GENERAL NOTES

1. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.

2. Prior to Fabrication: Verify the installed foundation elevation will result in the required signal elevation and adjust the Pole height as needed.

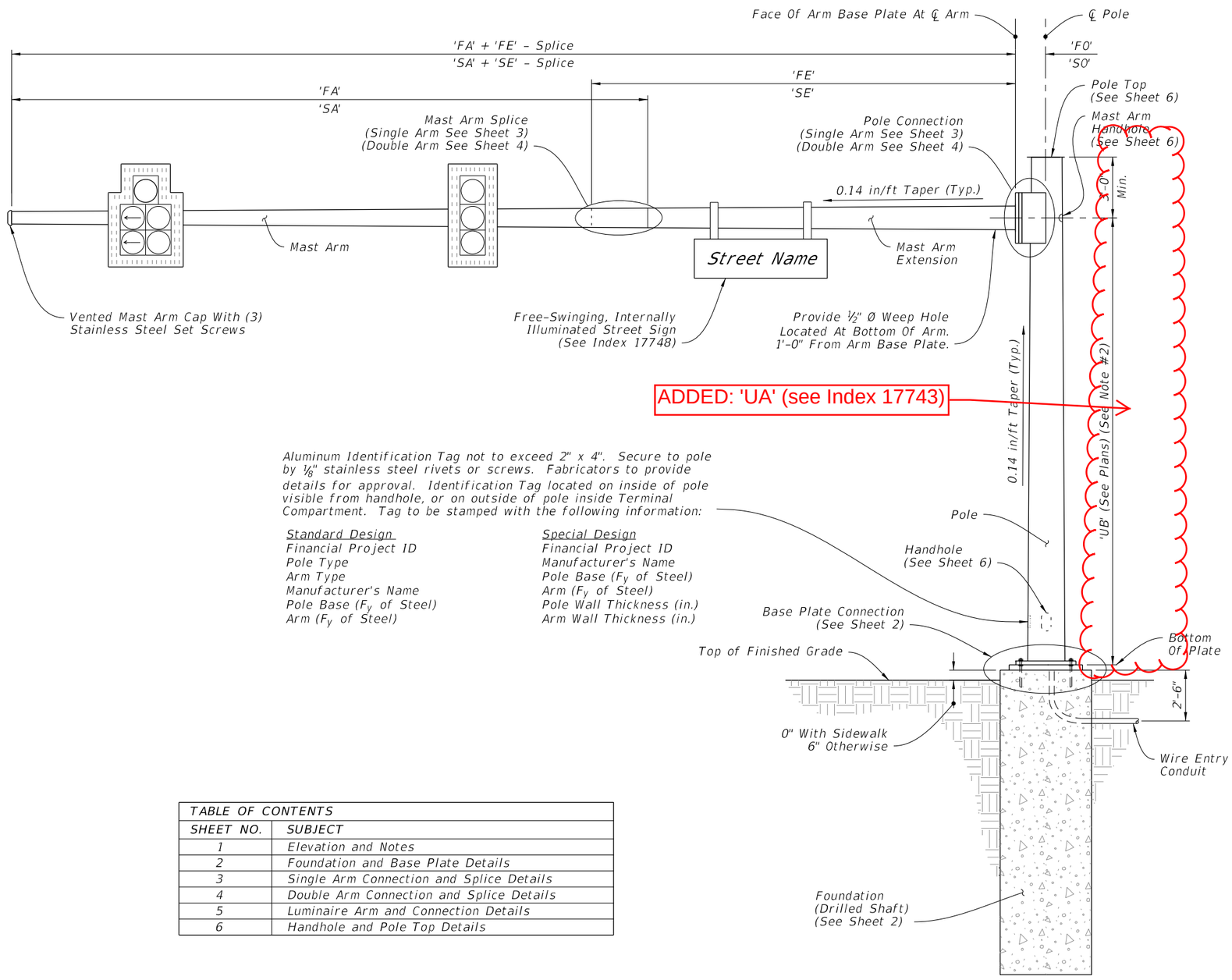
3. Details for Signal and Sign locations, Signal Head attachment, Sign attachment, Pedestrian Head attachment, and Foundation Conduit are not shown for simplicity.

4. Materials: Split-lock washers and self-locking nuts are not permitted
   - A. Poles, Mast Arms and Backing Rings:
     - a. Less than 3/16": ASTM A1011 Grade 50, 55, 60 or 65
     - b. Greater than or equal to 3/16": ASTM A572 Grade 50, 55, 60 or 65
     - c. ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield)
   - B. Steel Plates: ASTM A36
   - C. Weld Metal: E70XX
   - D. Bolts, Nuts and Washers:
     - a. High Strength Bolts: ASTM A325 Type 1
     - b. Nuts: ASTM A563 DH Heavy-Hex
     - c. Washers: ASTM F436 Type 1, one under turned element
   - E. Anchor Bolts, Nuts and Washers:
     - a. Anchor Bolts: ASTM F1554 Grade 55
     - b. Nuts: ASTM A563 Grade A Heavy-Hex (5 per anchor bolt)
     - c. Plate Washers: ASTM A36 (2 per bolt)
   - F. Threaded Bars/Studs: ASTM A36 or ASTM A307
   - G. Handhole Frame: ASTM A709 or ASTM A36, Grade 36
   - H. Handhole Cover: ASTM A1011 Grade 50, 55, 60 or 65
   - I. Aluminum Pole Caps and Nut Covers: ASTM B26 (319-F)
   - J. Stainless Steel Screws: AISI Type 316
   - K. Concrete: Class IV (Drilled Shaft) for all environmental classifications.
   - L. Reinforcing Steel: Specification Section 415

5. Fabrication:
   - A. Pole and Mast Arm Taper: Change diameter at a rate of 0.14 inches per foot.
   - B. Upright splices are not allowed. Transverse welds are only permitted at the base.
   - C. First and Second arm camber angle = 2°
   - D. Provide bolt hole diameters as follows:
     - a. Bolts (except Anchor Bolts): Bolt diameter plus 1/16", prior to galvanizing.
     - b. Anchor Bolts: Bolt diameter plus 1/2" (Max.)
   - E. Locate handhole 90° from arm on single arm poles or 90° from first arm of double arm poles facing away from traffic or see special instructions on the Mast Arm Tabulation Sheet.
   - F. Provide a 'J' or 'C' hook at the top of the pole for signal wiring support (See Sheet 6).
   - G. Perform all welding in accordance with Specification Section 460-6.4.
   - H. Hot Dip Galvanize after fabrication.

6. Coatings:
   - A. All Nuts, Bolts, Washers and Threaded Bars/Studs: ASTM F2329
   - B. All other steel items ASTM A123

7. Construction:
   - A. Foundation: Specification Section 455 Drilled Shaft, except that payment is included in the cost of the Mast Arm.
   - B. Install Pole vertically.
   - C. Place structural grout pad with drain between top of foundation and bottom of baseplate in accordance with Specification Section 649-7.
   - D. Attach Sign Panels and Signals centered on the elevation of the Mast Arm.
   - E. Wire Access holes are 1½" or less in diameter.



Aluminum Identification Tag not to exceed 2" x 4". Secure to pole by 1/8" stainless steel rivets or screws. Fabricators to provide details for approval. Identification Tag located on inside of pole visible from handhole, or on outside of pole inside Terminal Compartment. Tag to be stamped with the following information:

Standard Design	Special Design
Financial Project ID	Financial Project ID
Pole Type	Manufacturer's Name
Arm Type	Pole Base (F_y of Steel)
Manufacturer's Name	Arm (F_y of Steel)
Pole Base (F_y of Steel)	Pole Wall Thickness (in.)
Arm (F_y of Steel)	Arm Wall Thickness (in.)

TABLE OF CONTENTS

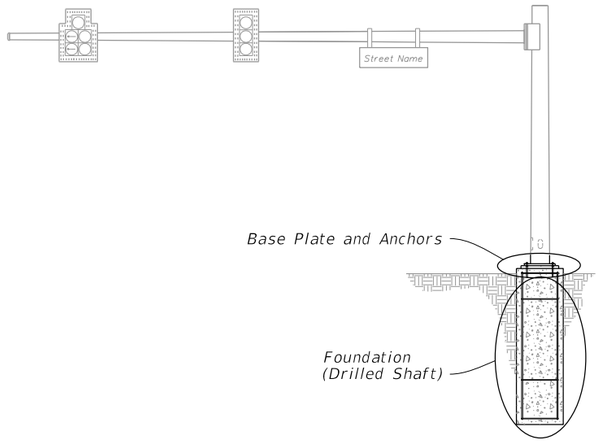
Single Arm Shown, Double Arm Similar
(Luminaire Arm Not Shown)

MAST ARM ASSEMBLY

ELEVATION AND NOTES

11/30/2015 1:01:28 PM

LAST REVISION	REVISION	DESCRIPTION:	FDOT FY 2016-17 DESIGN STANDARDS	MAST ARM ASSEMBLIES	INDEX NO.	SHEET NO.
07/01/15					17745	1 of 6



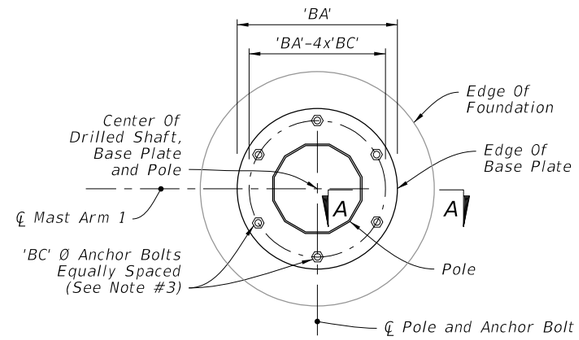
MAST ARM ASSEMBLY

NOTES:

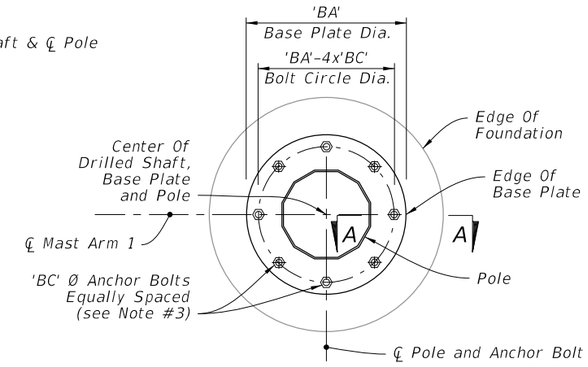
1. The Structural Grout Pad diameter may be reduced where the footprint of the Grout Pad does not provide adequate clearance for the sidewalk and/or accessibility considerations.

2. See Index No. 17743 and the plans for actual quantity of bolts.

3. The top hex nut may be substituted by a ~~½"~~ half- height 'jam' nut. Provide individual nut covers (not shown) for each bolt.

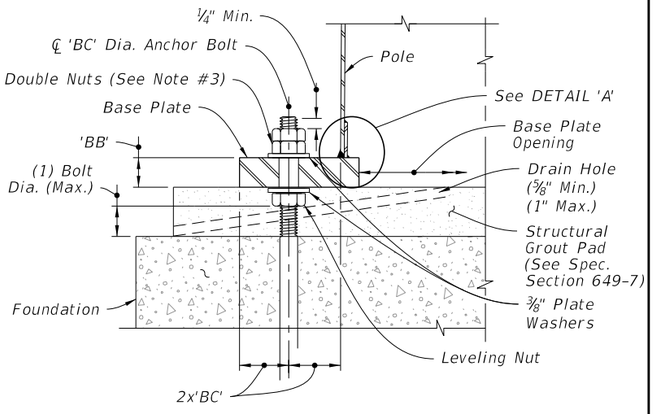


(6 Anchor Bolts)

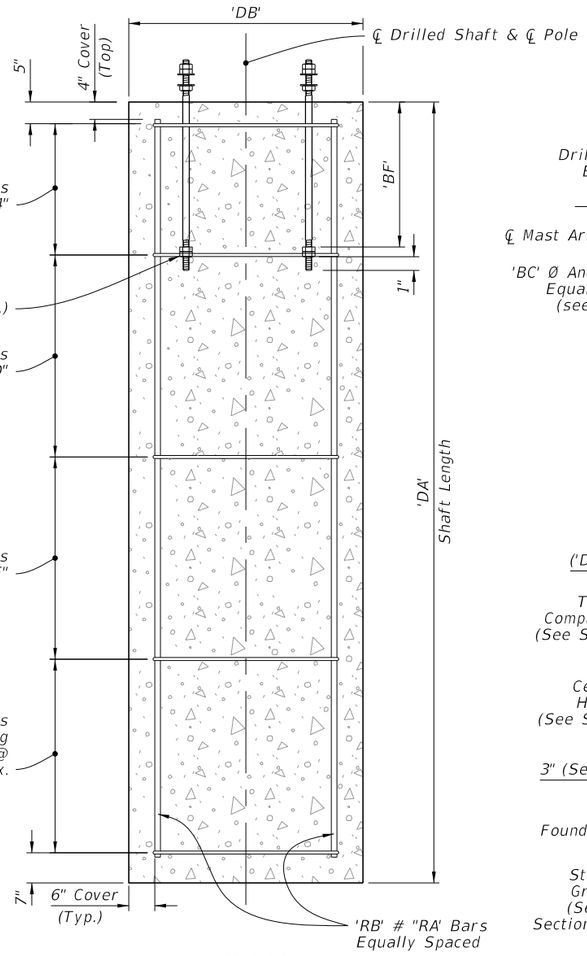


(8 Anchor Bolts)

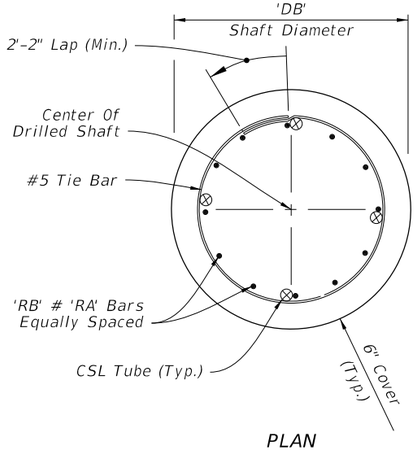
PLAN



SECTION A-A

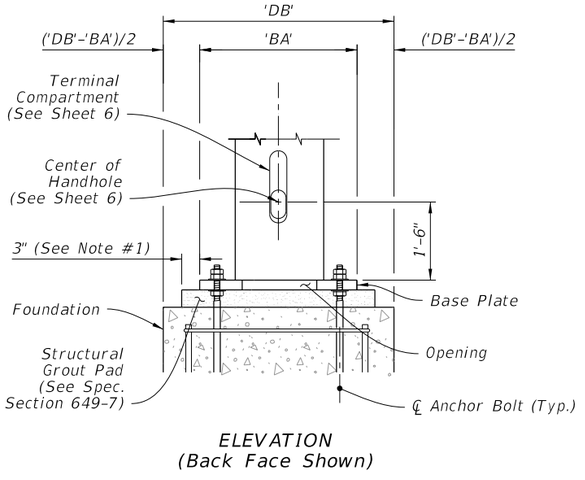


ELEVATION



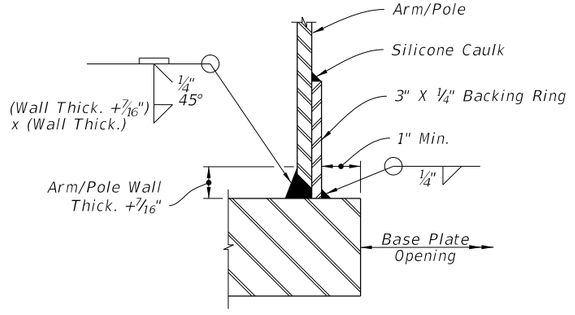
PLAN

FOUNDATION



ELEVATION
(Back Face Shown)

BASE PLATE CONNECTION



JOINT WELD DETAIL

DETAIL 'A'

FOUNDATION AND BASE PLATE DETAILS

11/30/2015 1:01:29 PM

LAST REVISION	REVISION	DESCRIPTION:			
01/01/16			FY 2016-17 DESIGN STANDARDS	MAST ARM ASSEMBLIES	INDEX NO. 17745 / SHEET NO. 2 of 6