Index 715-003
Utility Conflict Pole

ORIGINATION
Date: 8-1-21
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COMMENTARY
New Standard Plans Index for a different light pole type.

COMMENTS AND RESPONSES
BLACK = Internal Review Comments  RED = Standard Plans Response  GREEN = Change Made to Index

Name: K.C. Jose
Date: 8-31-21
COMMENT: Identification Tag similar as in Standard Light Poles SPI 715-002 section 4 J may be need for Conflict poles as well.

RESPONSE: Agree. Thank you for the comment.

Change Made: The information for ID tag from Index 715-002, General Note 4J will be copied into 715-003.

Date: 9/7/21
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.
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-20, Alloy 319-F
   d. Aluminum Weld Material: ER 4043
   e. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 310-T7
   f. Base Bolts, Nuts, and Washers:
      a. Shoe Base Bolts: ASTM F3320, Grade A235, Type 1
      b. Nuts: ASTM A615 Grade D-Hex
      c. Washers: ASTM A194 Grade 8
   g. Anchor Bolts, Nuts, and Washers:
      a. Anchor Bolt: ASTM F255A Grade 55
      b. Nuts: ASTM A563 Grade A Heavy-Hex
   h. Gland Hardware: See Sheet 2
   i. Stainless Steel Cap Fasteners: ASTM F593 Alloy
   j. Nut Covers: ASTM B20 (TS9-T)
   k. Concrete: Class II
   l. Reinforcing Steel: Specification 415

4. FABRICATION:
   a. Weld Arm and Pole Alloy in the T4 temper using 4043 Tiller. 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 8.0 of 8" and a base 8.0 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 wall thickness of 0.031 Inch.
   e. Provide 3/8" or 1" hook at top of pole for electrical wires.
   f. Rods: ASTM A209 D71, Grade A
   g. Identification Tag (Submit details for approval.):
      a. 2" x 4" (Max.) aluminum identification tag
      b. Intake on the inside of the transformer base and visible from the door opening.
      c. Secure to transformer base with 1/4" diameter stainless steel rivets or screws.
   h. Include the following information on the ID Tag:
      1. Financial Project ID
      2. Pole Height
      3. Manufacturer's Name

5. CONTINUOUS FINISH:
   a. Pole and Arm Finish: 60 grit satin rubbed.
   b. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2209
   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 Extrusion Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity, assuming a design wind speed of 136 MPH.
      b. Certify the Base conforms to the FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guidelines (e.g. Akron Foundry 181-17).
      c. Do not erect pole without Luminaire attached.

DETAILED NOTES:

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   e. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 310-T7
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