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

**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)

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<tr>
<th>Yes</th>
<th>No</th>
<th>Other Standard Plans —</th>
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<td>FDOT Design Manual —</td>
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<td>Basis of Estimates Manual —</td>
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<td>Standard Specifications —</td>
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**Origination Package Includes:**
(Email or hand deliver package to Rick Jenkins)

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<tr>
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<th>Redline Mark-ups</th>
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**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

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us
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 of the solar panel.

4. Install a 30" x 30" 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 requirements of Specification 646 for aluminum poles and transformer bases.

8. Install a concrete slab around 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 transfomrable 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.

**NOTES:**

- For conventionally-powered applications (conventional power shown).
- Transformer Base and Foundation (See Detail "B" for Conventionally-Powered Applications)
- Breakaway Electrical Connectors
- Concrete Apron (Typ.)
- Circuit Conductors in Schedule 40 PVC Conduit. Circuit Conductors and Conduit Size as Shown in Plans, (Typical)
- #6 TW Green Ground Wire
- 3/4" X 18" Anchor Bolts
- Strain Relief Fitting
- Pull Box
- U.L. Approved Ground Rod 1/4" Diameter 20' Long Copper Clad with Approved Ground Connection (At all Pull Boxes)
- #6 TW Green Ground Wire
- 12" Bed of Pea Rock or Crushed Stone For Drainage.
- To Power Service Point

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

**UPDATED:** Anchor Bolts

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

**CHANGED NOTE 4:**

**CHANGED NOTE 1:**

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

**UPDATED:** Anchor Bolts

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

**DESCRIPTION:**

- Rectangular Rapid Flashing Beacon Assembly
- Concrete Apron (Typ.)
- Circuit Conductors in Schedule 40 PVC Conduit. Circuit Conductors and Conduit Size as Shown in Plans, (Typical)
- #6 TW Green Ground Wire
- 3/4" X 18" Anchor Bolts
- Strain Relief Fitting
- Pull Box
- U.L. Approved Ground Rod 1/4" Diameter 20' Long Copper Clad with Approved Ground Connection (At all Pull Boxes)
- #6 TW Green Ground Wire
- 12" Bed of Pea Rock or Crushed Stone For Drainage.
- To Power Service Point

**INDEX:**

654-001

**LAST REVISION:**

11/01/21

**REV:**

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 30" 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.