Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	521-660
Date:	5/14/2024	Sheet Number(s):	2, 4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	LIGHT POLE PEDESTAL - BRIDGE

Summary of the changes:

Sheet 2: Revised conduit path for the TYPICAL SECTION's.

Sheet 4: Labeled the anchor bolt nuts in DETAIL "A"; Added a note for DETAIL "A" regarding minimum anchor bolt embedment and bottom concrete cover; Removed anchor bolt table; Revised Note 4 to now include maximum deck height, pole height, and pole arm length

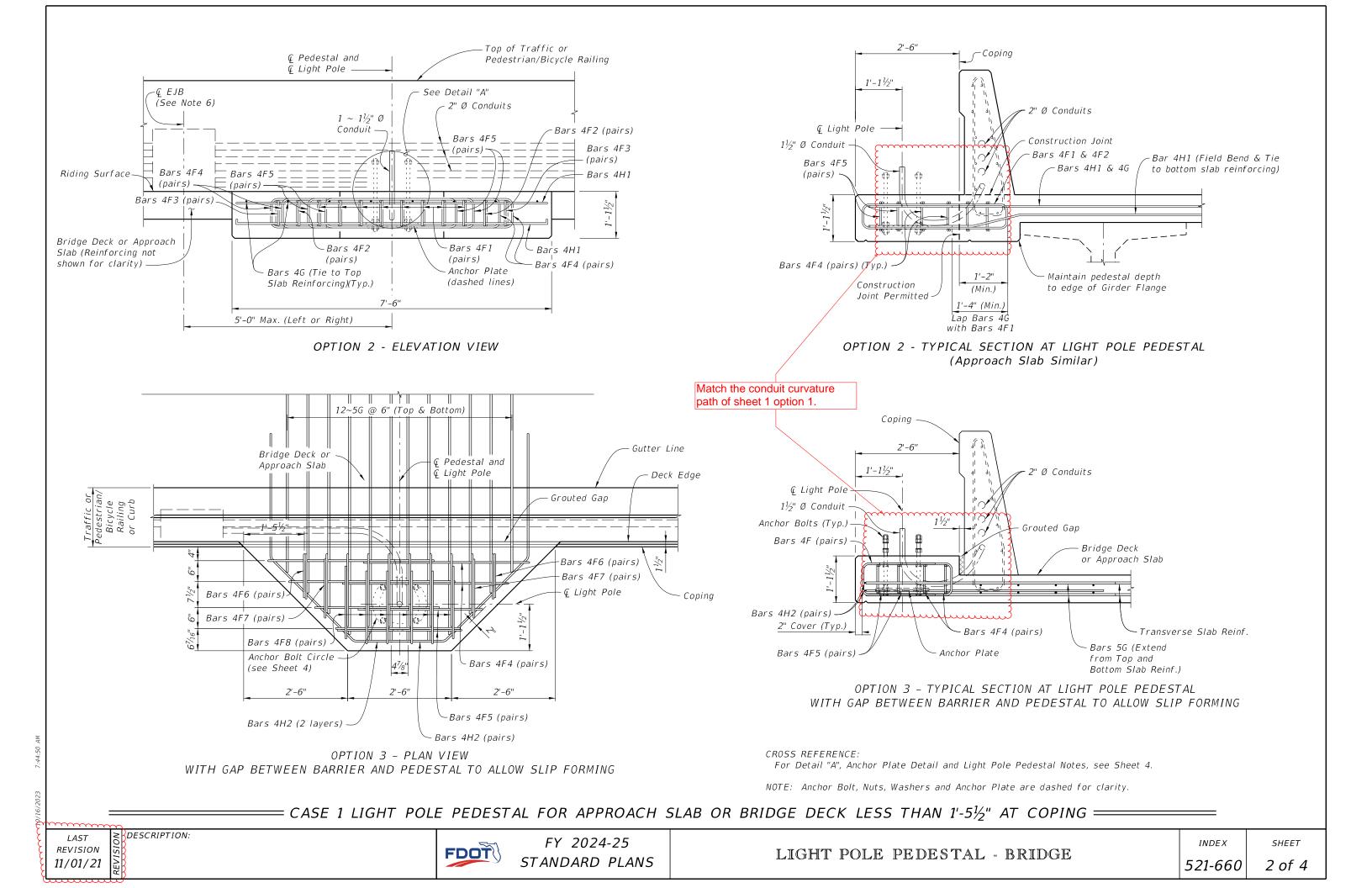
Commentary/Background:

Sheet 1: Conduit path was slightly incorrect so we fixed it.

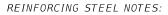
Sheet 4: The anchor bolt nuts were labled to correspond with the Spec. The anchor bolt table was removed so that this Index will only address the standardized pole and pedestal capacities. The pole mounting height is limited to 40 feet for an elevated structure mount.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

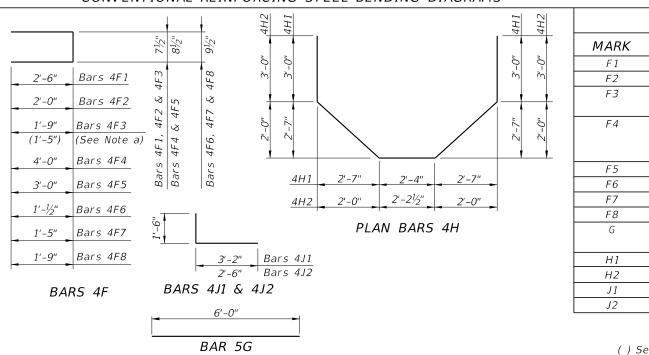
Implementation	
["FY-Standard Plans (Next Release)"]	

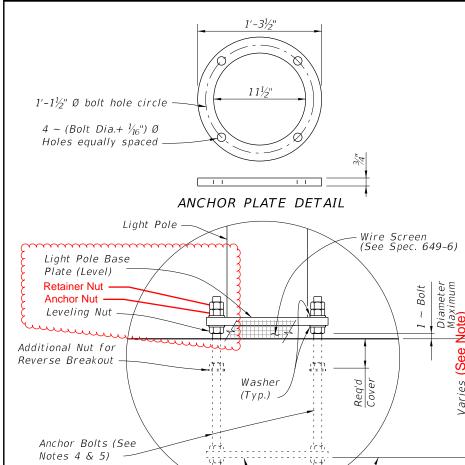


CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS



- a. When Pedestal is attached to Pedestrian/Bicycle Railing Index 521-820 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 521–820 or an 8" wide concrete curb, and the Bridge Deck or Approach Slab thickness is less than $1'-1'/_{-1}$ ".
- 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 $1'-5\frac{1}{2}''$. 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

- 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 521-422 - Traffic Railing (42" Vertical Shape), Index 521-423 - Traffic Railing (32" Vertical Shape), Index 521-427 - Traffic Railing (36" Single-Slope), Index 521-428 - Traffic Railing (42" Single-Slope), Index 521-820 - Pedestrian/Bicycle Railing, Index 515-021 - Pedestrian/Bicycle Bullet Railing for
 - Traffic Railing or Index 515-509 - Traffic Railing /Noise Wall - Bridge.
- 3. Unless otherwise noted, Traffic Railing (36" Single-Slope) is shown in all Views and Sections. The Pedestal details for other Traffic Railings or Pedestrian/Bicycle Railing are similar.

TABLE			MITATION	
	ANCHO		5 (1" Dia)	
WIND	ARM	BRIDGE	DECK HEIGH	HT (Ft.)*
SPEED	LENGTH	DESIGN	MOUNTING H	HEIGHT
(MPH)	(Ft.)	40 Tt.	45 Ft.	50 Ft.
130	≤ 15	75	Z5	75
150	<u>≤ 15</u>	75	75	75
170	8 & 10	75	75	45**
170	12 & 15	75	75	25**
-				

* Above natural ground or MLW.

** Use 1¹/₄" diameter Ancher Bolt for Bridge Deck Height greater than shown, in Table 1, up to 75'

FY 2024-25 depending on which pedestal option NDARD PLANS

Bottom of Anchor Plate

is used.

Anchor Plate

DETAIL "A"

Note: Min. anchor bolt embed is 9

1/2". Max embed must maintain min.

required bottom cover. Anchor bolt

embed max. may be as long as

required for constructability

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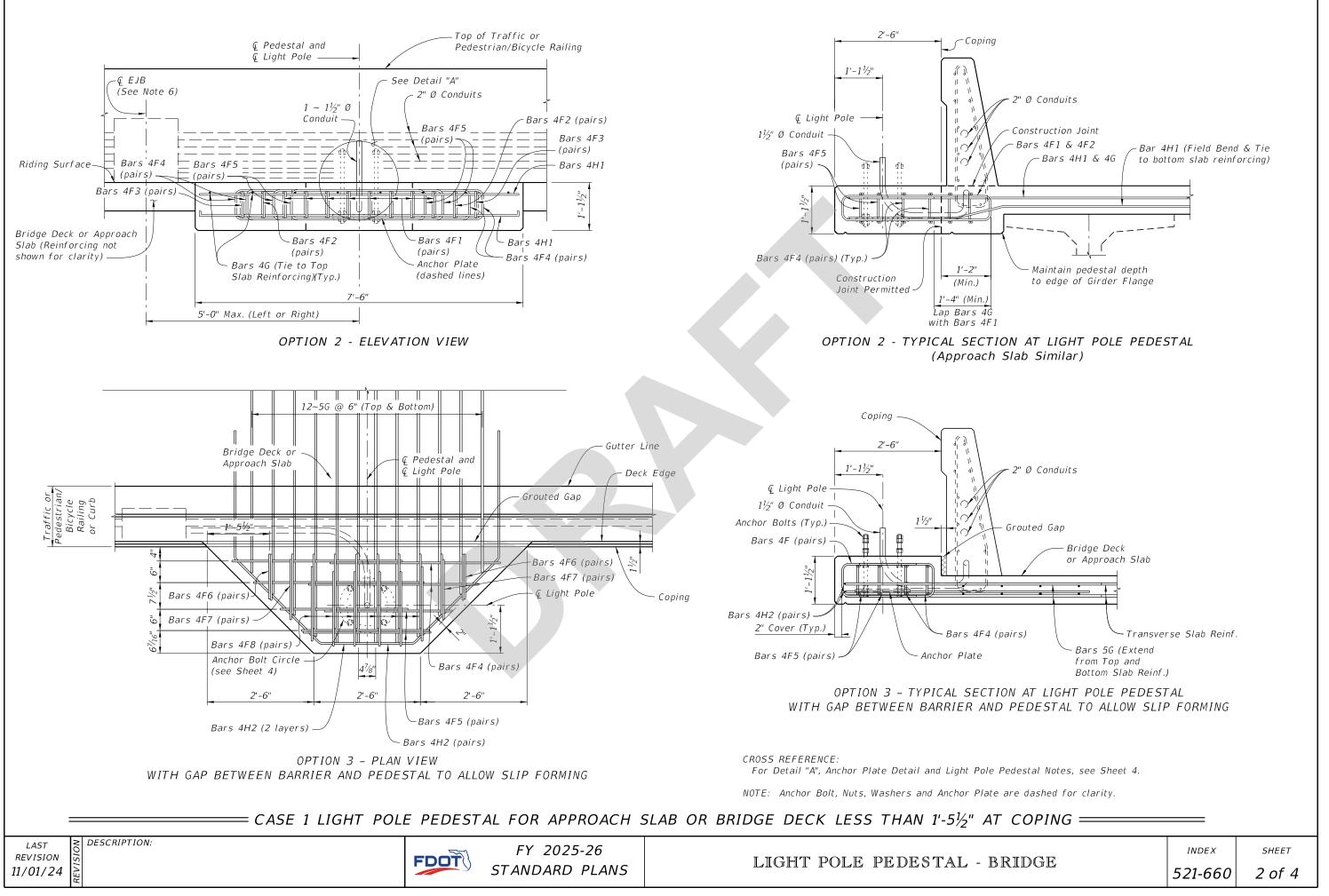
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- 5. Instal
- 6. For C adjad
- 7. PAYML shall and R Misce shall Railiı

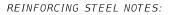
$F1$ 416 $5-8^{\circ}$ $F2$ 44 $4-3^{\circ}$ $F3$ 44 $4-3^{\circ}$ $F3$ 44 $4-2^{\circ}$ $F3$ 44 $4-2^{\circ}$ $F4$ 48 $8-9^{\circ}$ $F4$ 48 $8-9^{\circ}$ $F5$ 44 $6-9^{\circ}$ $F6$ 44 $2-11^{\circ}$ $F7$ 44 $3-8^{\circ}$ $F8$ 412 $4-4^{\circ}$ G 48 $6-0^{\circ}$ (5 for Option 3) $H1$ 42 $H2$ 42 $H2$ 42 $H2$ 42 $H2$ 42 $H2$ 42 $H2$ 4 $H2$			BILL	OF REINFORC	ING STEE	L
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F4 4 8 8'-9" 1 F5 4 4 6'-9" 1 F6 4 4 2'-11" 1 F7 4 4 3'-8" 1 F8 4 12 4'-4" 1 G 4 8 6'-0" 1 H1 4 2 13'-10" 1 H2 4 2 13'-10" 1 J1 4 8 4'-8" 1 J2 4 12 4'-0" 1 C) See Reinforcing Steel Note a & b. 8 8 1 Botts: ASTM F1554 Crade 55. 55. 57M A563 Grade A, Heavy-Heav with a maximum 40 ft luminaire mounting and a maximum 12 ft arm length. Use 1''. bott or up to 75 ft bridge deck height abo natual ground or MLW. Plate: ASTM F1554 Crade 55. 55. 57M A563 Grade A, Heavy-Heav with a maximum 40 ft luminaire mounting and a maximum 12 ft arm length. Use 1''. bott or up to 75 ft bridge deck height abo natual ground or MLW. Plate: ASTM F304 (Grade 36) or ASTM A36. Calvanize all Nuts, Botts Washers, in accordance with ASTM F2329. Galvanize plates in accordance with ASTM A123. ractor	÷.	F2	4	4		С
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F6 4 4 2'-11" F7 4 4 3'-8" F8 4 12 4'-4" G 4 8 6'-0" If for Option 31 [24 for Option 3] 6'-0" H1 4 2 15'-8" H2 4 2 13'-10" J1 4 8 4'-8" J2 4 12 4'-0" I 4 8 4'-8" J2 4 12 4'-0" I 4 8 4'-8" J2 4 12 4'-0" I 4 8 4'-8" J2 4 12 4'-0" With a maximum 40 ft luminaire mounting and a maximum 12 ft arm length. Use 1", bolt for up to 75 ft bridge deck height abo natural ground or MLW. Plate: ASTM F1554 Grade 55. FSM A709 (Grade 36) or ASTM A36. :: Galvanize plates in accordance with ASTM A123. F2329. Galvanize plates in accordance with ASTM A123. F2329. Galvanize plates in accordance with ASTM A123. F30 reactor is respon	i V	F 4	4	(6)		b, c
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F8 4 12 4'-4'' G 4 8 6'-0'' H1 4 2 15'-8'' H2 4 2 13'-10'' J1 4 8 4'-8'' J2 4 12 4'-0'' () See Reinforcing Steel Note a & b. 5 BOLTS: 0 10 4'-0'' ott design is based on the standard Roadway Aluminum Light Pole 10 ations shown on Index 715-002 with a maximum 40 ft luminaire mounting and a maximum 12 ft arm length. Use 1'' bolt for up to 75 ft bridge deck height abo natural ground or MLW. StASTM F1554 Grade 55. StATM F436 Type I. Plate: ASTM A709 (Grade 36) or ASTM A36. accordance with ASTM F2329. Galvanize all Nuts, Bolts Washers, in accordance with ASTM F2329. Galvanize plates in accordance with ASTM A123. ractor is responsible for ensuring the anchor bolt configuration is lewith the light pole base plate. Submit modifications of the anchor gnd the light pole base plate. Submit modifications of the anchor gnd the Engineer for approval. nchor Bolts plumb. uit, Embedded Junction Boxes (EJB), Expansion/Deflection Fitting and Reinforcing Steel Details, see Utility Conduit Detail Sheets and Index 63 : The cost of Wire Screen, Anchor Bolts, Nuts, Washers and Anchor Plates in		F6	4	4	2'-11''	-
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LIGHT POLE PE

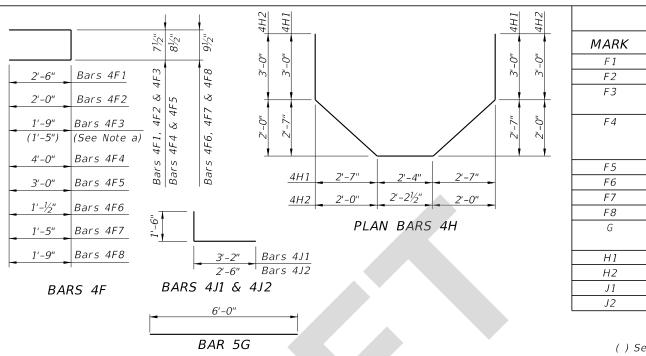
CROSS REFERENCE: For location of Detail "A" see Sheets 1,2 and 3. DESCRIPTION: LAST REVISION 11/01/21

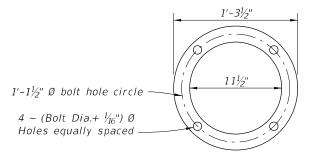


CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS



- a. When Pedestal is attached to Pedestrian/Bicycle Railing Index 521-820 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 521-820 or an 8" wide concrete curb, and the Bridge Deck or Approach Slab thickness is less than $1'-1'/_{-1}$ ".
- 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 $1'-5\frac{1}{2}''$. 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.





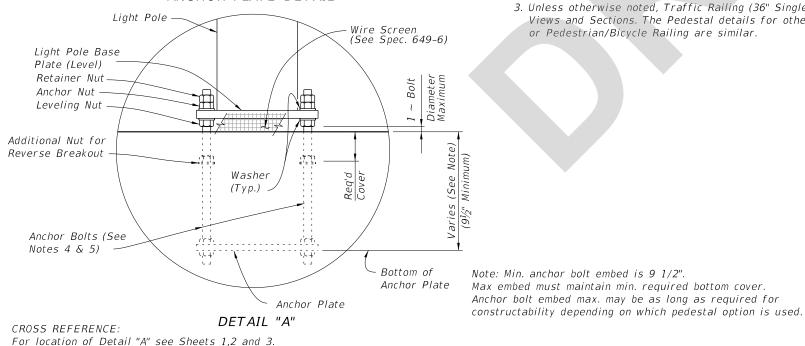
DESCRIPTION:

LAST

REVISION

11/01/24





LIGHT POLE PEDESTAL NOTES

- 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 521-422 - Traffic Railing (42" Vertical Shape), Index 521-423 - Traffic Railing (32" Vertical Shape), Index 521-427 - Traffic Railing (36" Single-Slope), Index 521-428 - Traffic Railing (42" Single-Slope), Index 521-820 - Pedestrian/Bicycle Railing, Index 515-021 - Pedestrian/Bicycle Bullet Railing for Traffic Railing or
 - Index 515-509 Traffic Railing /Noise Wall Bridge.
- 3. Unless otherwise noted, Traffic Railing (36" Single-Slope) is shown in all Views and Sections. The Pedestal details for other Traffic Railings or Pedestrian/Bicycle Railing are similar.

4. ANCHOR BOLTS:

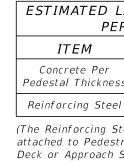
Anchor Bolt design is based configurations shown on Ind and a maximum 12 ft. arm Use 1" Ø anchor bolt for up

> Anchor Bolts: ASTM F1554 Nuts: ASTM A563 Grade A Washers: ASTM F436 Type Anchor Plate: ASTM A709 Coating: Galvanize all Nut Galvanize plates

The Contractor is responsib compatible with the light po bolt design to the Engineer

- 5. Install Anchor Bolts plumb.
- 6. For Conduit, Embedded June ad jacent Reinforcing Steel

7. PAYMENT: The cost of Wire shall be included in the Big and Reinforcing Steel requi Miscellaneous Hardware red shall be included in the Big Railing the Pedestal is atta



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FY 2025-26 STANDARD PLANS

LIGHT POLE PEDESTAL - BI

		BILL	OF REINFORC	ING STEE	=L
F	MARK	SIZE	NO. REQD.	LENGTH	NOTES
F	F 1	4	16	5'-8''	С
	F2	4	4	4'-8''	С
	F3	4	4	4'-2'' (3'-6'')	а, с
	F 4	4	8 (6) [4 for Option 3]	8'-9"	b, c
ŀ	F5	4	4	6'-9''	с
F	F6	4	4	2'-11''	_
F	F7	4	4	3'-8''	_
F	F8	4	12	4'-4''	-
F	G	4	8	6'-0''	-
			[24 for Option 3]		
	H1	4	2	15'-8"	-
Ļ	H2	4	2	13'-10"	
	J 1	4	8	4'-8''	d
	J2	4	12	4'-0''	d
1 A AST te. alv alv	: ASTM F1554 A563 Grade A, IM F436 Type : ASTM A709 (0 anize all Nuts vanize plates i	Grade 55. Heavy-Hex. 1. Grade 36) or AST , Bolts Washers, in accordance wit	in accordance wit h ASTM A123.	h ASTM F23.	29.
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