GENERAL NOTES:

- 1. Poles are designed to support the following A. Luminaire Effective Projected Area (EPA): 1.55 SF
 - B. Weiaht: 75 lb.
- 2. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not included in the Plans.
- 3. Materials:
 - A. Pole, Pole Connection Extrusions and Arm Extrusions: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
 - B. Bars, Plates, Stiffeners and Backer Ring: ASTM B221, Alloy 6063-T6
 - C. Caps and Covers: ASTM B-26, Alloy 319-F
 - Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36 Aluminum Weld Material: ER 4043
 - Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6

 - G. Bolts, Nuts and Washers: a. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
 - b. Nuts: ASTM A563 Grade DH Heavy-Hex

 - c. Washer: ASTM F436 Type 1 H. Anchor Bolts, Nuts, and Washers: a. Anchor Bolts: ASTM F1554 Grade 55
 - b. Nuts: ASTM A563 Grade A Heavy-Hex
 - c. Plate Washer: ASTM A36 I. Stainless Steel Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
 - J. Nut Covers: ASTM B26 (319-F)
 - K. Concrete: Class 1
 - L. Reinforcing Steel: Specification 415
- 4. Fabrication:
 - A. Weld Arm and Pole (Alloy 6063) in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding.
 - B. Transverse welds are only allowed at the base.
 - C. Roadway Light Pole Taper: Taper as required to provide a round top 0.D. of 6" and a base 0.D. of 10". Portions of the pole near the base shoe and at the arm connections may be held constant at 10" and 6" respectively to simplify fabrication.
 - D. Median Barrier Mounted Light Pole Taper: Taper as required to provide a 6" 0.D. round top with an 11" x 7" 0.D. oblong base. Portions of the pole near the base and at the arm connections may be held constant at 11"x 7" oblong and 6" round respectively to simplify fabrication.
 - E. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
 - F. Equip poles located on bridges, walls and concrete median barriers/Traffic Railings with a vibration damper.
 - G. Perform all welding in accordance with AWS D1.2.
 - H. Embedded Junction Box (EJB):
 - a. Weld all seams continuously and grind smooth.
 - b. Hot Dip Galvanize after Fábrication.
 - c. Provide a watertight cover with neoprene gasket and secure cover with galvanized screws.
 - I. For Median Barrier Mounted Aluminum Light Poles, the fabricator must demonstrate the ability to produce a crack free pole. The fabricator's Department-approved QC Plan must contain the following information prior to fabrication:
 - a. Tests demonstrating a pole with a V_4'' wall thickness achieves and ultimate moment capacity of 36 kip*ft in the strong axis and 30 kip*ft in the weak axis.
 - b. Tests demonstrating a pole with a $\frac{1}{2}$ wall thickness achieves an ultimate moment capacity of 44 kip*ft in the strong axis and 37 kip*ft in the weak axis.
 - c. Test results showing the pole does not buckle at the shape transition area under the ultimate moment capacity loads.
 - d. Complete details and calculations for the reinforced 4"x 6" (Min.) handhole located 1'-6" above the base plate. J. Identification Tag: (Submit details for approval.)

 - a. 2" x 4" (Max.) aluminum identification tag. b. Locate on the inside of the transformer base and visible from the door opening.
 - c. Secure to transformer base with $\frac{\eta}{8}$ diameter stainless steel rivets or screws.
 - d. Include the following information on the ID Tag:
 - 1. Financial Project ID
 - 2. Pole Height
 - 3. Manufacturer's Name

- 5. Coatings/Finish:
 - A. Pole and Arm Finish: 50 grit satin rubbed.
 - B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
 - C. Hot Dip Galvanize EJB and other steel items including poles and plate washers: ASTM A123

6. Construction:

- A. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole. B. Frangible Base, Base Shoe, and Clamp:

 - capacity.

 - NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17). c. Do not erect pole without Luminaire attached.
- 7. Embedded Junction Box (EJB): Install EJBs per Note 4 and in accordance with Specification 635, as shown on the following Sheets.
- 8. Wind Speed by County:

120 MPH

Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.

140 MPH

Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

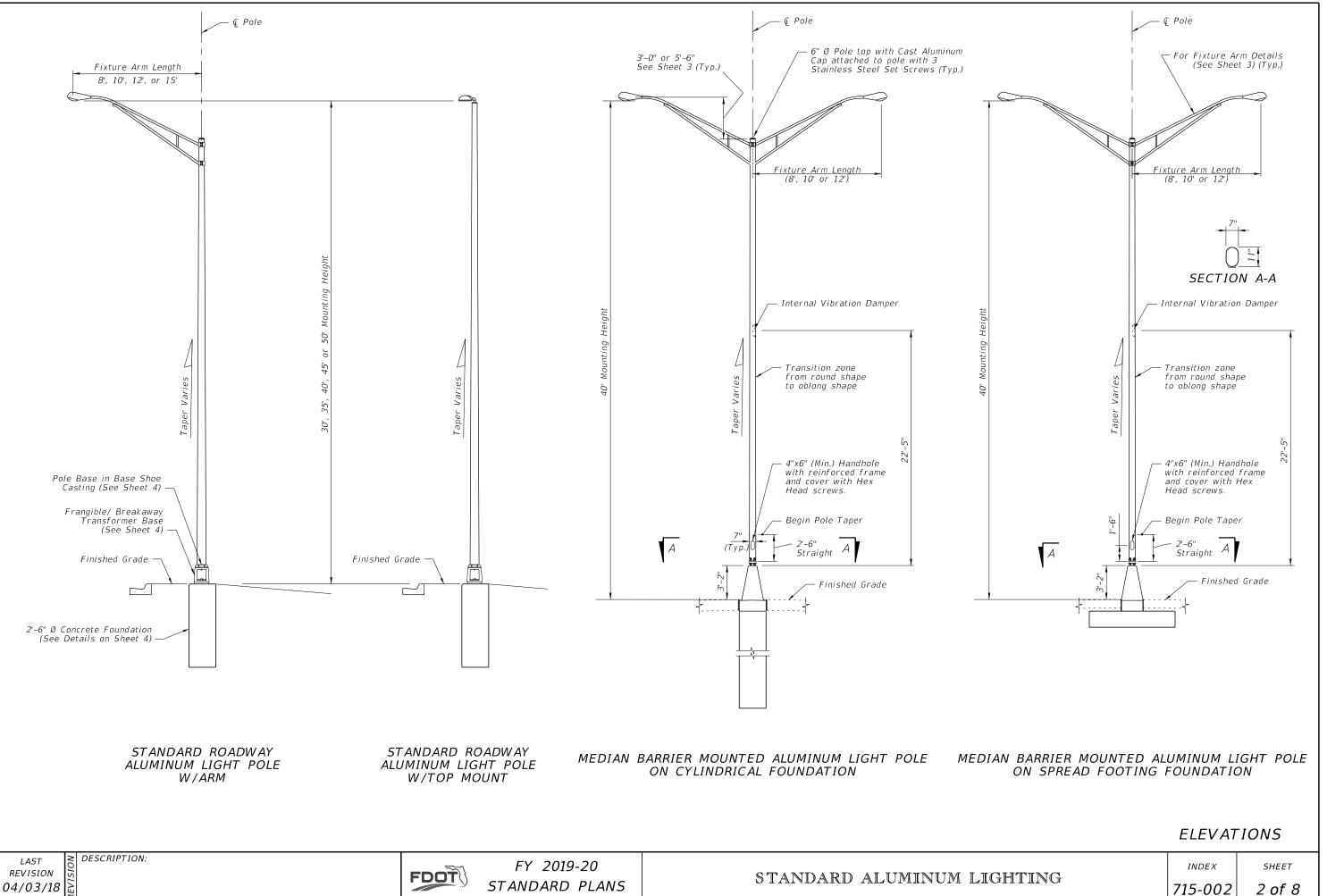
160 MPH

Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.

	N	DESCRIPTION:
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ON	S	

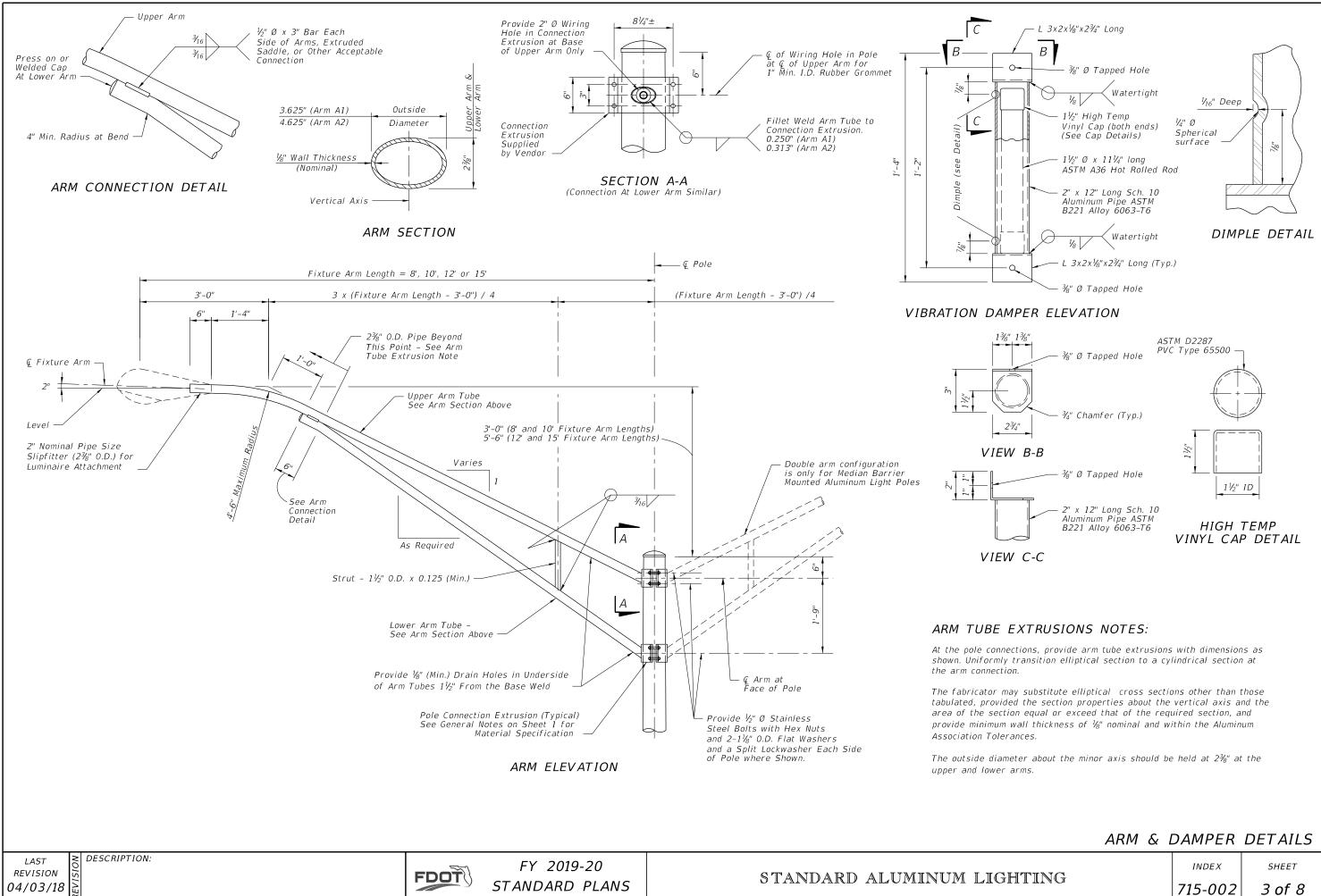
a. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required b. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under

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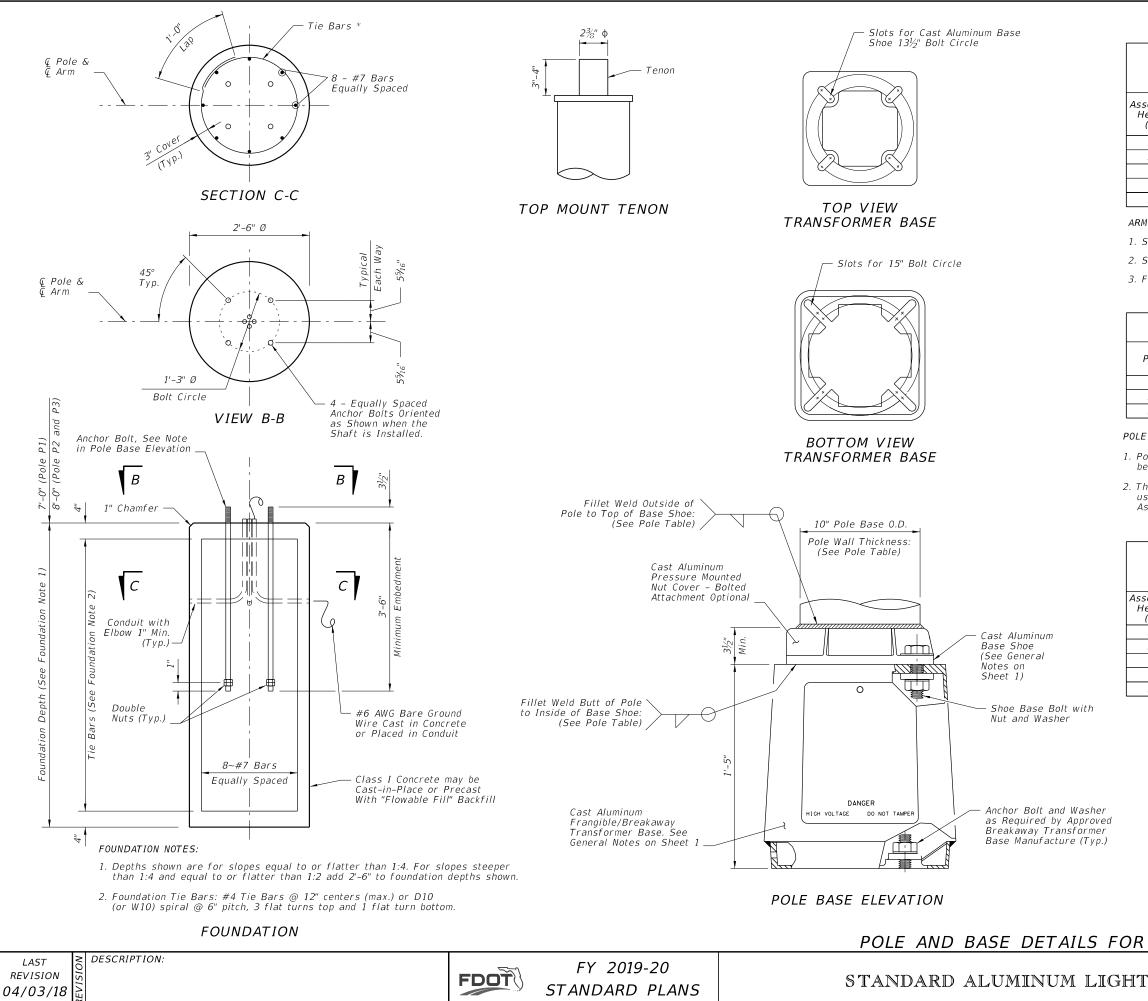


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	ARM	&	DAMPER	DETAILS
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REVISION

ARM-POLE TABLE

FOR STANDARD ALUMINUM LIGHT POLES WITH ARM

sembly	Wind Speed and Arm Lengths (ft)				
leight			mph	160 mph	
(ft)	8,10,12,15	8, 10, 12	15	8,10	12, 15
30				A1-P1	A2-P1
35	A1-P1	A1-P1	A2-P1	AI-PI	AZ-PI
40	AI-PI			A1-P2	A2-P2
45	A1-P2	A1-P2	A2-P2	AI-PZ	AZ-PZ
50	AI-P2	AI-PZ	AZ-PZ	A1-P3	A2-P3

ARM POLE NOTES:

1. See ARM SECTION detail on Sheet 3 for all A1 and A2 Values. 2. See Pole Table for all P1, P2, and P3 values.

3. For Median Barrier Mounted Pole, Use Arm A1.

POLE TABLE				
Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld	
Ρ1	0.156	³⁄16″	5/ ₃₂ "	
Ρ2	0.250	1⁄4"	1⁄4"	
Р3	0.313	5⁄16″	5/16"	

POLE NOTES:

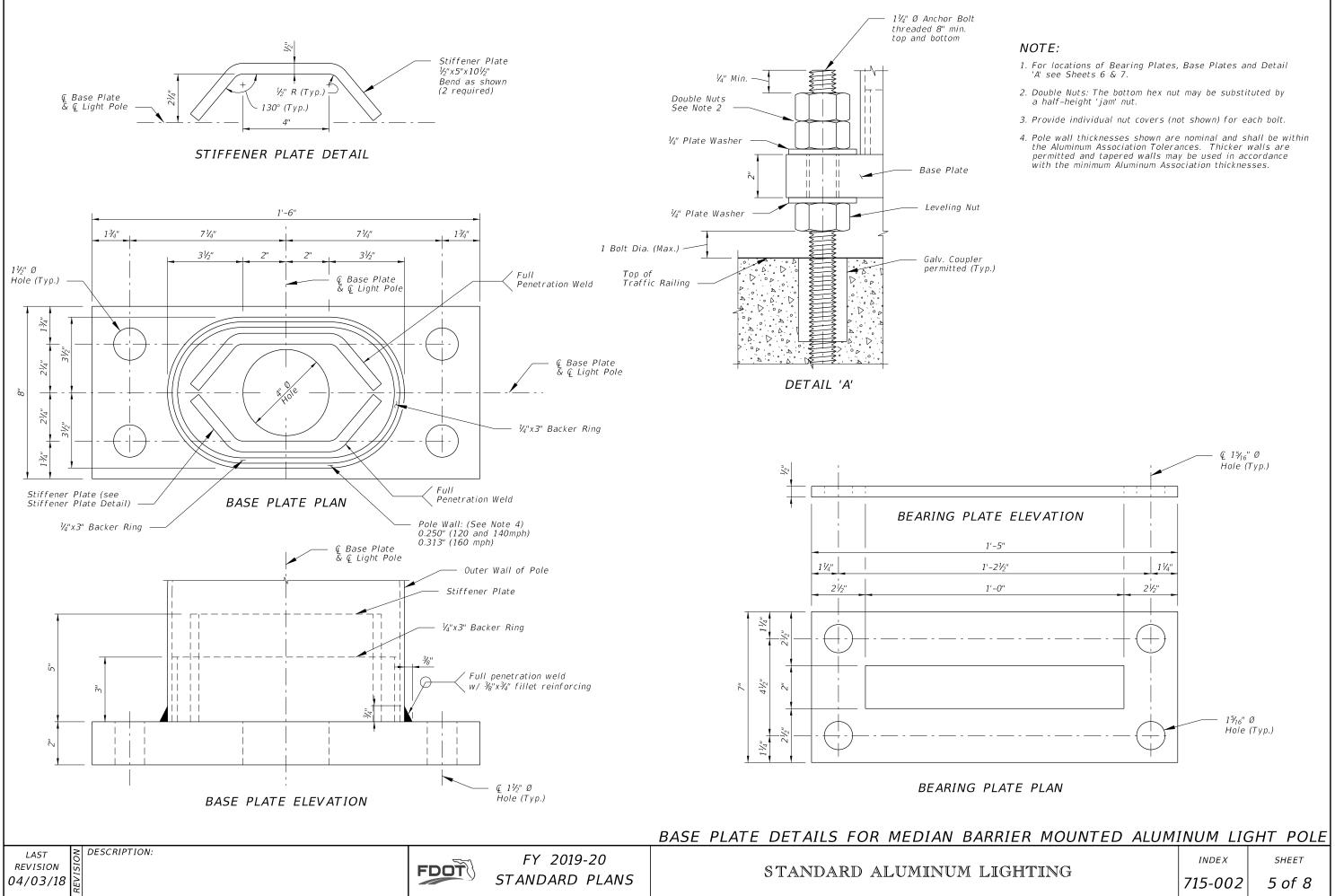
1. Pole wall thicknesses shown are nominal and must be within the Aluminum Association tolerances.

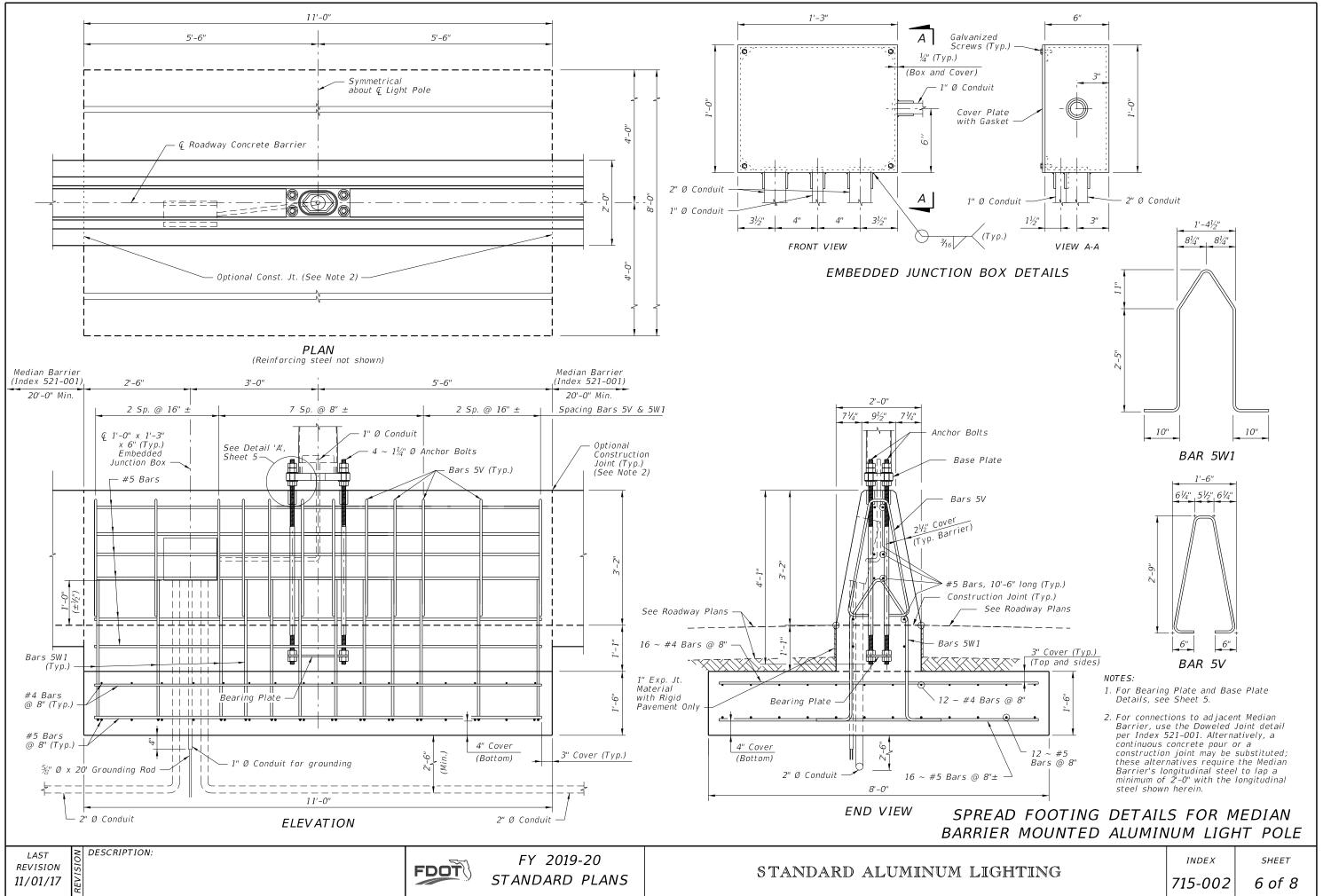
2. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.

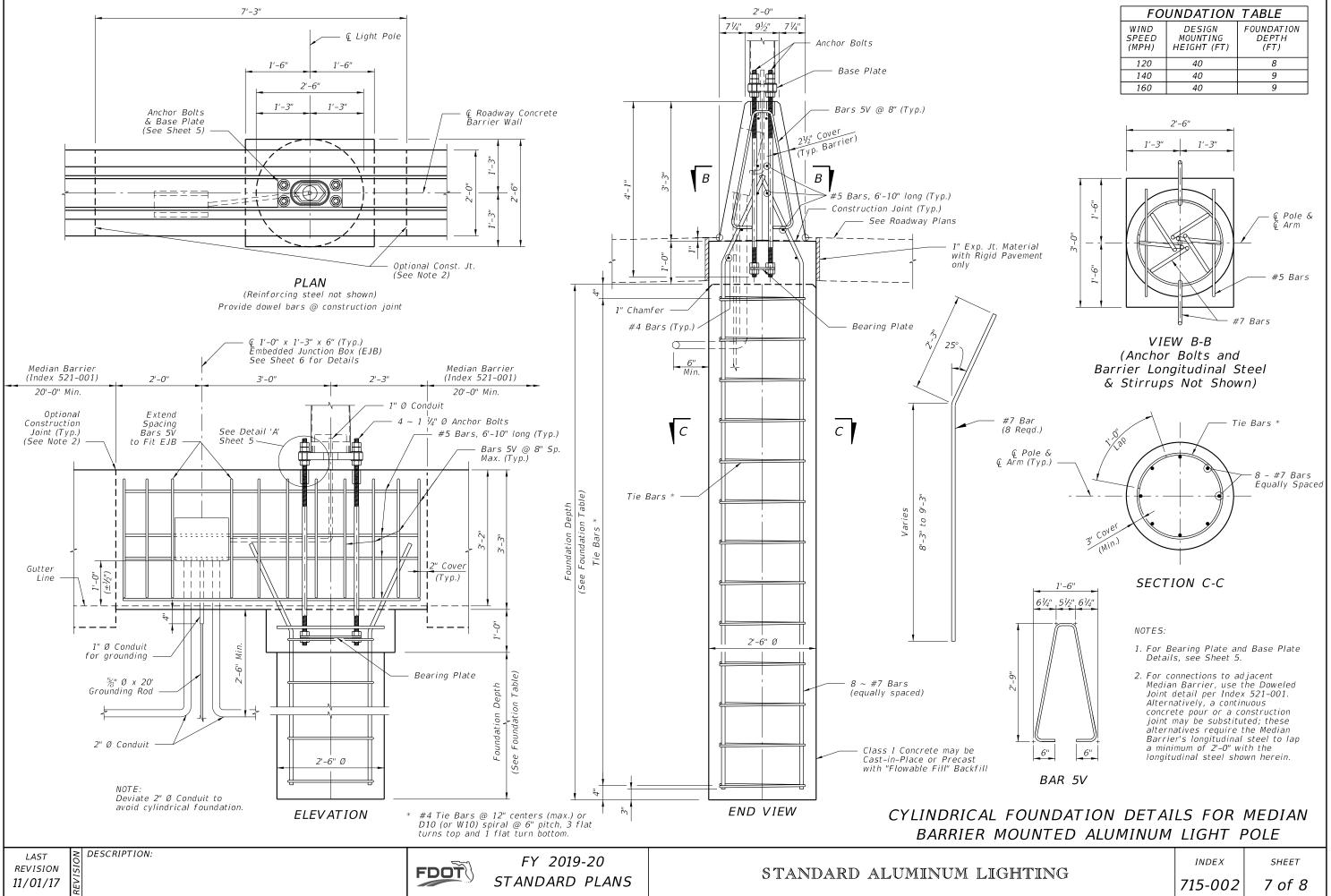
TOP MOUNT POLE TABLE			
FOR STANDARD ALUMINUM LIGHT POLES			
WITH TOP MOUNT			

sembly	Wind Speed and Arm Lengths (ft)			
leight (ft)	120 mph	140 mph	160 mph	
30		Pole P1	Pole P1	
35	Pole P1			
40				
45	Pole P2	Pole P2	Pole P2	
50	FULE FZ			

ROADWAY ALUM	IINUM LIC	GHT POLE
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