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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 17, 2022

Originator: Matt DeWitt

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**Standard Plans:**

Index Number: 700-120

Sheet Number (s): 9 of 11

Index Title: Enhanced Highway Signing Assemblies

**Summary of the changes:**

Changed Note 1: Addresses the conventionally powered wrong way highlighted assembly.

Updated Note 2: Addresses the manufacturer's instructions.

Updated Note 3: Addresses the solar power assembly to be used.

Added New Note 5: "See Index 676-010 for cabinet installation details."-The Solar Power Assembly detail illustrates a ground mounted solar panel and an uninterruptible power supply cabinet.

**Commentary / Background:**

The solar power assembly and battery unit for the wrong way vehicle detection is larger and more powerful than the one that is used for a typical enhanced highway signing assembly. As a result, the solar panel must be ground mounted and a ground mounted uninterruptible power supply (UPS) cabinet must be provided. Both the solar panel and the UPS cabinet must be installed close to the right of way line, outside the clear zone.

**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:** (Submit package to Rick Jenkins)

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

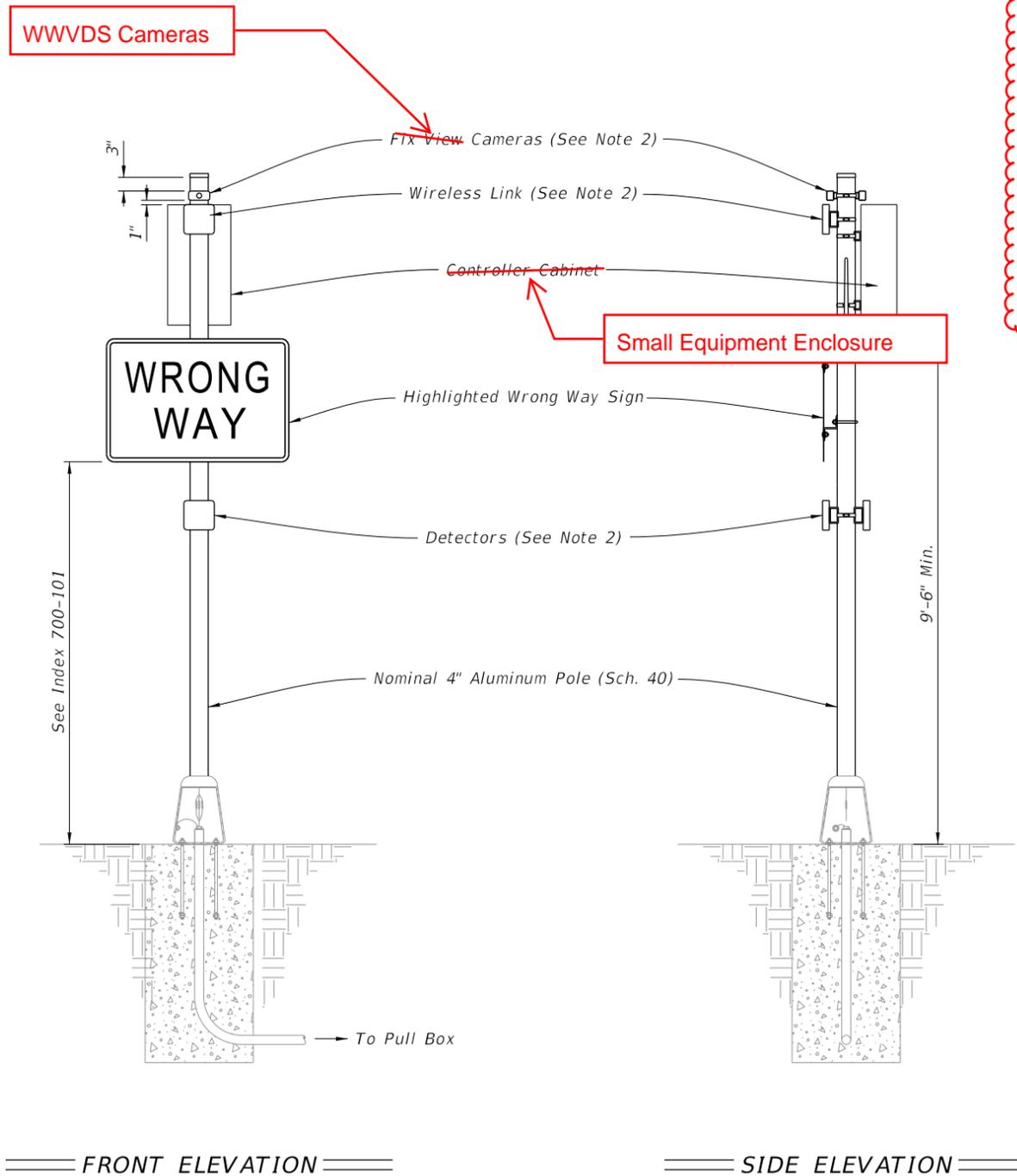
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Contact the Roadway Design Office for assistance in completing this form

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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)

10/22/2021 10:09:47 AM



ADDED: Solar Power Assembly Details

**UPDATED NOTES:**

1. The Wrong Way Highlighted Sign Assembly detail shows a conventionally powered Type A7 Assembly.
2. Install Wrong Way Vehicle Detections System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
3. The Solar Power Assembly detail shows the ground mounted solar panel and uninterruptible power supply cabinet assembly. Install controller and batteries in the same ground mounted cabinet.

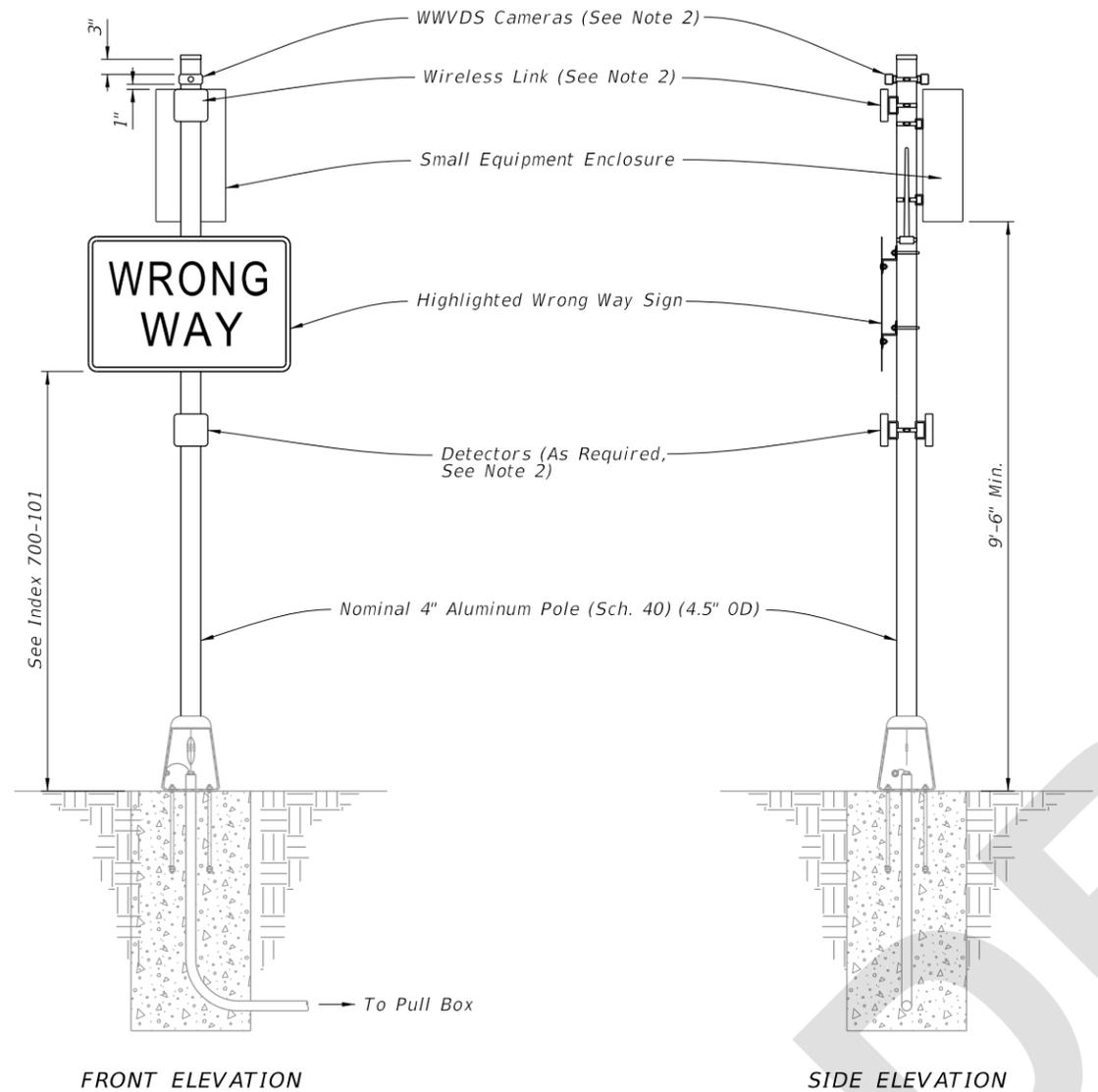
**NOTES:**

- ~~1. Type A7 Assembly (Conventionally Powered) is shown.~~
- ~~2. Install cameras, wireless link, detectors, and antennas in accordance with the manufacturer's instructions.~~
- ~~3. For solar powered assemblies, install controller and batteries in the same ground mounted cabinet. Install a separate pole for mounting the solar panel. Install the solar panel pole and cabinet as close to the right of way boundary as possible. Orient solar panel to face South.~~
4. Foundation reinforcement not shown.

**NEW NOTE 5:**

5. See Index 676-010 for cabinet installation details.

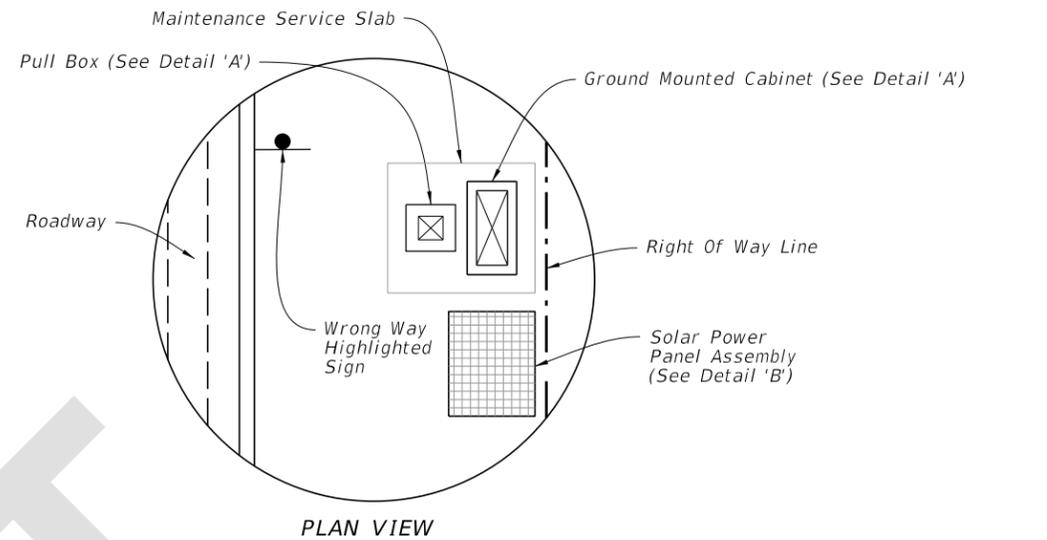
LAST REVISION	DESCRIPTION:
11/01/21	11/01/22



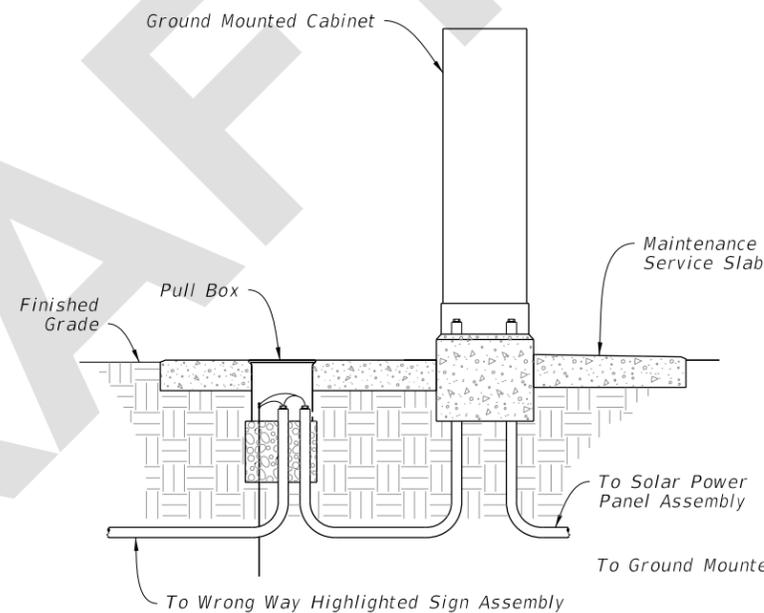
FRONT ELEVATION

SIDE ELEVATION

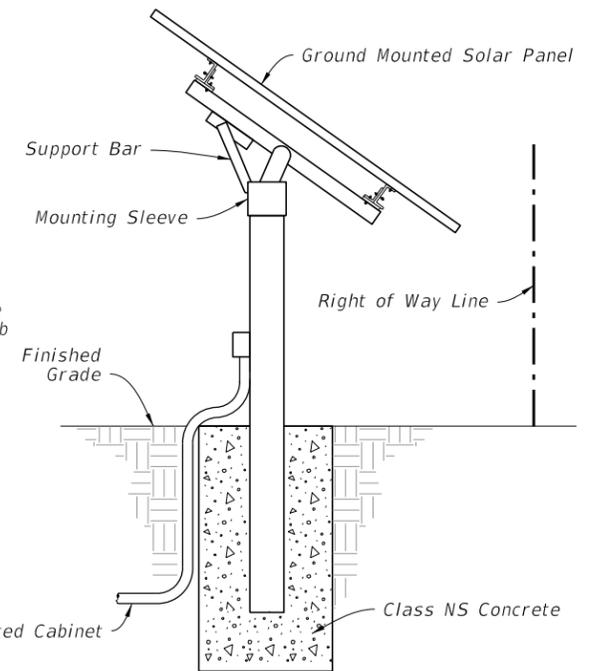
WRONG WAY HIGHLIGHTED SIGN ASSEMBLY



PLAN VIEW



DETAIL 'A'



DETAIL 'B'

SOLAR POWER ASSEMBLY

NOTES:

1. The Wrong Way Highlighted Sign Assembly detail shows a conventionally powered Type A7 assembly.
2. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
3. The Solar Power Assembly details show the grounded mounted solar panel and ground mounted cabinet. Install controller and batteries in the same ground mounted cabinet. Install a separate pole for mounting the solar panel. Install the solar panel pole and cabinet as close to the right of way boundary as possible. Orient solar panel to face South.
4. Foundation reinforcement not shown.
5. See Index 676-010 for cabinet installation details.

ROADSIDE SIGN ASSEMBLY-7

8/15/2022 8:43:26 AM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 9 of 11
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