

## FENCING NOTES

FENCE INSTALLATION:
Install posts plumb (within a tolerance of $\pm 1 \frac{1}{2} 2^{\prime \prime}$ ). 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.
See Superstructure Sheets
CONCRETE PARAPET DETALLS:
See Index 521-820-Pedestrian/Bicycle Railing for Concrete Parapet details. Provide fencing in lieu of aluminum bullet railing as shown on Index
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. shown in the plans.
PAYMENT.
PAYMENT:
rayment will be made under Fencing, Type R. Payment includes posts, horizontal and expansion rails, brace rails and bands, Pand 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, bearing pads, miscellaneous and loop caps, pipe clamps, base plates, anchor rods, bolts, nuts, washers, shim plates, spacers, bearing pads, mis
fence fittings and hardware and all incidental materials and labor required to complete installation of the fence.

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 Railings see Sheet 3.
For Pull Post Assembly Detail for Concrete Parapets and Detail "B" see Sheet 4.


| table of chain link fence components |  |  |  |
| :---: | :---: | :---: | :---: |
|  | COMPONENT | $\begin{gathered} \hline \text { ASTM } \\ \text { DESIGNATION } \\ \hline \end{gathered}$ | COMPONENT INFORMATION |
|  | Posts | F1083 | Galvanized Steel Pipe - 3" 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) × 3/4" (Min. width) Steel Bands (Beveled or Heavy) |
|  | Tension Bars | F626 | $3 / 16{ }^{\prime \prime}$ (Min. thickness) $\times 3 / 44^{\prime \prime}$ (Min. width) $\times 5^{\prime}-10^{\prime \prime}$ (Min. height) Steel Bars |
|  | Tension Bands | F626 | 14 Gage (Min. thickness) $\times 3 / 4 / 4$ (Min. width) Steel Bands |
|  | Miscellaneous Fence Components | F626 | Zinc Coated Steel ~ (includes post or loop caps, horizontal and brace rail ends, <br> combination rail ends, boulevard clamps and all other miscellaneous fittings \& hardware) |
|  | Horizontal Rails | F1083 | Galvanized Steel Pipe - $2^{1 / 2}{ }^{\prime \prime}$ NPS, Schedule 40 Regular Grade |
|  | Expansion Rails | F1083 | Galvanized Steel Pipe - 2" NPS, Schedule 40 Regular Grade |
|  | Bolts | A307 | 1/4" $\varnothing \times 41 / 4$ Hex Head Bolts for Expansion Rail Connections |
|  | Nuts | A563 | Hex Nuts for Expansion Rail Connections |
|  | Washers | F436 | Flat Washers for Expansion Rail Connections |
| \% | 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 - 11/4"NPS, Schedule 40 Regular Grade |


| TABLE OF POST ATTACHMENT COMPONENTS |  |  |  |
| :---: | :---: | :---: | :---: |
|  | COMPONENT | $\begin{gathered} \hline \text { ASTM } \\ \text { DESIGNATION } \\ \hline \end{gathered}$ | COMPONENT INFORMATION |
| Pipe Clamps |  | A36 or <br> A709 Grade 36 | 1/4"Steel R |
| Base Plates |  | A36 or $\text { A709 Grade } 36$ | 3/4" Steel R |
| Shim Plates |  | A36 or <br> A709 Grade 36 or B209 Alloy 6061-T6 or B221 Alloy 6063-T5 | Plate thicknesses as required; Holes in shim plates will be $3 / 41$ " $\varnothing$ |
| Spacers |  | - | Plate thickness varies based on traffic railing type (See Detail "A") |
|  | Adhesive Anchor Rods | F1554 Grade 36 | Fully threaded Headless Anchor Rods ~ 5/8" $\varnothing \times 6^{\prime \prime}$ (no spacer) or $5 / /^{\prime \prime} \varnothing \times\left(6^{\prime \prime}+\right.$ spacer thickness) |
|  | C-I-P Anchor Rods | F1554 Grade 36 | Hex Head Anchor Rods ~ 5/8" $\varnothing \times 6^{\prime \prime}$ (no spacer) or 5/8" $\varnothing \times\left(6^{\prime \prime}+\right.$ spacer thickness $)$ |
|  | Adhesive Anchor Rods | F1554 Grade 36 | Fully threaded Headless Anchor Rods ~ $7 / 8^{\prime \prime} \varnothing \times 141 /{ }^{1 \prime \prime}$ |
|  | C-I-P Anchor Rods | F1554 Grade 36 | Hex Head Anchor Rods ~ 7/8" $\varnothing \times 141 / 2^{\prime \prime}$ |
| Bolts |  | A307 | $3 /{ }^{\prime \prime} \varnothing \times 4^{3} / 4^{\prime \prime}$ Hex Head Bolts for Pipe Clamp Connections to Posts |
| Nuts |  | A563 | Hex Nuts for Pipe Clamp and Base Plate Connections |
| Washers |  | F436 | Flat Washers for Pipe Clamp and Base Plate Connections |
| Bearing Pads (Plain Neoprene) |  | - | In accordance with Specification Section 932 for Ancillary Structures |



VIEW A-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 g
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 fabricatio
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 I.
STANDARD PLANS




DETAIL "B"

bASE PLATE DETAIL

Bridge Deck (shown
or Raised Sidewalk
(See Note 4) $1^{1}-6$

EXPANSION ASSEMBLY DETAIL
Required only at expansion joint locations where total movement exceeds $6^{\prime \prime}$ )


EXPANSION RAIL DETAIL

| $\begin{gathered} \text { LAST } \\ \text { REVISION } \\ 11 / 01 / 17 \end{gathered}$ |  | $\begin{gathered} \text { FY 2021-22 } \\ \text { FDOTS } \\ \text { STANDARD PLANS } \end{gathered}$ | $\mathbb{B}$ IIDGE $F E \mathbb{N} C I \mathbb{N G}(V E R T I C A L)$ | $\begin{gathered} \text { INDEX } \\ 550-010 \end{gathered}$ | $\begin{aligned} & \text { SHEET } \\ & 4 \text { of } 4 \end{aligned}$ |
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