

3D VIEW OF RAILING WITH TYPE 1 - PICKET INFILL PANEL (42" Height shown, 48" Height Similar)

TABLE 1 - RAILING MEMBERS			
MEMBER	DESIGNATION	OUT SIDE DIMENSION	WALL THICKNESS
Post "A"	HSS 2½ x 1½ x1%	2.50" x 1.50"	0.125"
Post "B"	HSS 2½ x 1½ x¾	2.50" x 1.50"	0.188"
Top Rail	2½" NPS (Sch. 10)	2.875"	0.120"
	HSS 3.000 x 0.120	3.000"	0.120"
End Hoops	2½" NPS (Sch. 10)	2.875"	0.120"
	HSS 3.000 x 0.120	3.000"	0.120"
Top Rail Joint/Splice Sleeves	HSS 2.500 x 0.125	2.500"	0.125"
Intermediate & Bottom Rail	HSS 2 x 2 x $^{3}\!$	2.00" x 2.00"	0.188" ⁽¹⁾
Int. & Bottom Rail Post Connection Sleeve	HSS 1.500 x 0.125	1.500"	0.125" ⁽¹⁾
Usedasil Isist/Calies Classes	1" NPS (Sch. 40)	1.315"	0.133"
Handrail Joint/Splice Sleeves	HSS 1.500 x 0.125	1.500"	0.125"
Handrails	1½" NPS (Sch. 40)	1.900"	0.145"
Handrail Support Bar	¾" Ø Round Bar	0.750"	N/A
Pickets (Type 1 Infill Panel)	¾" Ø Round Bar	0.750"	N/A
Infill Panel Members (Types 2 - 5)	Varies (See Details)	Varies	Varies

TABLE 1 NOTES:

(1) 0.125" wall thickness permitted for rails with post spacings less than 5'-8", except that Post Connection Sleeve must be $1\frac{1}{4}$ " NPS (Sch. 40).

Notes:

- and ASTM A36 for bars.

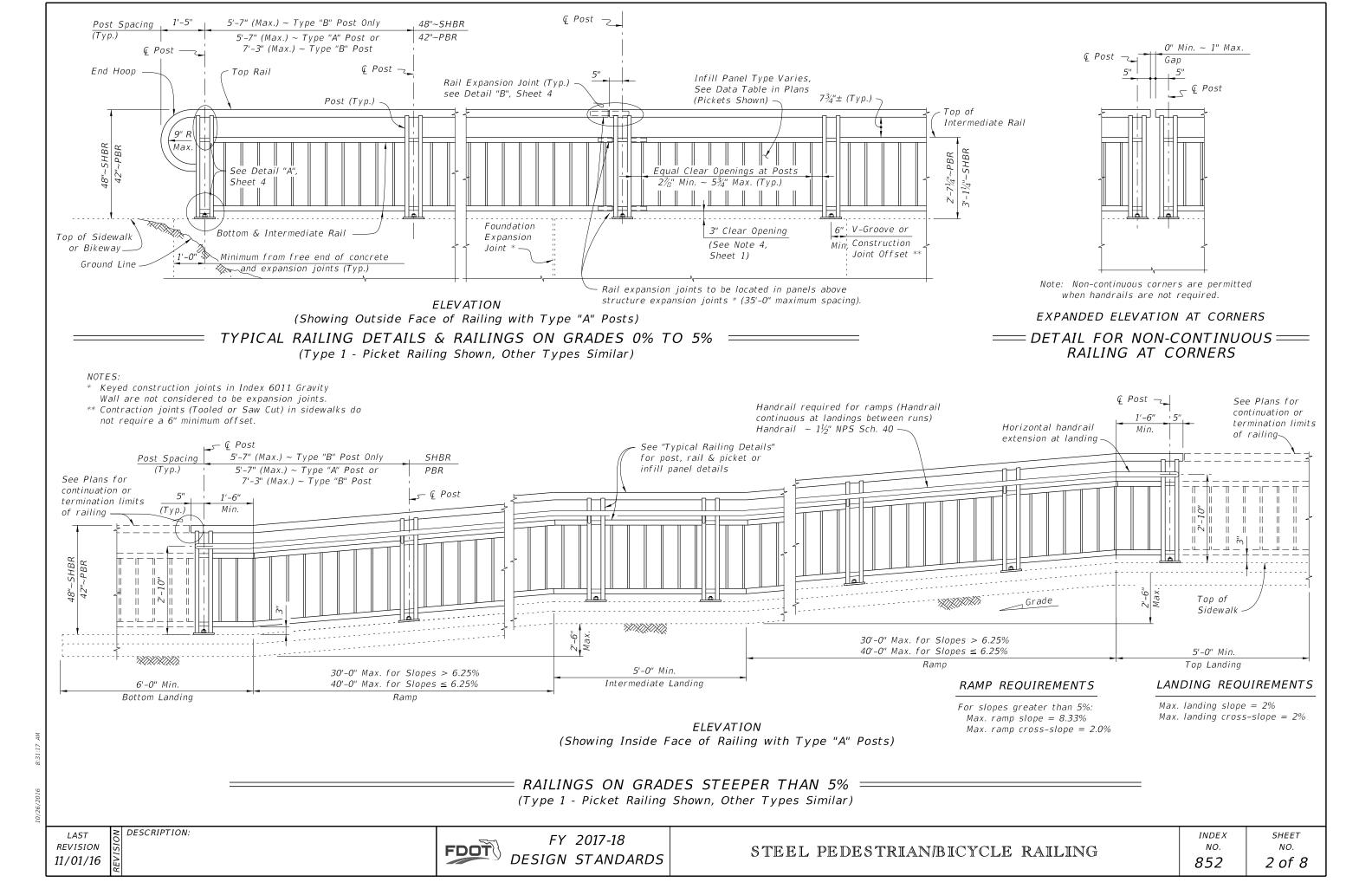
- - c. Hex Nuts: ASTM A563

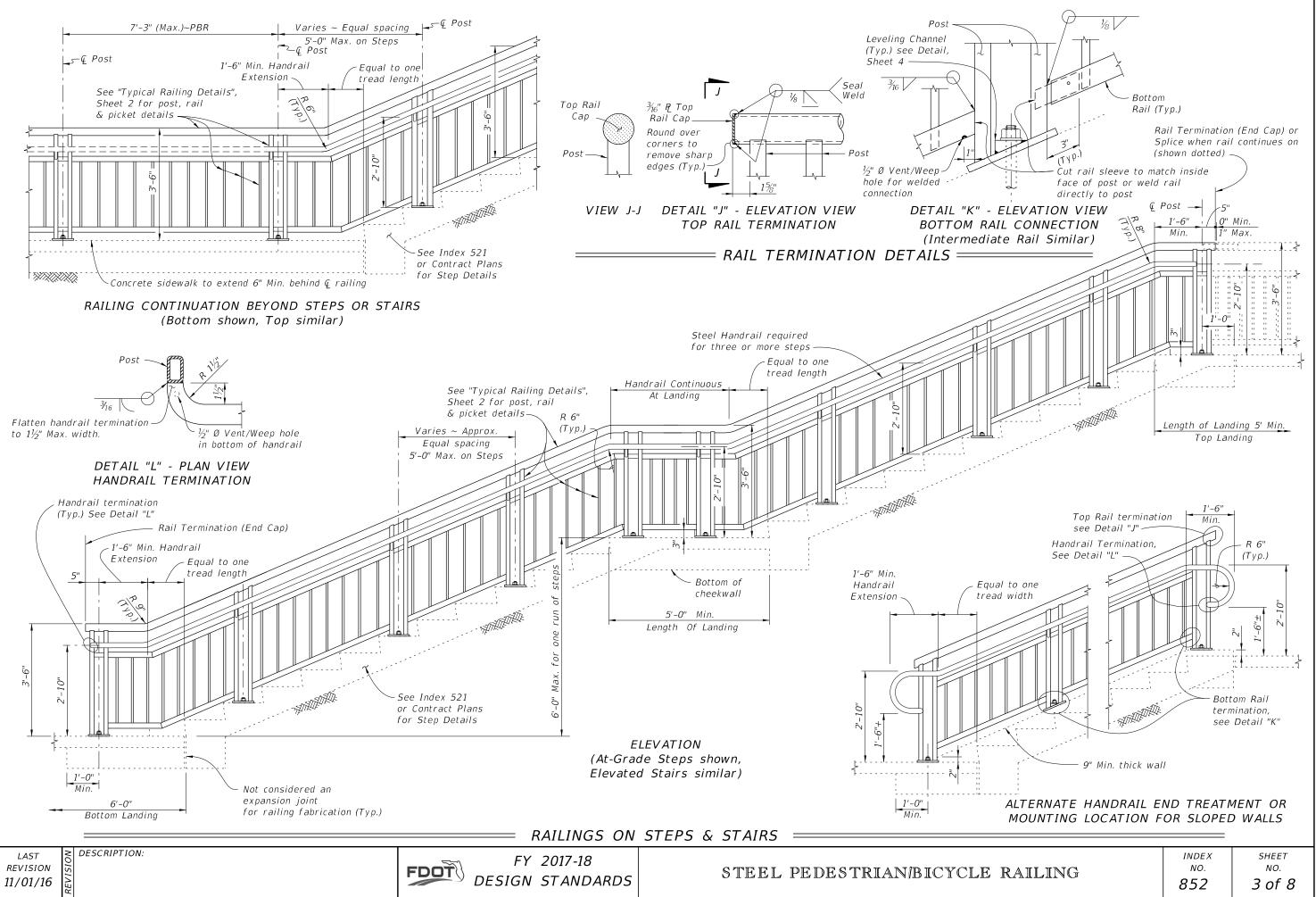
- 4" sphere requirement is indicated in the Data Tables.
- Expansion Joint.
- top rail must be continuous across a minimum of two posts.
- corner but not at the corner apex.

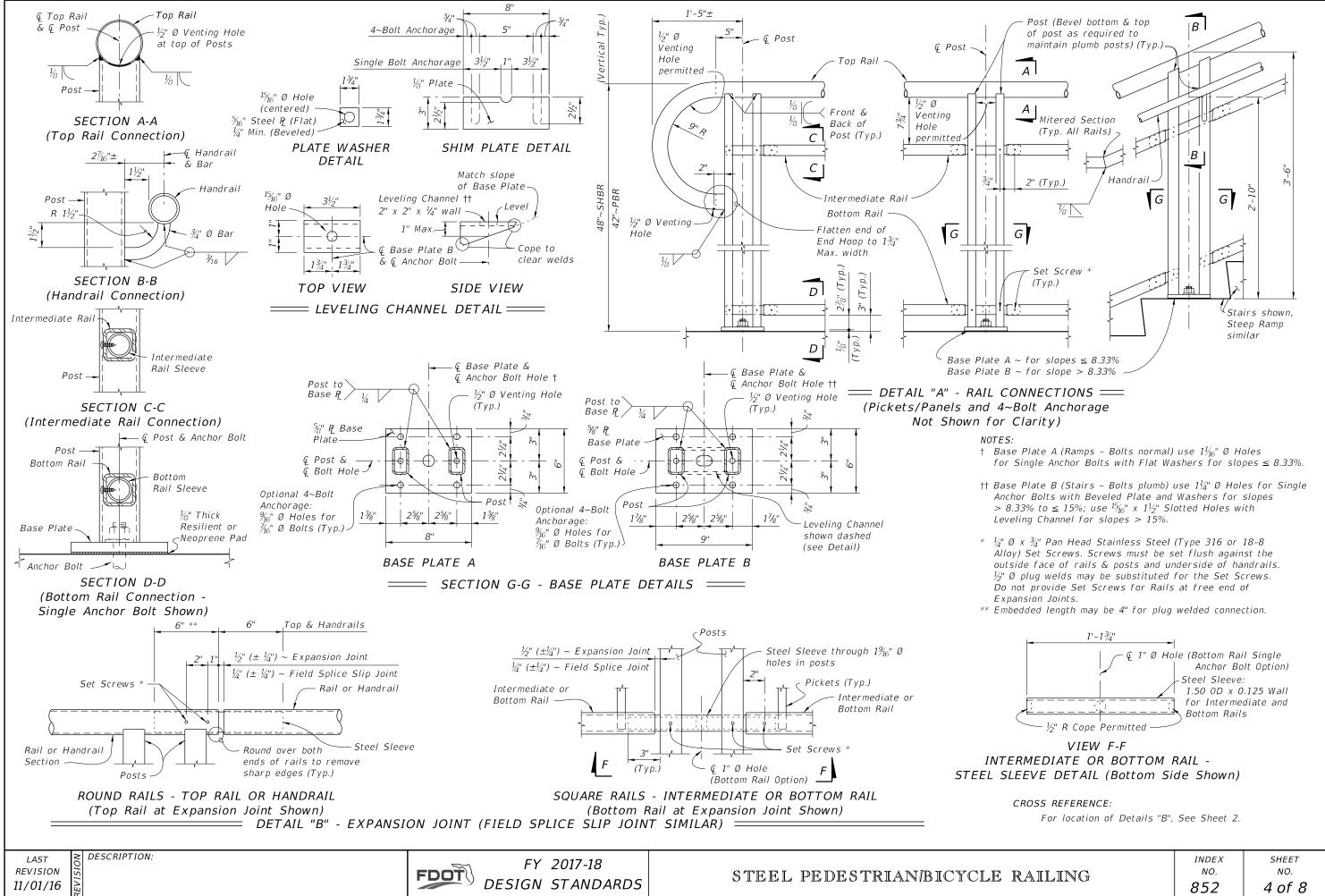
NOTES = 1. Shop Drawings are required; see Specification Section 515 2. For bridge mounted railings work this Index with Index 851 Bridge Bicycle/Pedestrian Railing 3. Materials: A. Pipe Rails and Pickets: ASTM A500 Grade B, C or D, or ASTM A53 Grade B for standard weight pipe (Schedule 40) B. Structural Tube: ASTM A500 Grade A, B, C, or D or ASTM A501 C. Steel Plate: ASTM A36 or ASTM A709 Grade 36 D. U-Channels and filler plates: ASTM A36 or ASTM A1011 (Grade 36). E. Stainless steel (SS) screws: Type 316 or 18-8 Alloy F. Galvanized Steel Fasteners: coated in accordance with Specification Section 962. a. Hex Head Bolts: ASTM A 307 or ASTM F1554 1. $\frac{7}{8}$ " diameter single bolt option, Grade 36 2. $\frac{7}{16}$ " four bolt option, Grade 55 b. Adhesive Anchors: ASTM F1554 fully threaded rods, Grade 55 d. Flat Washers: ASTM F436 e. Plate Washers: ASTM A36 or ASTM A706 Grade 36. G. Shims: ASTM B209 Alloy 6061 H. Bearing Pads: 1/8" Plain, Fabric Reinforced or Fabric Laminated pads that meet the requirements of Specification Section 962 for Ancillary Structures. 4. Fabricate pickets and vertical panel elements parallel to the posts; except Type 2, 3 and 5 panel infills may be fabricated parallel to the longitudinal grade. Maintain a maximum clear opening of 5%" for standard installations and 3%" when a 5. Maximum spacing between expansion joints is 40'-0". Locate an Expansion Joint between the posts on either side of the Deck 6. Field splices are similar to the Expansion Joint Detail and may be approved by the Engineer to facilitate handling; but the 7. For intermediate and bottom horizontal rails, the screwed joints shown may be substituted with alternate joints shown in detail "K". 8. Make corners and changes in tangential longitudinal alignment with a 9" bend radius or terminate adjoining sections with mitered end sections when handrails are not required. 9. For changes in tangential longitudinal alignment greater than 45° , position posts a maximum of 2'-0" each side of the 10. For curved longitudinal alignments, shop bend the top and bottom rails and handrails to match the alignment radius. 11. Handrails are required and must be continuous at landings for: A. Grades Steeper than 5%, B. Three or more steps 12. Installation: Cutting of reinforcing steel is permitted for post installed anchors. INDEX SHEET NO. NO. STEEL PEDESTRIAN/BICYCLE RAILING 852 1 of 8

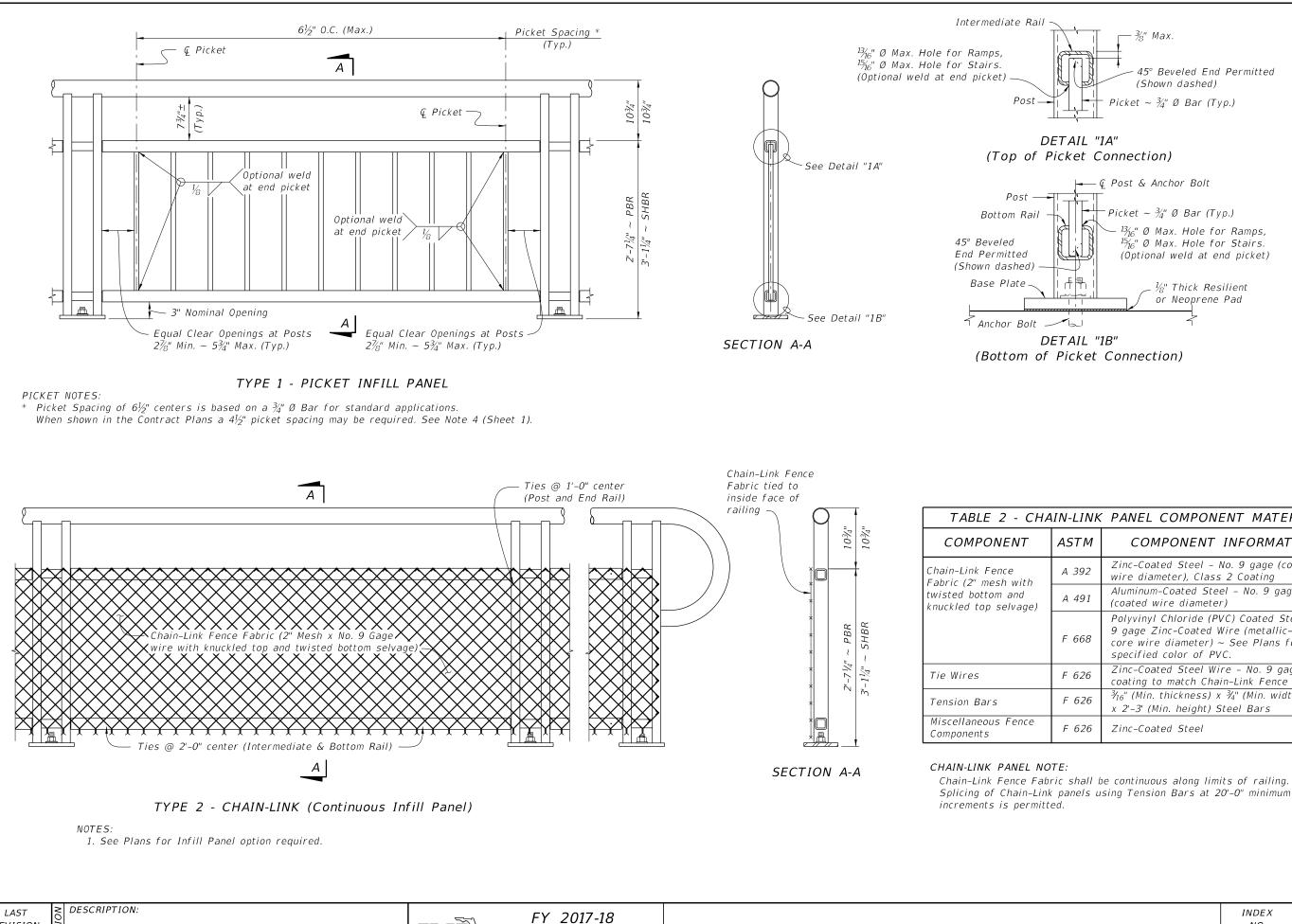
Т	N	DESCRIPTION:
ION	SI	
/16	\sum	







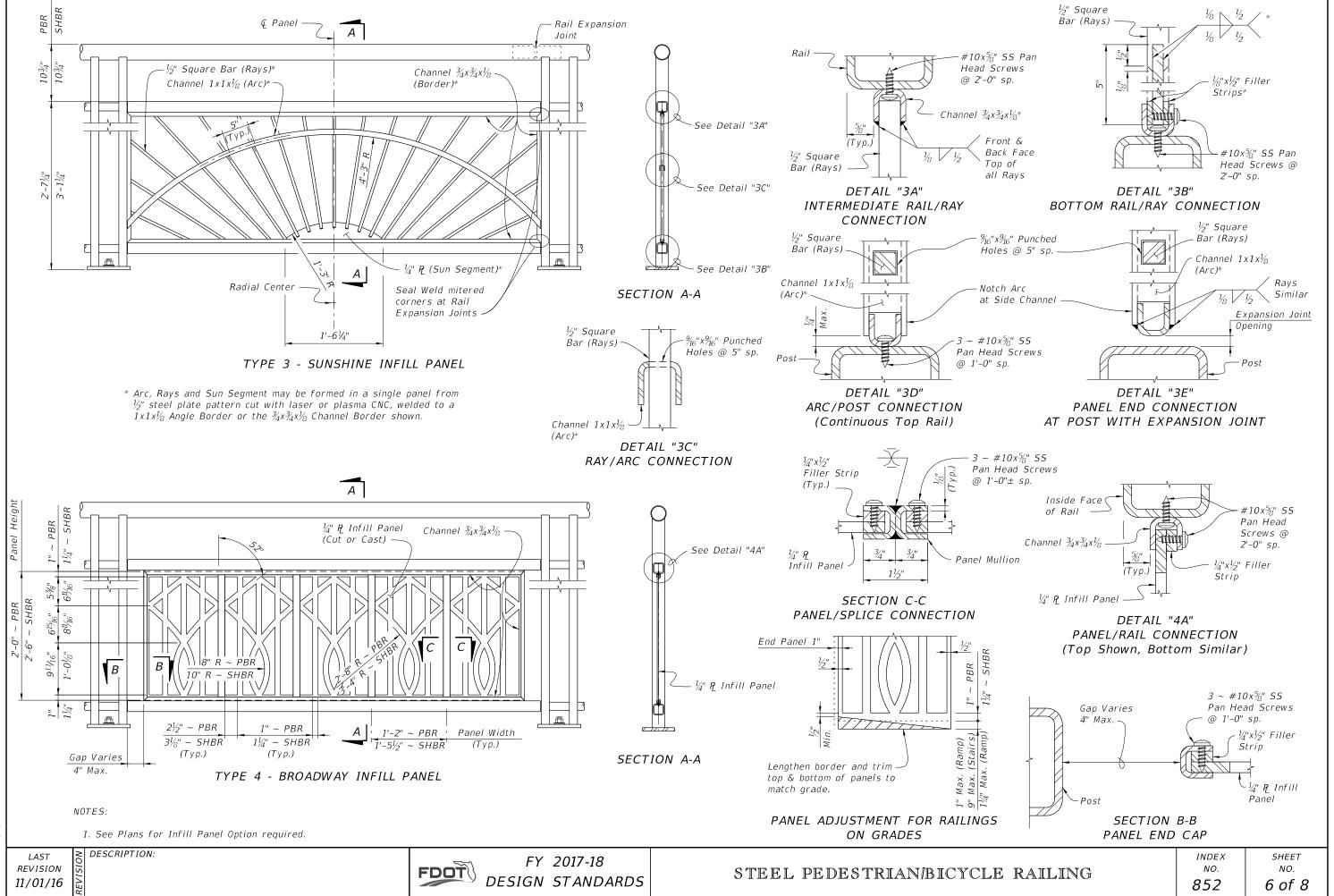


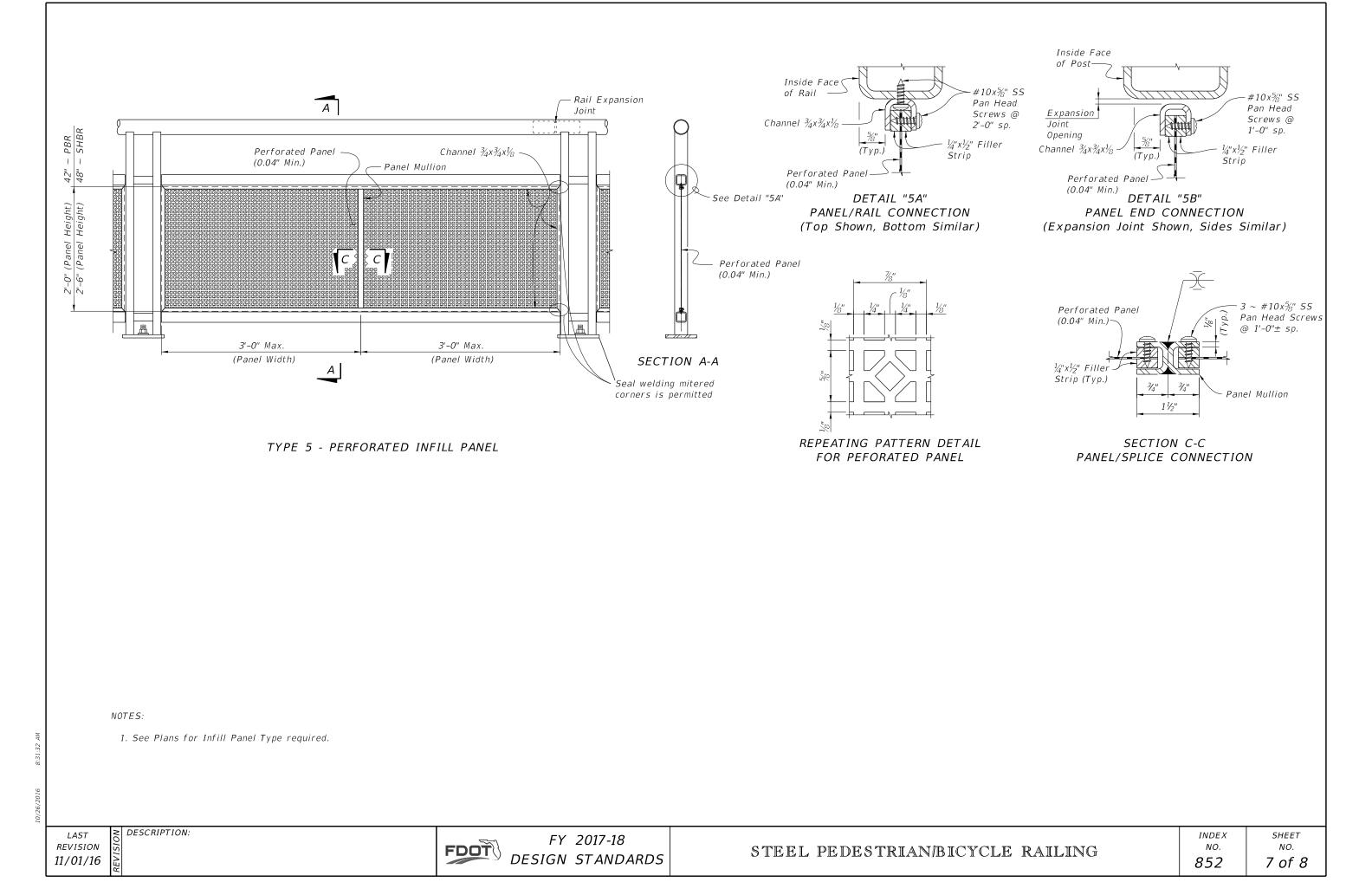


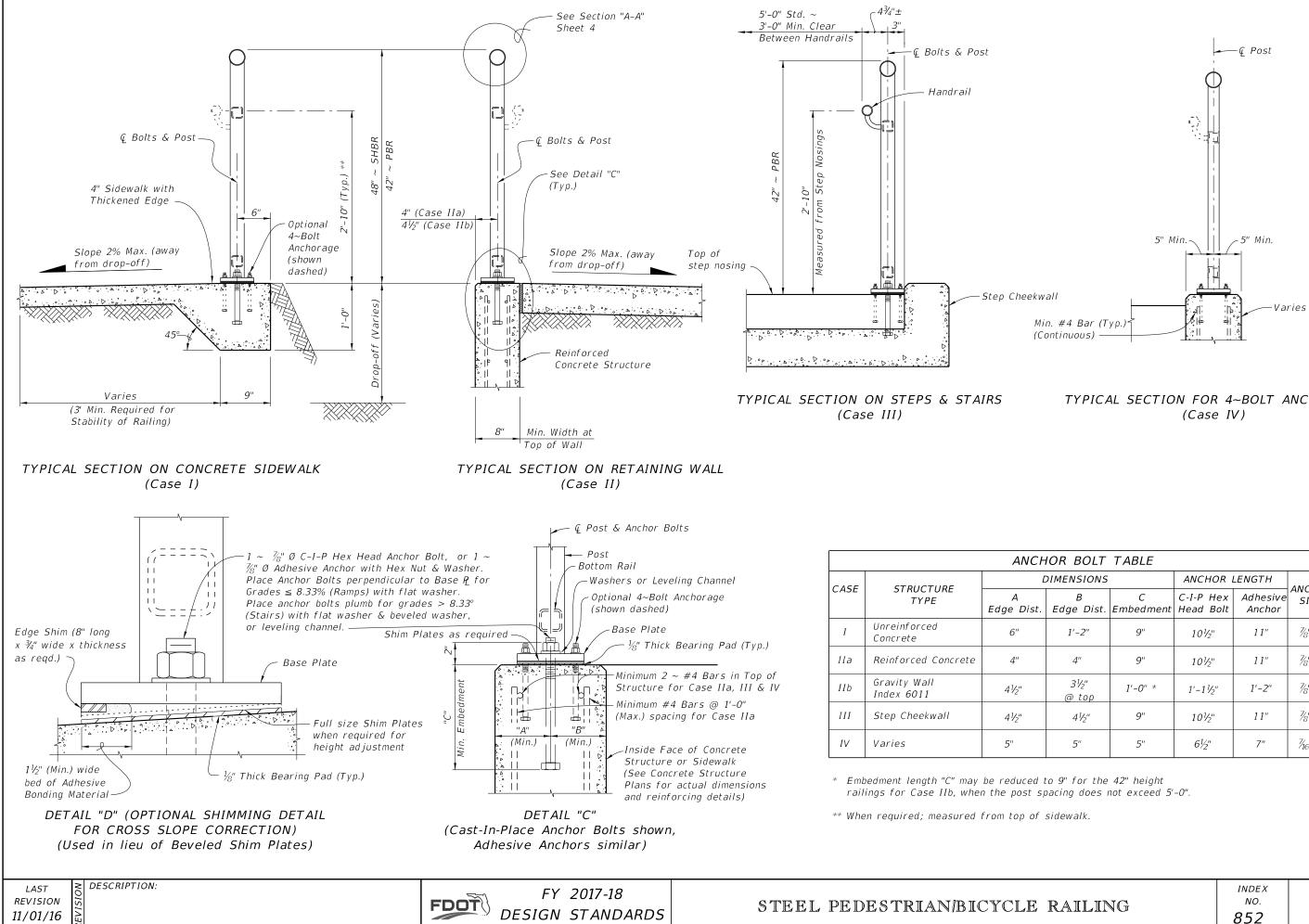
LAST
REVISION
11/01/16

I-LINK	PANEL COMPONENT MATERIALS
STM	COMPONENT INFORMATION
4 392	Zinc-Coated Steel – No. 9 gage (coated wire diameter), Class 2 Coating
4 491	Aluminum-Coated Steel – No. 9 gage (coated wire diameter)
- 668	Polyvinyl Chloride (PVC) Coated Steel – No. 9 gage Zinc-Coated Wire (metallic-coated core wire diameter) ~ See Plans for specified color of PVC.
F 626	Zinc-Coated Steel Wire – No. 9 gage with coating to match Chain-Link Fence Fabric.
F 626	¾6" (Min. thickness) x ¾" (Min. width) x 2'-3' (Min. height) Steel Bars
F 626	Zinc-Coated Steel
:	

	INDEX	SHEET
AILING	NO.	NO.
	852	5 of 8







TYPICAL SECTION FOR 4~BOLT ANCHORAGE

BOLT	TABLE			
NSIONS		ANCHOR LENGTH		ANCHOR
B ge Dist.	C Embedment	C-I-P Hex Head Bolt	Adhesive Anchor	SIZE
1'-2"	9"	10½"	11"	7∕ ₈ " Ø
4"	9"	10½"	11"	7∕8" Ø
3½" @ top	1'-0" *	1'-1½"	1'-2"	7∕8"Ø
4 ¹ / ₂ "	9"	10½"	11"	7⁄8" Ø
5"	5"	$6^{1\!/}_{2}$ "	7"	7⁄16″Ø

	INDEX	SHEET
AILING	NO.	NO.
	852	8 of 8