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

## Contact Information:

Date: August 1, 2021
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## Standard Plans:

Index Number: 715-003
Sheet Number (s): All (1-3)
Index Title:
Utility Conflict Pole

## Summary of the changes:

New Standard Plans Index for a different light pole type.

This new pole type has fixture arm dimensions of 16 -foot horizontal by 15 -foot rise to assist designers with avoiding overhead power lines and other utilities when conventional poles won't fit these project constraints.

## Commentary / Background:

In recent years, the Utility Conflict Pole concept has been widely requested through the use of project-specific Pay Items. This new Index provides a standardized design that will largely remove the need for project-specific Pay Items, structural designs, and CO plans reviews.

Other Affected Offices / Documents: (Provide name of person contacted)


OtherStandard Plans -
$\square$ FDOTDesignManual-
Basis of Estimates Manual -
Standard Specifications -
Approved Product List -
$\square$ Construction-
Maintenance -

## Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)
Yes N/A


Redline Mark-ups
Proposed Standard Plan Instruction (SPI)
Revised SPI
Other Support Documents

## Implementation:

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

## gENERAL NOTES

1. LUMINAIRE LOAD: Poles are designed to support the following A. Luminaire Effective Proj
B. Luminaire Weight: 75 Ib.
2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for
3. MATERIALS:
4. MATERIALS: A. Pole, Arm Tubes, Strut Tubes, Bars, Plates, Stiffeners: ASTM B221, Alloy 6063-T6 or
B. Pole Connection Extrusion Clamp: ASTM B221, Alloy 6061-T6
C. Caps and Covers: ASTM B-26, Alloy 319-F
C. Caps and Covers: ASTM B-26, Alla
D. Aluminum Weld Material: ER 4043
E. Transformer and Frangible Base Materials: ASTM B26 or ASTM
B108, Alloy $35-$ FT6

B108, Alloy $356-T 6$
F. Base Bolts. Nuts a
. Base Bots, Nuts and Washers:
a. Shoe Base Bolts: ASTM F3125, Grade A325, Type
b. Wits: ASTM A56.
b. Nuts: ASTM A563 Grade DH Heavy-Hex
c. Washer: ASTM F436 TYpe
G. Anchor Bolts, Nuts and wash
a. Anchor Boits: ASTM F 1 S54 Grade 55
b. Nuts: ASTM A56 S Grade A Heavy-Hex
H. Clamp Hardware: See Sheet 2 : ASM
I. Stainess Stel Cap fasteners: ASTM F593 Allo
Grou 2 Cond

Group 2, Condition A cW1 or , ,
J. Nut Covers: ASTM B26 (319-F)
Nut Covers: ASTM B26 (319-F)
k. Concrete: Class II
4. FABRIIATION:
A. Weld Arm and Pole Alloy in the T4 temper using 4043 filler. Age the Arm and Pole
B. Transvilly to the T6 temper after welding.
C. Light pole Properties: Taper as required to provide a round top O.D. of $8^{\prime \prime}$ and a base connections may be held constant to simplify fabrication. Maintain pole wall thickness
of $0.313^{\prime \prime} \mathrm{Min}$.
D. Fixture Arm Tube Properties: See Sheet 2.
E. Provide $I J$ ', 'S' or 'C' hook at top of pole for electrical wires.
E. Perform all welding in accor dance with AWS D1.2
F. ${ }^{\text {I }}$. Ientification Tag. (Submit dealis for a
G. Identification Tag: (Submit details for approva.
a. $2^{\prime \prime} \times 4^{\prime \prime}$ (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:

In Fiancial Prowect ID

1. Fole Height
2. Pol
3. Manufacturer's Name
4. COATINGS/FINISH:
5. COATINGSIFINISH:
A. Pole and Arm Finish: 50 grit satin rubbed.
B. Galvanize Stel
B. Galvanize Steel Bolts, Screws, Nuts and washers: ASTM
C.
Cot 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. Sase, Base Shoe, and Pole Connection Extrusion Clamp:
B. Frangible Base, Base Shoe, and Pole Connection Extrusion Clamp:
a. Certity thet the the ole Connection Extrusion llanp, Frangible Transformer Base, and
Base Shoe Design are capable of providing the required capacity, assuming a design a. Certify that the Poole Connection Extrusion Clamp, Frangible Transformer Base, and
Base Shoe Design are capable of providing the required capacity, assuming a design
wind speed of 160 MPH. D. Certify the Base conforms to the FHWA required AASHTO Frangibility Requirements,
tested under NCHR Report 350 Guidelines (e.g. Akron Foundry TBl-17). c. Do not erect pole without Luminaire attached.


