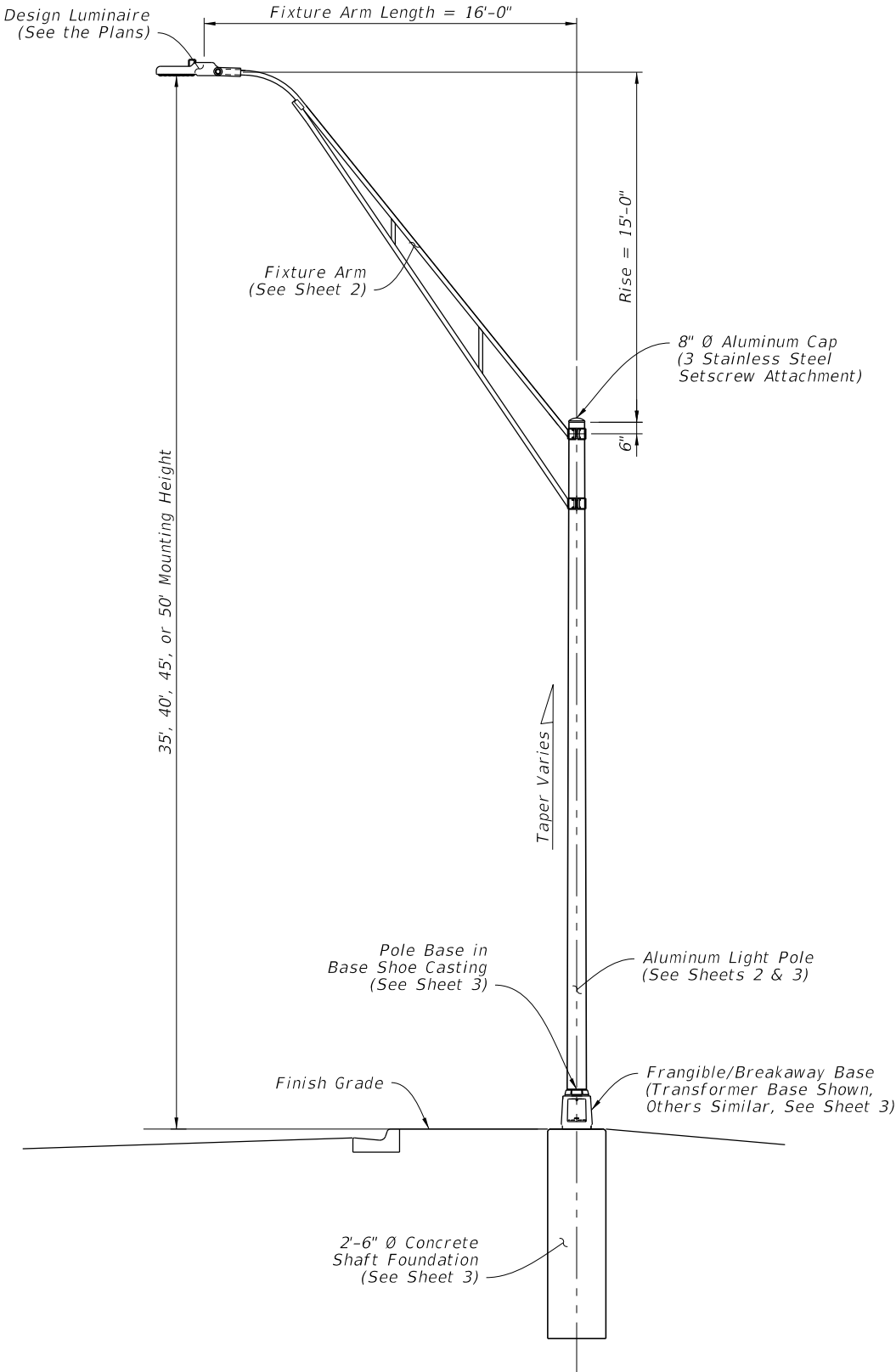


GENERAL NOTES:

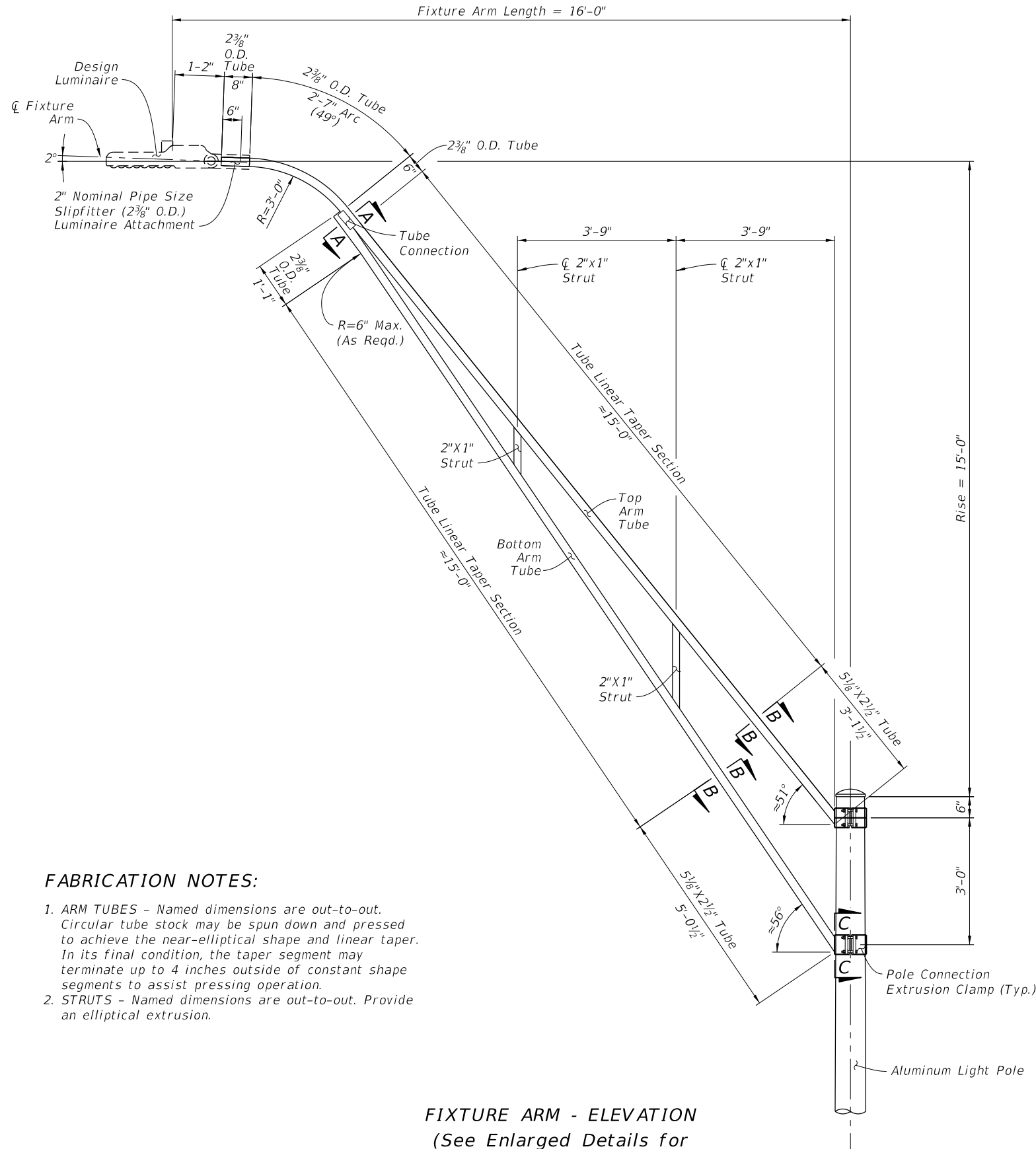
1. LUMINAIRE LOAD: Poles are designed to support the following:
A. Luminaire Effective Projected Area (EPA): 1.55 SF
B. Luminaire Weight: 75 lb.
2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for minor modifications not included in the Plans. Additionally, shop drawings are required for frangible base options shown on the APL where required bolt circle diameters or embedment depths differ from this Index and are not detailed in the Plans.
3. MATERIALS:
A. Pole, Arm Tubes, Strut Tubes, Bars, Plates, Stiffeners: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
B. Pole Connection Extrusion Clamp: ASTM B221, Alloy 6061-T6
C. Caps and Covers: ASTM B-26, Alloy 319-F
D. Aluminum Weld Material: ER 4043
E. Transformer Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6
F. Base 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
G. Anchor Bolts, Nuts, and Washers:
a. Anchor Bolts: ASTM F1554 Grade 55
b. Nuts: ASTM A563 Grade A Heavy-Hex
H. Clamp Hardware: See Sheet 2
I. Stainless Steel Cap Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
J. Nut Covers: ASTM B26 (319-F)
K. Concrete: Class II
L. Reinforcing Steel: Specification 415
4. FABRICATION:
A. Weld Arm and Pole Alloy 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. Light Pole Properties: Taper as required to provide a round top O.D. of 8" and a base O.D. of 10" for all pole heights. Portions of the pole near the base shoe and at the arm connections may be held constant to simplify fabrication. Maintain pole wall thickness of 0.313" Min.
D. Fixture Arm Tube Properties: See Sheet 2.
E. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
F. Perform all welding in accordance with AWS D1.2.
G. 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 miscellaneous steel items: 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 Pole Connection Extrusion Clamp:
a. Certify that the Pole Connection Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity, assuming a design wind speed of 160 MPH.
b. Use a frangible base connection as listed on the APL. The base must be recognized by FHWA as being successfully crash tested under NCHRP Report 350 or MASH Guidelines (Tash Force 13, LBT08 Transformer Base shown, others similar).
c. Do not erect pole without Luminaire attached.



LIGHT POLE - ELEVATION
(Shaft Foundation Shown,
Spread Footing Foundation Similar)

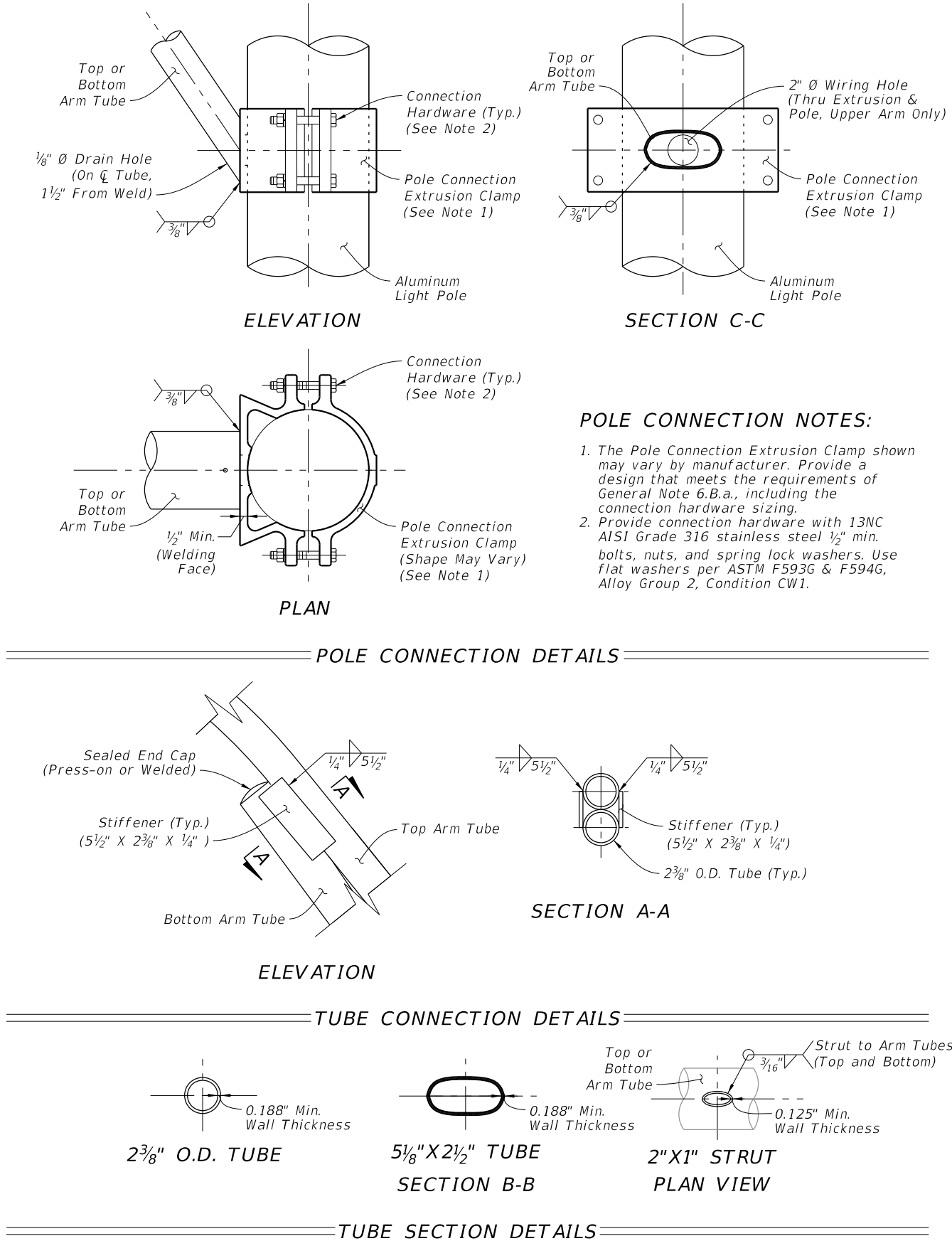
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- FABRICATION NOTES:**
1. **ARM TUBES** - Named dimensions are out-to-out. Circular tube stock may be spun down and pressed to achieve the near-elliptical shape and linear taper. In its final condition, the taper segment may terminate up to 4 inches outside of constant shape segments to assist pressing operation.
 2. **STRUTS** - Named dimensions are out-to-out. Provide an elliptical extrusion.

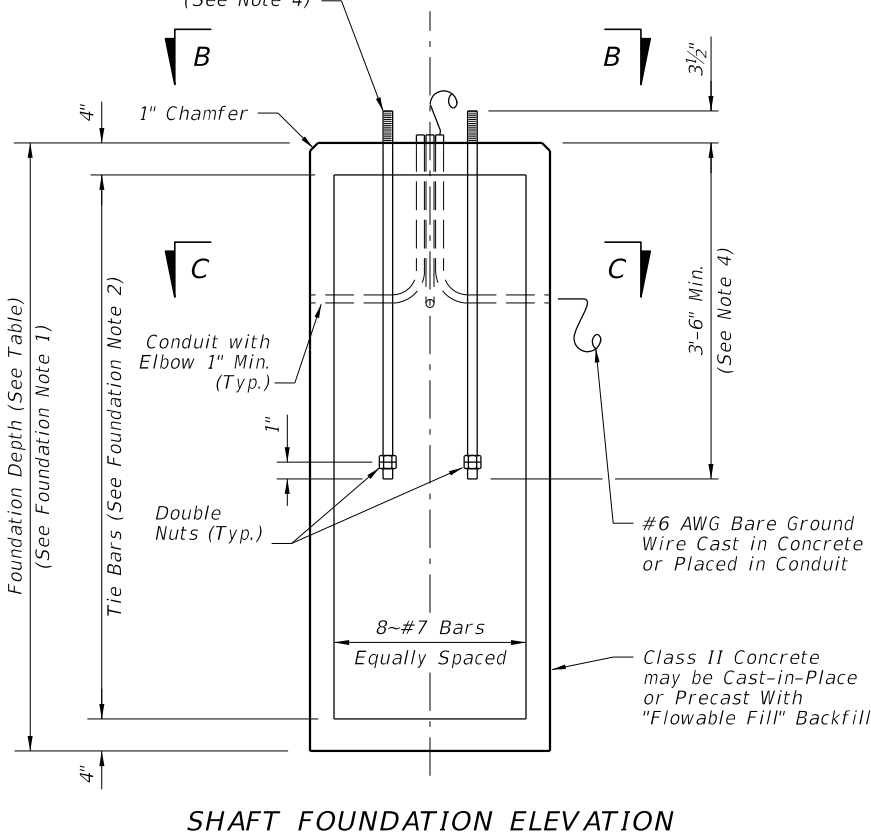
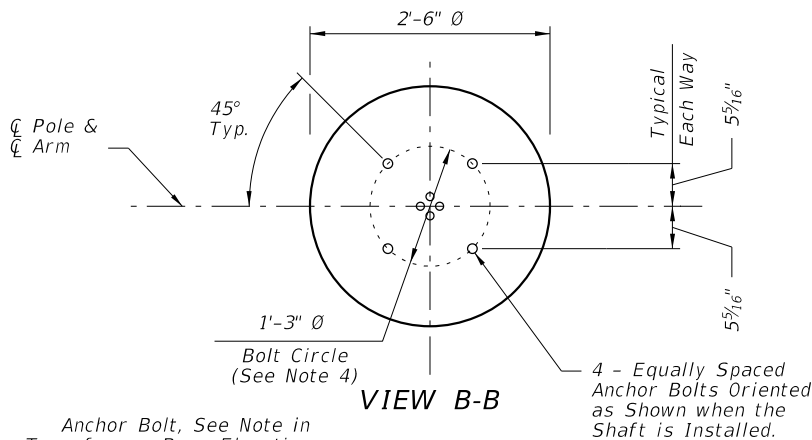
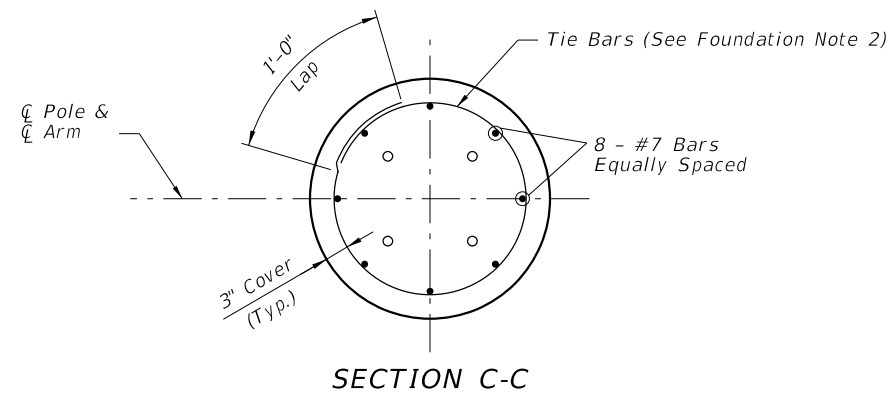
FIXTURE ARM - ELEVATION
(See Enlarged Details for Welding Requirements)



FIXTURE ARM ASSEMBLY

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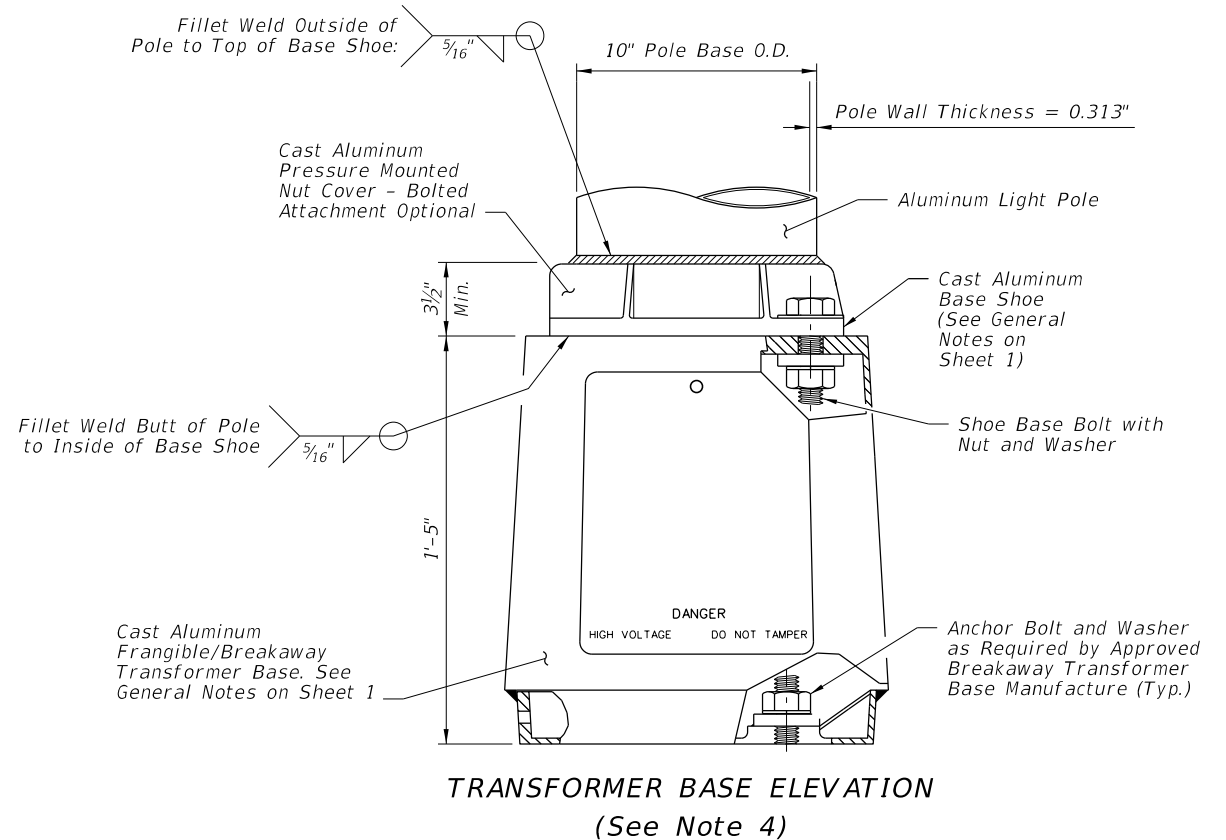
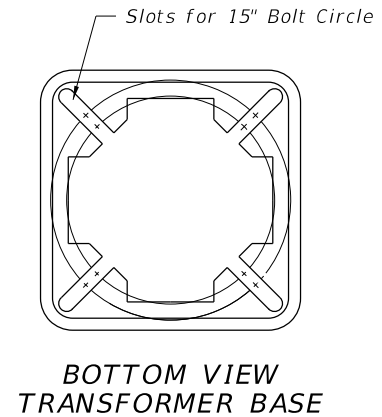
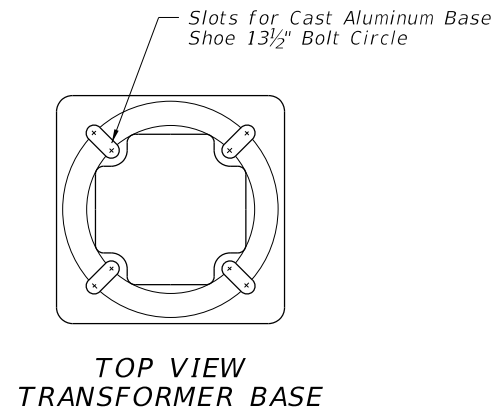
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FOUNDATION DEPTHS		
Luminaire Mounting Height	≤ 40 Ft.	45-50 Ft.
Depth	8'-0"	9'-0"

FOUNDATION NOTES:

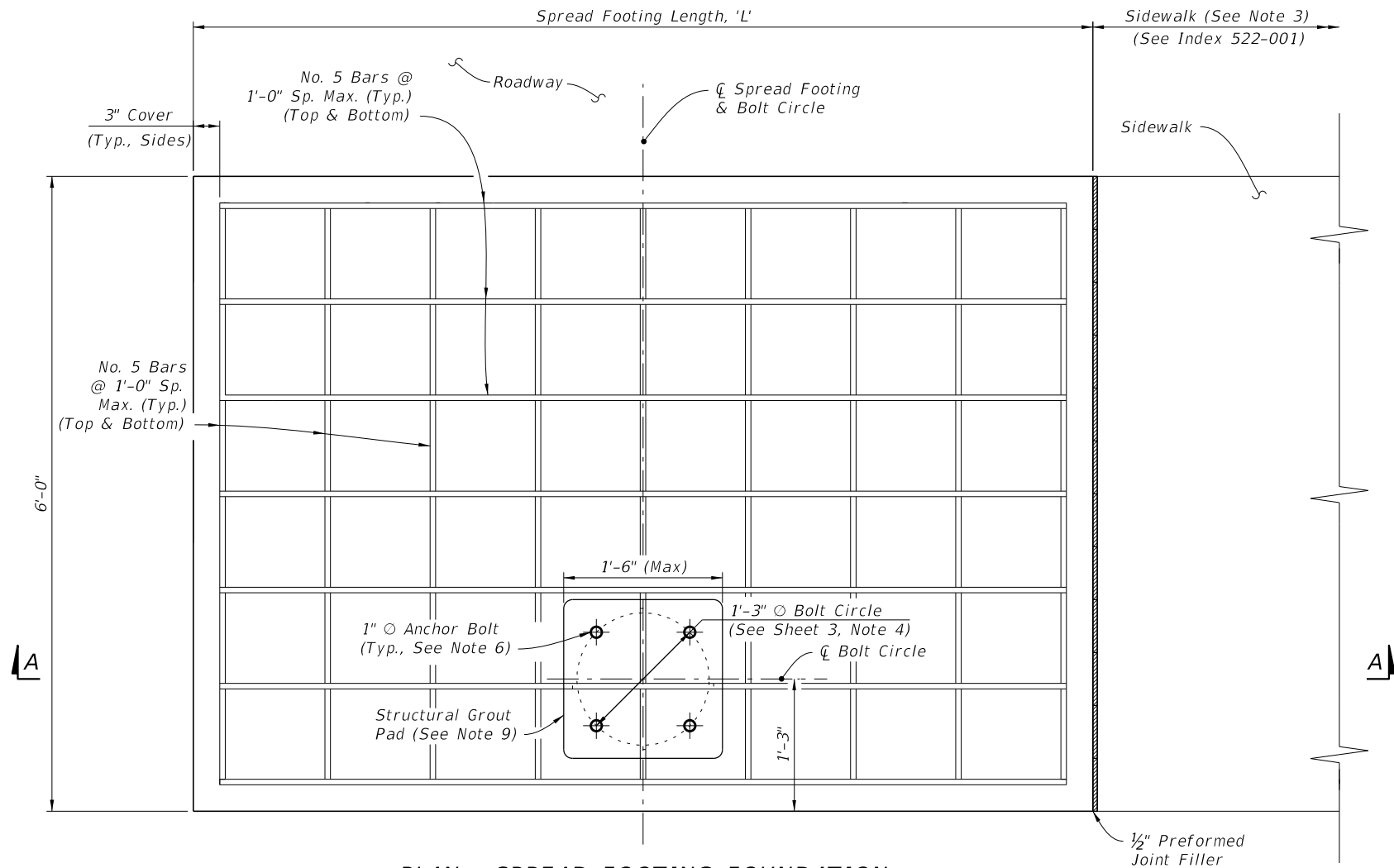
- Foundation depths shown are for slopes equal to or flatter than 1:4. For slopes steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
- Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.
- For precast foundations, the circular cross section shown may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be ≥ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.
- The Transformer Base shown may be substituted by different frangible base options listed on the APL. Use Anchor Bolt Circle Diameter (BCD), embedment depths, and materials as required for proprietary designs.



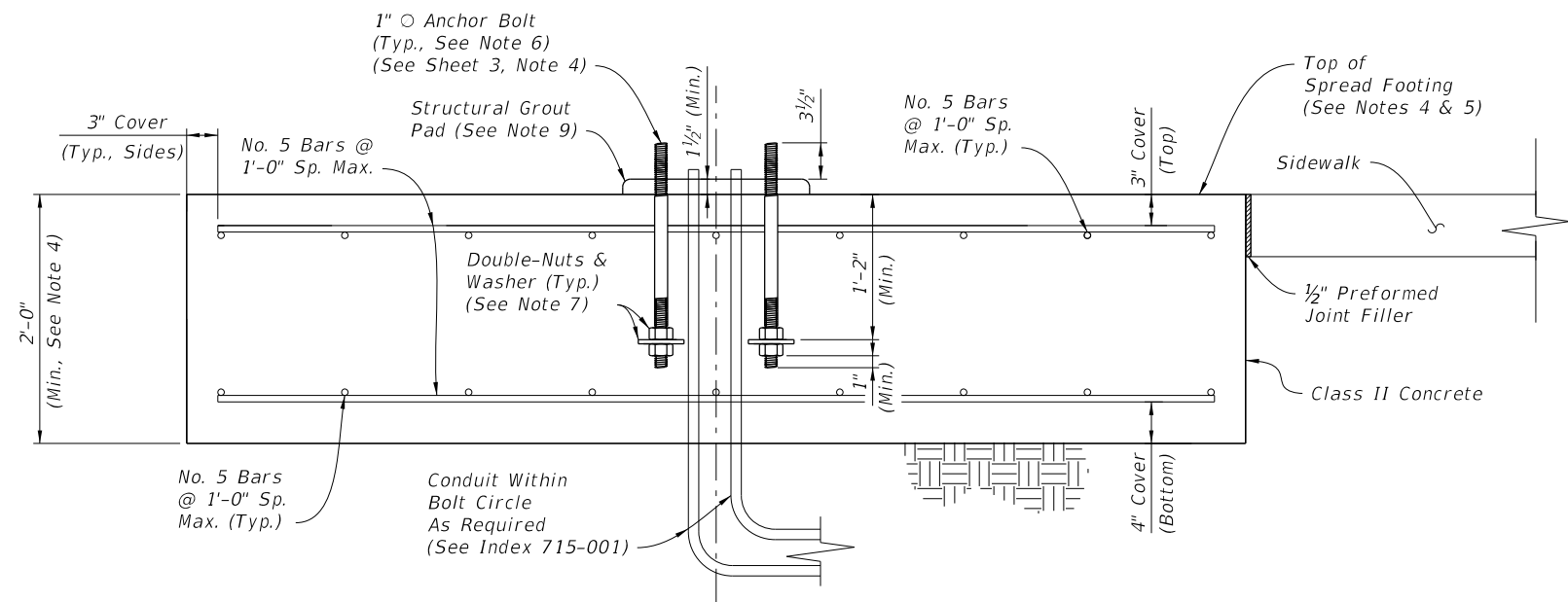
SHAFT FOUNDATION OPTION AND BASE DETAILS

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PLAN - SPREAD FOOTING FOUNDATION



SECTION A-A - SPREAD FOOTING FOUNDATION ELEVATION

SPREAD FOOTING LENGTH, 'L'			
Mounting Height (Ft.)	Wind Speed (All Arm Lengths)		
	120 mph	140 mph	160 mph
20	4'-6"	5'-0"	6'-0"
25	4'-6"	5'-0"	6'-0"
30	7'-0"	7'-0"	7'-0"
35	7'-0"	7'-0"	7'-0"
40	7'-0"	7'-0"	10'-0"
45	8'-6"	10'-0"	10'-0"
50	8'-6"	10'-0"	11'-6"

NOTES:

1. Install the Spread Footing Foundation Option only where called for in the Plans.
2. The Spread Footing Foundation Option is only permitted for use with single arm light poles. The pole arm must be oriented towards the roadway side of the footing as shown.
3. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans. The sidewalk connection to spread footing requires the 1/2" expansion joint shown regardless of the side.
4. The top of the spread footing must match the cross slope of the adjacent sidewalk where applicable per the Plans. The nominal bottom of the spread footing must remain level.
5. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
6. Mount the anchor bolts plumb. For the corresponding pole base details, see Sheet 3.
7. Place galvanized or zinc-plated steel washers with a minimum thickness of 1/4". Use washers with a minimum size of 3 1/2" O round or 3"x3" square.
8. Where raised curb is called for in the Plans, provide a tooled cold joint with bond breaker between the foundation and back of raised curb. See Sheet 1 and the connection between concrete sidewalk and raised curb per Index 522-001.
9. Place a structural grout pad in accordance with Specification 934. The grout pad is square and centered on the bolt circle centerlines. Level the top of the grout pad and smooth the edges and corners per the approval of the Engineer. Install the transformer base in accordance with Sheet 3 and the manufacturer's specifications.

SPREAD FOOTING FOUNDATION OPTION

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