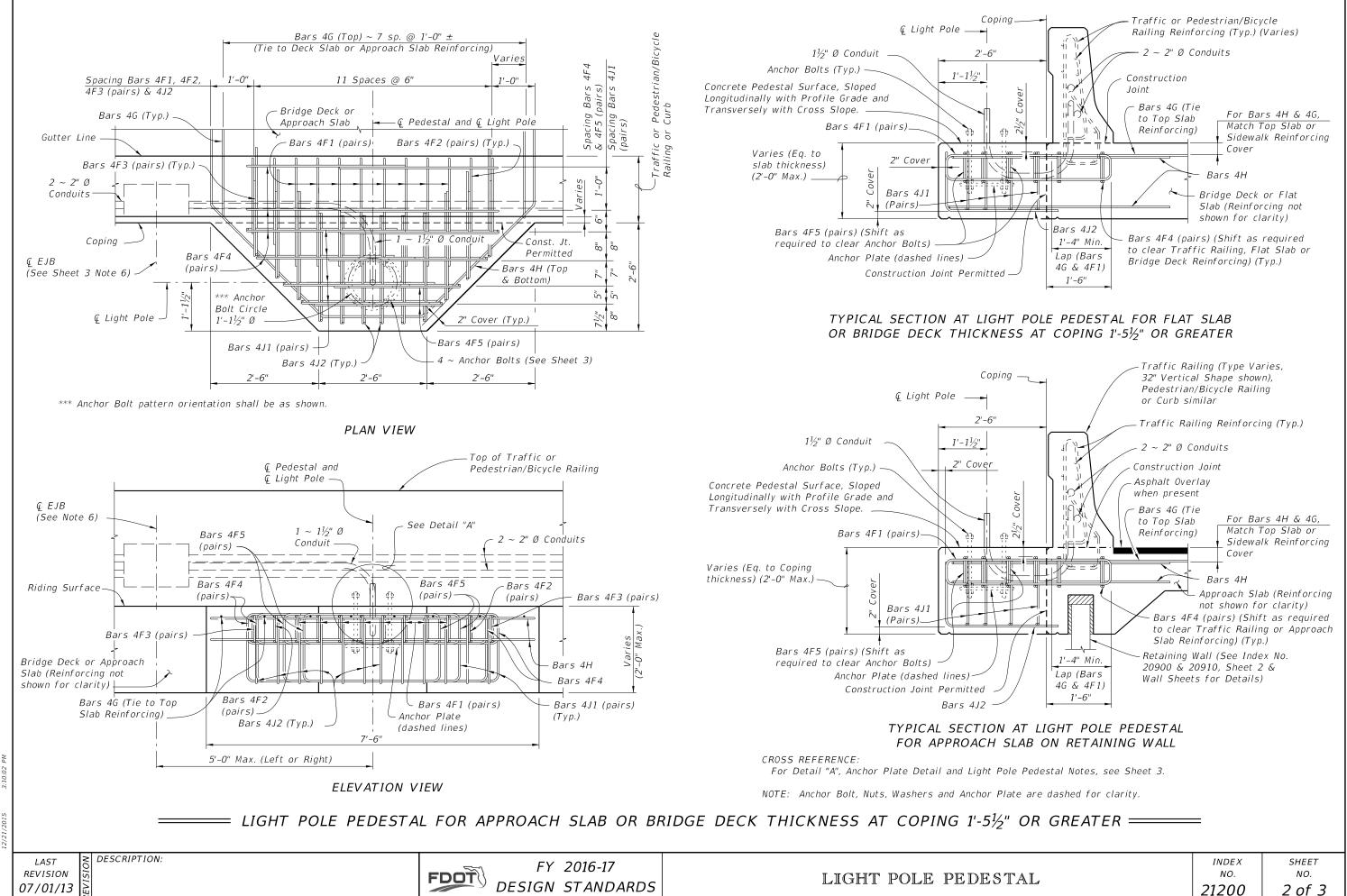


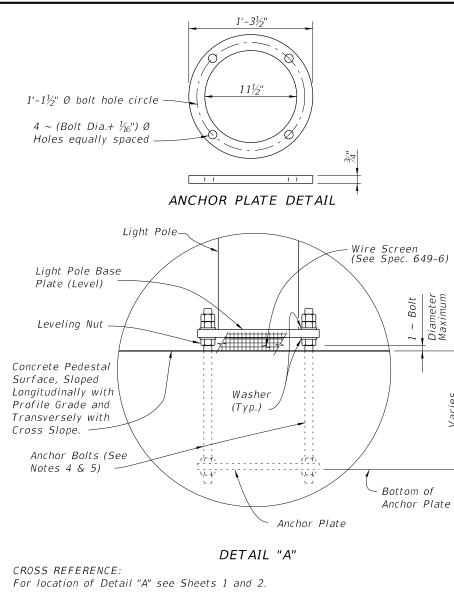
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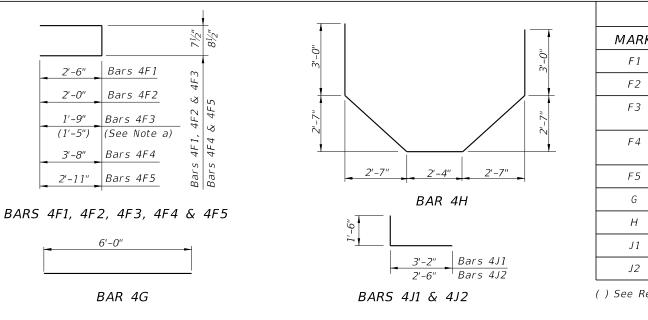


CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS



- a. When Pedestal is attached to Pedestrian/Bicycle Railing Index No. 820 or an 8" wide concrete curb and the Bridge Deck or Approach Slab thickness is less than $1'-1\frac{1}{2}''$, Bars 4F3 shall have leg length and bar length shown in parentheses.
- b. The number of bars shown in parentheses is for Bars 4F4 when Pedestal is attached to Pedestrian/Bicycle Railing - Index No. 820 or an 8" wide concrete curb, and the Bridge Deck or Approach Slab thickness is less than $1'-1\frac{1}{2}''$.
- c. Lap Splices for Bars 4F1, 4F2 & 4F3 shall be a minimum of 1'-4". Lap Splices for Bars 4F4 & 4F5 shall be minimum of 1'-8".
- d. Bars 4J1 and 4J2 are not required when Pedestal thickness is less than $1'-5^{1}/_{-}$ ". Field trim height of bars to maintain cover when Pedestal thickness is less than 2'-0". Field trim length of Bars 4J2 on Retaining Wall Coping to maintain cover.
- e. All bar dimensions in the bending diagrams are out to out.





LIGHT POLE PEDESTAL NOTES

FY 2016-17

FDOT

- 1. Concrete and Reinforcing Steel required for the construction of the Pedestal shall meet the same requirements as the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.
- 2. Light Pole Pedestal may be used with the following: Index No. 420 Traffic Railing (32" F Shape), Index No. 422 - Traffic Railing (42" Vertical Shape), Index No. 423 - Traffic Railing (32" Vertical Shape), Index No. 424 - Traffic Railing (Corral Shape), Index No. 425 - Traffic Railing (42" F Shape), Index No. 820 - Pedestrian/Bicycle Railing, Index No. 821 - Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape), or
 - Index No. 5210 Traffic Railing /Noise Wall (Bridge).
- 3. Unless otherwise noted, Traffic Railing (32" F Shape) is shown in all Views and Sections. The Pedestal details for other Traffic Railings or Pedestrian/Bicycle Railing are similar.

			MITATION	
AN	CHOR B	OLTS (L	OAD CAS	E1)
WIND	ARM	BRIDGE DECK HEIGHT (Ft.)*		
SPEED	LENGTH	DESIGN MOUNTING HEIGHT		
(MPH)	(Ft.)	40 Ft.	45 Ft.	50 Ft.
110	≤ 15	75	75	75
130	8 & 10	75	75	75
130	12	75	75	70
130	15	75	75	40
150	8	75	75	10
150	10	75	50	**
150	12	75	45	**
150	15	75	30	**

4 ANCHOR BOLT DESIGN. Load Case 1: See Table 1 ground, or MLW.

- Anchor Bolts: ASTM F1554 Grade 55. Nuts: ASTM A563 Grade A, Heavy-Hex. Washers: ASTM F436 Type 1. Anchor Plate: ASTM A709 (Grade 36) or ASTM A36.
- bolt design to the Engineer for approval.
- 5. Anchor Bolts must be installed plumb.
- Railing the Pedestal is attached to.

ESTIMATED LIGHT POLE PEDESTAL QUANTITIES PER LIGHT POLE PEDESTAL				
ITEM	UNIT	QUANTITY		
Concrete Per Pedestal Thickness	CY/In.	0.040		
Reinforcing Steel	LB	195 (182)		

(The Reinforcing Steel quantity shown in parenthesis is for a Pedestal attached to Pedestrian/Bicycle Railing - Index No. 820 with Bridge Deck or Approach Slab thinner than $1'-1^{1/2}$ ". Add 59 Lbs. for Bars 4J1 & 4J2 when Pedestal Thickness is greater than 1'-5")

DESIGN STANDARDS

Case 2.

LIGHT POLE PEDESTAL

LAST	S	DESCRIPTION:
REVISION	SI	
07/01/15	REVI	

BILL OF REINFORCING STEEL				
К	SIZE	NO. REQD.	LENGTH	NOTES
	4	16	5'-8''	С
	4	4	4'-8"	С
	4	4	4'-2'' (3'-6'')	а, с
	4	8 (6)	8'-3''	b, c
	4	4	6'-7"	С
	4	8	6'-0''	-
	4	2	15'-8"	-
	4	8	4'-8''	d
	4	12	4'-0''	d

() See Reinforcing Steel Note a & b.

Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index 17515 and the following design limitations:

Load Case 2: 150 mph Design Wind Speed, 15' arm length, 50' Design Mounting Height with a 75' bridge deck height above natural

Anchor Bolt Diameter: 1" Ø (Load Case 1), 1 ¹/₄" Ø (Load Case 2).

All Nuts, Bolts and Washes shall be galvanized by ASTM F2329.

The Contractor is responsible for ensuring the anchor bolt configuration is compatible with the light pole base plate. Submit modifications of the anchor

6. For Conduit, Embedded Junction Boxes (EJB), Expansion/Deflection Fitting and adjacent Reinforcing Steel Details, see Utility Conduit Detail Sheets.

7. PAYMENT: The cost of Wire Screen, Anchor Bolts, Nuts, Washers and Anchor Plates shall be included in the Bid Price for Light Poles. The cost of all Labor, Concrete and Reinforcing Steel required for the Construction of the Pedestals, EJB, and Miscellaneous Hardware required for the completion of the Electrical System, shall be included in the Bid Price for the Traffic Railing or Pedestrian/Bicycle

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