

# ORIGINATION FORM

Proposed Revisions to a Standard Plans Index  
(Please provide all information – Incomplete forms will be returned)

## Contact Information:

Date: January 10, 2019  
Originator: **Cheryl Hudson**  
Phone: 414-5332  
Email: cheryl.hudson@dot.state.fl.us

## Standard Plans:

Index Number: **715-002**  
Sheet Number (s): 1, 2, & 4  
Index Title: Standard Aluminum Lighting

## Summary of the changes:

Sheet 1: Changed Note 4C  
Sheet 2: Added 20' & 25' mounting height  
Sheet 3: Change Strut weld dimension in ARM ELEVATION Detail  
Sheet 4: Added Pole PO information.

## Commentary / Background:

Wildlife-Friendly lighting. Add 20 & 25' standard light poles for use where deemed necessary by EMO.

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes                      | No                                  |                             |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans –      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual –        |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input type="checkbox"/>            | Standard Specifications –   |
| <input type="checkbox"/> | <input type="checkbox"/>            | Approved Product List –     |
| <input type="checkbox"/> | <input type="checkbox"/>            | Construction –              |
| <input type="checkbox"/> | <input type="checkbox"/>            | Maintenance –               |

## Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes                                 | N/A                                 |   |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Redline Mark-ups                          |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Proposed Standard Plan Instructions (SPI) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Revised SPI                               |
| <input type="checkbox"/>            | <input type="checkbox"/>            | Other Support Documents                   |

## Implementation:

- Design Bulletin (Interim)    DCE Memo    Program Mgmt. Bulletin    FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

**GENERAL NOTES:**

1. Poles are designed to support the following:
  - A. Luminaire Effective Projected Area (EPA): 1.55 SF
  - B. Weight: 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
  - D. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36
  - E. Aluminum Weld Material: ER 4043
  - F. 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 O.D. of 6" and a base O.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" O.D. round top with an 11" x 7" O.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 Fabrication.
    - 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 1/4" wall thickness achieves an 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 5/16" 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 1/8" 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

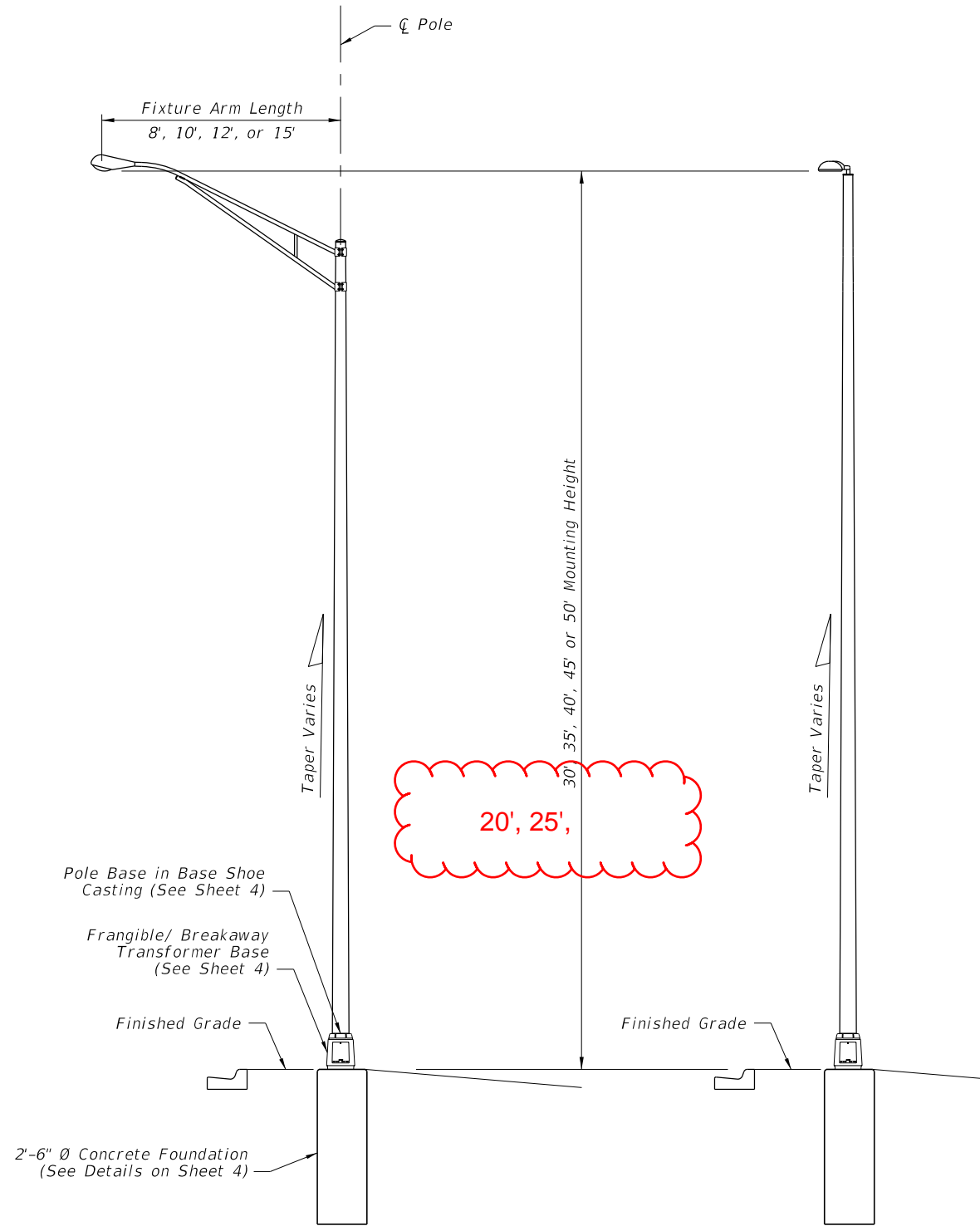
5. Coatings/Finish:
  - A. Pole and Arm Finish: 50 grit satin rubbed.
  - B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
  - C. Hot Dip Galvanize EJB and other steel items including poles and plate washers: ASTM A123
6. Construction:
  - A. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
  - B. Frangible Base, Base Shoe, and Clamp:
    - a. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity.
    - b. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under 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:
 

<b>120 MPH</b> 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.
<b>140 MPH</b> 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.
<b>160 MPH</b> Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.

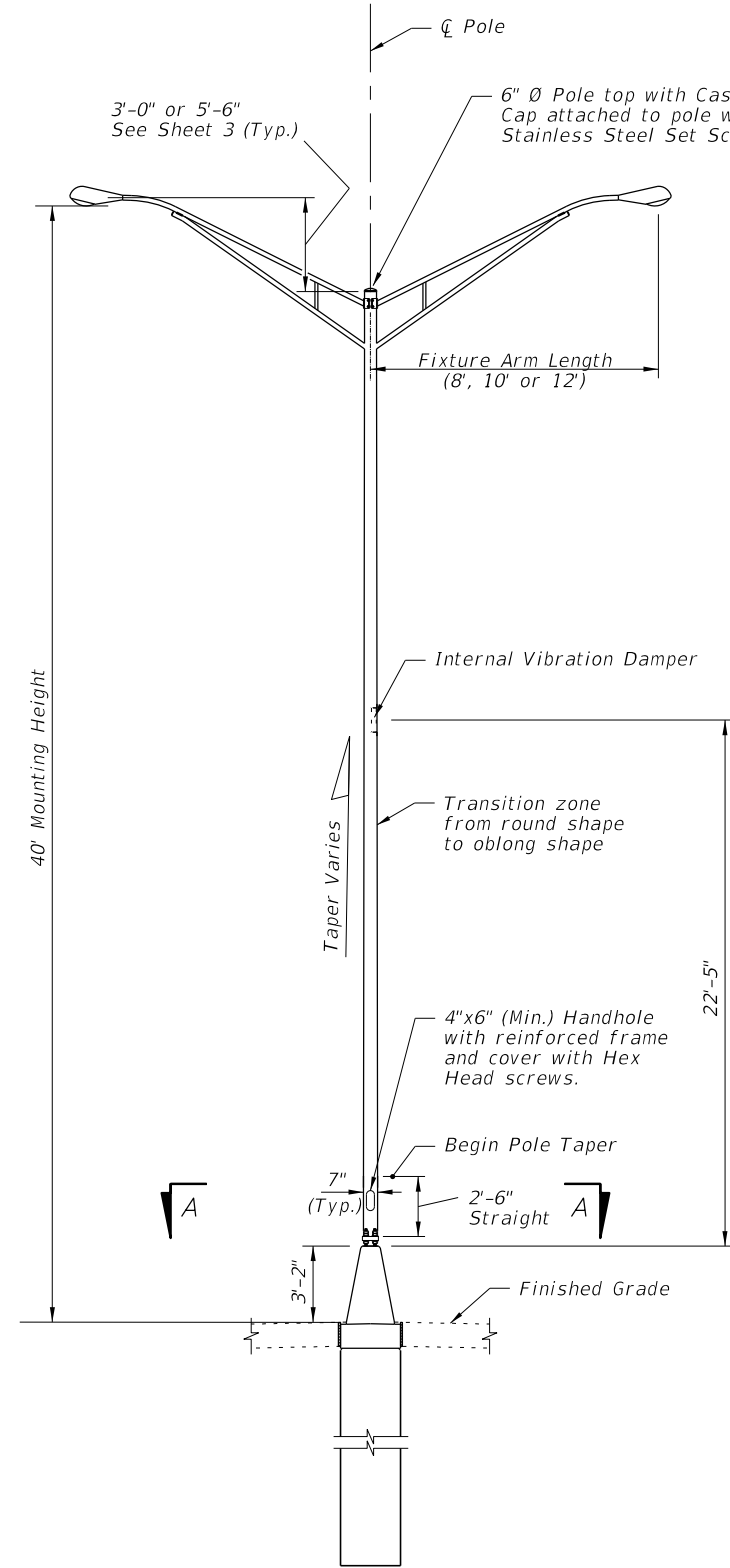
8" for 20' and 25' mounting heights and a 10" O.D. for poles with 30' to 50' mounting heights.

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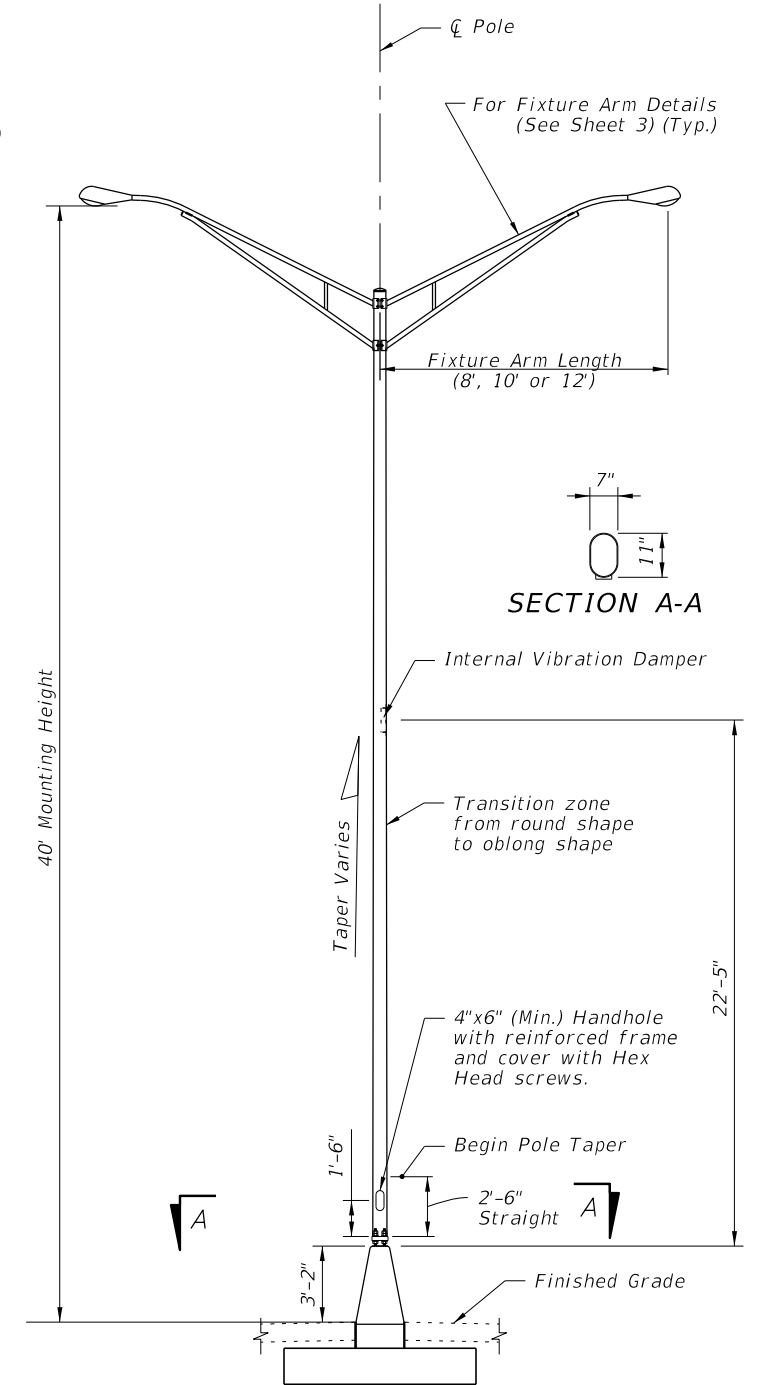
LAST REVISION <del>04/03/18</del>	REVISION <b>11/01/19</b>	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	STANDARD ALUMINUM LIGHTING	INDEX 715-002	SHEET 1 of 8
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STANDARD ROADWAY ALUMINUM LIGHT POLE W/ARM



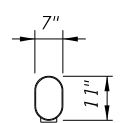
MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE ON CYLINDRICAL FOUNDATION



MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE ON SPREAD FOOTING FOUNDATION

20', 25'

SECTION A-A



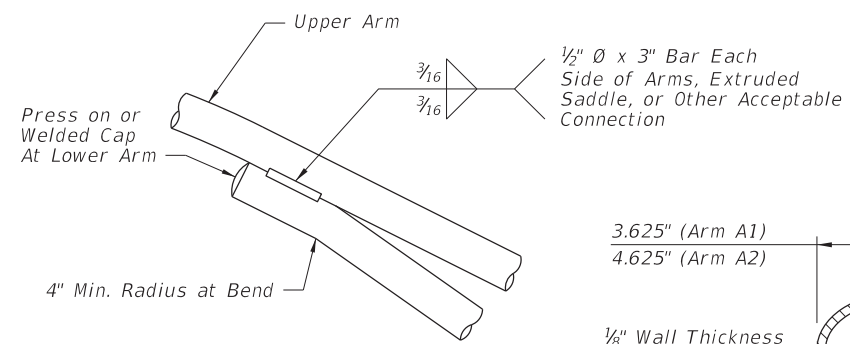
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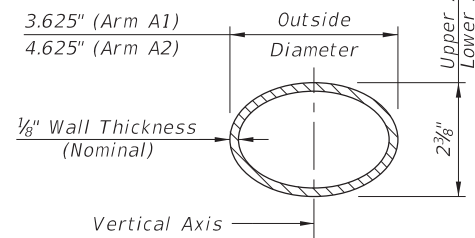
**FDOT** FY 2019-20 STANDARD PLANS

STANDARD ALUMINUM LIGHTING

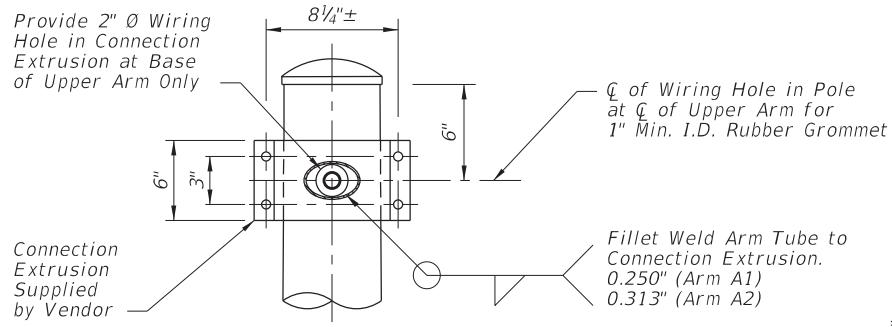
ELEVATIONS  
INDEX 715-002 SHEET 2 of 8



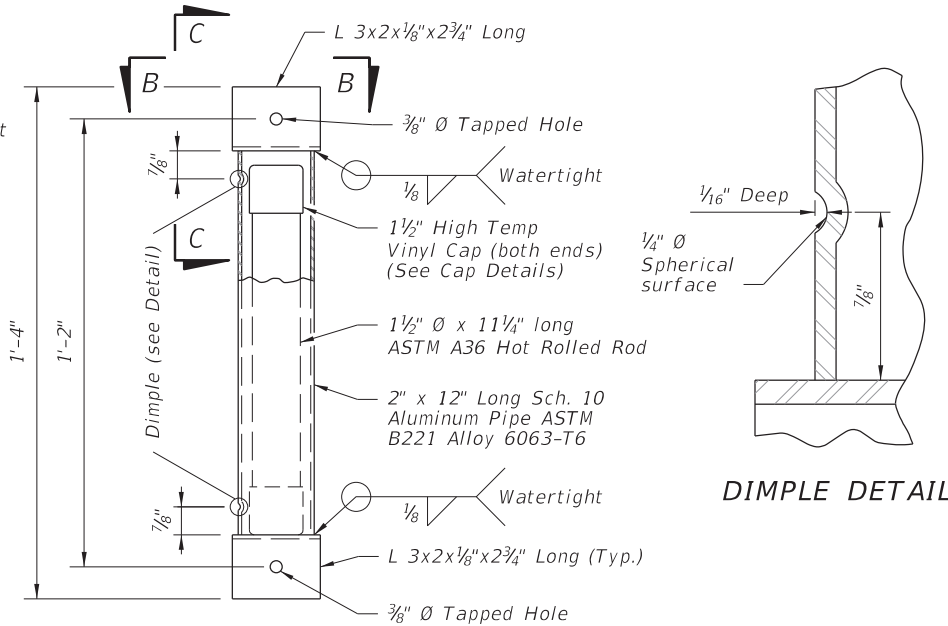
ARM CONNECTION DETAIL



ARM SECTION

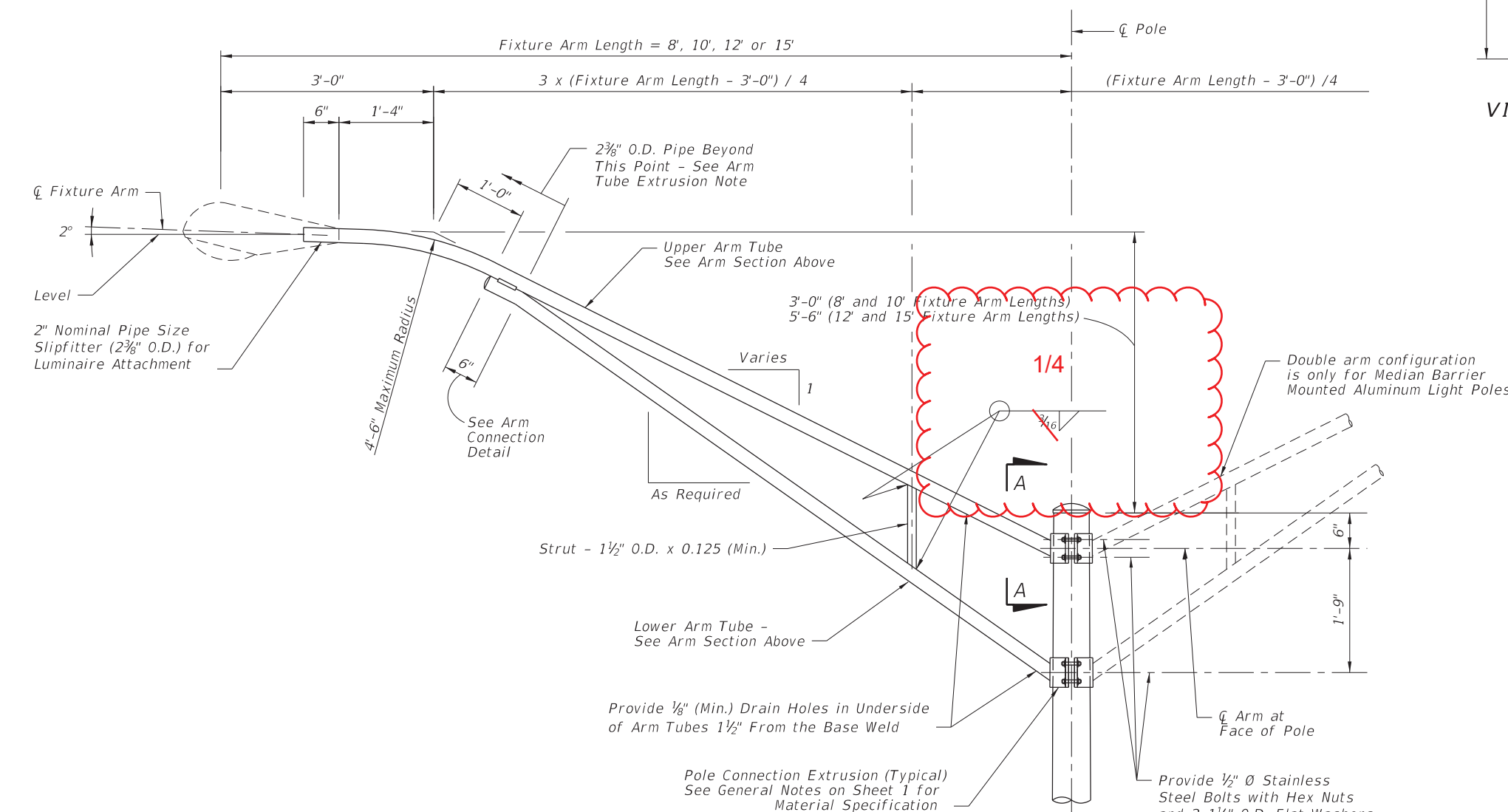


SECTION A-A  
(Connection At Lower Arm Similar)

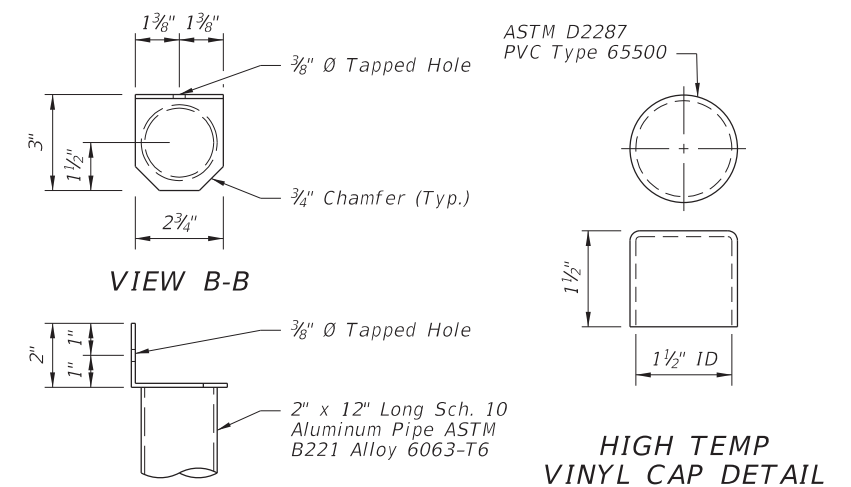


VIBRATION DAMPER ELEVATION

DIMPLE DETAIL



ARM ELEVATION



VIEW B-B

VIEW C-C

HIGH TEMP VINYL CAP DETAIL

ARM TUBE EXTRUSIONS NOTES:

At the pole connections, provide arm tube extrusions with dimensions as shown. Uniformly transition elliptical section to a cylindrical section at the arm connection.

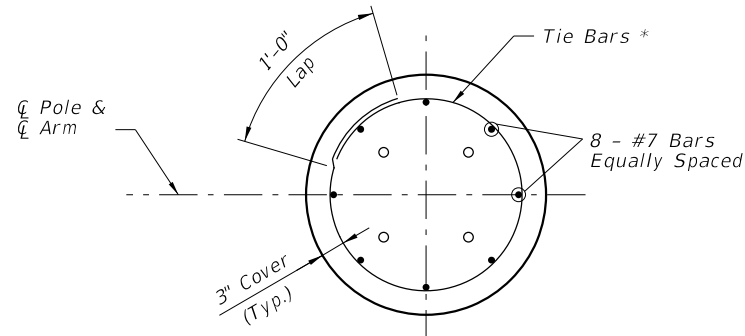
The fabricator may substitute elliptical cross sections other than those tabulated, provided the section properties about the vertical axis and the area of the section equal or exceed that of the required section, and provide minimum wall thickness of 1/8 nominal and within the Aluminum Association Tolerances.

The outside diameter about the minor axis should be held at 2 3/8 at the upper and lower arms.

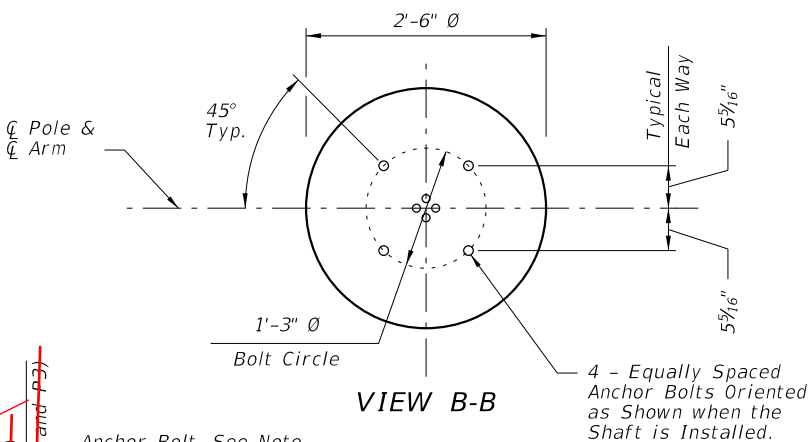
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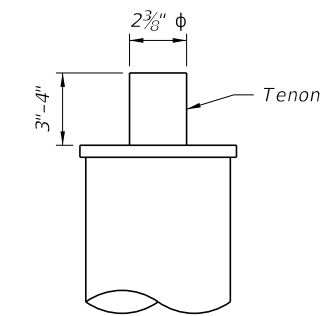
LAST REVISION	DESCRIPTION:
04/03/18	



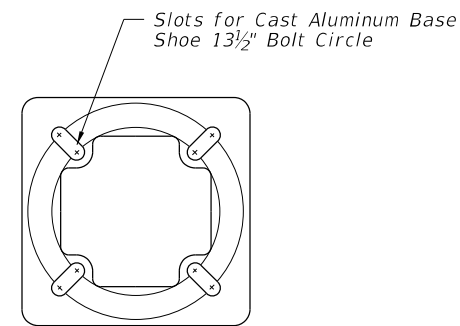
SECTION C-C



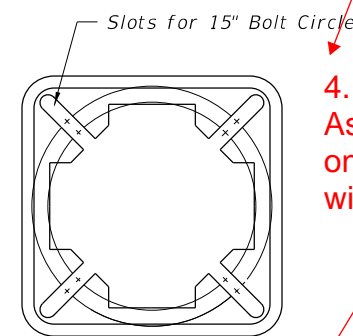
VIEW B-B



TOP MOUNT TENON



TOP VIEW TRANSFORMER BASE



BOTTOM VIEW TRANSFORMER BASE

ARM-POLE TABLE					
FOR STANDARD ALUMINUM LIGHT POLES WITH ARM					
Assembly Height (ft)	Wind Speed and Arm Lengths (ft)				
	120 mph	140 mph	160 mph		
	8, 10, 12, 15	8, 10, 12	15	8, 10	12, 15
30	A1-P1	A1-P1	A2-P1	A1-P1	A2-P1
35				A1-P2	A2-P2
40				A1-P3	A2-P3
45	A1-P2	A1-P2	A2-P2	A1-P2	A2-P2
50				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.

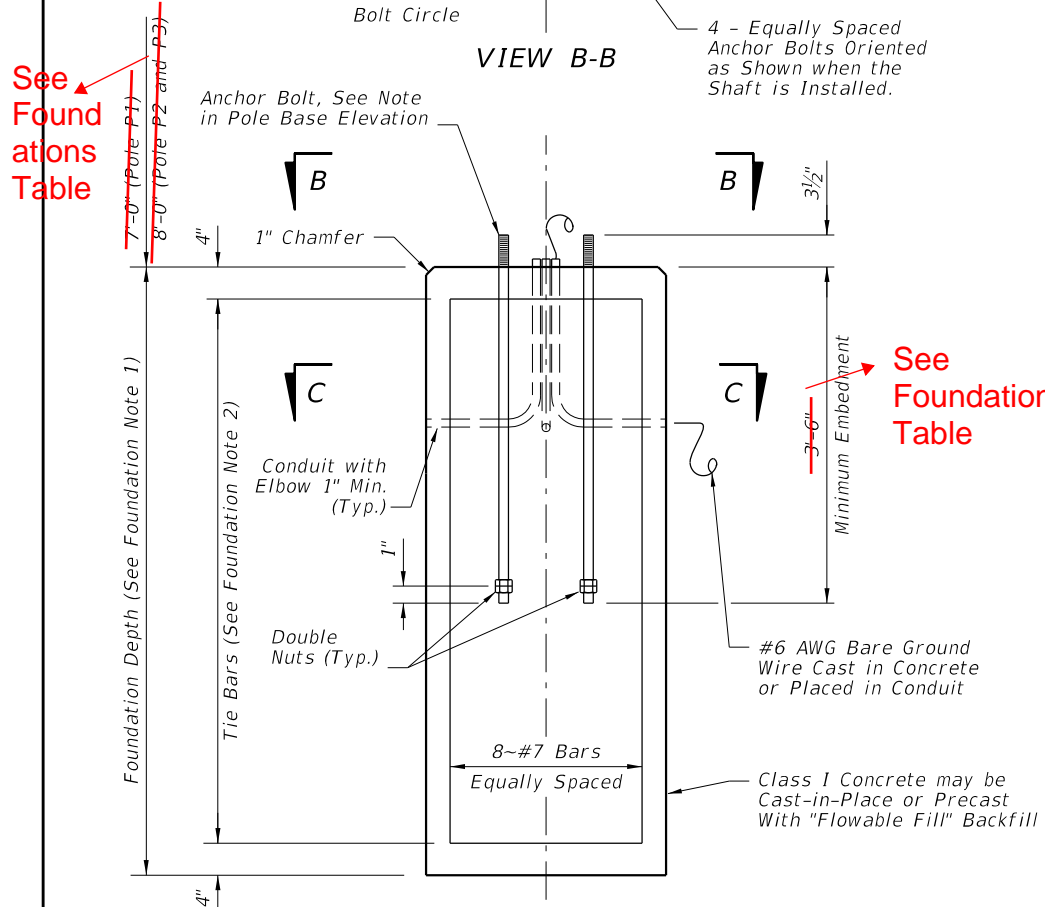
POLE TABLE			
Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld
P1	0.156	3/16"	5/32"
P2	0.250	1/4"	1/4"
P3	0.313	5/16"	5/16"

- 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.

See Foundations Table

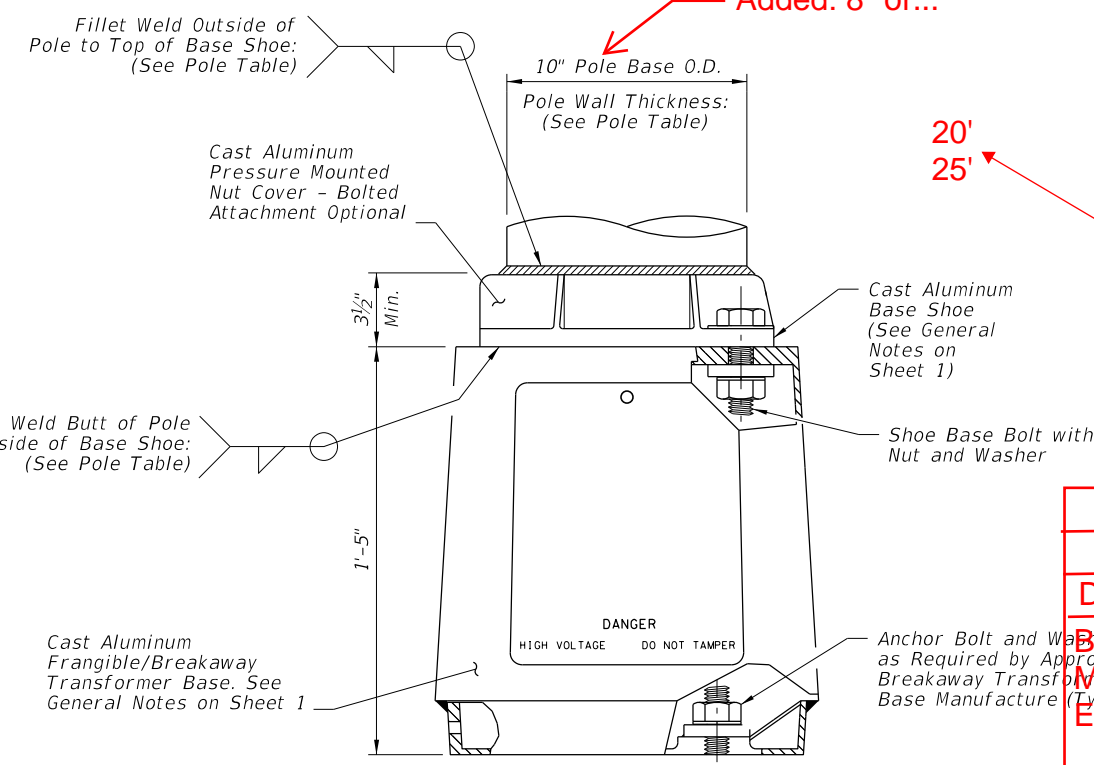
4. For 20' and 25' Assembly Heights use only 8' or 10' arm A1 with P0.

P0 0.156 3/16 5/32



- FOUNDATION NOTES:
1. Depths shown are for slopes flatter than 1:4, for slopes 1:2 or flatter, add 2'-6" to foundation depths shown.
  2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.

FOUNDATION



POLE BASE ELEVATION

TOP MOUNT POLE TABLE			
FOR STANDARD ALUMINUM LIGHT POLES WITH TOP MOUNT			
Assembly Height (ft)	Wind Speed and Arm Lengths (ft)		
	120 mph	140 mph	160 mph
30	Pole P1	Pole P1	Pole P1
35	Pole P1	Pole P1	Pole P1
40			
45	Pole P2	Pole P2	Pole P2
50			

FOUNDATIONS				
	P0	P1	P2	P3
DEPTH	6'-0"	7'-0"	8'-0"	8'-0"
BOLT MINIMUM EMBEDMENT	2'-6"	3'-6"	3'-6"	3'-6"

POLE AND BASE DETAILS FOR ROADWAY ALUMINUM LIGHT POLE

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LAST REVISION	DESCRIPTION:
04/03/18	11/01/19

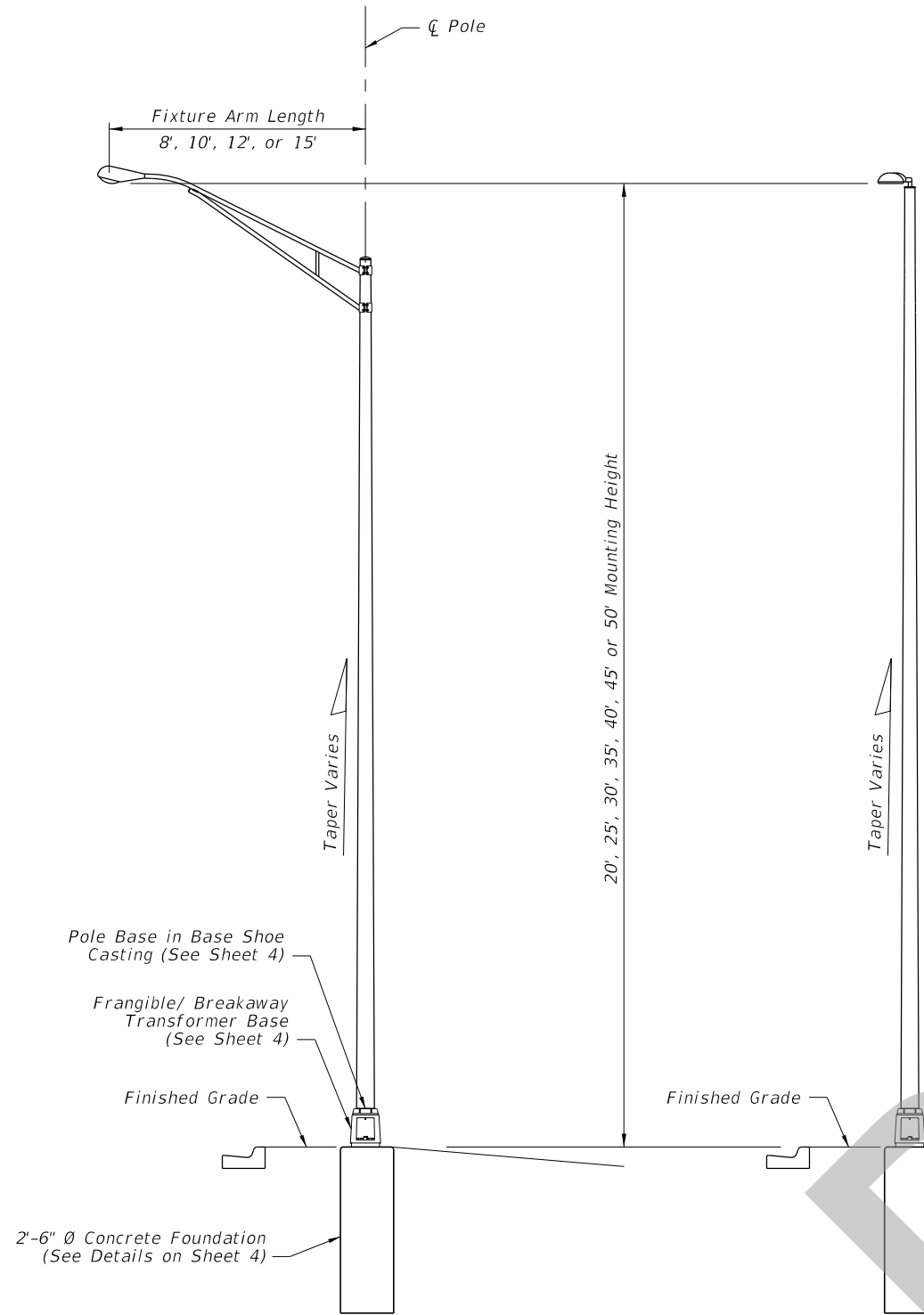
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  - B. Weight: 75 lb.
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  - C. Caps and Covers: ASTM B-26, Alloy 319-F
  - D. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36
  - E. Aluminum Weld Material: ER 4043
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  - G. Bolts, Nuts and Washers:
    - a. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
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    - c. Plate Washer: ASTM A36
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  - 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.
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  - C. Roadway Light Pole Taper: Taper as required to provide a round top O.D. of 6" and a base O.D. of 8" for 20' and 25' mounting heights and 10" O.D. for poles with 30' to 50' mounting heights. Portions of the pole near the base shoe and at the arm connections may be held constant to simplify fabrication.
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    - a. Weld all seams continuously and grind smooth.
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    - 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 1/8" diameter stainless steel rivets or screws.
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      3. Manufacturer's Name
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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:
    - a. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity.
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    - 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:
 

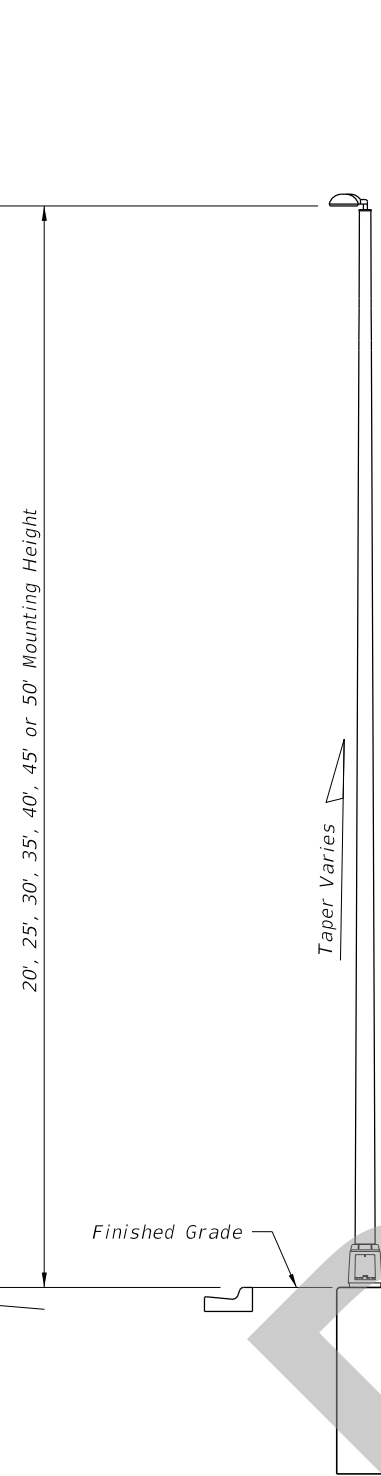
<p><b>120 MPH</b> Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.</p>	<p><b>140 MPH</b> Bay, Citrus, De Soto, Flagler, Franklin, Glades, 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.</p>
<p><b>160 MPH</b> Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.</p>	

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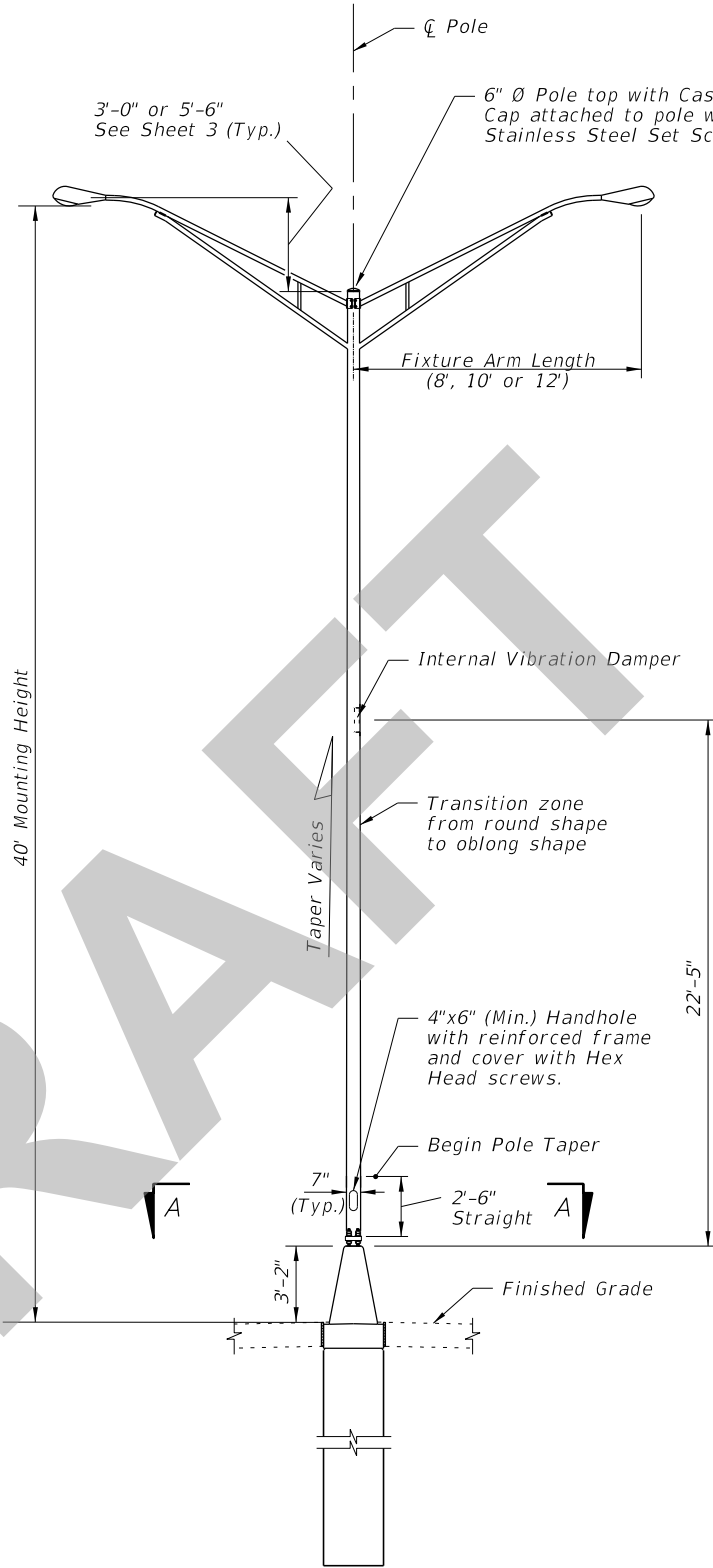
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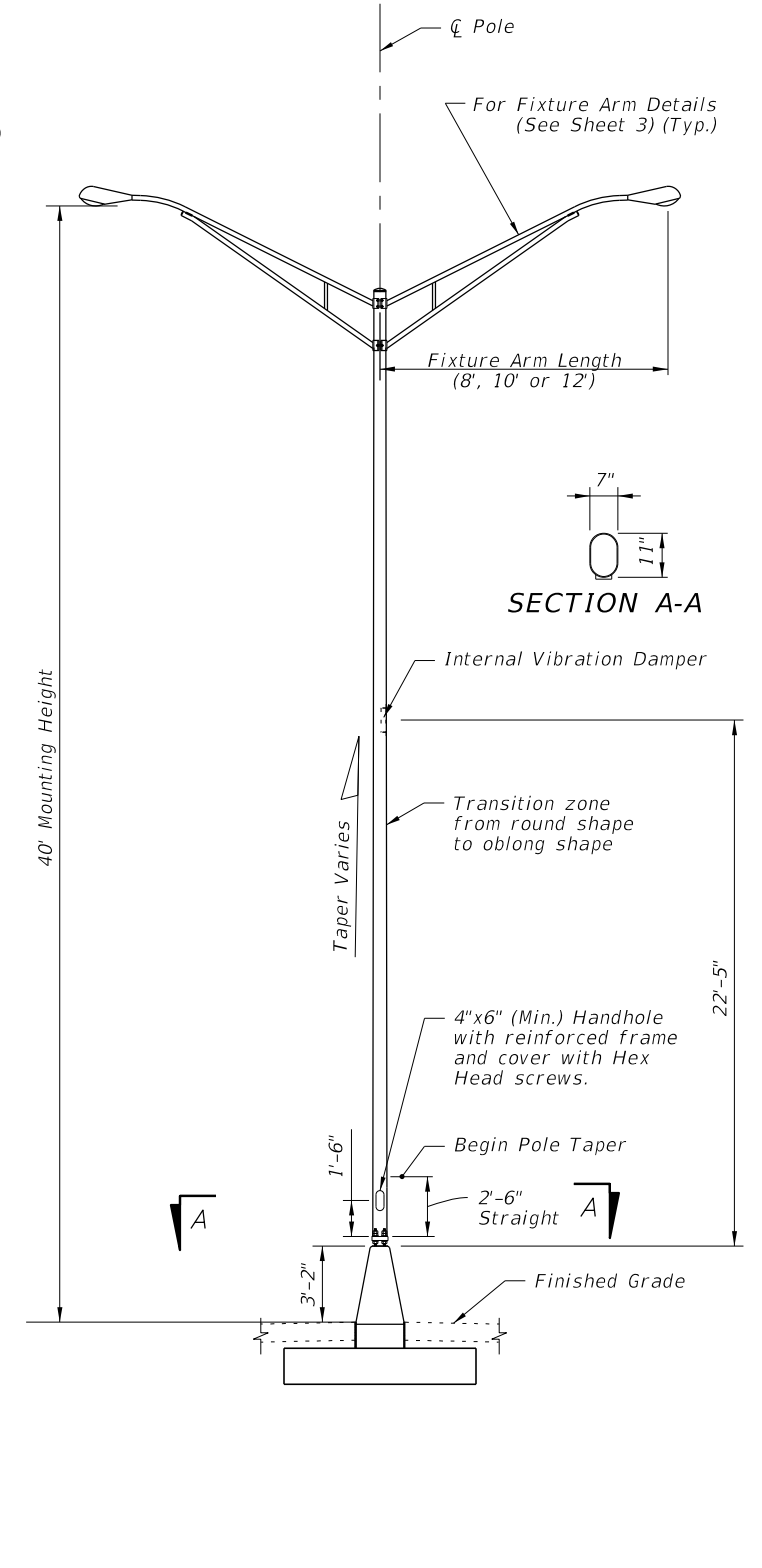
STANDARD ROADWAY  
ALUMINUM LIGHT POLE  
W/ARM



STANDARD ROADWAY  
ALUMINUM LIGHT POLE  
W/TOP MOUNT

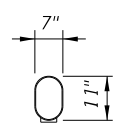


MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE  
ON CYLINDRICAL FOUNDATION



MEDIAN BARRIER MOUNTED ALUMINUM LIGHT POLE  
ON SPREAD FOOTING FOUNDATION

SECTION A-A



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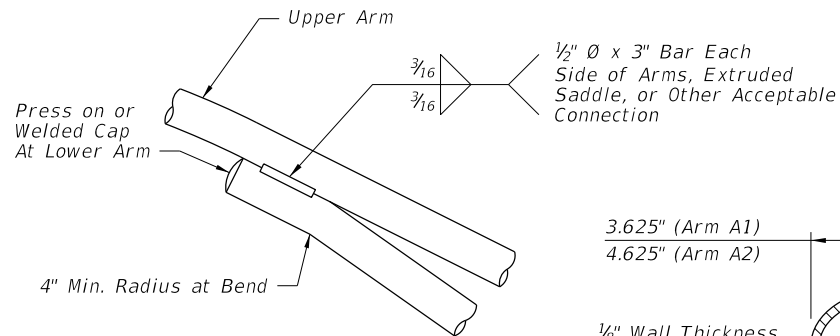
LAST REVISION 11/01/19	DESCRIPTION:
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 FY 2020-21  
STANDARD PLANS

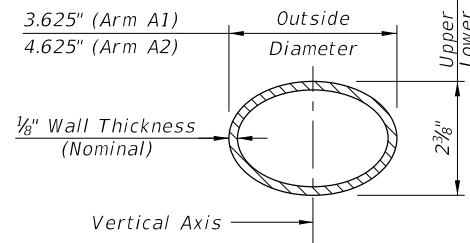
STANDARD ALUMINUM LIGHTING

INDEX 715-002	SHEET 2 of 8
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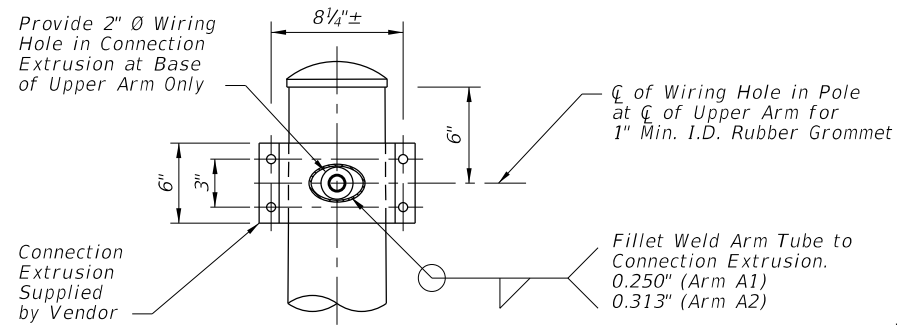
ELEVATIONS



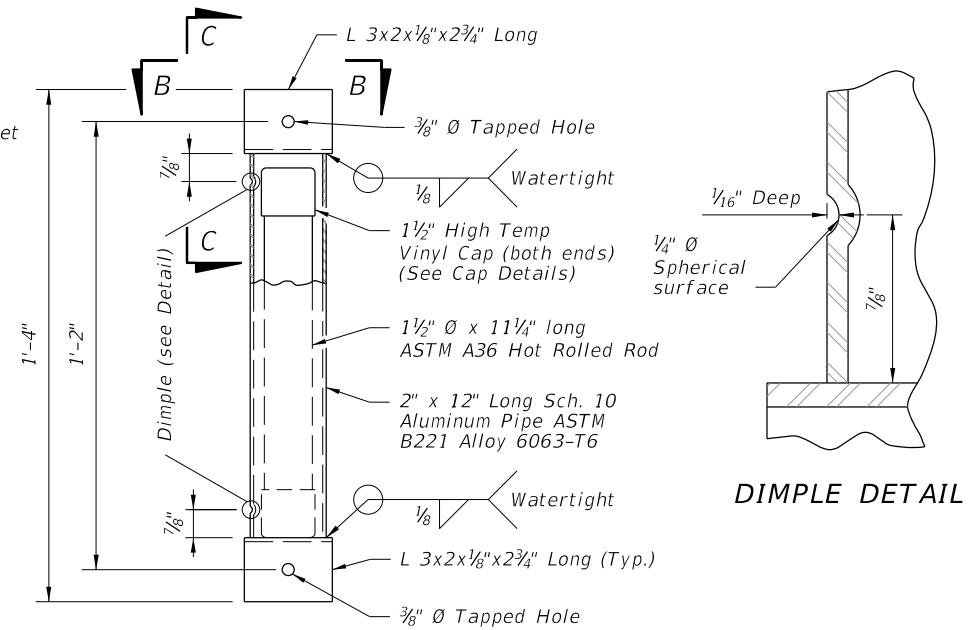
**ARM CONNECTION DETAIL**



**ARM SECTION**

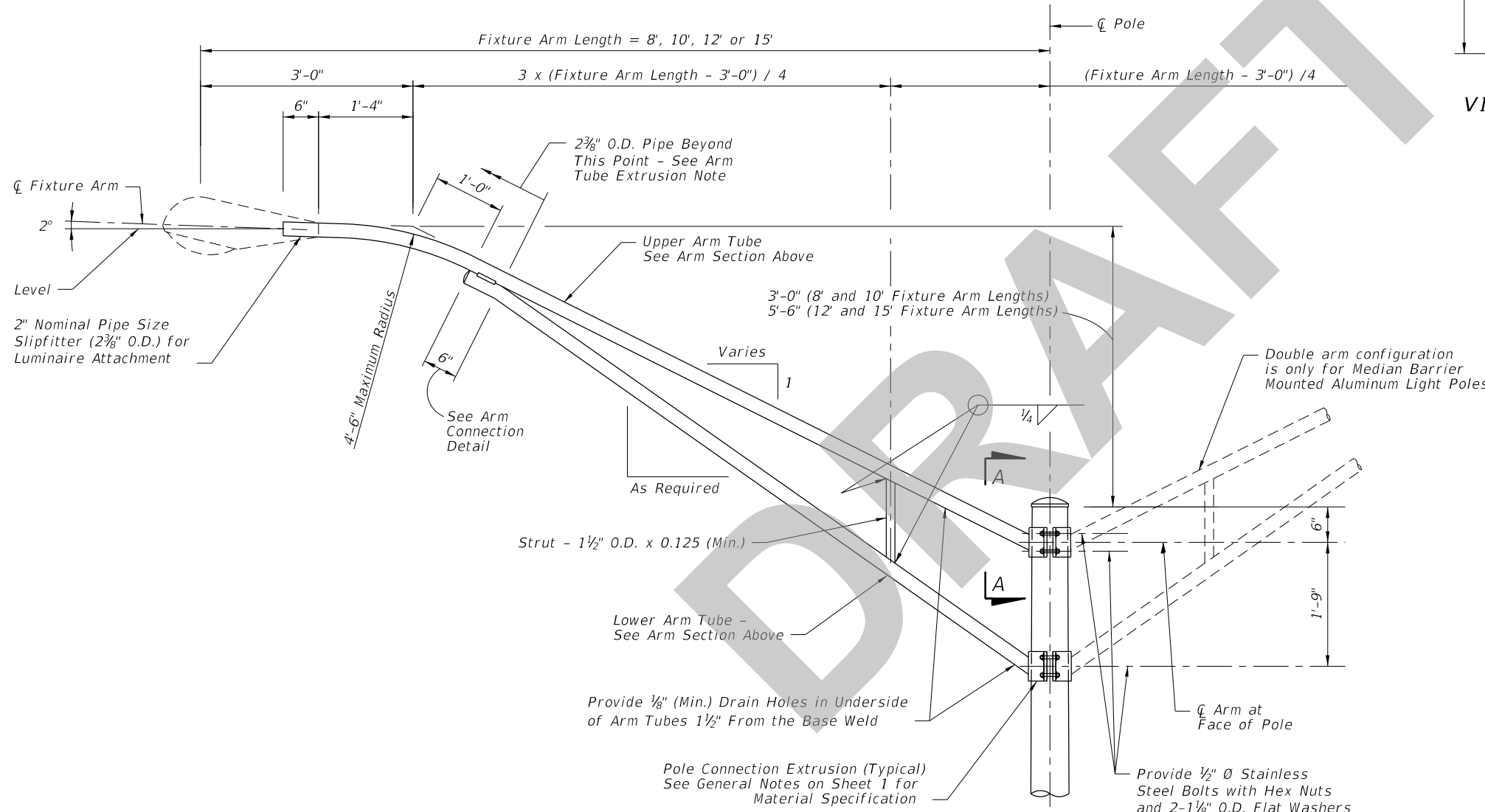


**SECTION A-A**  
(Connection At Lower Arm Similar)

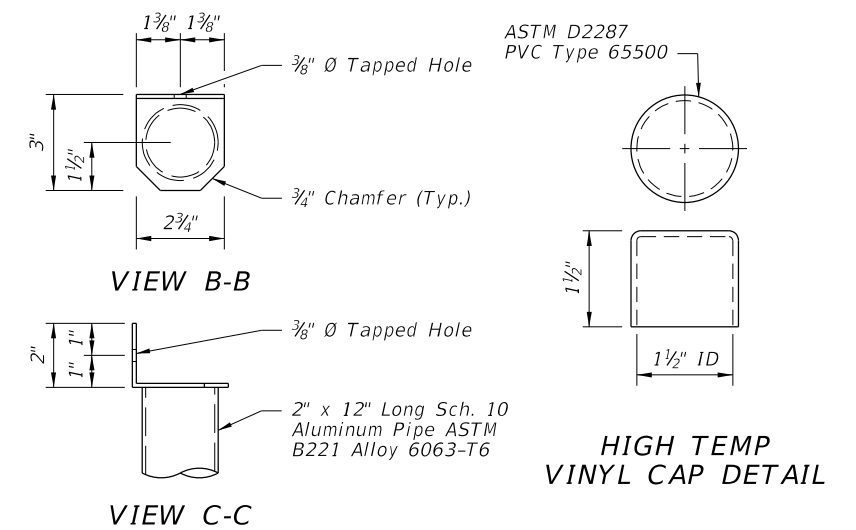


**VIBRATION DAMPER ELEVATION**

**DIMPLE DETAIL**



**ARM ELEVATION**



**VIEW B-B**

**VIEW C-C**

**HIGH TEMP VINYL CAP DETAIL**

**ARM TUBE EXTRUSIONS NOTES:**

At the pole connections, provide arm tube extrusions with dimensions as shown. Uniformly transition elliptical section to a cylindrical section at the arm connection.

The fabricator may substitute elliptical cross sections other than those tabulated, provided the section properties about the vertical axis and the area of the section equal or exceed that of the required section, and provide minimum wall thickness of 1/8" nominal and within the Aluminum Association Tolerances.

The outside diameter about the minor axis should be held at 2 3/8" at the upper and lower arms.

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LAST REVISION 11/01/19	DESCRIPTION:
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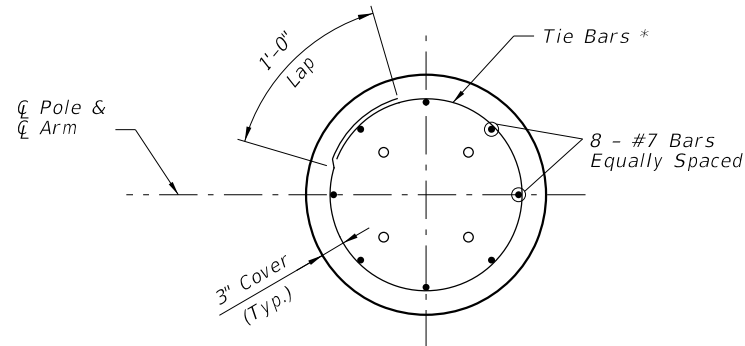

**FY 2020-21  
STANDARD PLANS**

**STANDARD ALUMINUM LIGHTING**

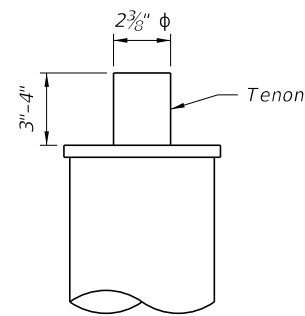
INDEX 715-002	SHEET 3 of 8
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**ARM & DAMPER DETAILS**

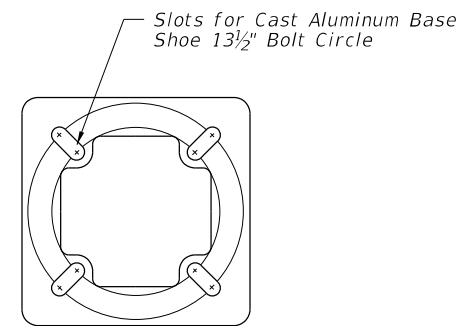




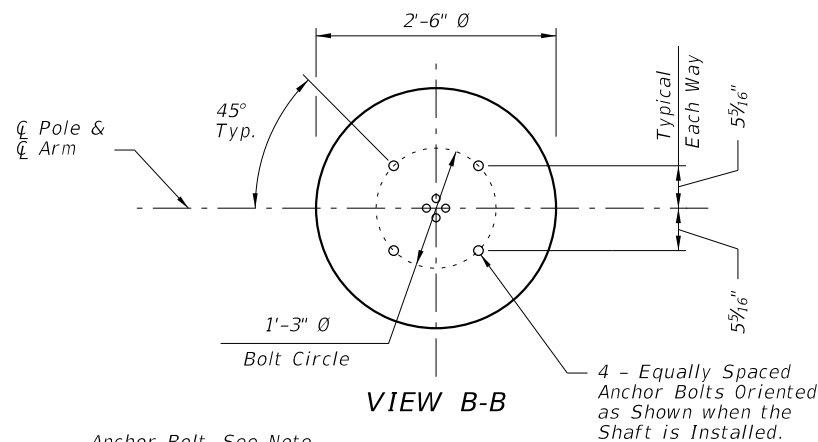
SECTION C-C



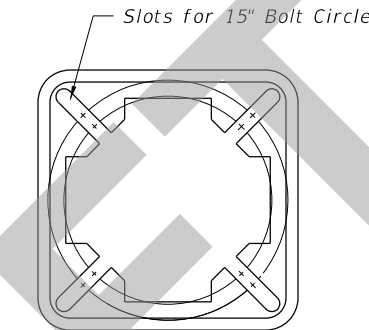
TOP MOUNT TENON



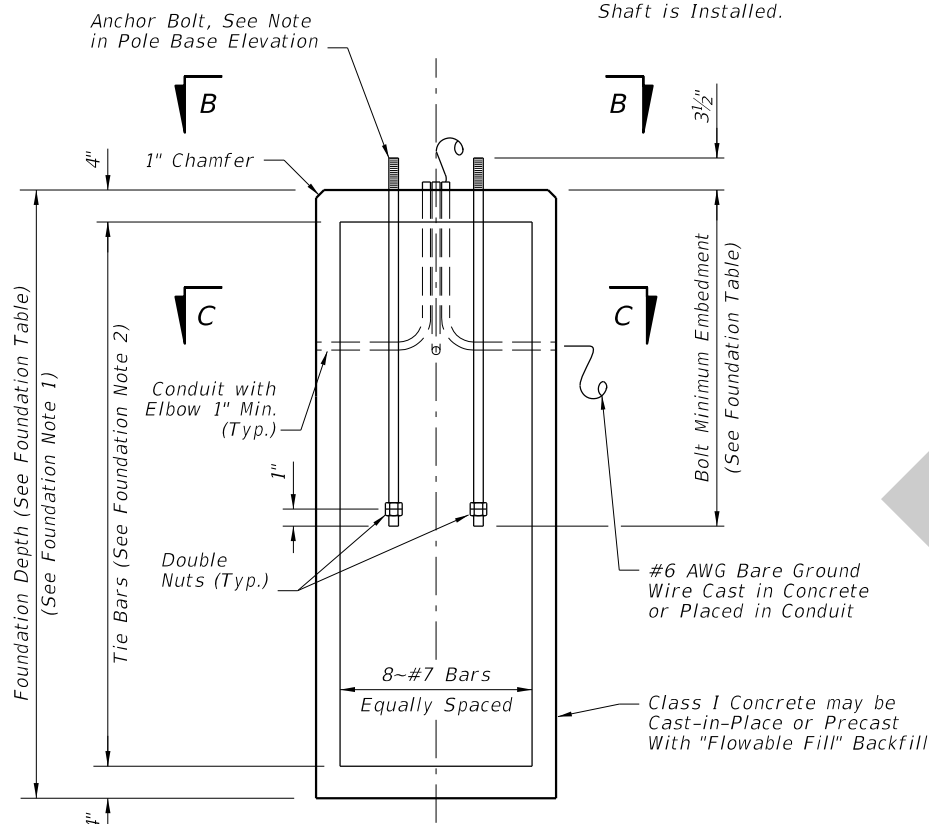
TOP VIEW TRANSFORMER BASE



VIEW B-B



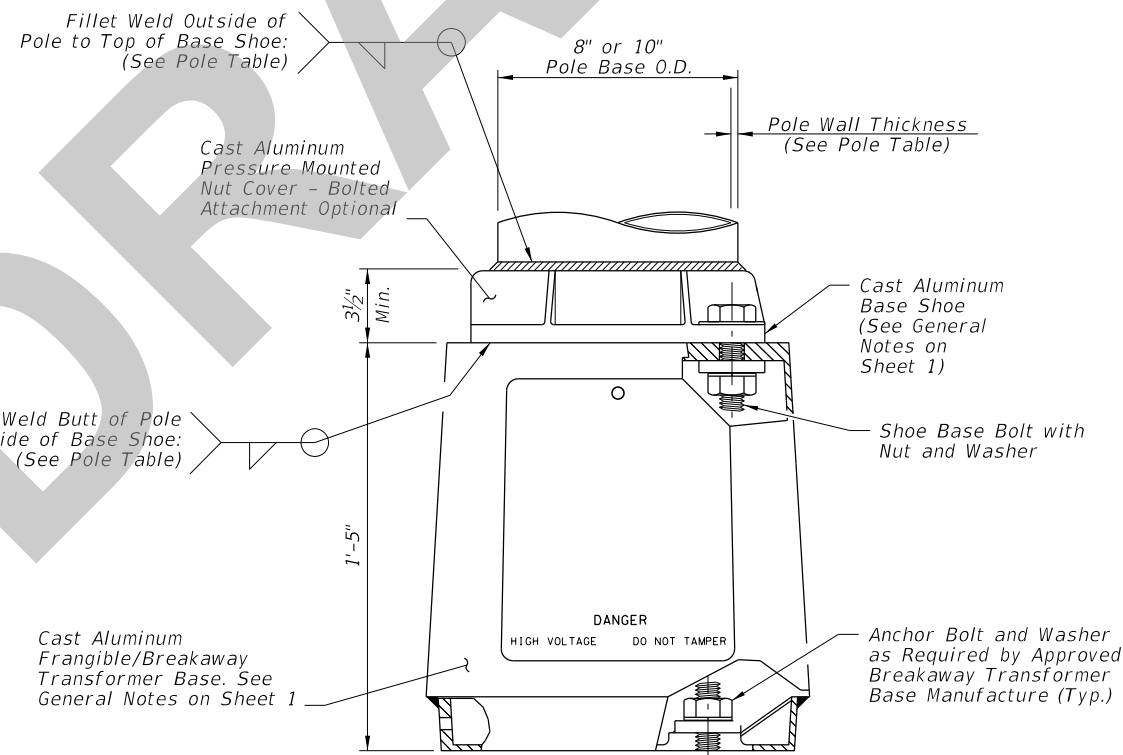
BOTTOM VIEW TRANSFORMER BASE



FOUNDATION NOTES:

1. Depths shown are for slopes equal to or flatter than 1:4. For slopes steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.

FOUNDATION



POLE BASE ELEVATION

ARM-POLE TABLE					
FOR STANDARD ALUMINUM LIGHT POLES WITH ARM					
Assembly Height (ft)	Wind Speed and Arm Lengths (ft)				
	120 mph 8, 10, 12, 15	140 mph 8, 10, 12	160 mph 15	8, 10	12, 15
30	A1-P1	A1-P1	A2-P1	A1-P1	A2-P1
35				A1-P2	A2-P2
40				A1-P2	A2-P2
45	A1-P2	A1-P2	A2-P2	A1-P3	A2-P3
50				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.
4. For 20' and 25' assembly heights use only 8' or 10' arm A1 with P0.

POLE TABLE			
Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld
P0	0.156	3/16"	5/32"
P1	0.156	3/16"	5/32"
P2	0.250	1/4"	1/4"
P3	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			
Assembly Height (ft)	Wind Speed and Arm Lengths (ft)		
	120 mph	140 mph	160 mph
20	Pole P0	Pole P0	Pole P0
25	Pole P1	Pole P1	Pole P1
30			Pole P2
35			Pole P2
40	Pole P2	Pole P2	Pole P2
45			Pole P2
50	Pole P2	Pole P2	Pole P2

FOUNDATION TABLE				
Pole	P0	P1	P2	P3
Depth	6'-0"	7'-0"	8'-0"	8'-0"
Bolt Min. Embedment	2'-6"	3'-6"	3'-6"	3'-6"

POLE AND BASE DETAILS FOR ROADWAY ALUMINUM LIGHT POLE

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