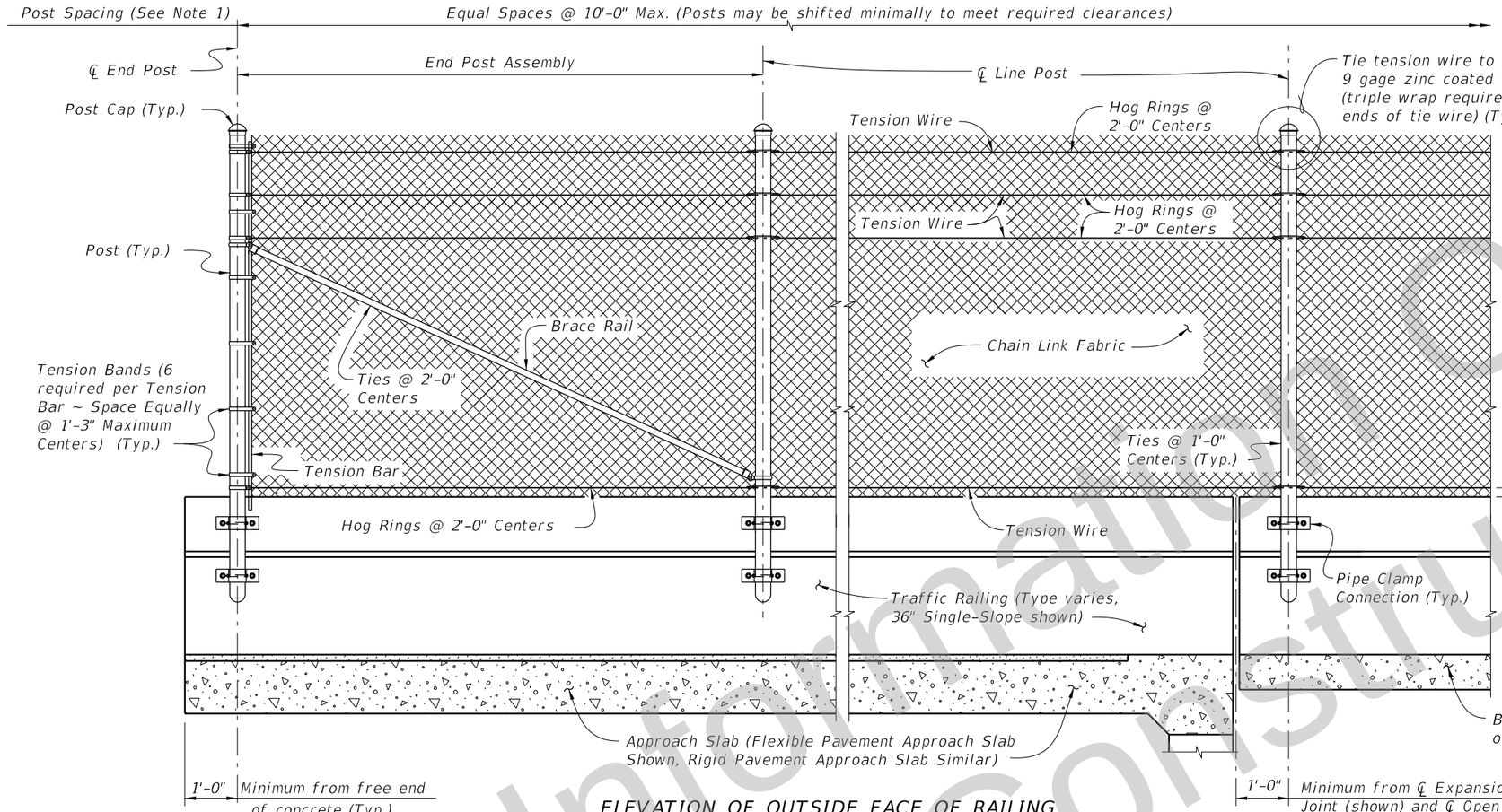


ELEVATION OF OUTSIDE FACE OF RAILING

TYPICAL SECTION ON TRAFFIC RAILING

NOTES:
1. A Pull Post Assembly is required at maximum intervals of 500'-0". See Sheet 3.

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

## FENCING NOTES

FENCE INSTALLATION:
Install posts plumb (within a tolerance of ± 1½"). 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.

TRAFFIC RAILING DETAILS:
See Superstructure Sheets for Traffic Railing details.

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 all 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 2.
For Pull Post Assembly Detail for Traffic Railing see Sheet 3.

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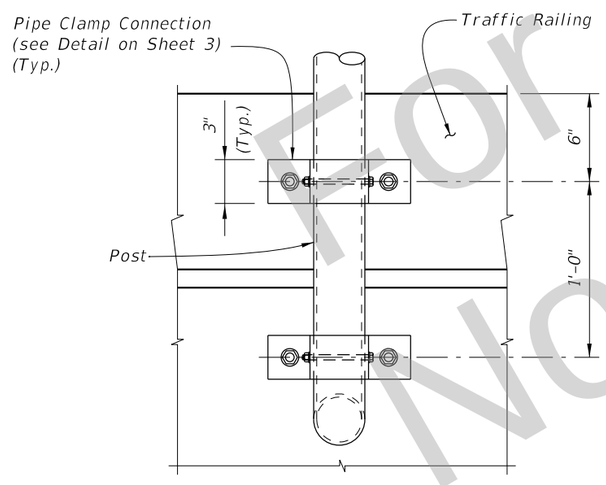
| LAST REVISION | REVISION | DESCRIPTION: | | | | |
|---|---|---|---|---|---|---|
| 06/01/17 | | | DEVELOPMENTAL DESIGN STANDARDS | BRIDGE FENCING (OVER RAILROAD) | INDEX NO. D813 | SHEET NO. 1 of 3 |

## TABLE OF CHAIN LINK FENCE COMPONENTS

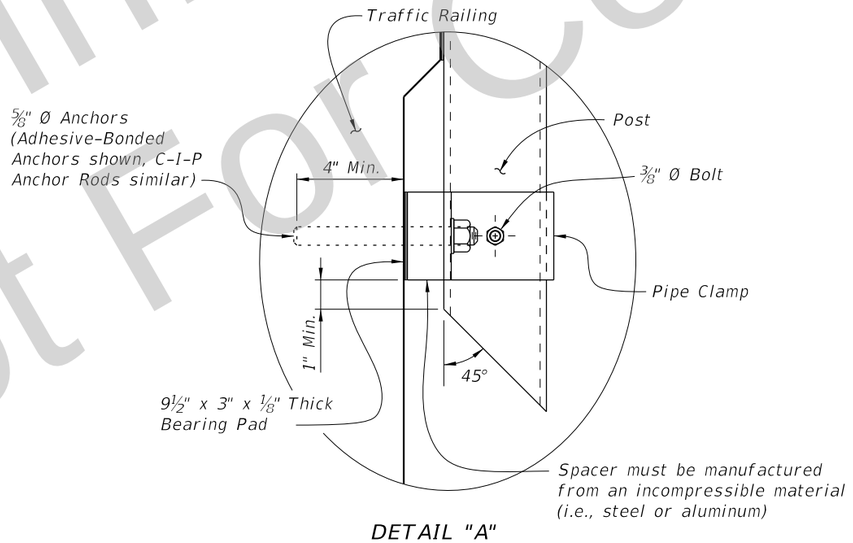
| COMPONENT | ASTM DESIGNATION | COMPONENT INFORMATION |
|---|---|---|
| Posts | F1083 | Galvanized Steel Pipe – 3½" NPS, Schedule 40 Regular Grade |
| Chain Link Fabric (2" mesh with twisted top and knuckled bottom selvage) | A392 | Zinc Coated Steel – 9 gage (coated wire diameter), Class 2 Coating |
| | 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 ¾" (Min. width) Steel Bands (Beveled or Heavy) |
| Tension Bars | F626 | 3/16" (Min. thickness) x ¾" (Min. width) x 6'–10" (Min. height) Steel Bars |
| Tension Bands | F626 | 14 Gage (Min. thickness) x ¾" (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 – 1¼" NPS, Schedule 40 Regular Grade |

## TABLE OF POST ATTACHMENT COMPONENTS

| COMPONENT | | ASTM DESIGNATION | COMPONENT INFORMATION |
|---|---|---|---|
| Pipe Clamps | | A36 or A709 Grade 36 | ¼" Steel PL |
| Base Plates | | A36 or A709 Grade 36 | ¾" 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 ¾" Ø |
| Spacers | | – | 1½" PL for Single-Slope Traffic Railing<br>1¼" PL for F-Shape Traffic Railing |
| Pipe Clamp Connection | Adhesive Anchor Rods | F1554 Grade 36 | Fully threaded Headless Anchor Rods ~ ⅝" Ø x 6" (no spacer) or ⅝" Ø x 7½" (with spacer) |
| | C-I-P Anchor Rods | F1554 Grade 36 | Hex Head Anchor Rods ~ ⅝" Ø x 6" (no spacer) or ⅝" Ø x 7½" (with spacer) |
| Bolts | | A307 | ⅜" Ø x 4¾" Hex Head Bolts for Pipe Clamp Connections to Posts |
| Nuts | | A563 | Hex Nuts for Pipe Clamp Connections |
| Washers | | F436 | Flat Washers for Pipe Clamp Connections |
| Bearing Pads (Plain) | | – | In accordance with Specification Section 932 for Ancillary Structures |




VIEW A-A




DETAIL "A"

### 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, 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 1.

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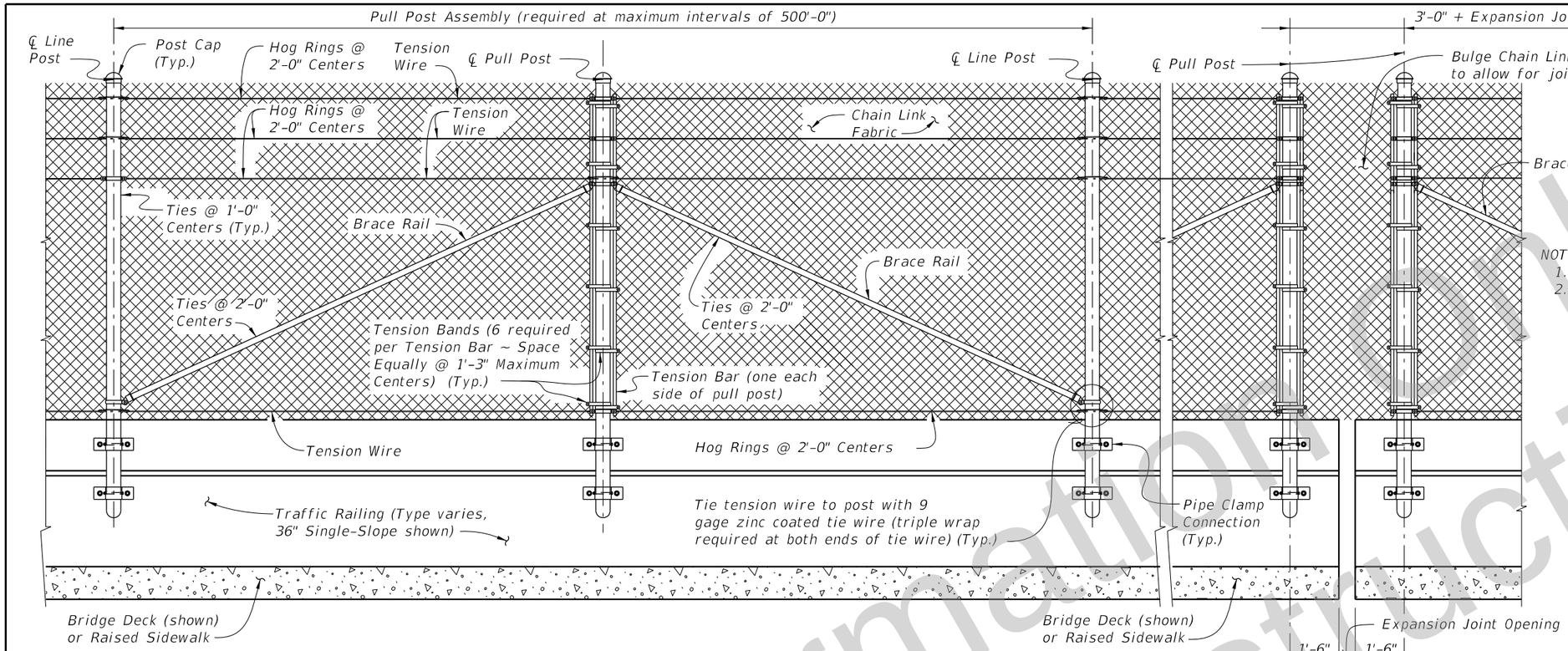
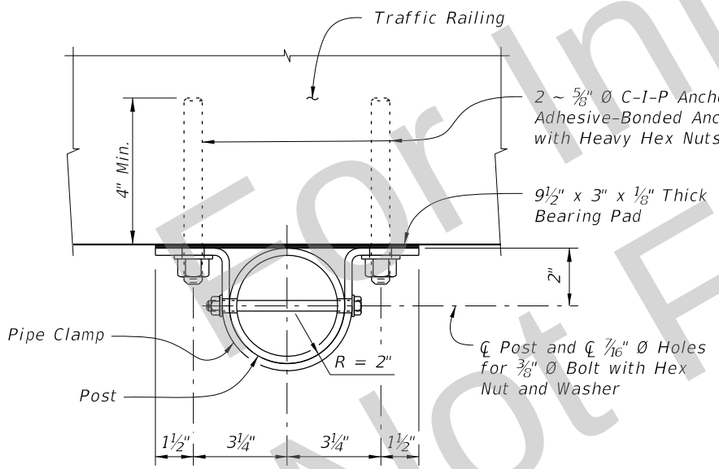



NOTES:
1. For treatment at bridge ends, see Sheet 1.
2. Expansion Joint Opening is the width at the time of fence installation.

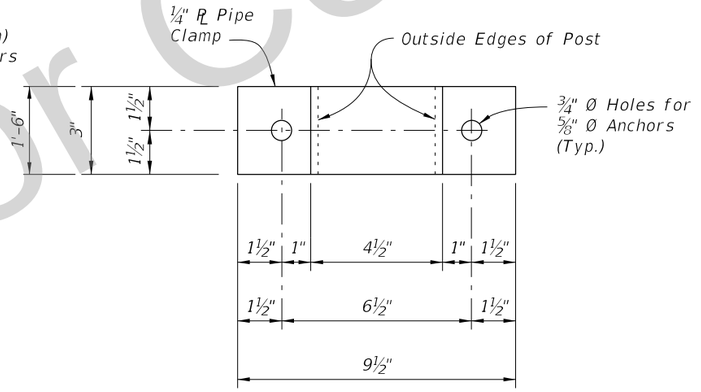
PULL POST ASSEMBLY DETAIL FOR TRAFFIC RAILING

EXPANSION ASSEMBLY DETAIL

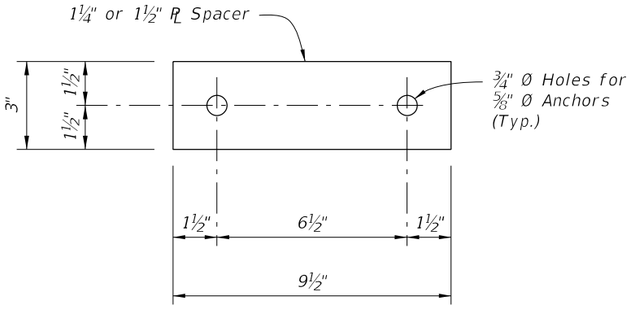
(Required only at expansion joint locations where total movement exceeds 6")




PIPE CLAMP CONNECTION DETAIL
(Connection without spacer shown, Connection with spacer similar)




PIPE CLAMP DETAIL




SPACER DETAIL

(Must be manufactured from an incompressible material (i.e., steel or aluminum))

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| LAST REVISION | REVISION | DESCRIPTION: | FDOT DEVELOPMENTAL DESIGN STANDARDS | BRIDGE FENCING (OVER RAILROAD) | INDEX NO. | SHEET NO. |
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| 06/01/17 | | | | | D813 | 3 of 3 |