

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 F 567 as applicable. TRAFFIC RAILING DETAILS:

See Superstructure Sheets for Traffic Railing Barrier details.

CONCRETE PARAPET DETAILS:

DESCRIPTION:

See Index No. 820 - Pedestrian/Bicycle Railing for Concrete Parapet details. Provide fencing in lieu of aluminum bullet railing as shown on Index No. 820.

LIMITS OF FENCING:

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:

Payment will be made under Fencing, Type R. Payment includes posts, horizontal and expansion rails, brace rails and bands, rail ends, combination rail ends, boulevard clamps, chain link fabric, tension wire, ties, hog rings, tension bars and bands, post and loop caps, pipe clamps, base plates, anchor rods, bolts, nuts, washers, shim plates, spacers, 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, Table of Post Attachment Components, View A-A and Detail "A" see Sheet No. 2.

For Pull Post Assembly Detail for Traffic Railing Barriers see Sheet No. 3.

For Pull Post Assembly Detail for Concrete Parapets and Detail "B" see Sheet No. 4.

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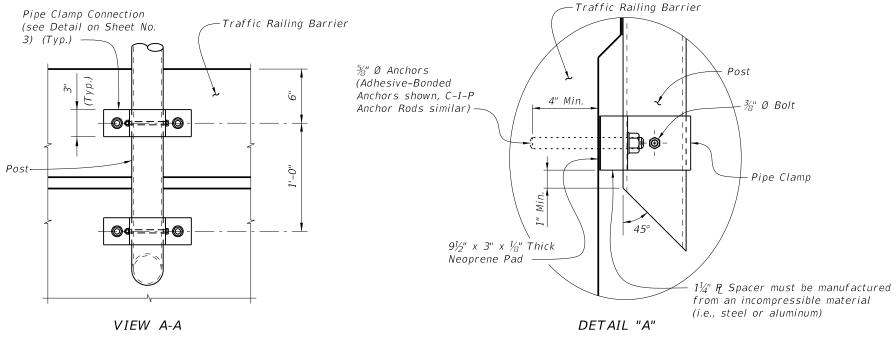
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BRIDGE FENCING (VERTICAL)

TABLE OF CHAIN LINK FENCE COMPONENTS						
COMPONENT		ASTM DESIGNATION	COMPONENT INFORMATION			
Traffic Railing Barriers and Concrete Parapets	Posts	F 1083	Galvanized Steel Pipe - 3" NPS, Schedule 40 (3.500" Outside Diameter, 0.216" Wall Thickness)			
	Chain Link Fabric (2" mesh with twisted top and knuckled bottom selvage)	A 392	Zinc Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating			
		A 491	Aluminum Coated Steel - No. 9 gage (coated wire diameter)			
		F 668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc Coated Wire (metallic-coated core wire diameter) ~ Specify the color of the polymer coating in the General Notes			
	Tie Wires	F 626	Zinc Coated Steel Wire - No. 9 gage			
	Brace Bands	F 626	No. 12 Gage (Min. thickness) x $\frac{3}{4}$ " (Min. width) Steel Bands (Beveled or Heavy)			
	Tension Bars	F 626	$^{3}\!\!_{16}$ " (Min. thickness) x $^{3}\!\!_{4}$ " (Min. width) x 5'-10" (Min. height) Steel Bars			
	Tension Bands	F 626	No. 14 Gage (Min. thickness) x $rac{3}{4}$ " (Min. width) Steel Bands			
	Miscellaneous Fence Components	F 626	Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)			
	Horizontal Rails	F 1083	Galvanized Steel Pipe – $2\frac{1}{2}$ " NPS, Schedule 40 (2.875" Outside Diameter, 0.203" Wall Thickness)			
e ts	Expansion Rails	F 1083	Galvanized Steel Pipe - 2" NPS, Schedule 40 (2.375" Outside Diameter, 0.154" Wall Thickness)			
Concrete Parapets	Bolts	A 307	$^{1}\!\!\!/_{\!\!4}$ " Ø x $^{4}\!\!\!/_{\!\!4}$ " Hex Head Bolts for Expansion Rail Connections			
	Nuts	A 563	Hex Nuts for Expansion Rail Connections			
	Washers	F 436	Flat Washers for Expansion Rail Connections			
Traffic Railing Barriers	Tension Wire	A 824 & A 817	Type II (Zinc Coated Steel Wire) - No. 7 gage, Class 4 Coating			
			Type I (Aluminum Coated Steel Wire) - No. 7 gage			
	Hog Rings	F 626	Zinc Coated Steel Wire - No. 12 gage			
	Brace Rails	F 1083	Galvanized Steel Pipe – $1\frac{1}{4}$ " NPS, Schedule 40 (1.660" Outside Diameter, 0.140" Wall Thickness)			

TABLE OF POST ATTACHMENT COMPONENTS					
COMPONENT		ASTM DESIGNATION	COMPONENT INFORMATION		
Pipe	Clamps	A 36 or A 709 Grade 36	½" Steel P		
Base	Plates	A 36 or A 709 Grade 36	¾" Steel P_		
Shim	Plates	A 36 or A 709 Grade 36 or B 209 Alloy 6061-T6 or B 221 Alloy 6063-T5	Plate thicknesses as required; Holes in shim plates will be $rac{3}{4}$ " Ø		
Space	ers	-	1¼" ዋ for all materials		
Pipe Clamp Connection	Adhesive Anchor Rods	F 1554 Grade 36	Fully threaded Headless Anchor Rods $\sim \frac{5}{6}$ " Ø x 6" (no spacer) or $\frac{5}{6}$ " Ø x $7\frac{1}{4}$ " (with spacer)		
Pipe (Conne	C-I-P Anchor Rods	F 1554 Grade 36	Hex Head Anchor Rods $\sim \frac{5}{8}$ " Ø x 6" (no spacer) or $\frac{5}{8}$ " Ø x 7 $\frac{1}{4}$ " (with spacer)		
Base Plate Connection	Adhesive Anchor Rods	F 1554 Grade 36	Fully threaded Headless Anchor Rods \sim $7_8^{\prime\prime}$ Ø x $147_2^{\prime\prime}$		
Base Conne	C-I-P Anchor Rods	F 1554 Grade 36	Hex Head Anchor Rods $\sim \frac{7}{8}$ " Ø x $14\frac{1}{2}$ "		
Bolts		A 307	%" Ø x 4¾" Hex Head Bolts for Pipe Clamp Connections to Posts		
Nuts		A 563	Hex Nuts for Pipe Clamp and Base Plate Connections		
Washers		F 436	Flat Washers for Pipe Clamp and Base Plate Connections		
Neopi	rene Pads	-	In accordance with Specification Section 932		



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 975. COATINGS:

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.

CROSS REFERENCE:

For location of View A-A and Detail "A" see Sheet No. 1.

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≥ DESCRIPTION:

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