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## ORIGINATION FORM

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

**Contact Information:**

Date: June 6, 2021  
Originator: Derwood Sheppard  
Phone: (850) 414-4334  
Email: [derwood.sheppard@dot.state.fl.us](mailto:derwood.sheppard@dot.state.fl.us)

**Standard Plans:**

Index Number: 654-001  
Sheet Number (s): 1 of 1  
Index Title: Rectangular Rapid Flashing Beacon Assembly

**Summary of the changes:**

Sheet 1: Reorganized to show the Beacon Assembly adjacent to the sidewalk; Update Note 1 to reference Index 700-120 for pull box, conduit, wiring and grounding installation requirements; Updated Note 7; Change all references "4" Nominal Aluminum Pole" to "4.5" OD Aluminum Pole; Updated anchor bolts; Updated all callout to point to both details.

Sheet 2: (New Sheet) showing the Beacon Assembly in the Sidewalk Curb.

**Commentary / Background:**

The foundations within Indexes 646-001, 654-001, 695-001, and 700-120 are being updated to be more consistent between applications. A structural analysis was completed to determine if the foundations could be revised to provide a more consistent design between the various applications.

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

- | 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 checked="" type="checkbox"/> | Standard Specifications –   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List –     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction –              |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance –               |

**Origination Package Includes:**

(Email or hand deliver package to Rick Jenkins)

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

**Implementation:**

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/>            | Design Bulletin (Interim)        |
| <input type="checkbox"/>            | DCE Memo                         |
| <input type="checkbox"/>            | Program Mgmt. Bulletin           |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

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Contact the Roadway Design Office for assistance in completing this form

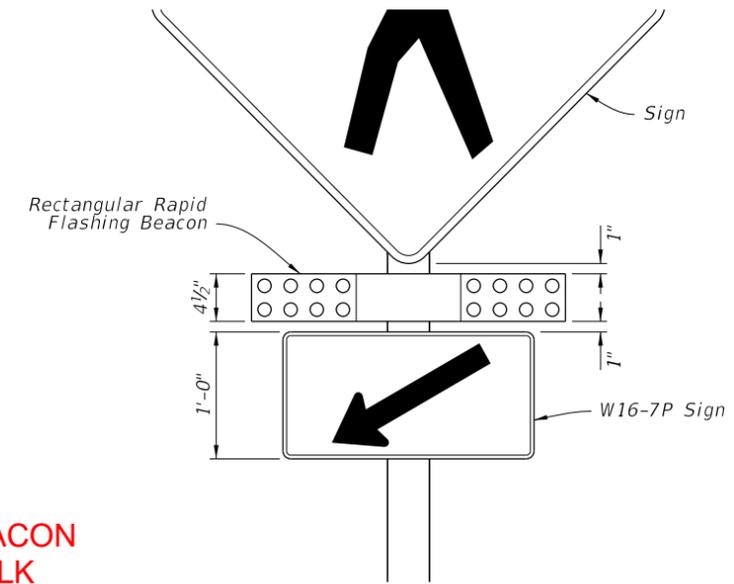
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Email to: Rick Jenkins [rick.jenkins@dot.state.fl.us](mailto:rick.jenkins@dot.state.fl.us) and Darren Martin [darren.martin@dot.state.fl.us](mailto:darren.martin@dot.state.fl.us)

**NOTES:**

1. A transformer base is required for both conventionally-powered and solar-powered applications (conventional power shown).
2. Install the RRFB in pairs, one on either side of approach traffic.
3. Install controller on the back **CHANGED NOTE 1: to reference Index 700-102**
4. Install a 30" X 30" W11-2 sign for mu. 36" X 36" W11-2 sign for mu.
5. Install push button and FTP-68C-21 sign in accordance with Index 665-001.
6. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.

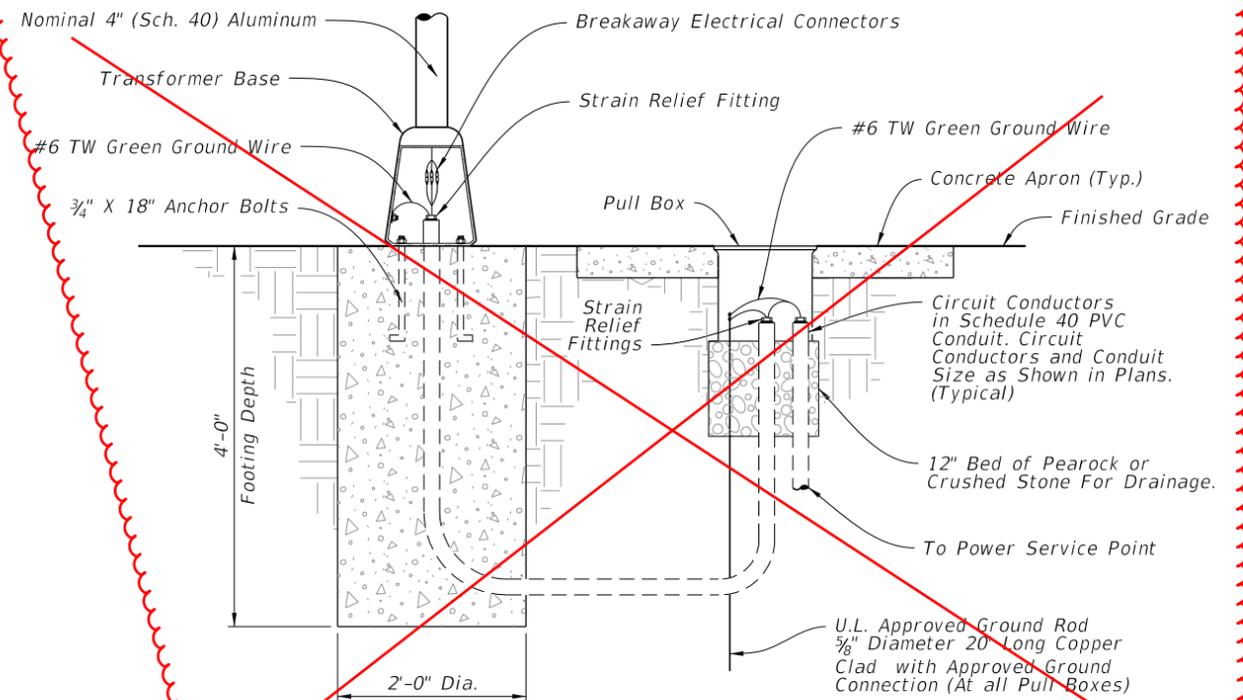
7. Meet the requirements of Specification 646 for ~~aluminum poles and transformer bases.~~ **material** **CHANGED NOTE 4**
8. Install a concrete slab around all pull boxes. The minimum slab dimension is 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the Plans.
9. For assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible transformer base.
10. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.
11. For solar-powered applications, orient solar panel to face South for optimal exposure to sunlight.



DETAIL "A"

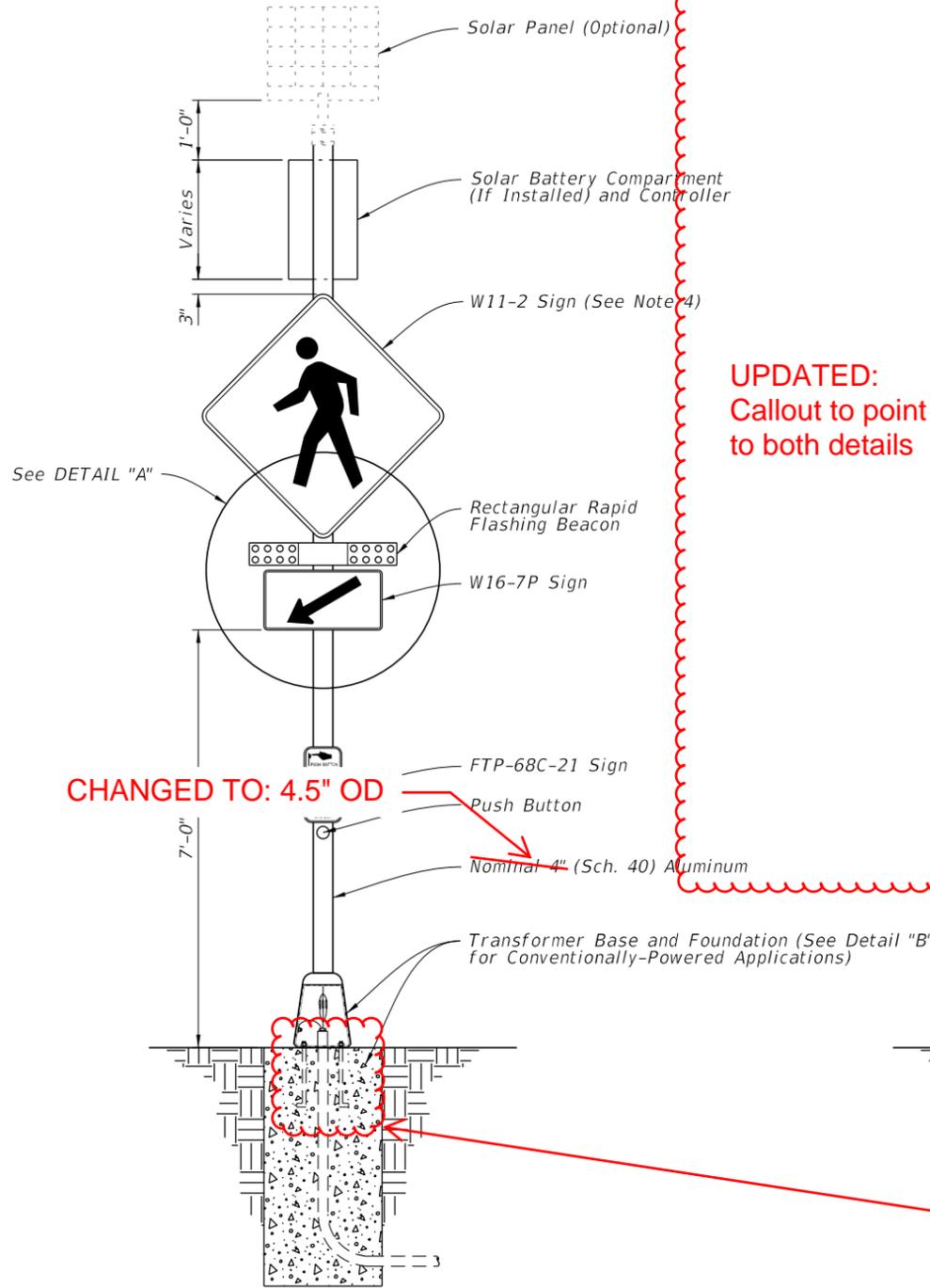
**REORGANIZED SHEET TO SHOW BEACON ASSEMBLY ADJACENT TO SIDEWALK**

**DELETED DETAIL "B" AND ADDED REFERENCE TO INDEX 700-120 NOTE 1.**

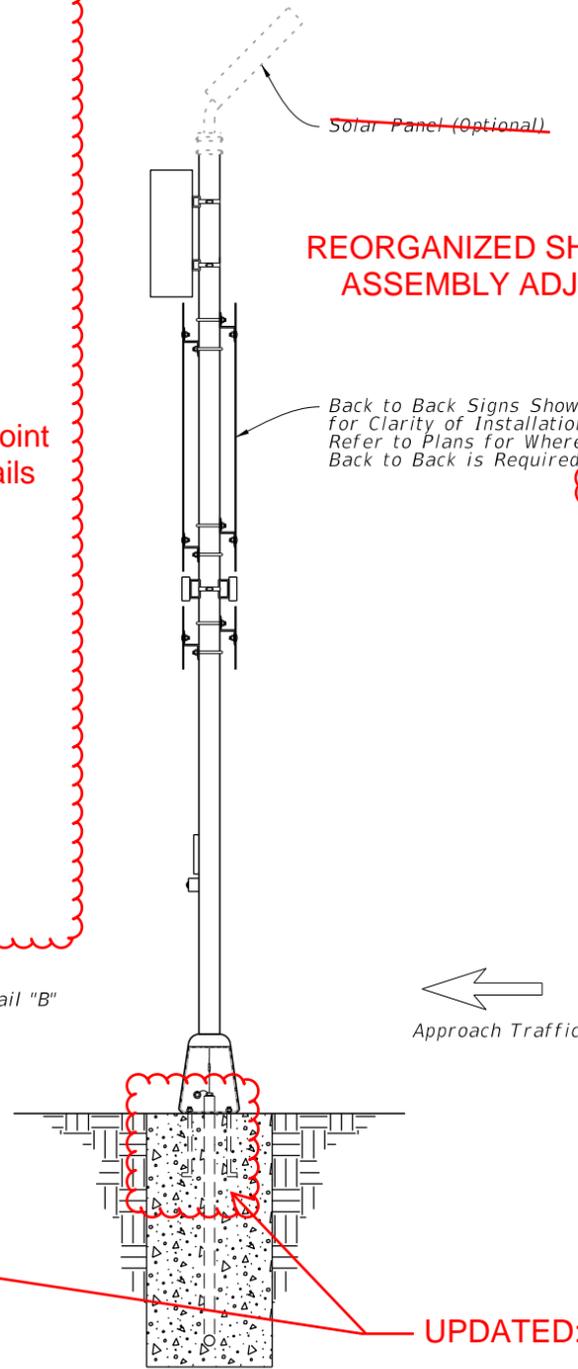


POLE WIRING AND FOOTING DETAIL

DETAIL "B"



FRONT VIEW



SIDE VIEW

**UPDATED: Callout to point to both details**

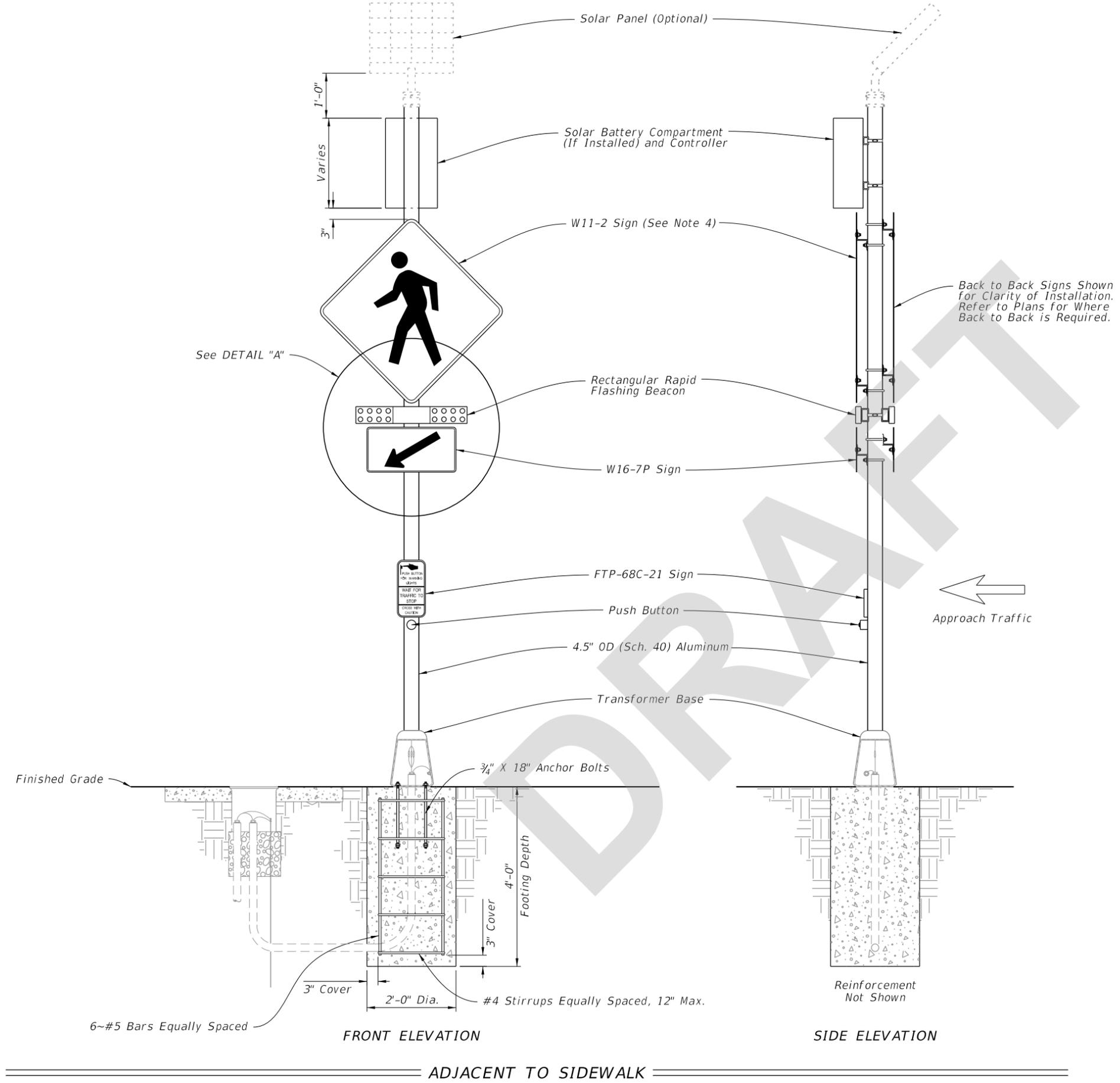
**UPDATED: Anchor Bolts**

10/12/2020 8:23:12 AM

LAST REVISION	DESCRIPTION:
11/01/20	11/01/21

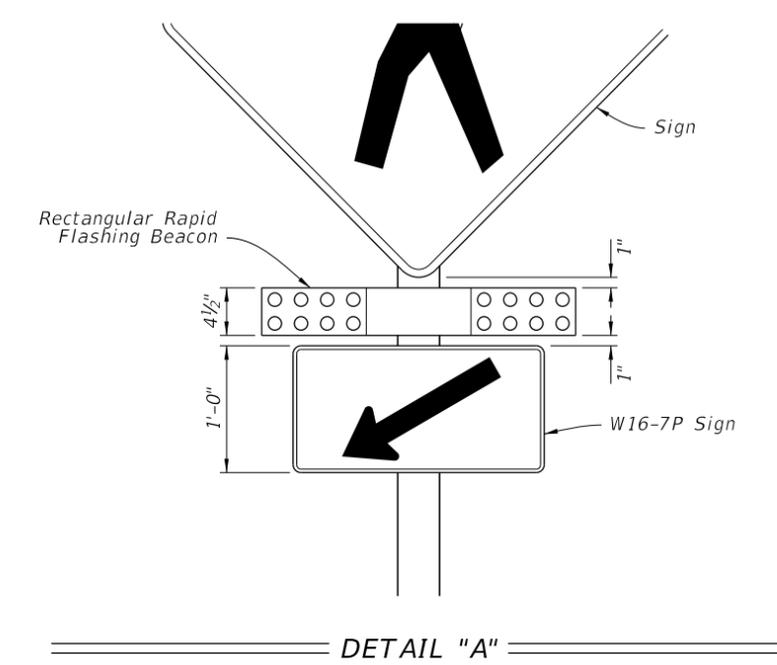
# NEW SHEET

SHOWING BEACON ASSEMBLY IN SIDEWALK CURB



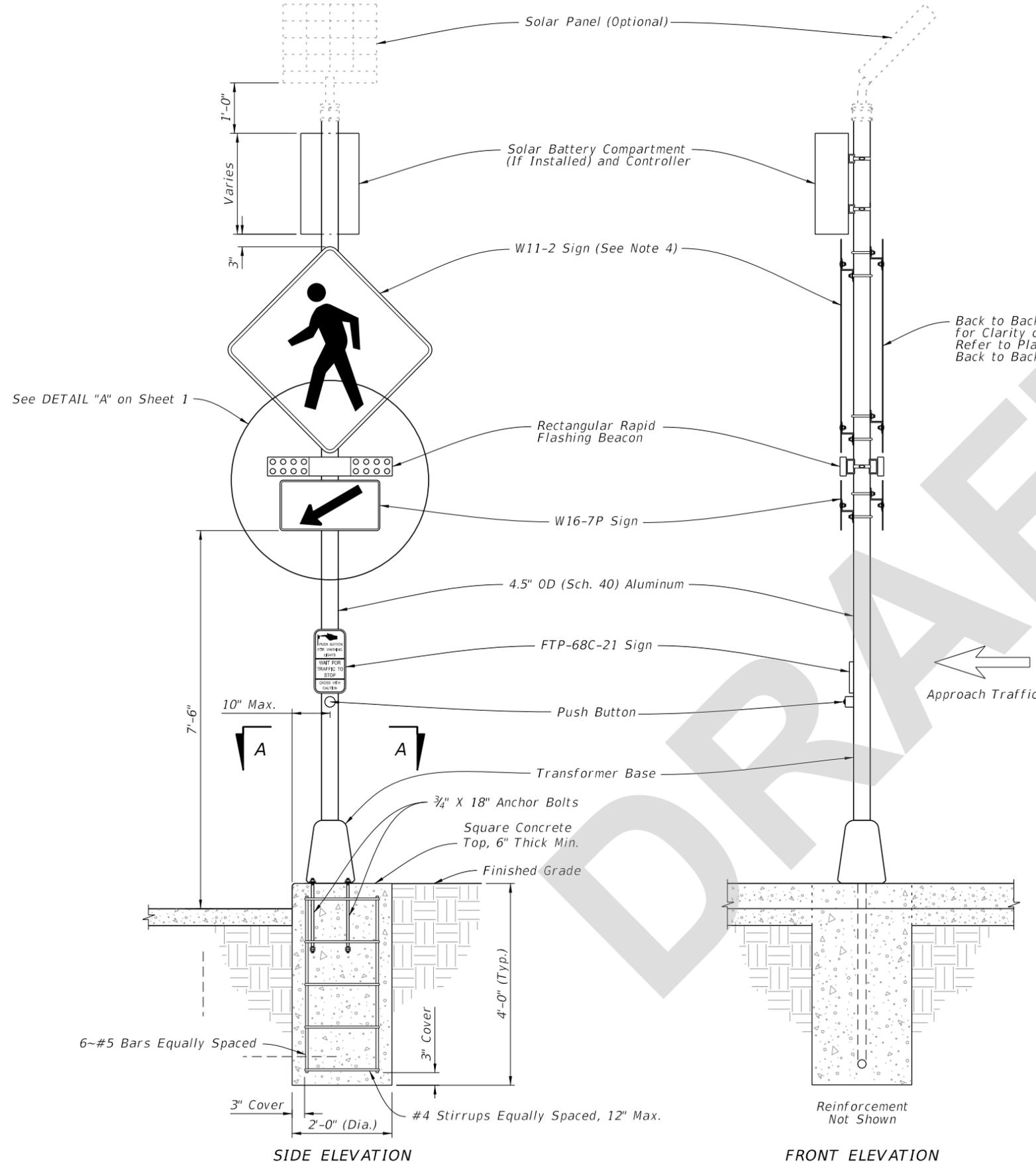
**NOTES:**

1. A transformer base is required for both conventionally-powered and solar-powered applications. Install pull box, conduit, wiring, and grounding in accordance with Index 700-120 based on the powering configuration called for in the Plans.
2. Install the RRFB in pairs, one on either side of approach traffic.
3. Install controller on the backside of post from approach traffic.
4. Install a 30" X 30" W11-2 sign on two-lane roadways and a 36" X 36" W11-2 sign for multilane roadways.
5. Install push button and FTP-68C-21 sign in accordance with Index 665-001.
6. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
7. Meet the material requirements of Specification 646.
8. Install a concrete slab around all pull boxes. The minimum slab dimension is 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the Plans.
9. For assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible transformer base.
10. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.
11. For solar-powered applications, orient solar panel to face South for optimal exposure to sunlight.



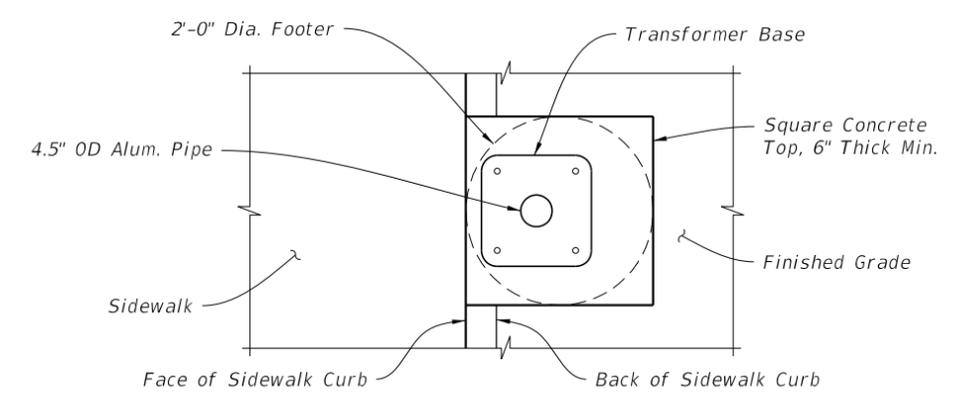
8/3/2021 12:48:13 PM

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	<b>FY 2022-23 STANDARD PLANS</b>	<b>RECTANGULAR RAPID FLASHING BEACON ASSEMBLY</b>	INDEX <b>654-001</b>	SHEET <b>1 of 2</b>
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Back to Back Signs Shown for Clarity of Installation. Refer to Plans for Where Back to Back is Required.

Approach Traffic



SIDE ELEVATION      FRONT ELEVATION      PLAN VIEW

IN SIDEWALK CURB      SECTION A-A

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LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	INDEX 654-001	SHEET 2 of 2
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