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Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: July 5, 2023 Originator: Rick Jenkins Phone: (850) 414-4355

Email: rick.jenkins@dot.state.fl.us **Summary of the changes:**

Email: rick.jenkins@dot.state.fl.us

All Sheets: Renumber

Sheet 1: Added New Sheets to Table of Contents. Sheet 3: New Sheet - Spread Footing Foundation. Sheet 12: New Sheet - Roadside Sign Assembly-9. Sheet 13: New Sheet - Roadside Sign Assembly-10. Sheet 14: New Sheet - Roadside Sign Assembly-11.

Standard Plans:

Index Number: 700-120
Sheet Number (s): AII

Index Title: Enhanced Highway Signing Assemblies

Commentary / Background:

The districts have requested a spread footing foundation option be added.

Three new Railroad Highlighted sign assemblies are being added as a result of input from the Rail Safety Task Team.

<u>Othe</u>	r Affe	ected Offices / Documents: (Provide name of person contacted)		
Yes	No				
✓		Other Standard Plans – 646-001, 653-001, 654-001			
		FDOT Design Manual –			
\checkmark		Basis of Estimates Manual – Ryan Gray			
		Standard Specifications –			
		Approved Product List –			
		Construction –			
		Maintenance –			
Origination Package Includes: Implementation:					
(Email or hand deliver package to Rick Jenkins) Design Bulletin (Interim)					
Yes	N/A		☐ DCE Memo		
		Redline Mark-ups	Program Mgmt. Bulletin		
		Proposed Standard Plan Instruction (SPI)	FY-Standard Plans (Next Release)		
		Revised SPI			
		Other Support Documents			

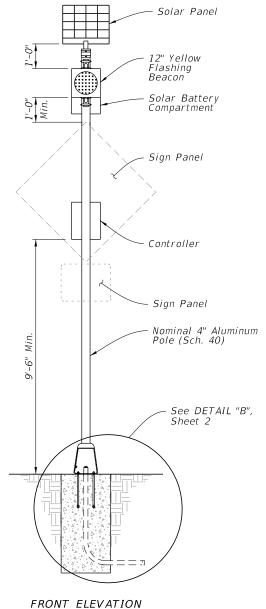
Contact the Roadway Design Office for assistance in completing this form

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



GENERAL NOTES:

- 1. Meet the regirements of Specifications 646 and 700.
- 2. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
- 3. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 4. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.



SIGN ASSEMBLY FRONT ELEVATION

WITH AUXILIARY POLE

12" Yellow Flashing

Sign Panel

Sign Panel

Pole (Sch. 40)

Sheet 2

Nominal 4" Aluminum

See DETAIL "A",

Beacon

POWER CONFIGURATION SOLAR POWERED (Type B1 Shown)

POWER CONFIGURATION 'B' NOTES:

1. Install a separate pole for mounting the solar panel, controller and batteries for all roadside assemblies with solar panels, controllers and batteries weighing more than 170 lbs.

WITHOUT AUXILIARY POLE

- 2. Install the auxiliary pole as close to the right of way boundary as possible.
- 3. Install the auxiliary pole so that the height is the same as the column for the roadside assembly.
- 4. Orient solar panel to face South for optimal exposure to sunlight.
- 5. The controller and the solar batteries may be located in the same compartment.

TABLE OF CONTENTS:

AUXILIARY POLE ELEVATION

Sheet	Description
1	General Notes and Contents
2	Conduit, Wiring, and Foundation Details
3	Roadside Sign Assembly-1
4	Roadside Sign Assembly-2
5	Roadside Sign Assembly-3
6	Roadside Sign Assembly-4
7	Roadside Sign Assembly-5
8	Roadside Sign Assembly-6
9	Roadside Sign Assembly-7
10	Roadside Sign Assembly-8
11	Overhead Sign Assembly

ADDED NEW SHEETS

FY 2023-24 STANDARD PLANS INDEX

700-120 1 of 11

SHEET

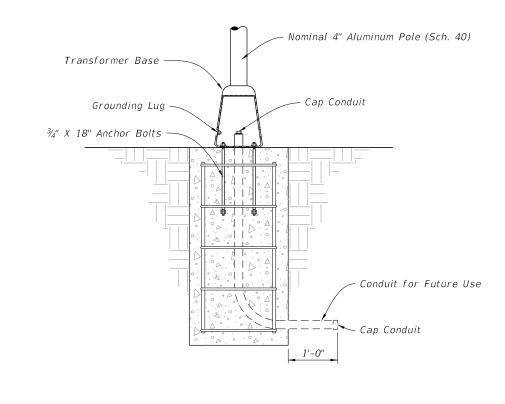
Cabinet for Controller and Solar Batteries

Nominal 4" Aluminum Pole (Sch. 40)

REVISION 11/01/22 DESCRIPTION:

- 11/01/23

FDOT



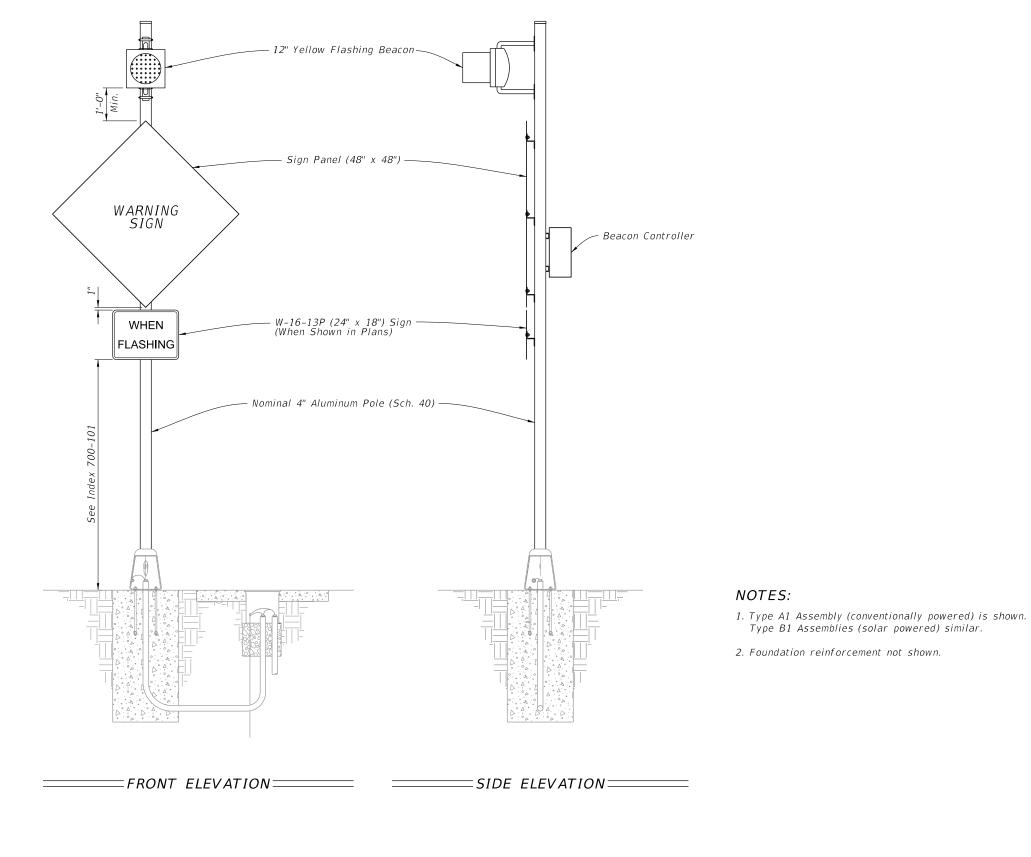
= DETAIL "B" ==

CHANGED TO: 2 of 15 -

CONDUIT, WIRING, AND FOUNDATION DETAILS

DESCRIPTION: REVISION **- 11/01/23** 11/01/21

FDOT



CHANGED TO: 4 of 15

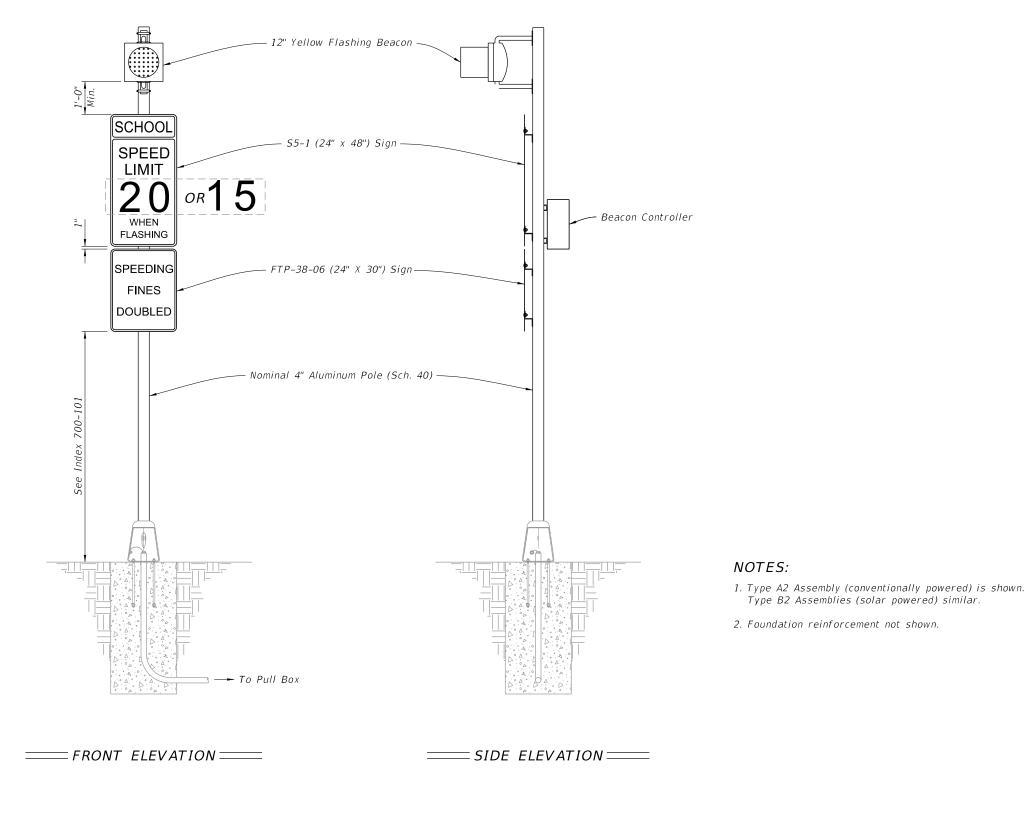
ROADSIDE SIGN ASSEMBLY-1

DESCRIPTION: REVISION - 11/01/23 11/01/21

FDOT

FY 2023-24 STANDARD PLANS INDEX

SHEET



CHANGED TO: 5 of 15

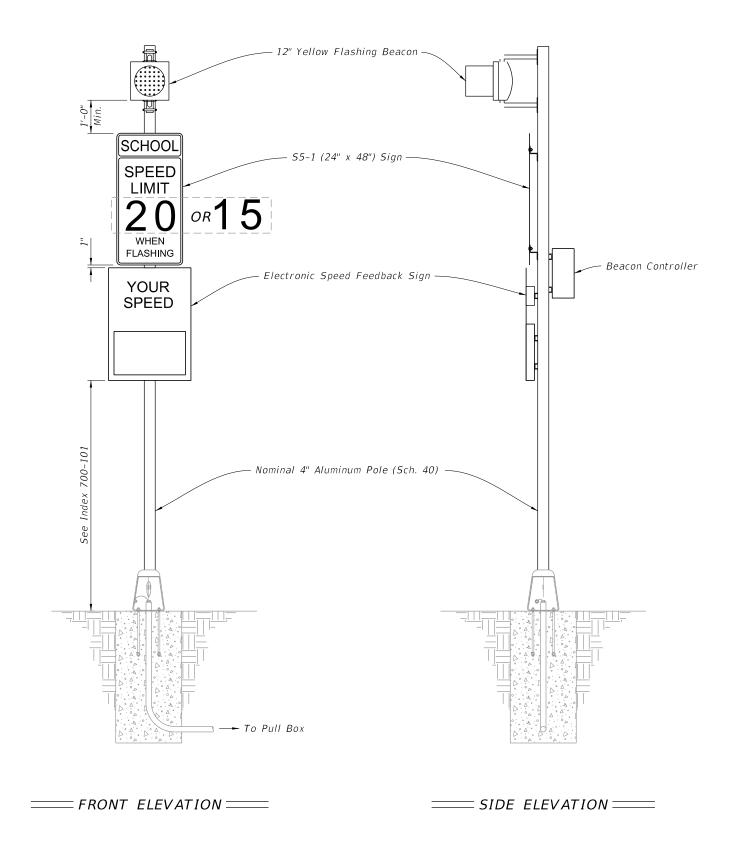
ROADSIDE SIGN ASSEMBLY-2

DESCRIPTION: REVISION **- 11/01/23** *11/01/21*

FDOT

FY 2023-24 STANDARD PLANS INDEX

∆ SHEET 4 of 11



- 1. Type A3 Assembly (conventionally powered) is shown. Type B3 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

CHANGED TO: 6 of 15

ROADSIDE SIGN ASSEMBLY-3

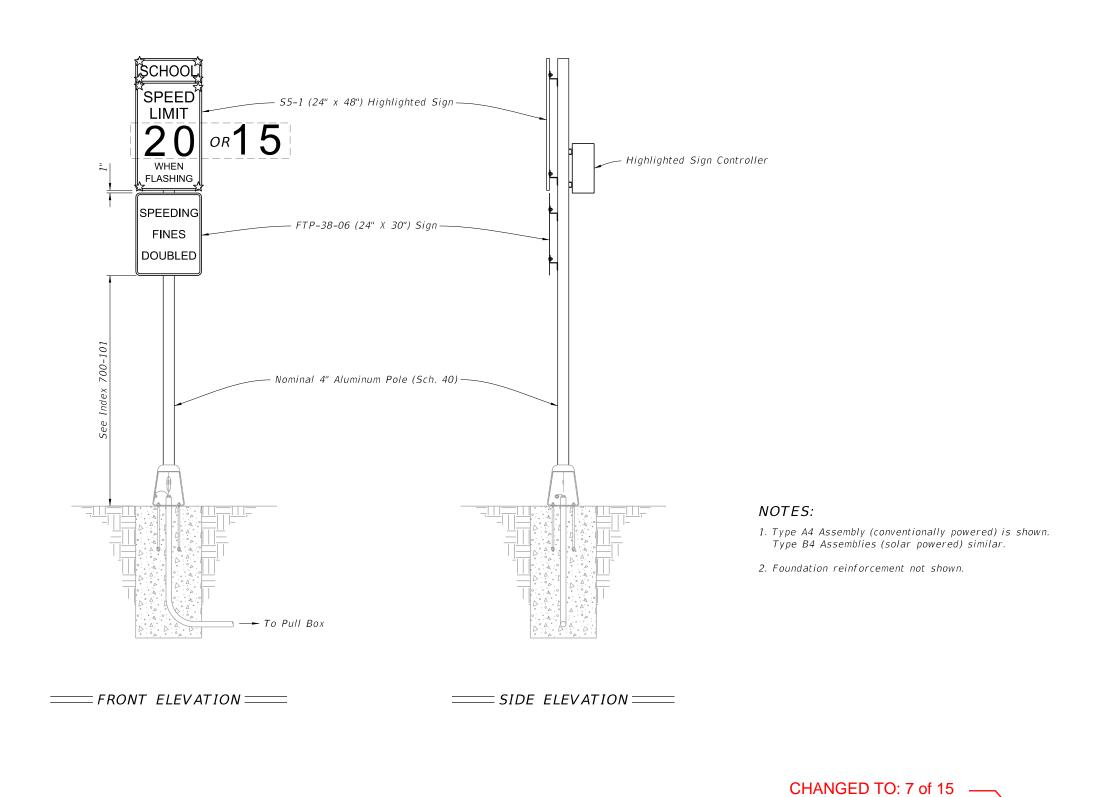
DESCRIPTION: REVISION - 11/01/23 *11/01/21*

FDOT

FY 2023-24 STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

INDEX 700-120 **SHEET** 5 of 11



DESCRIPTION: REVISION **- 11/01/23** 11/01/21

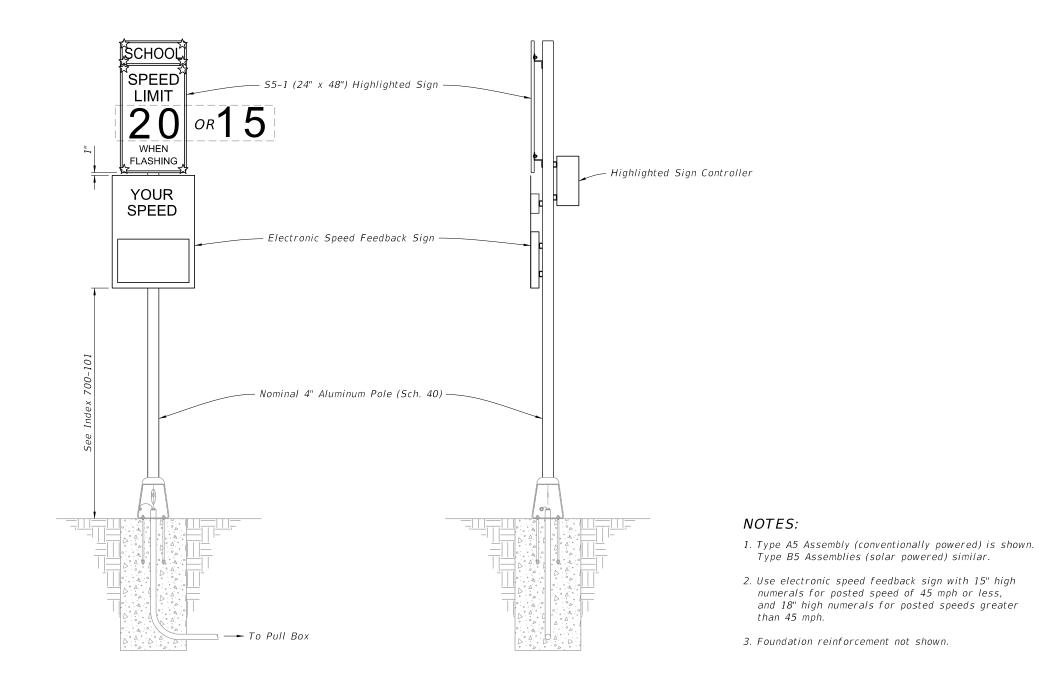
FDOT

FY 2023-24 STANDARD PLANS

INDEX 700-120

ROADSIDE SIGN ASSEMBLY-4

SHEET 6 of 11



CHANGED TO: 8 of 15

ROADSIDE SIGN ASSEMBLY-5

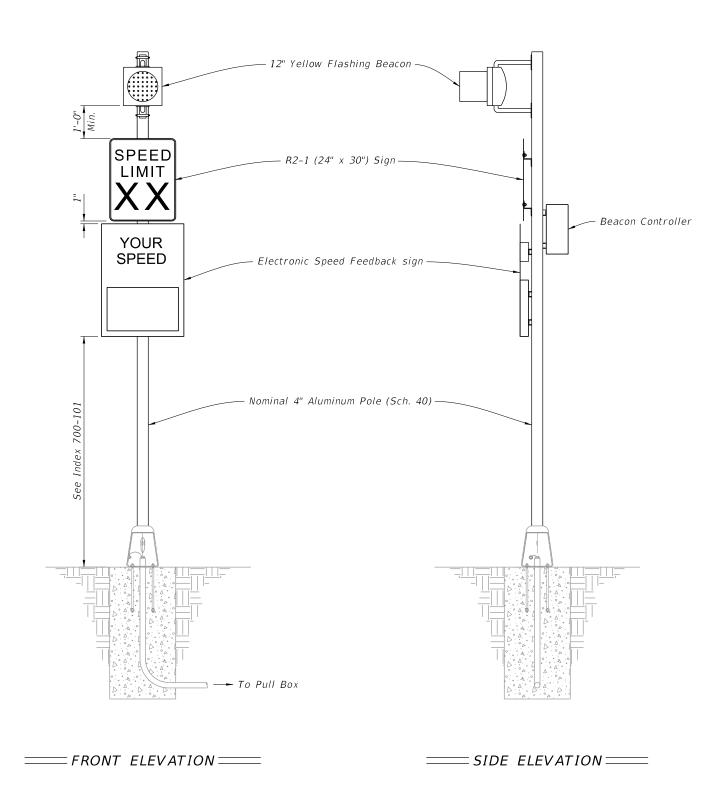
DESCRIPTION: REVISION - 11/01/23 11/01/21

FDOT

FY 2023-24 STANDARD PLANS

==== FRONT ELEVATION =====

==== SIDE ELEVATION =====



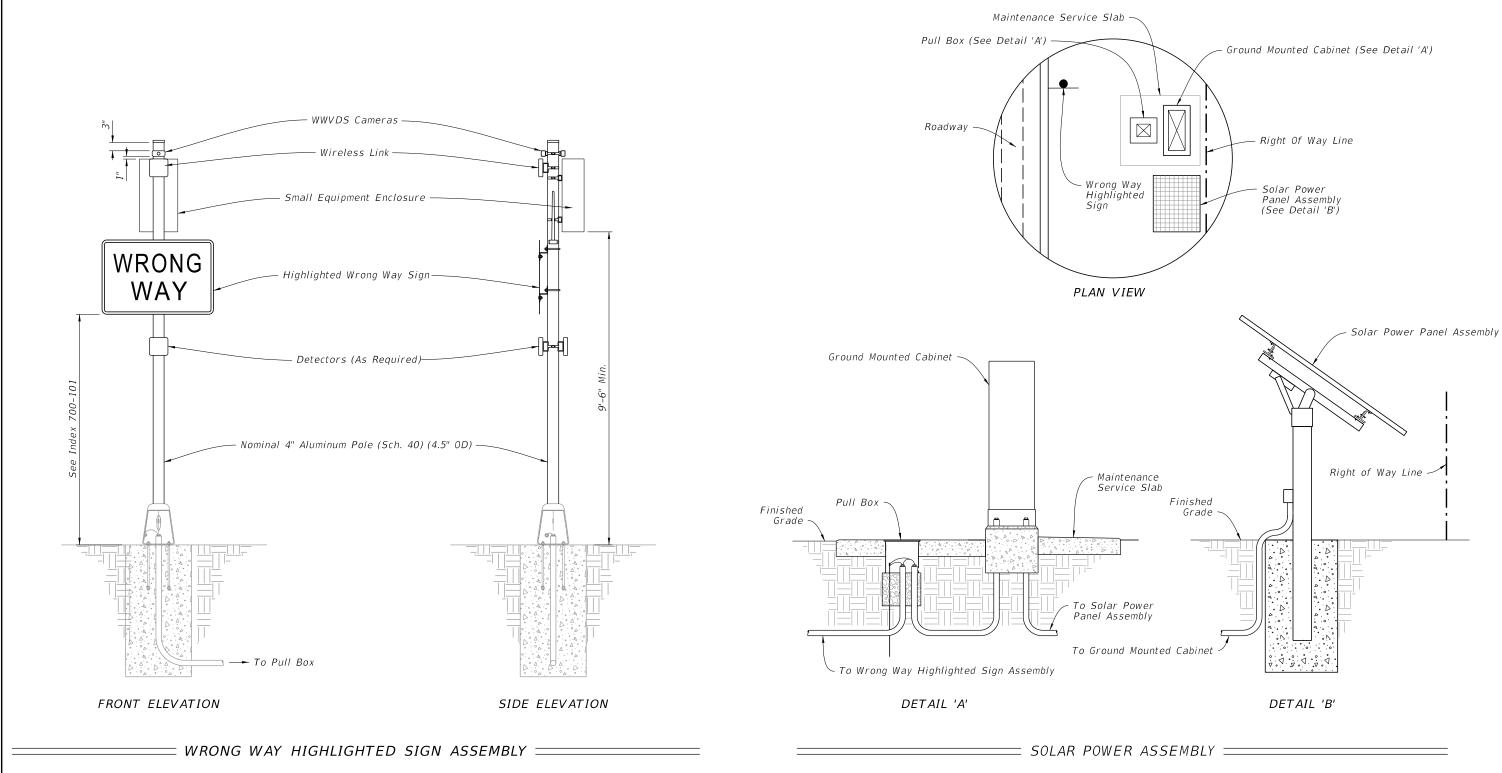
- 1. Type A6 Assembly (conventionally powered) is shown. Type B6 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

CHANGED TO: 9 of 15

ROADSIDE SIGN ASSEMBLY-6

LAST DESCRIPTION:
REVISION 5 11/01/23

FDOT



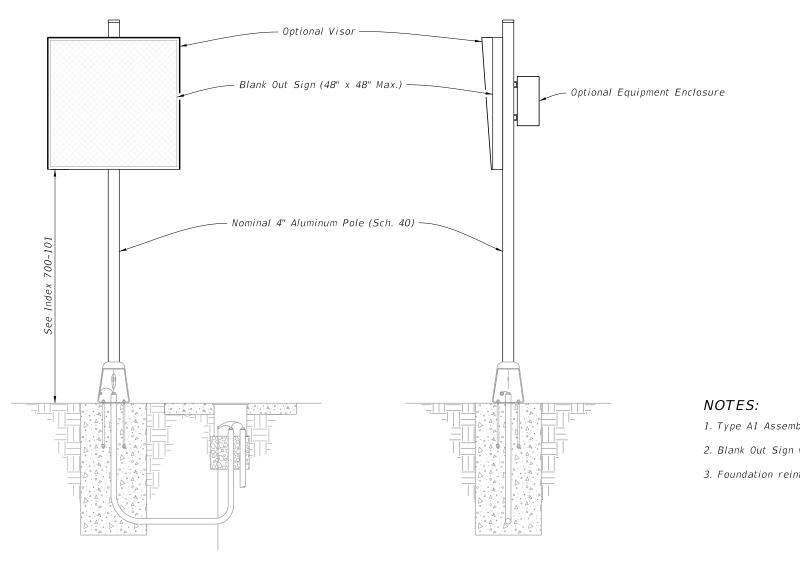
- 1. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
- 2. When a solar powered configuration (Type B7) is called for in the Plans, install a ground mounted cabinet and solar power panel assembly. Install the solar charge controller and batteries in the same ground mounted cabinet. Provide a separate pole for mounting the solar panel (DETAIL 'B' shown for illustration purposes only) and install in accordance with manufacturer's instructions. Locate the Solar Power Assembly as close to the right of way as possible. Orient the solar panel to face South.
- 3. Foundation reinforcement not shown.
- 4. Install cabinets in accordance with Index 676-010.

CHANGED TO: 10 of 15 -

ROADSIDE SIGN ASSEMBLY-7

DESCRIPTION: REVISION - 11/01/23 11/01/22

FDOT



- 1. Type A1 Assembly (conventionally powered) is shown.
- 2. Blank Out Sign visors are optional.
- 3. Foundation reinforcement not shown.

CHANGED TO: 11 of 15 -

ROADSIDE SIGN ASSEMBLY-8

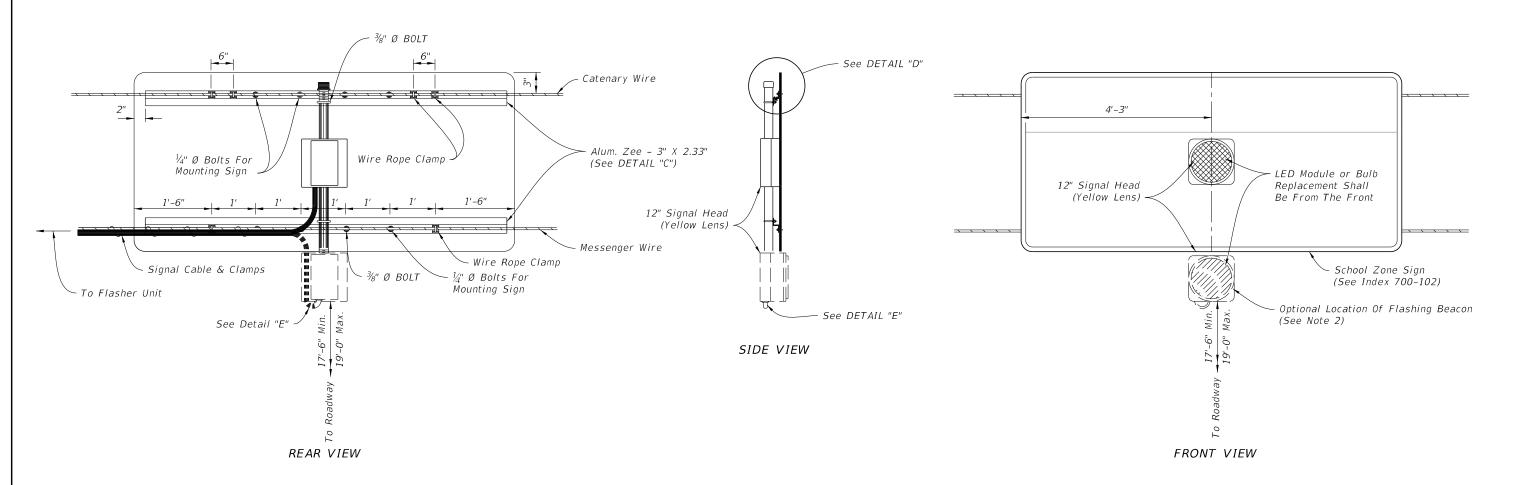
≥ DESCRIPTION: LAST REVISION **- 11/01/23** 11/01/21

FDOT

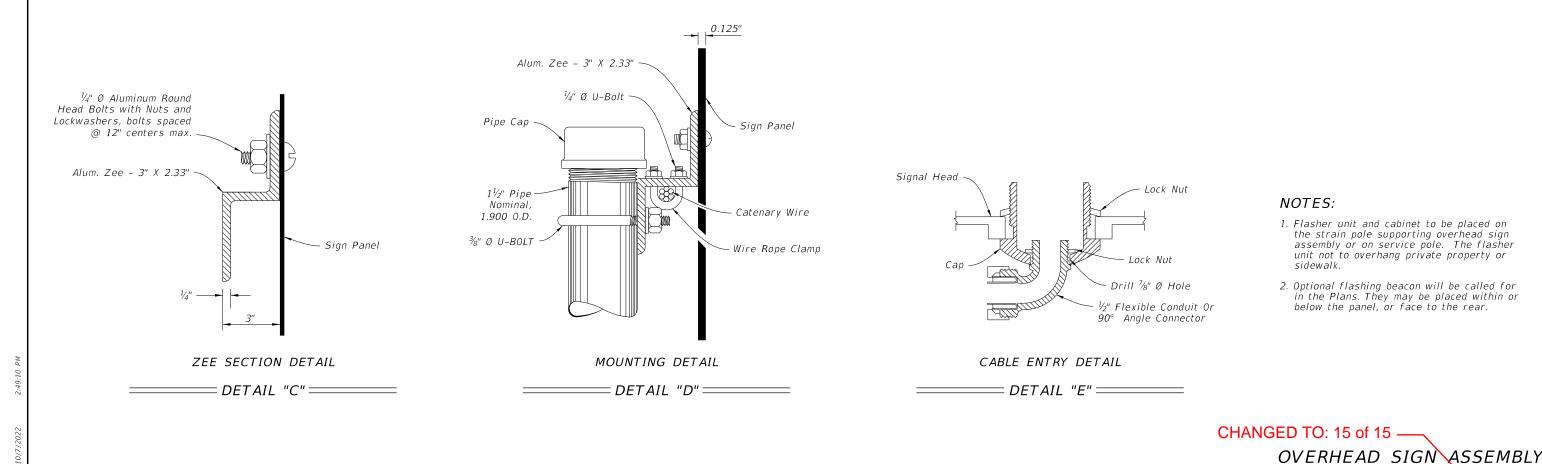
FY 2023-24 STANDARD PLANS

= FRONT ELEVATION ===

= SIDE ELEVATION ==



OVERHEAD SCHOOL SIGN ASSEMBLY =



INDEX

700-120

ENHANCED HIGHWAY SIGNING ASSEMBLIES

SHEET

11 of 11

FY 2023-24

STANDARD PLANS

FDOT

DESCRIPTION:

- 11/01/23

REVISION

11/01/21

TABLE OF CONTENTS:				
Sheet	Description			
1	General Notes and Contents			
2	Conduit, Wiring, and Foundation Details			
3	Spread Footing Foundation			
4	Roadside Sign Assembly-1			
5	Roadside Sign Assembly-2			
6	Roadside Sign Assembly-3			
7	Roadside Sign Assembly-4			
8	Roadside Sign Assembly-5			
9	Roadside Sign Assembly-6			
10	Roadside Sign Assembly-7			
11	Roadside Sign Assembly-8			
12	Roadside Sign Assembly-9			
13	Roadside Sign Assembly-10			
14	Roadside Sign Assembly-11			
15	Overhead Sign Assembly			

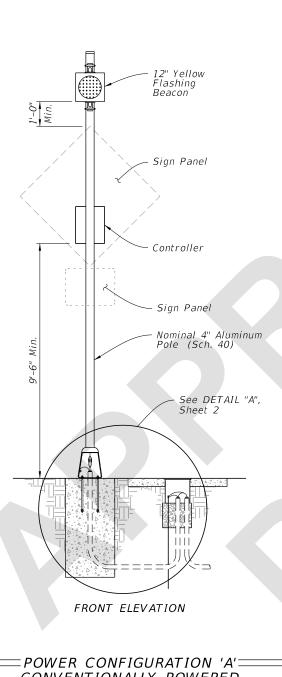
GENERAL NOTES:

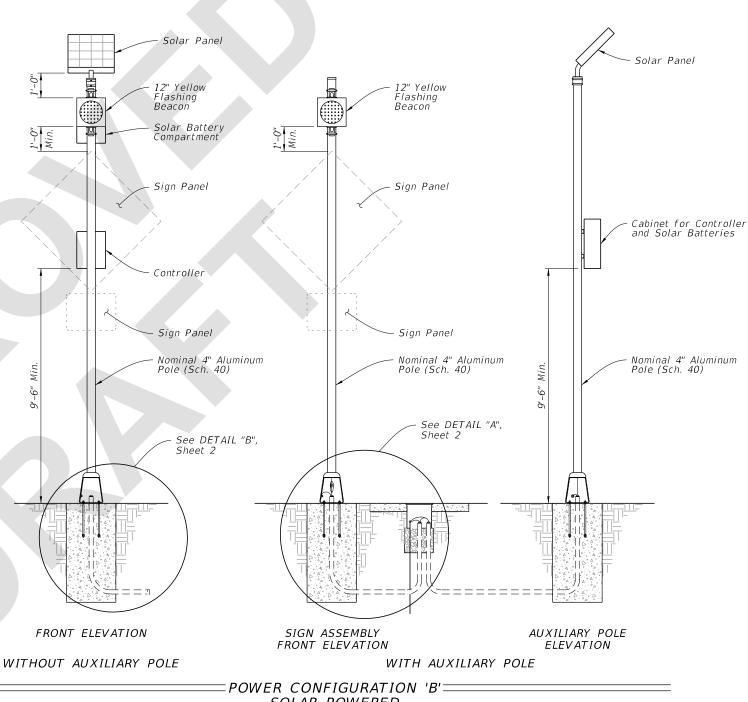
- 1. Meet the regirements of Specifications 646 and 700.
- 2. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
- 3. Install a concrete slab around all roadside assemblies on slopes 6:1 or greater. The minimum slab dimension is 6" by 4'-0" by 5'-0".
- 4. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.

POWER CONFIGURATION 'B' NOTES:

- 1. Install a separate pole for mounting the solar panel, controller and batteries for all roadside assemblies with solar panels, controllers and batteries weighing more than 170 lbs.
- 2. Install the auxiliary pole as close to the right of way boundary as possible.
- 3. Install the auxiliary pole so that the height is the same as the column for the roadside assembly.
- 4. Orient solar panel to face South for optimal exposure to sunlight.
- 5. The controller and the solar batteries may be located in the same compartment.

DESCRIPTION:





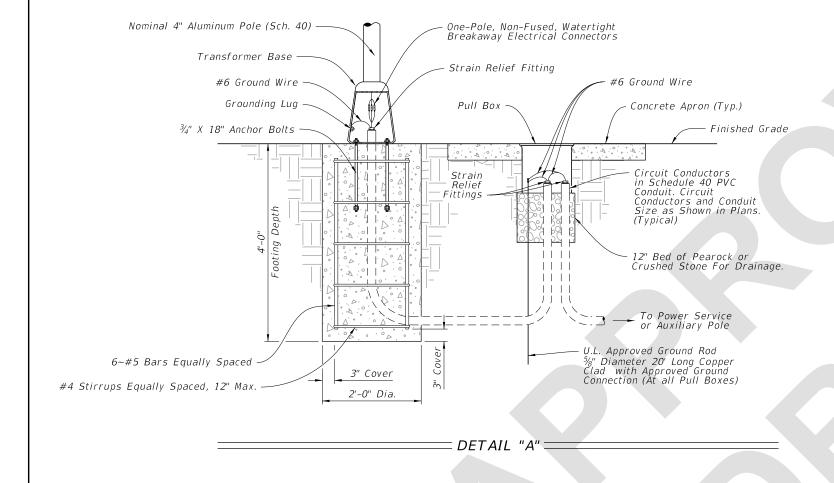
CONVENTIONALLY POWERED (Type A1 Shown)

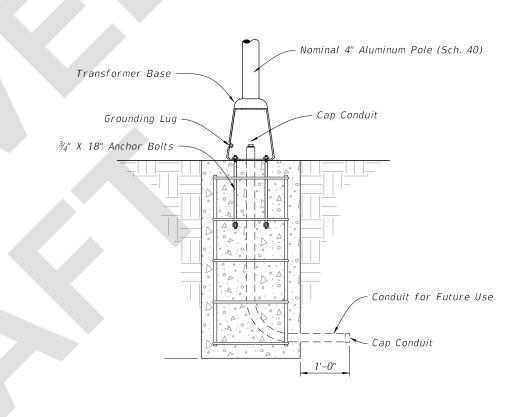
SOLAR POWERED (Type B1 Shown)

REVISION 11/01/23



1 of 15





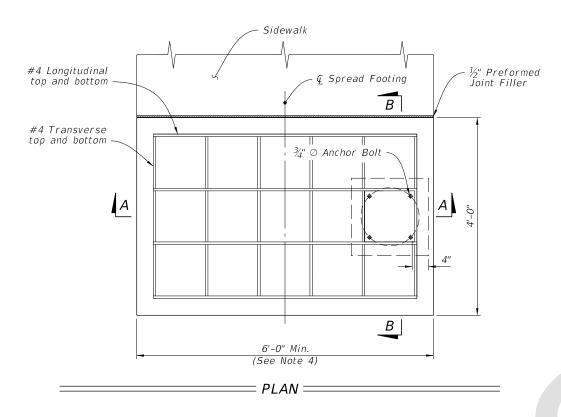
______ DETAIL "B" ==

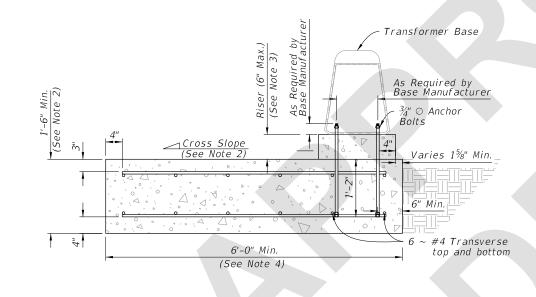
CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION 11/01/23

DESCRIPTION:

FDOT

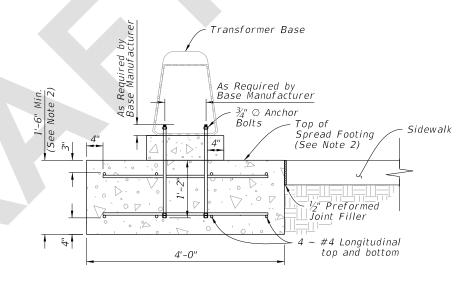




SECTION A-A

NOTES:

- 1. Install the Spread Footing Foundation only where called for in the Plans.
- 2. SIDEWALK:
 - a. When abutting sidewalk, match the cross slope of the adjacent sidewalk or curb ramp where applicable. Maintain the minimum depth of footing.
 - b. $\frac{1}{2}$ " expansion preformed joint filler required between sidewalk and spread footing.
 - c. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
 - d. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans.
- 3. Only use concrete riser when installed in-line with sidewalk curb that results in a drop off to the adjacent sidewalk.
- 4. For sidewalks greater than 6', match sidewalk width. Add one #4 transverse bar, top and bottom, per additional foot of spread footing to maintain at minimum the same reinforcement area per foot.
- 5. Base location can vary on spread footing. Location shown in Plans.



= SECTION B-B =====

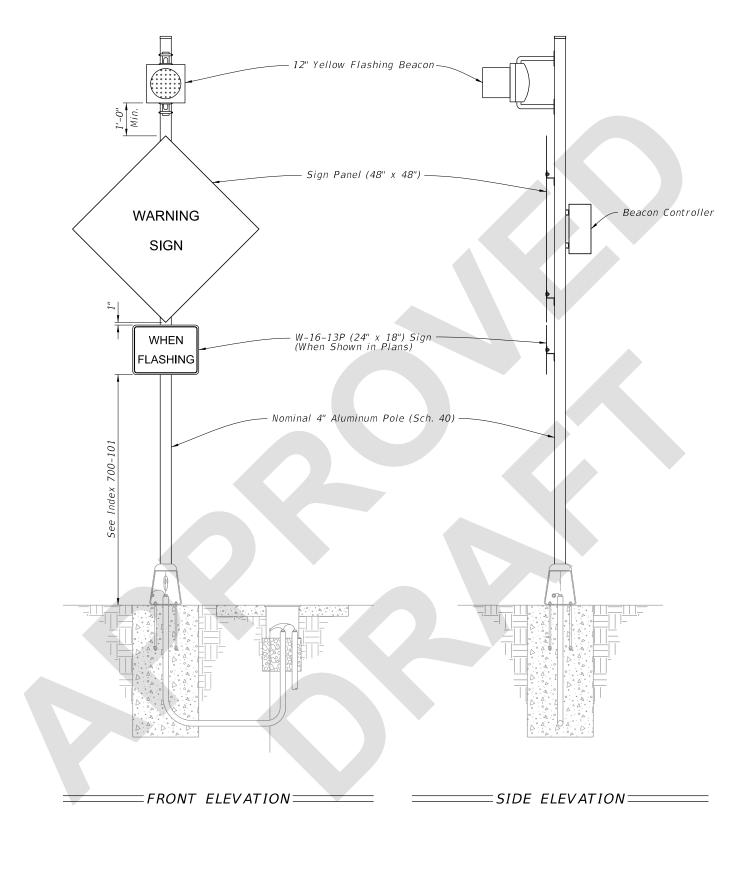
SPREAD FOOTING FOUNDATION

LAST REVISION 11/01/23

DESCRIPTION:

FDOT

SHEET

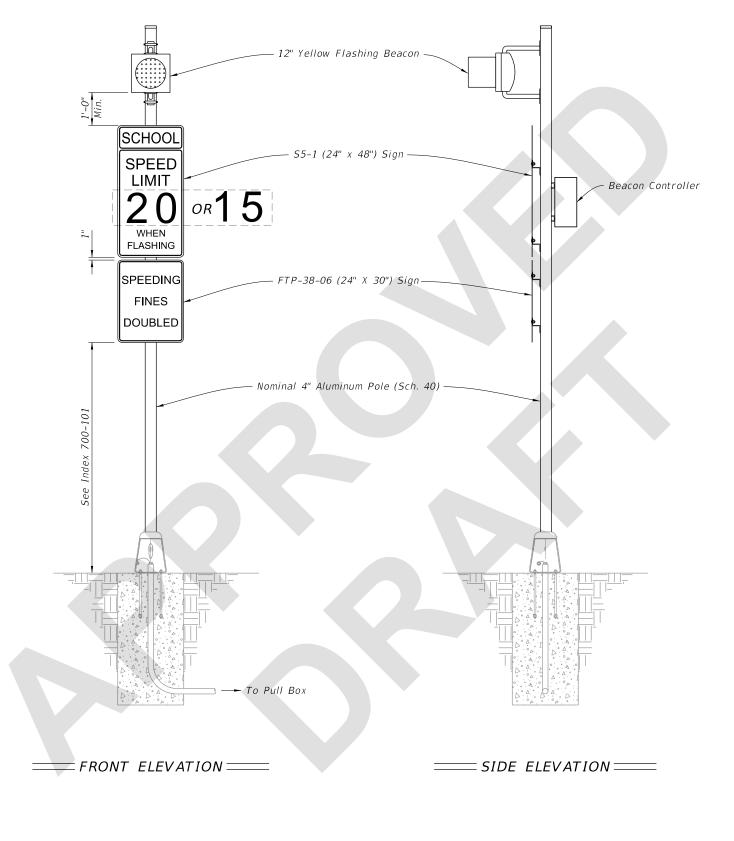


- 1. Type A1 Assembly (conventionally powered) is shown. Type B1 Assemblies (solar powered) similar.
- 2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-1

DESCRIPTION: REVISION 11/01/23

FDOT

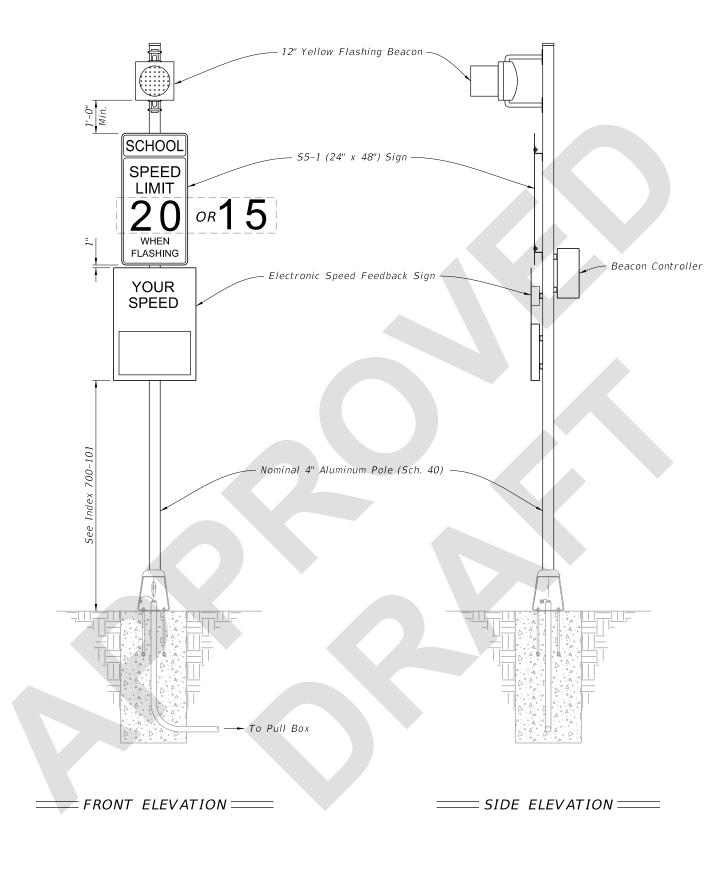


- 1. Type A2 Assembly (conventionally powered) is shown. Type B2 Assemblies (solar powered) similar.
- 2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-2

REVISION 11/01/23 DESCRIPTION:

FDOT

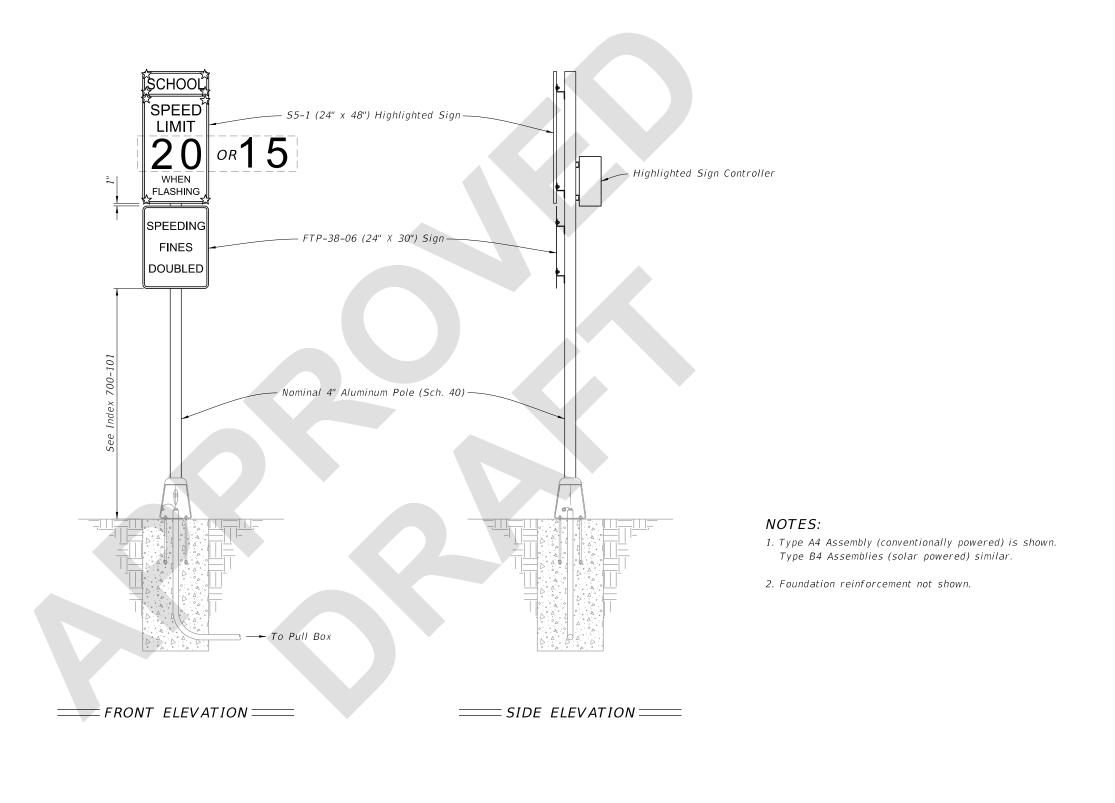


- 1. Type A3 Assembly (conventionally powered) is shown. Type B3 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-3

LAST REVISION 11/01/23

FDOT

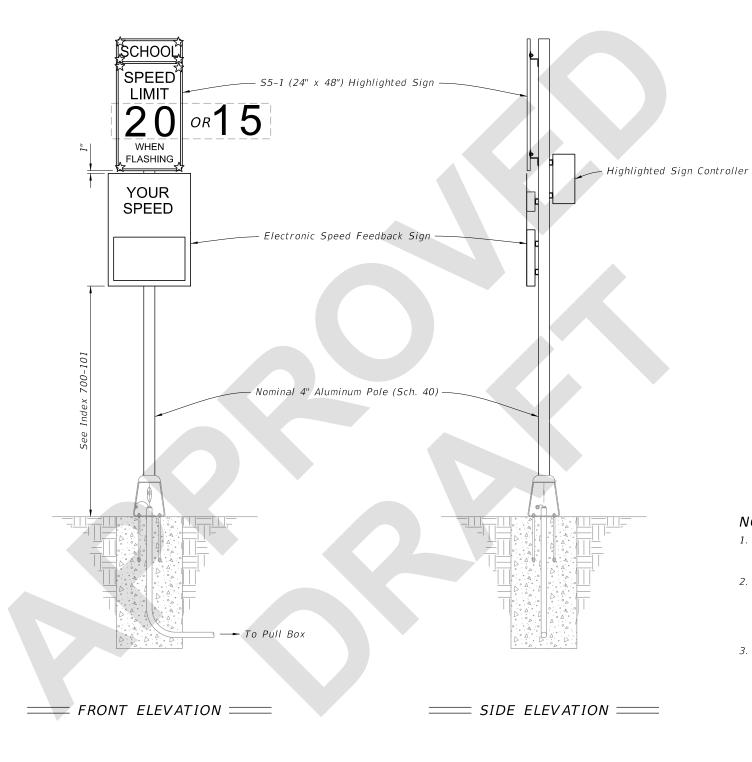


REVISION 11/01/23

DESCRIPTION:

FDOT

ROADSIDE SIGN ASSEMBLY-4



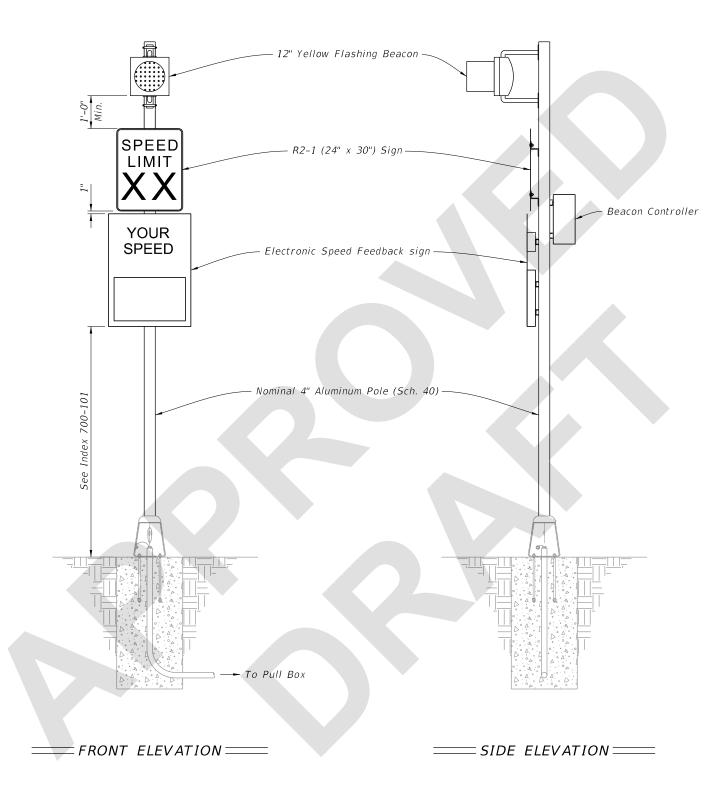
- 1. Type A5 Assembly (conventionally powered) is shown. Type B5 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-5

LAST REVISION 11/01/23

DESCRIPTION:

FDOT



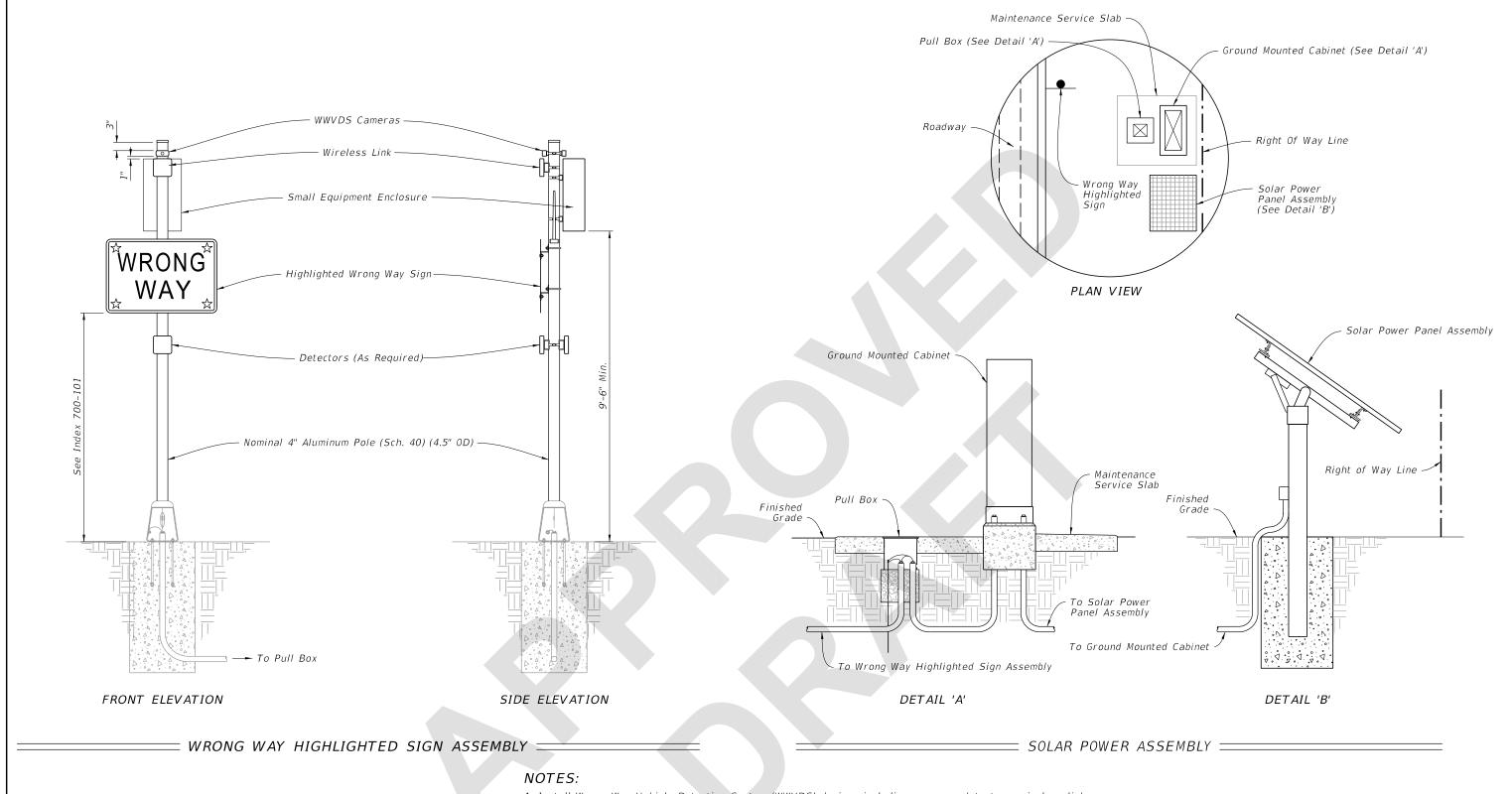
- 1. Type A6 Assembly (conventionally powered) is shown. Type B6 Assemblies (solar powered) similar.
- 2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
- 3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-6

REVISION 11/01/23

DESCRIPTION:

FDOT

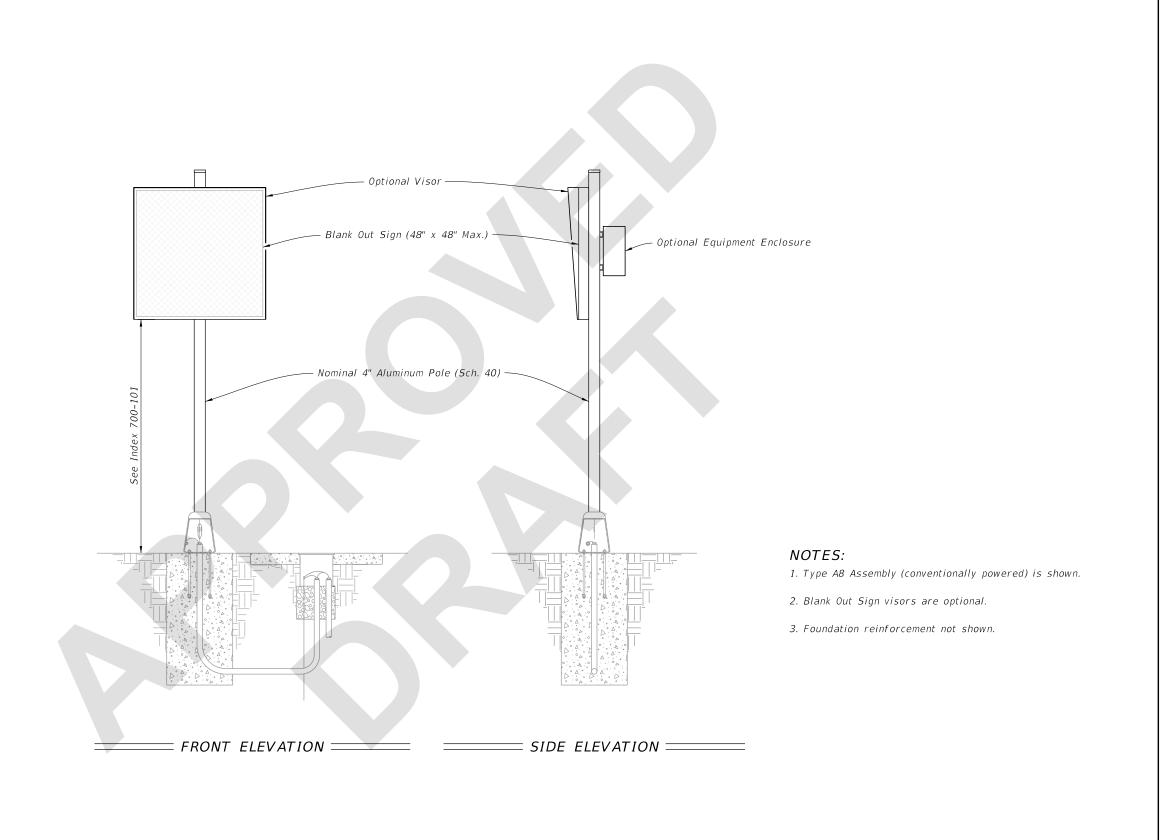


- 1. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
- 2. When a solar powered configuration (Type B7) is called for in the Plans, install a ground mounted cabinet and solar power panel assembly. Install the solar charge controller and batteries in the same ground mounted cabinet. Provide a separate pole for mounting the solar panel (DETAIL 'B' shown for illustration purposes only) and install in accordance with manufacturer's instructions. Locate the Solar Power Assembly as close to the right of way as possible. Orient the solar panel to face South.
- 3. Foundation reinforcement not shown.
- 4. Install cabinets in accordance with Index 676-010.

ROADSIDE SIGN ASSEMBLY-7

REVISION 11/01/23 DESCRIPTION:

FDOT



LAST REVISION 11/01/23

≥ DESCRIPTION:

FDOT

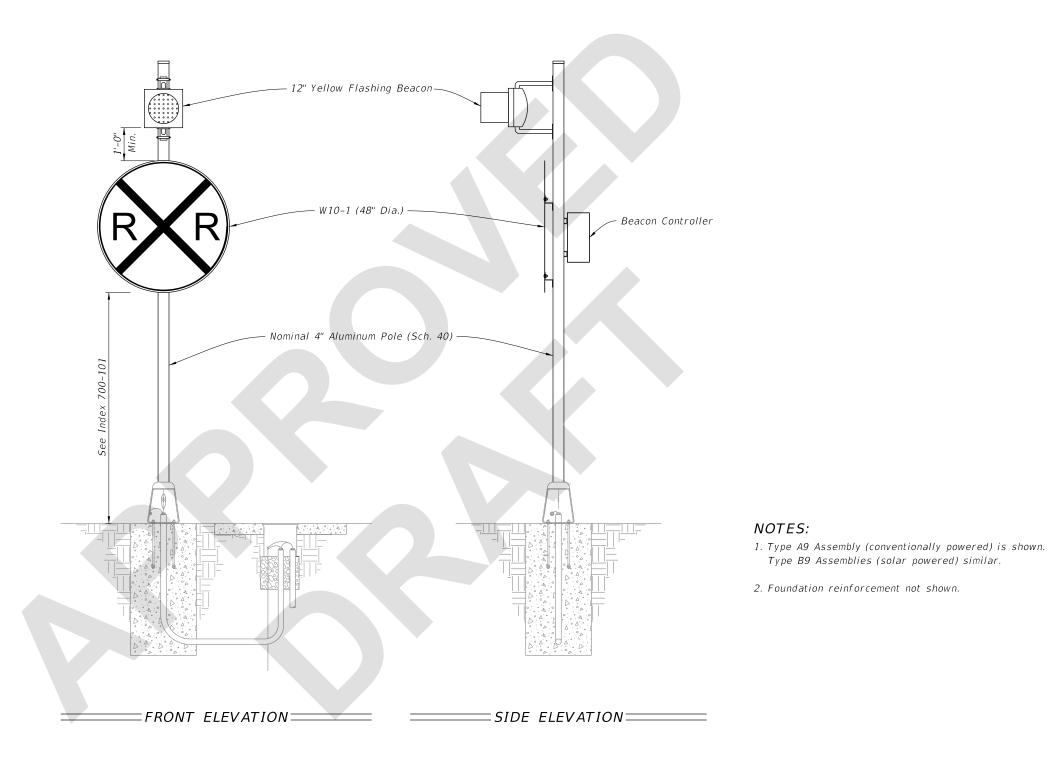
FY 2024-25 STANDARD PLANS

INDEX 700-120

ROADSIDE SIGN ASSEMBLY-8

SHEET

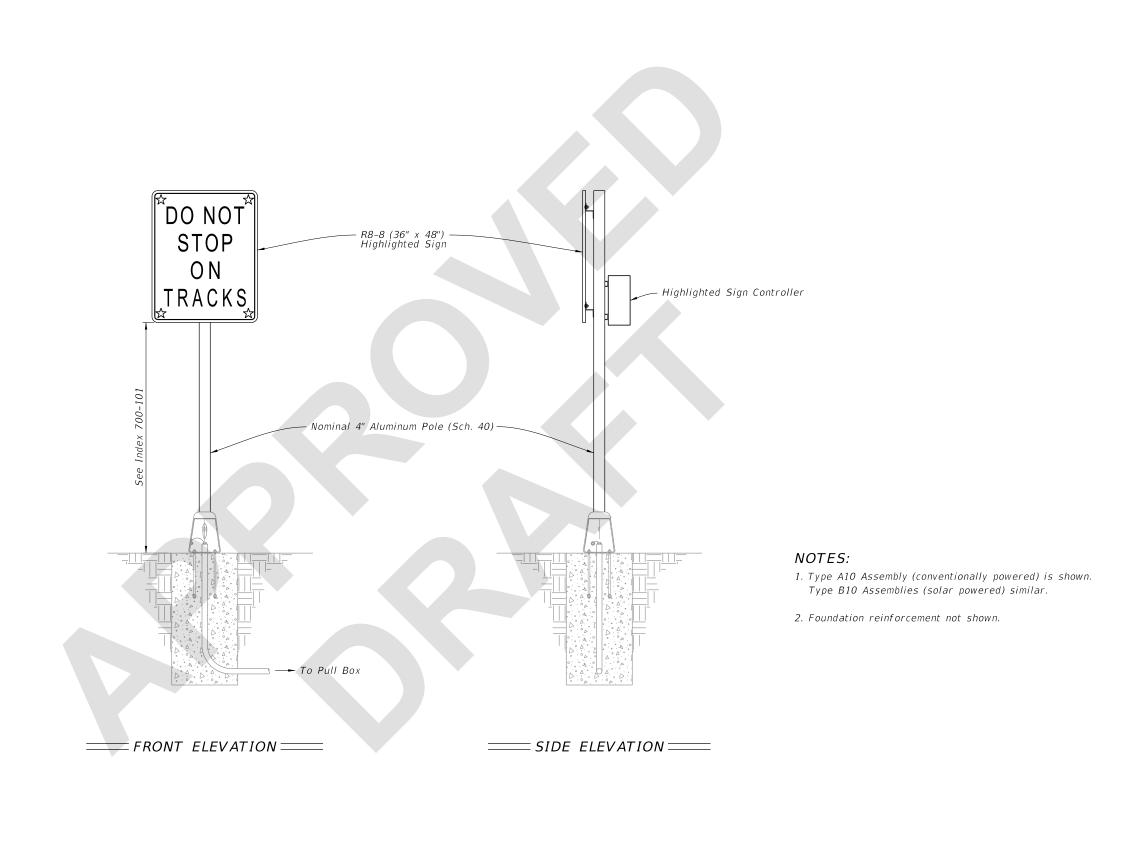
ENHANCED HIGHWAY SIGNING ASSEMBLIES



ROADSIDE SIGN ASSEMBLY-9

≥ DESCRIPTION: REVISION 11/01/23

FDOT



REVISION 11/01/23

DESCRIPTION:

FDOT

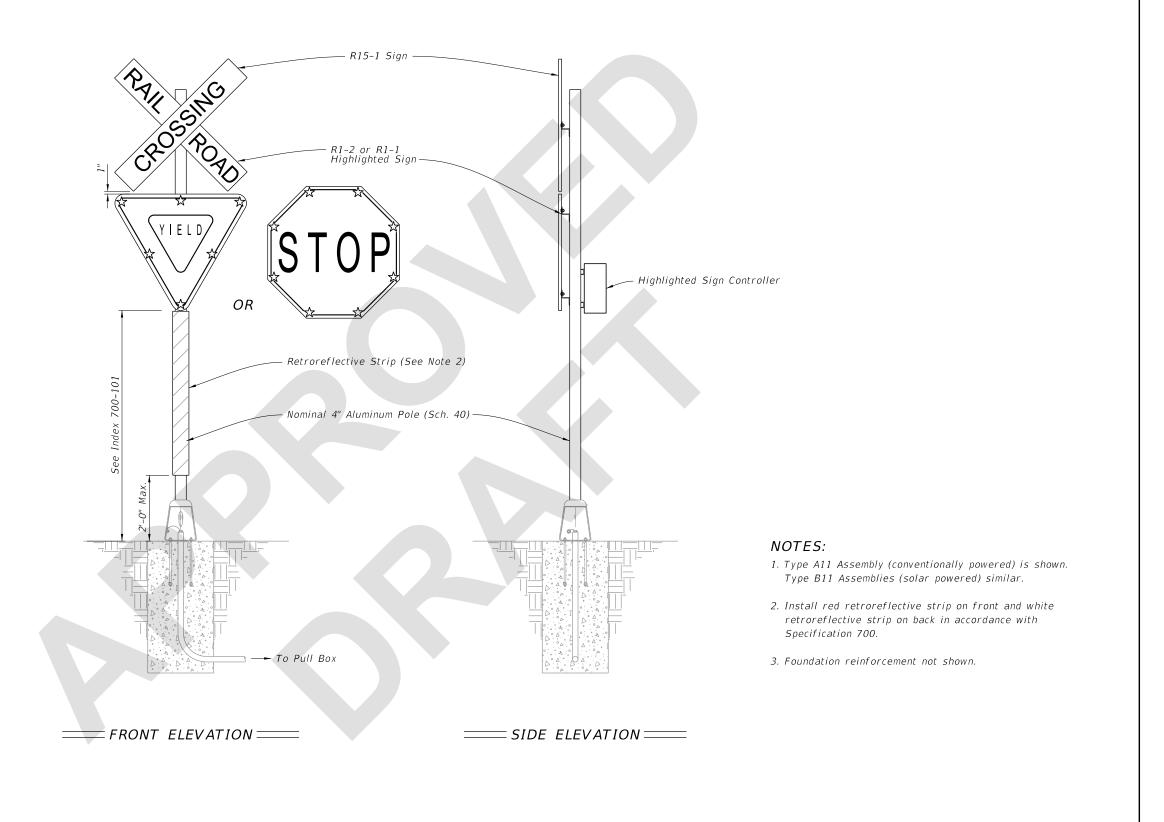
FY 2024-25 STANDARD PLANS ROADSIDE SIGN ASSEMBLY-10

ENHANCED HIGHWAY SIGNING ASSEMBLIES

INDEX

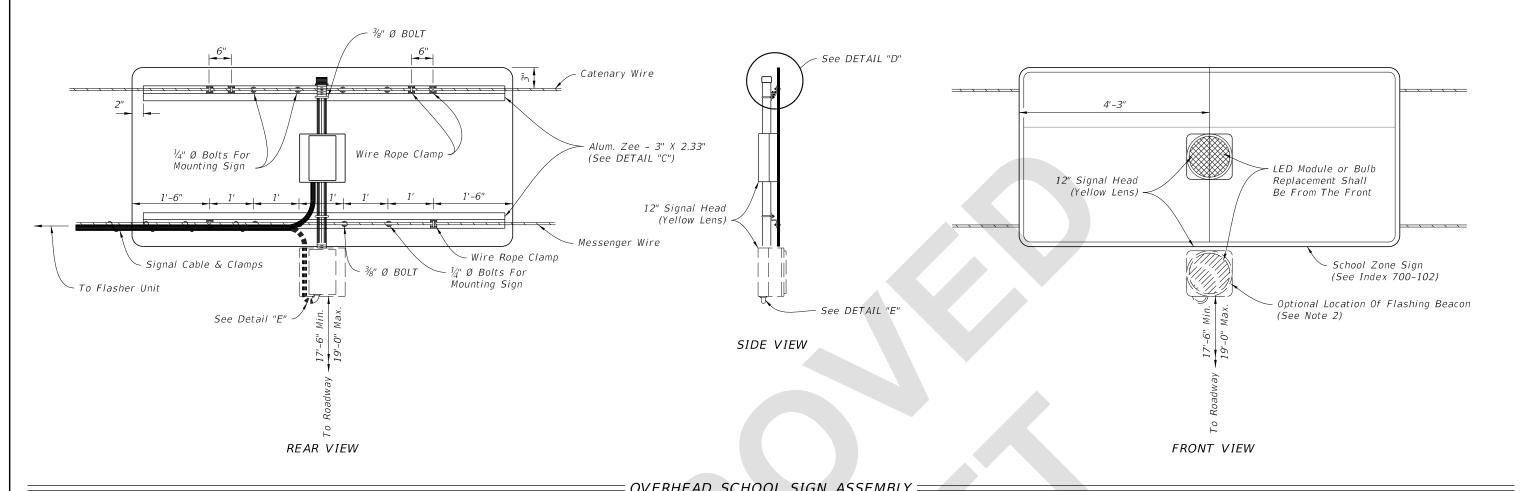
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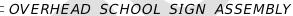
SHEET

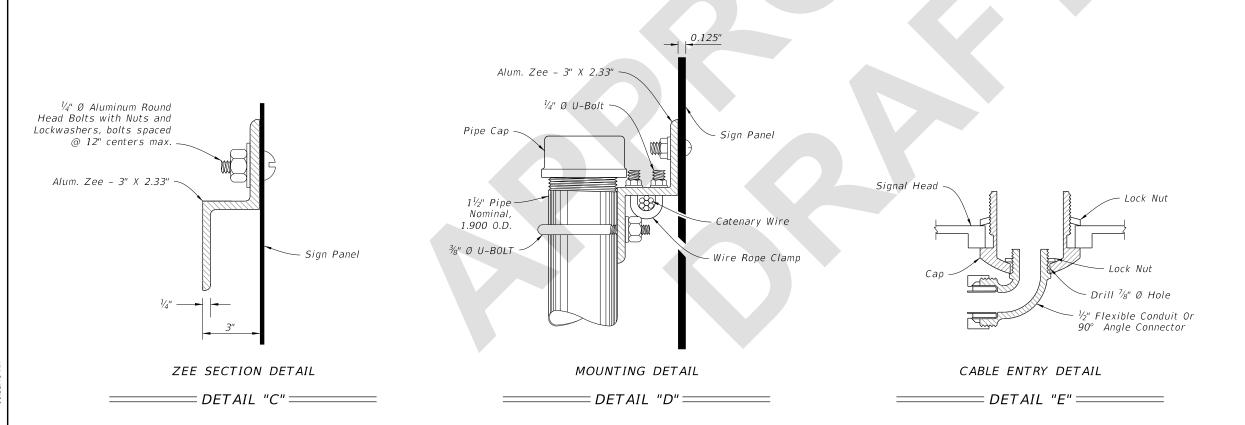


DESCRIPTION: REVISION 11/01/23

FDOT







- 1. Flasher unit and cabinet to be placed on the strain pole supporting overhead sign assembly or on service pole. The flasher unit not to overhang private property or sidewalk.
- 2. Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.

OVERHEAD SIGN ASSEMBLY

REVISION 11/01/23

DESCRIPTION:

FDOT

FY 2024-25 STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

INDEX

SHEET