
ORIGINATION FORM

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

Standard Plans:

Index Number: 700-120
Sheet Number (s): All
Index Title: Enhanced Highway Signing Assemblies

Summary of the changes:

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.

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.

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

Yes	No	
☒	☐	Other Standard Plans – 646-001, 653-001, 654-001
☐	☒	FDOT Design Manual –
☒	☐	Basis of Estimates Manual – Ryan Gray
☐	☒	Standard Specifications –
☐	☒	Approved Product List –
☐	☐	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)

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

ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

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

Contact Information:

Date: June 29, 2023

Originator: Dana Knox

Phone: (850) 410-5413

Email: Dana.Knox@dot.state.fl.us

Standard Plans:

Index Number: 700-120

Sheet Number (s): 11

Index Title: Enhanced Highway Signing Assemblies

Summary of the changes:

Added note 3 "Opening for 12" signal head shall be done in the field in accordance with the manufacturers specifications".

Added 2 call outs one on side view "Field cut signal head opening (See note 3) and the other for front view "Field cut signal head opening in center of sign panel (See Note 3).

Commentary / Background:

Section 700 of SSRBC will need to be updated to include this requirement.

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

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☐	☒	Basis of Estimates Manual –
☒	☐	Standard Specifications – Daniel Strickland
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes: (Submit package to Rick Jenkins)

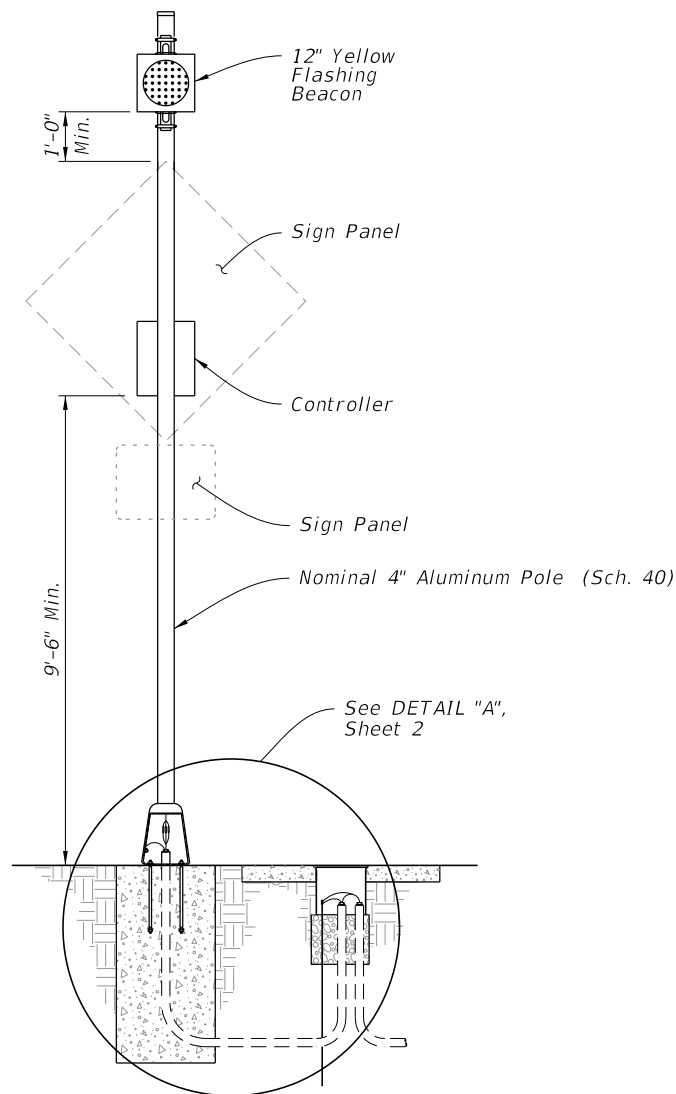
Yes	N/A	
☒	☐	Redline Mark-ups
☐	☐	Revised or Proposed Standard Plan Instruction (SPI)
☐	☐	Other Support Documents

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

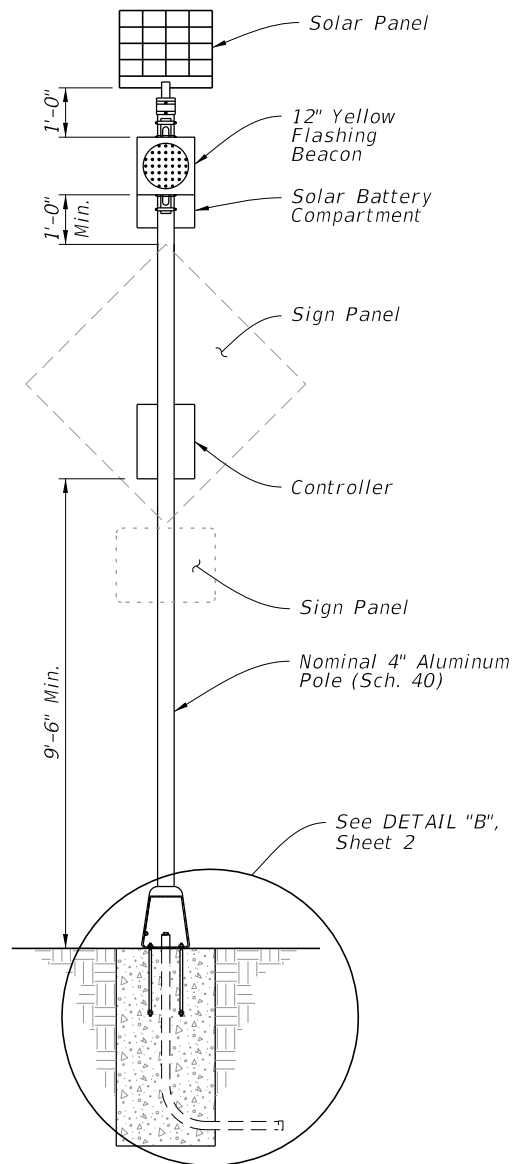


FRONT ELEVATION

POWER CONFIGURATION 'A'
CONVENTIONALLY POWERED
(Type A1 Shown)

GENERAL NOTES:

1. Meet the requirements 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.

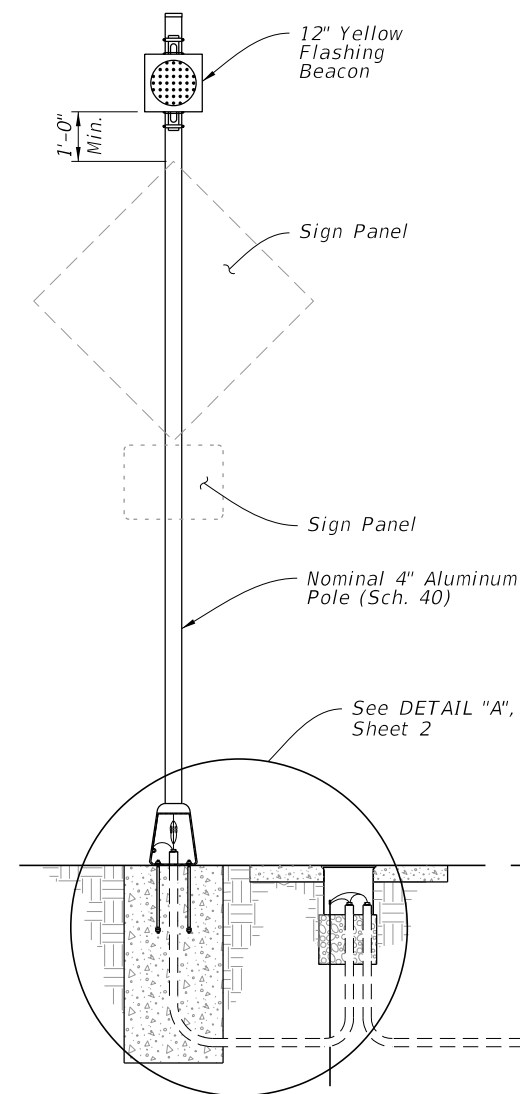


FRONT ELEVATION

WITHOUT AUXILIARY POLE

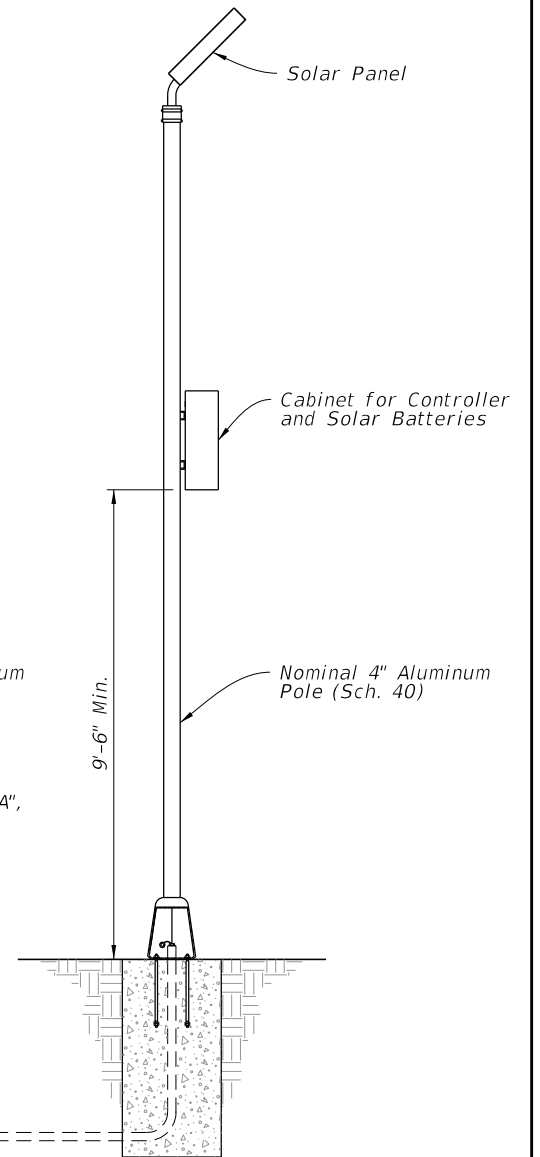
POWER CONFIGURATION 'B' NOTES:

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.



SIGN ASSEMBLY
FRONT ELEVATION

WITH AUXILIARY POLE



AUXILIARY POLE
ELEVATION

POWER CONFIGURATION 'B'
SOLAR POWERED
(Type B1 Shown)

TABLE OF CONTENTS:

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

10/7/2022 2:48:47 PM

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



FY 2023-24
STANDARD PLANS

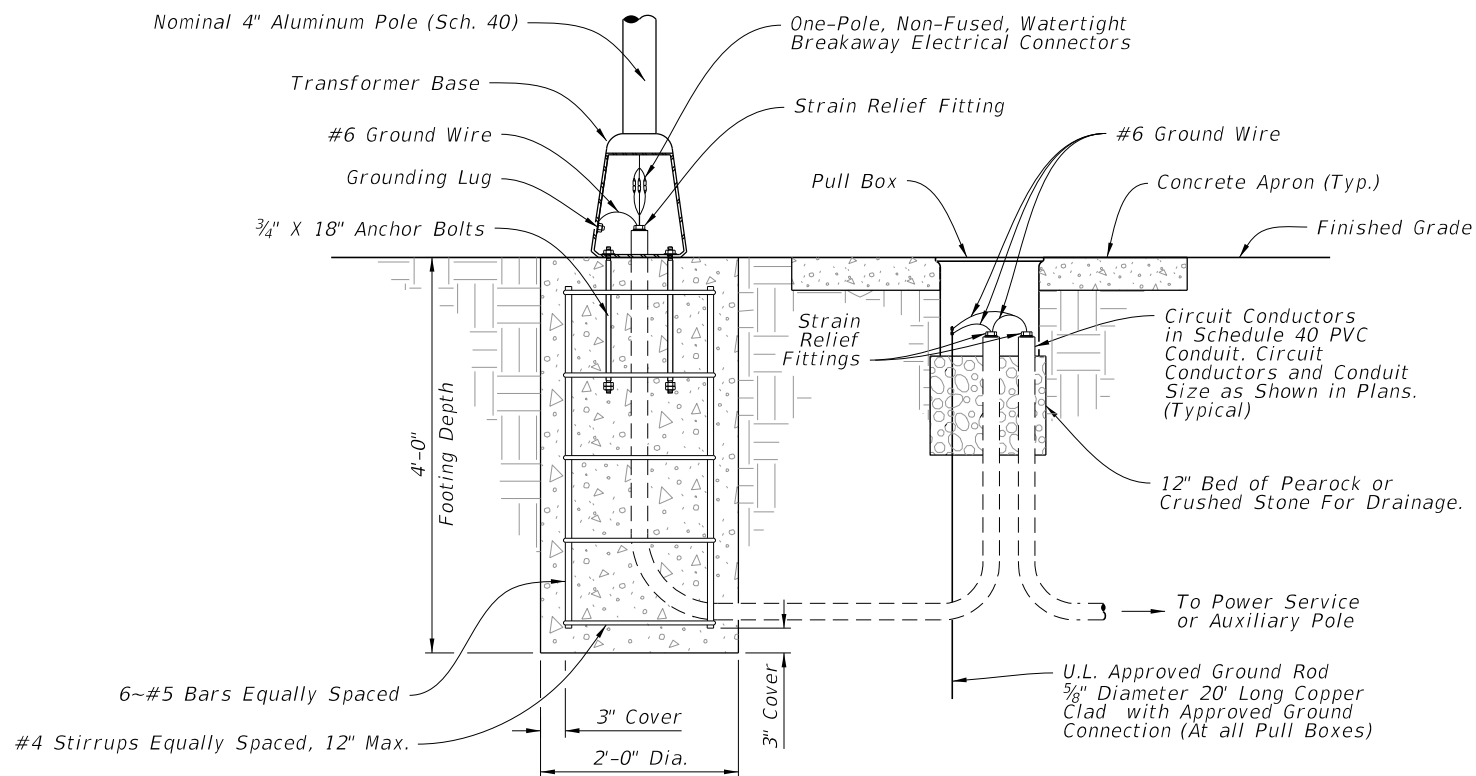
ENHANCED HIGHWAY SIGNING ASSEMBLIES

CHANGED TO: 1 of 15

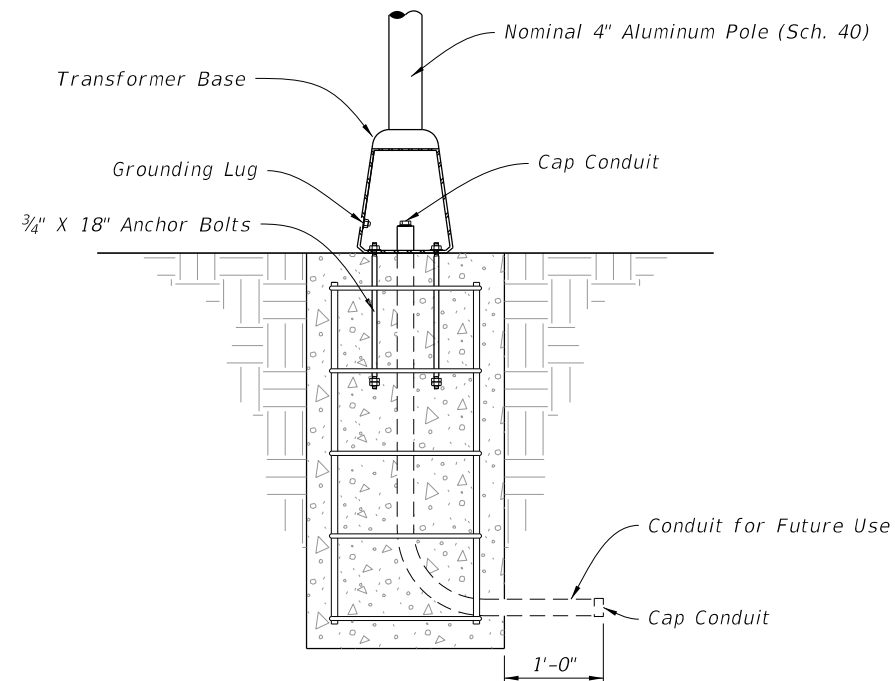
INDEX
700-120

SHEET
1 of 11

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DETAIL "A"



DETAIL "B"

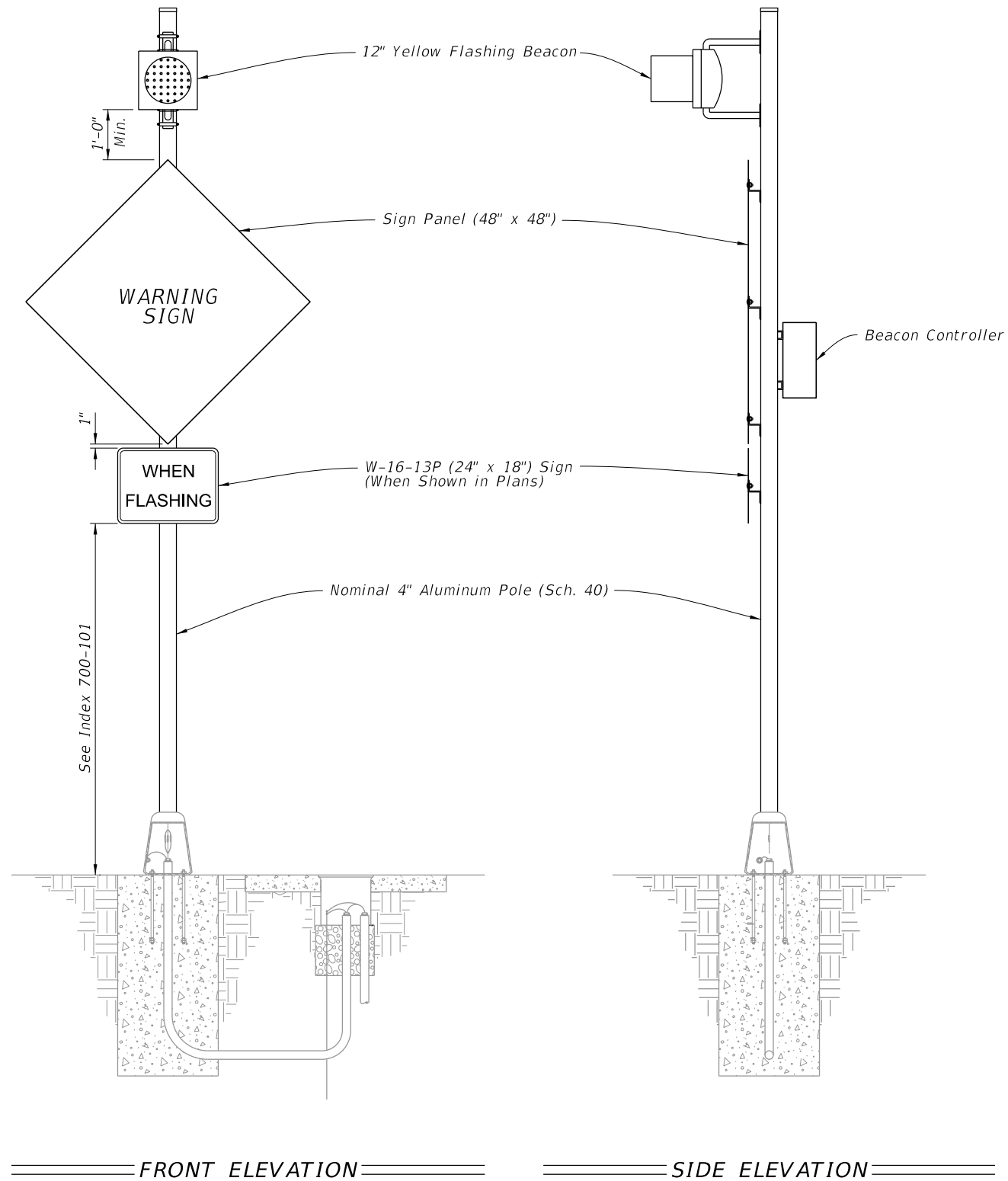
CHANGED TO: 2 of 15

CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
11/01/21	11/01/23				700-120	2 of 11

NEW SHEET 3

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NOTES:

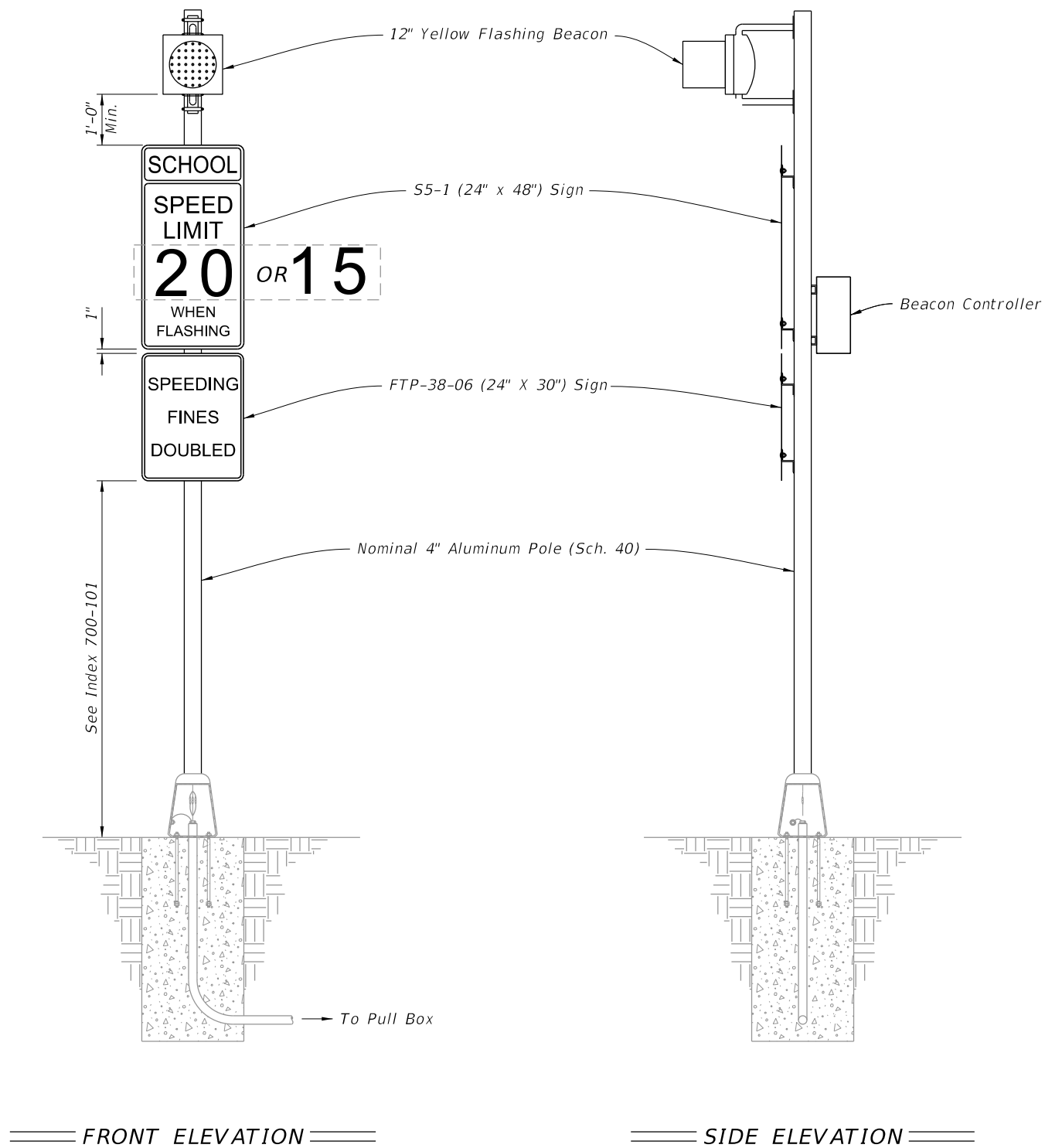
1. Type A1 Assembly (conventionally powered) is shown.
Type B1 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

CHANGED TO: 4 of 15

ROADSIDE SIGN ASSEMBLY-1

LAST REVISION 11/01/21	DESCRIPTION: 11/01/23	FDOT FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 3 of 11
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10/7/2022 2:48:53 PM



NOTES:

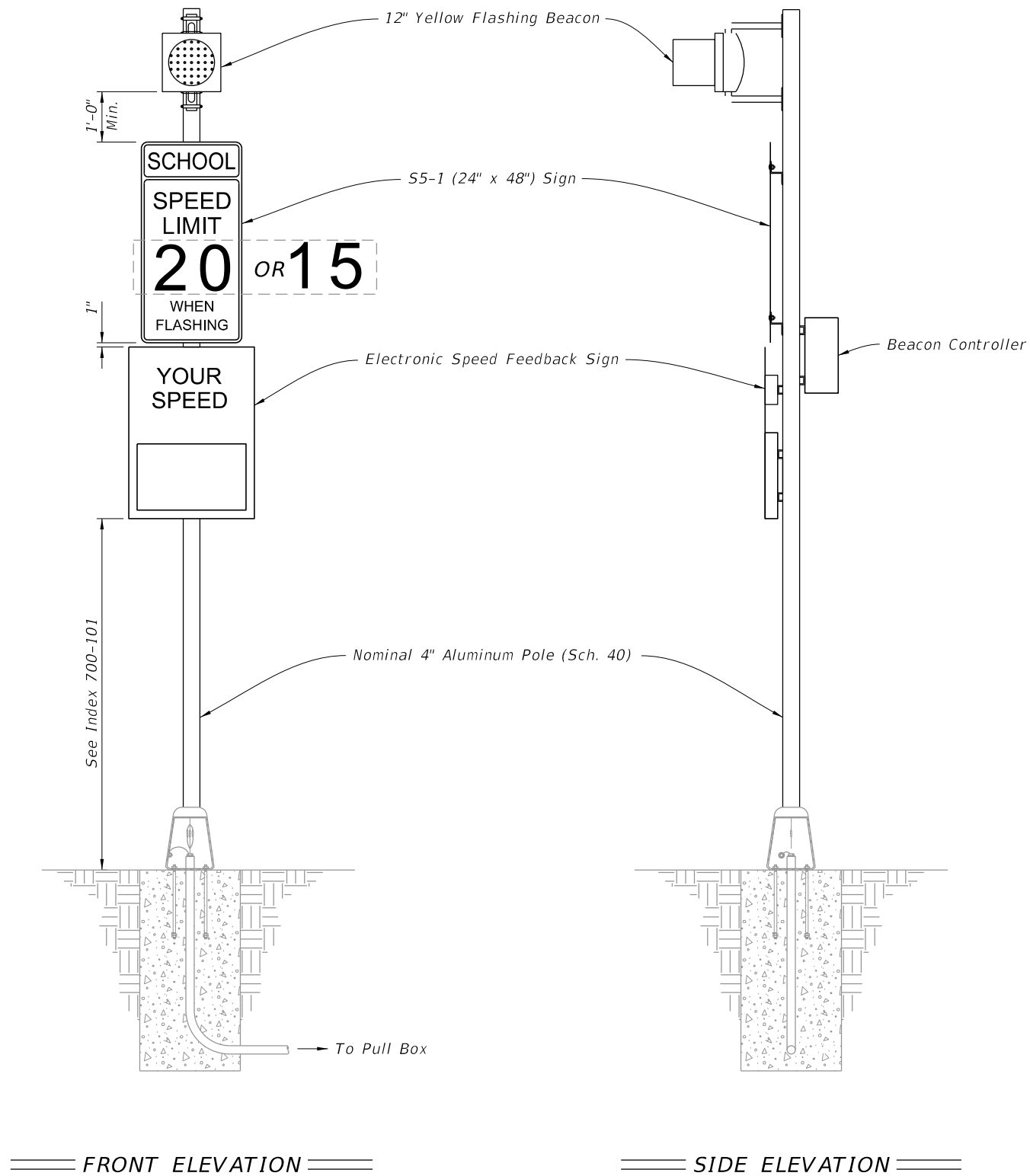
1. Type A2 Assembly (conventionally powered) is shown.
Type B2 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

CHANGED TO: 5 of 15

ROADSIDE SIGN ASSEMBLY-2

LAST REVISION		DESCRIPTION:	FY 2023-24 STANDARD PLANS		ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
11/01/21		11/01/23	FDOT			700-120	4 of 11

10/7/2022 2:48:55 PM



NOTES:

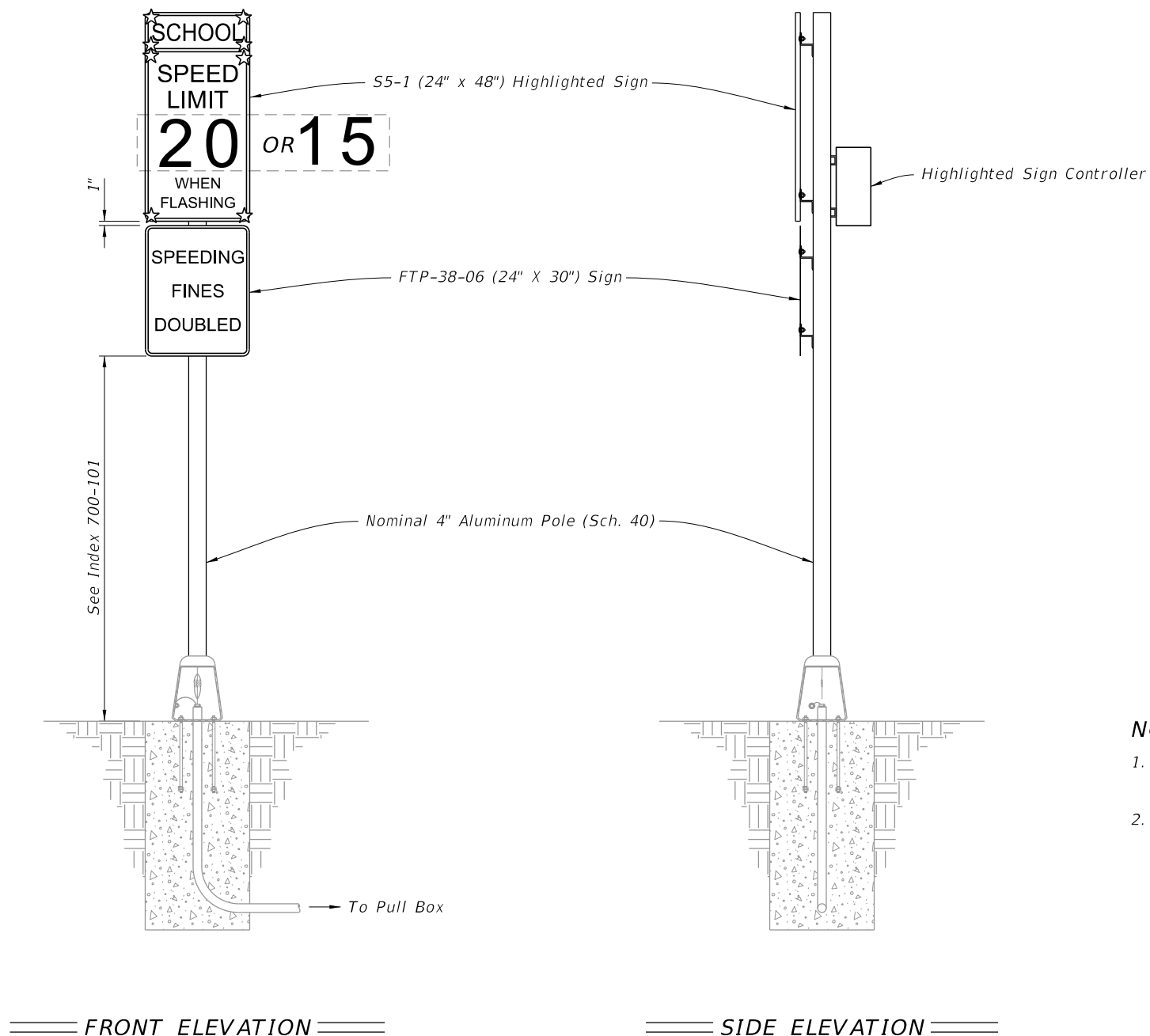
1. Type A3 Assembly (conventionally powered) is shown.
Type B3 Assemblies (solar powered) similar.
2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
3. Foundation reinforcement not shown.

CHANGED TO: 6 of 15

ROADSIDE SIGN ASSEMBLY-3

LAST REVISION 11/01/21	DESCRIPTION: 11/01/23	FDOT FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 5 of 11
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NOTES:

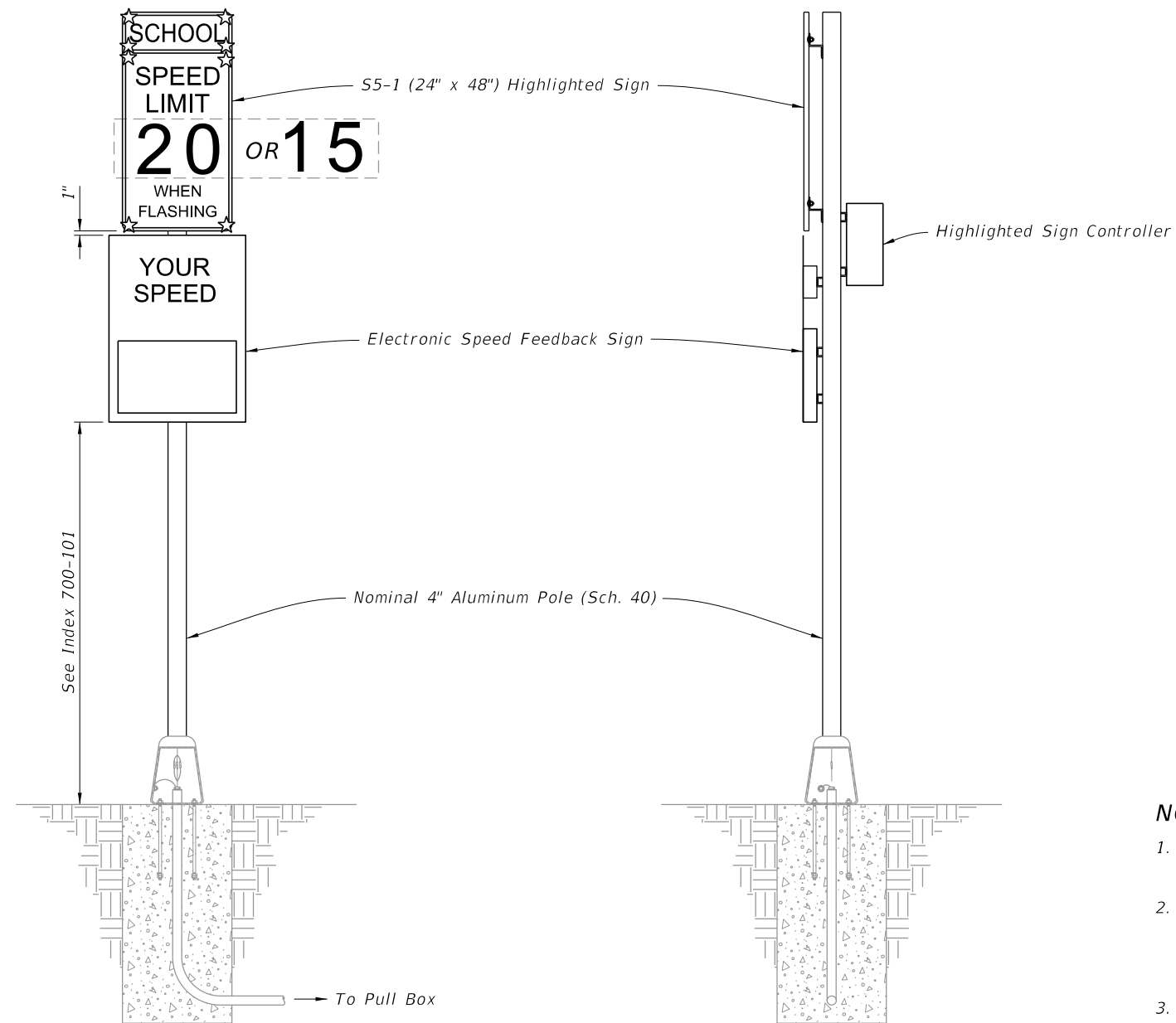
1. Type A4 Assembly (conventionally powered) is shown.
Type B4 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

CHANGED TO: 7 of 15

ROADSIDE SIGN ASSEMBLY-4

LAST REVISION		DESCRIPTION:	FY 2023-24 STANDARD PLANS		ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
11/01/21		11/01/23	FDOT			700-120	6 of 11

10/7/2022 2:49:00 PM



FRONT ELEVATION

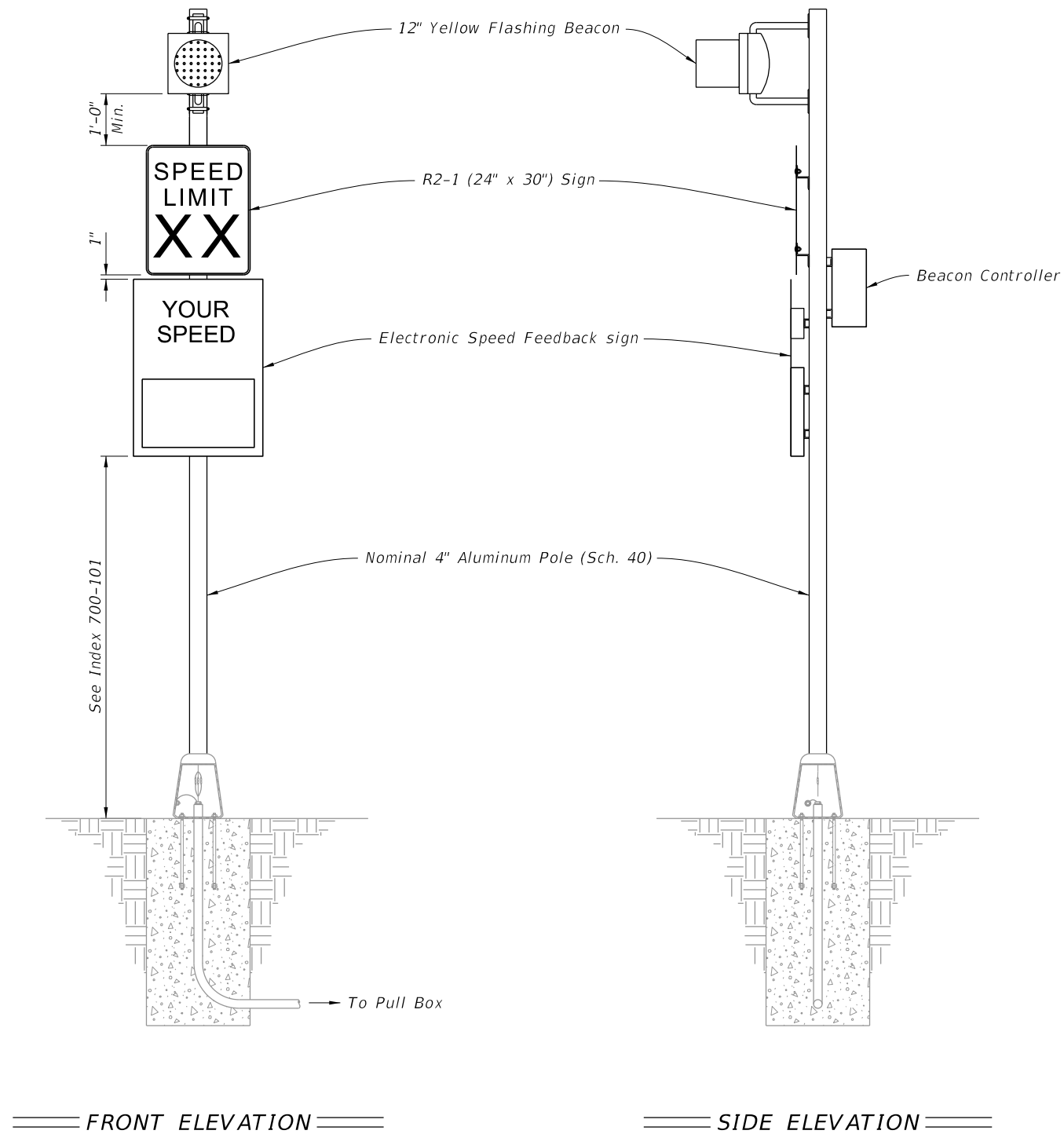
SIDE ELEVATION

- NOTES:**
- 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.

CHANGED TO: 8 of 15

LAST REVISION		DESCRIPTION:		FDOT		FY 2023-24 STANDARD PLANS		ENHANCED HIGHWAY SIGNING ASSEMBLIES		INDEX	SHEET
11/01/21		11/01/23								700-120	7 of 11

10/7/2022 2:49:02 PM



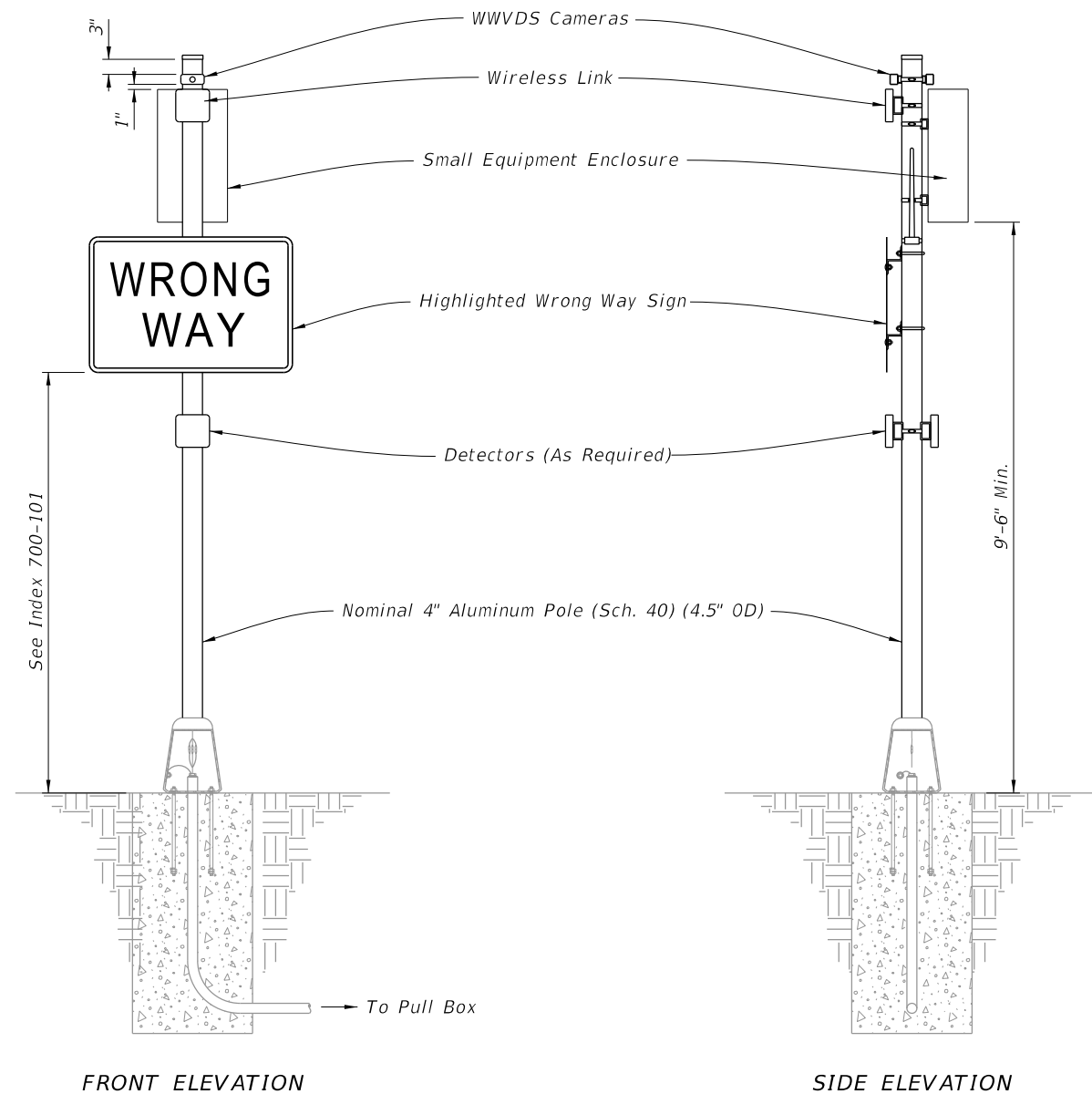
NOTES:

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.

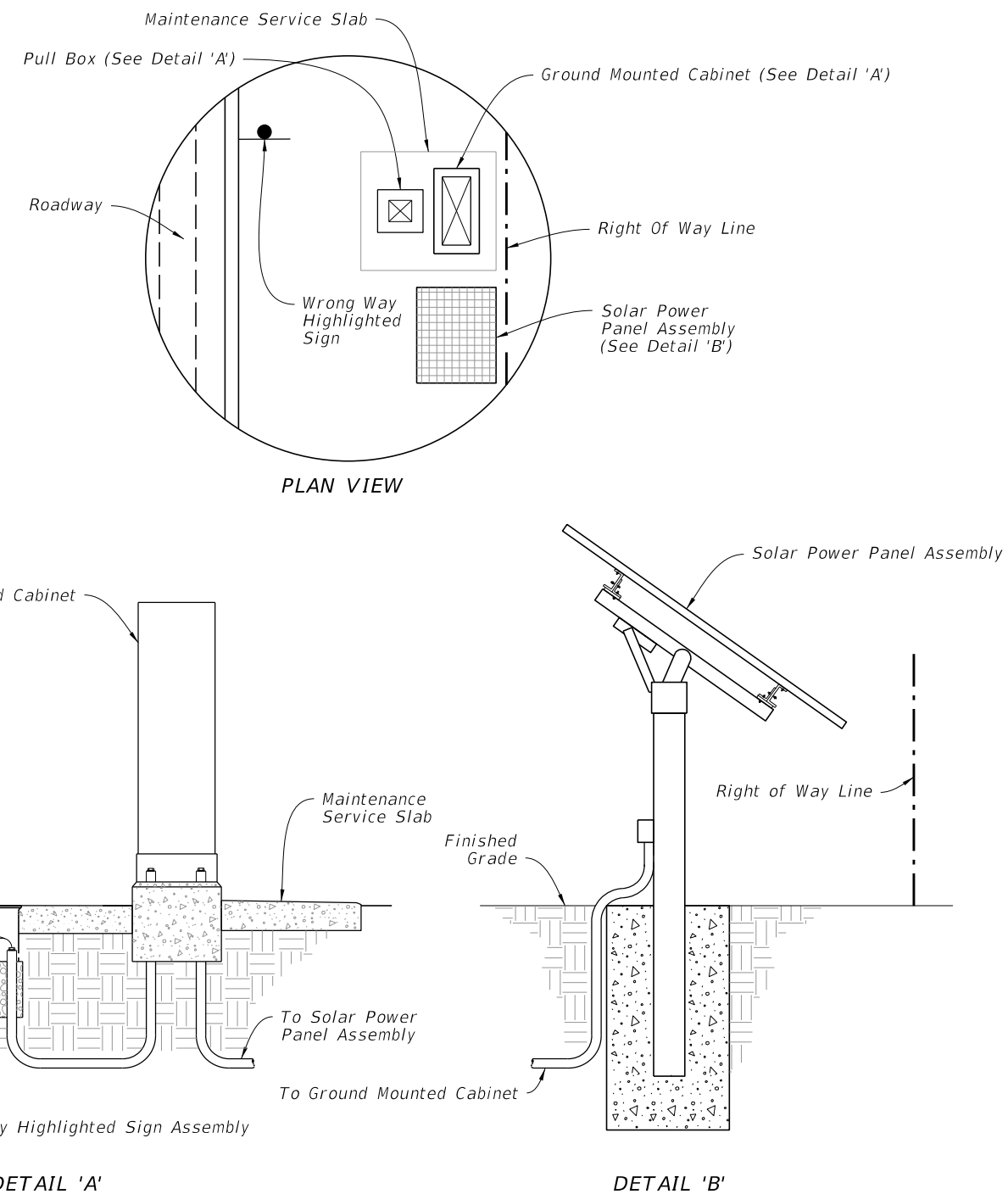
CHANGED TO: 9 of 15

ROADSIDE SIGN ASSEMBLY-6

LAST REVISION		DESCRIPTION:	FY 2023-24 STANDARD PLANS		ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
11/01/21		11/01/23	FDOT			700-120	8 of 11



WRONG WAY HIGHLIGHTED SIGN ASSEMBLY



SOLAR POWER ASSEMBLY

NOTES:

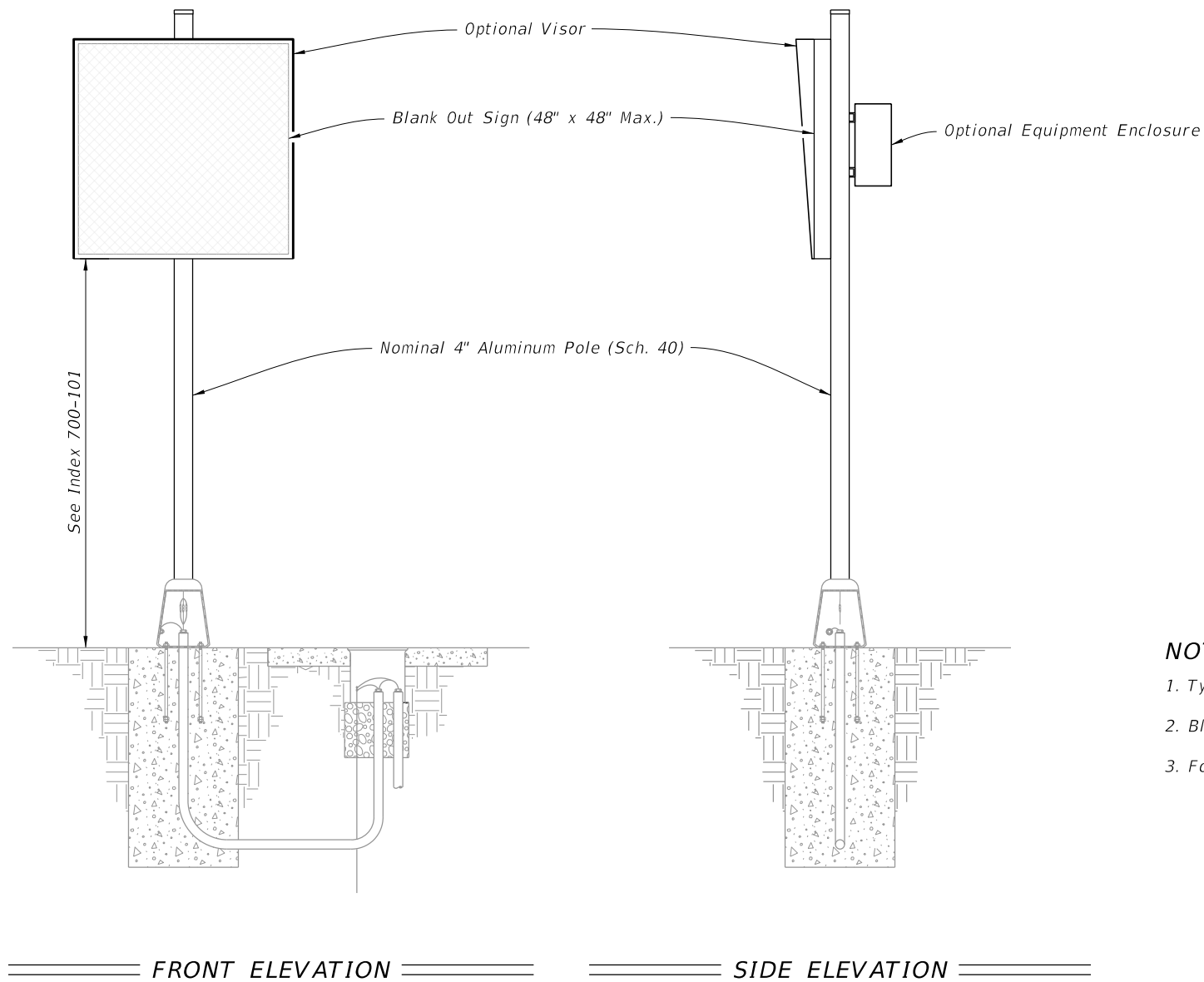
1. Install Wrong Way Vehicle Detection System (WWVDS) devices including cameras, detectors, wireless links, antennas, enclosures, and electronics in accordance with the manufacturer's instructions.
2. When a solar powered configuration (Type B7) is called for in the Plans, install a ground mounted cabinet 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

LAST REVISION 11/01/22	DESCRIPTION: 11/01/23	FDOT FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 9 of 11
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10/7/2022 2:49:08 PM



NOTES:

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

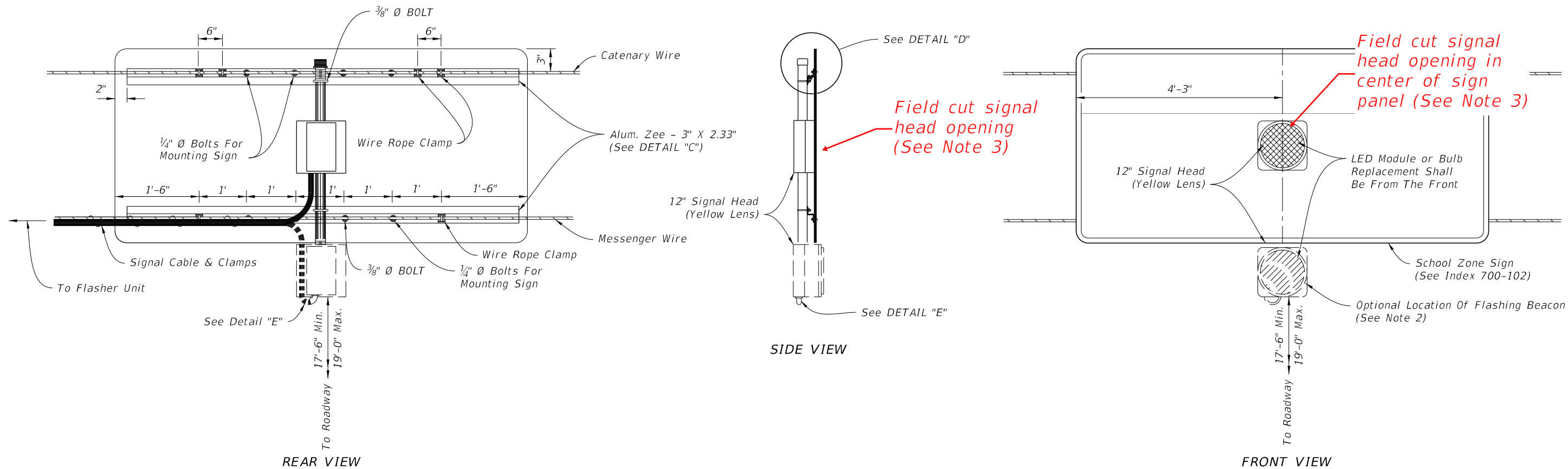
ROADSIDE SIGN ASSEMBLY-8

LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 10 of 11
11/01/21	11/01/23					

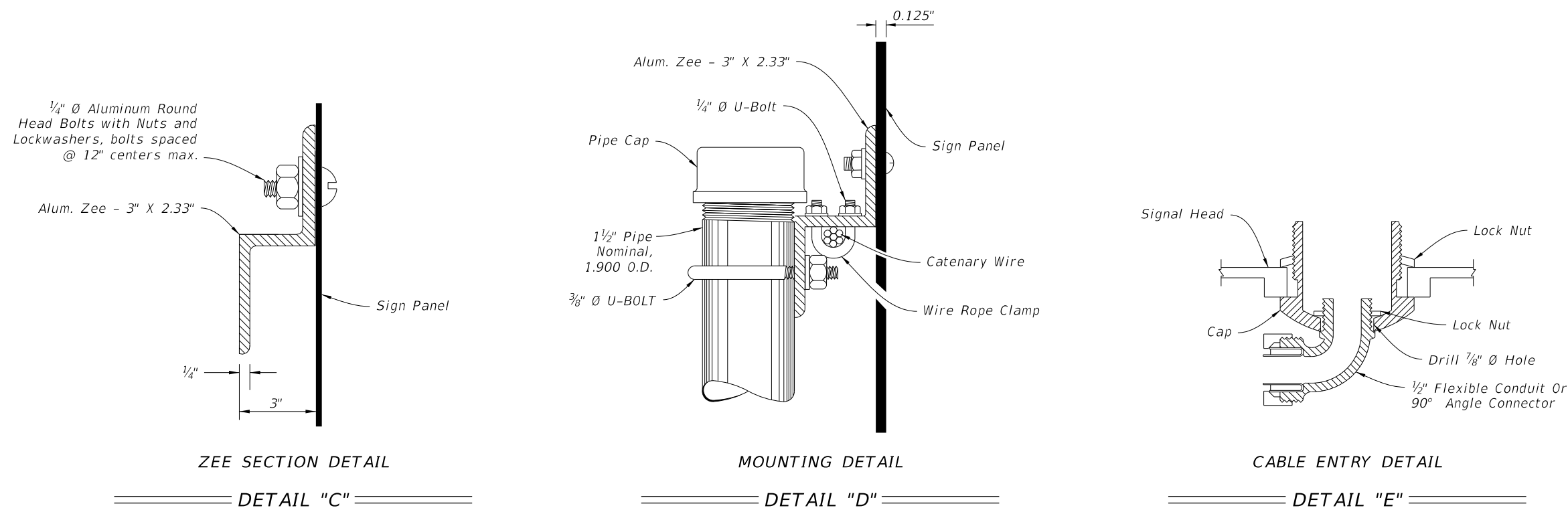
NEW SHEET 12

NEW SHEET 13

NEW SHEET 14



OVERHEAD SCHOOL SIGN ASSEMBLY



NOTES:

- 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.
- Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.
- Field install the opening for 12" signal head in accordance with the manufacturers specifications

CHANGED TO: 15 of 15

OVERHEAD SIGN ASSEMBLY

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LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
11/01/21	11/01/23				700-120	11 of 11

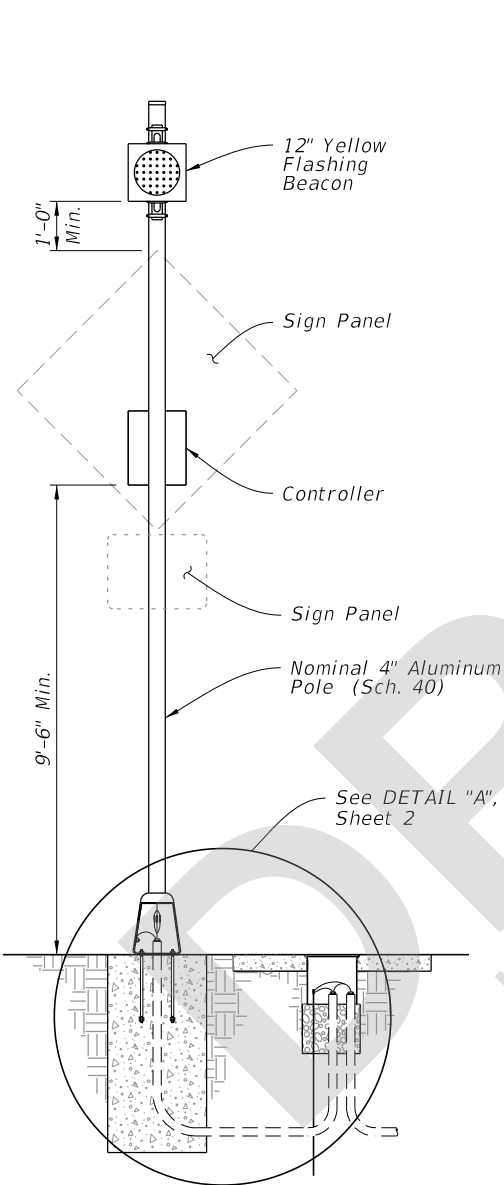
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Conduit, Wiring, and Foundation Details
3	Spread Footing Foundation
4	Roadside Sign Assembly-1
5	Roadside Sign Assembly-2
6	Roadside Sign Assembly-3
7	Roadside Sign Assembly-4
8	Roadside Sign Assembly-5
9	Roadside Sign Assembly-6
10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

GENERAL NOTES:

1. Meet the requirements 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.

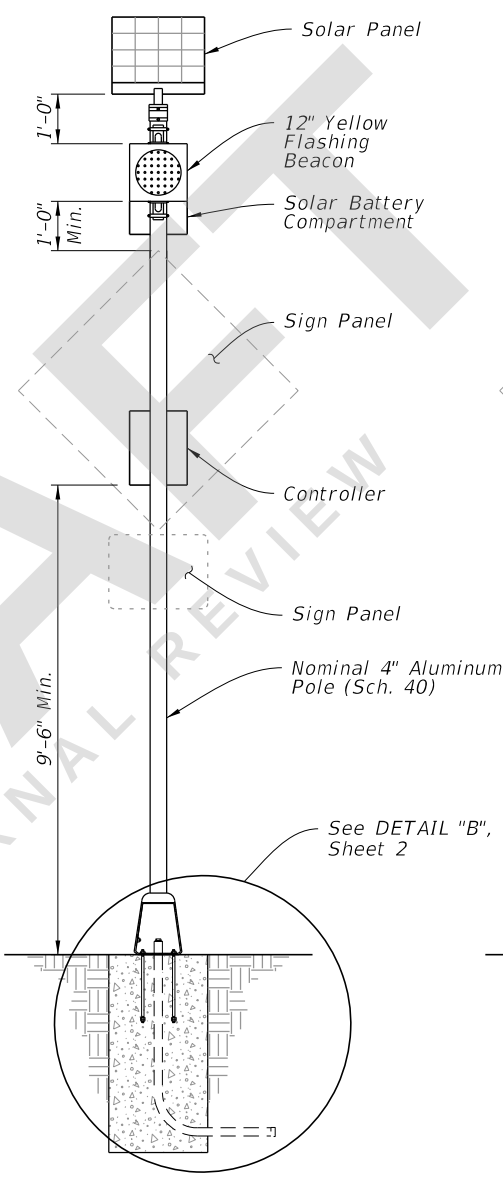
POWER CONFIGURATION 'B' NOTES:

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.



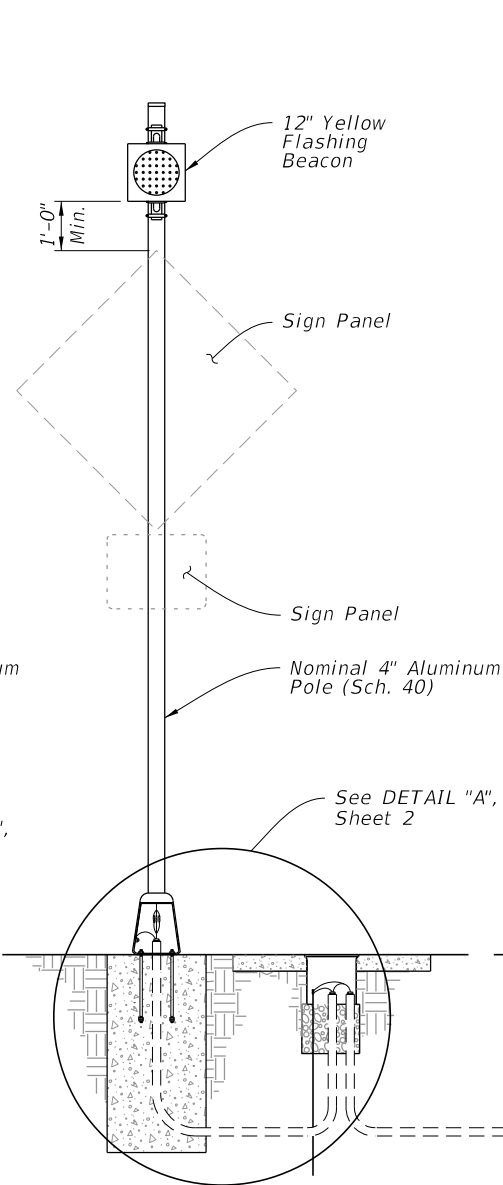
FRONT ELEVATION

POWER CONFIGURATION 'A'
CONVENTIONALLY POWERED
(Type A1 Shown)



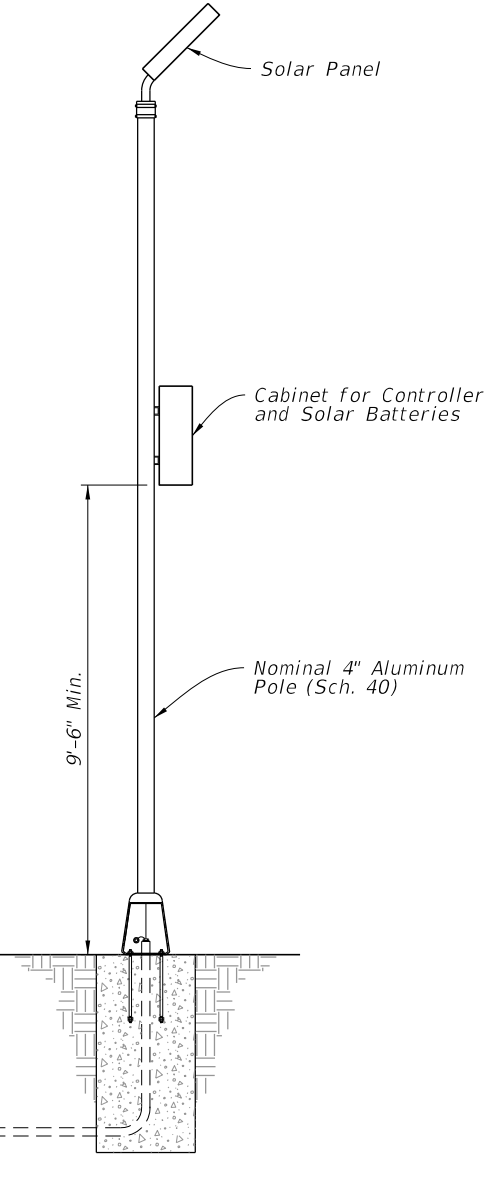
FRONT ELEVATION

WITHOUT AUXILIARY POLE



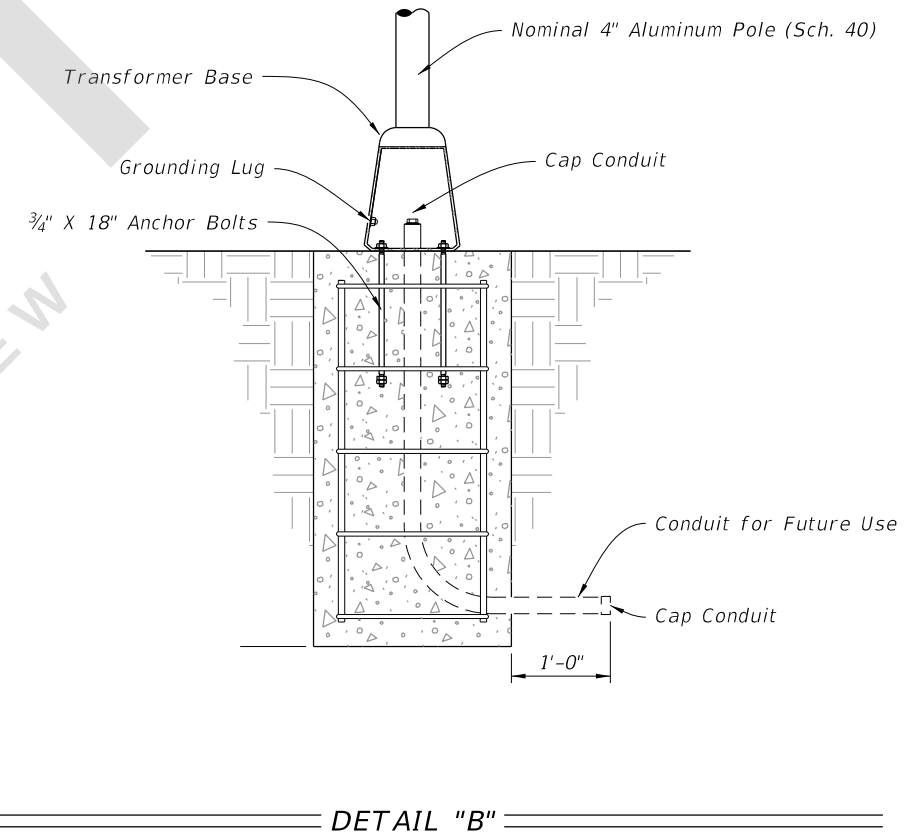
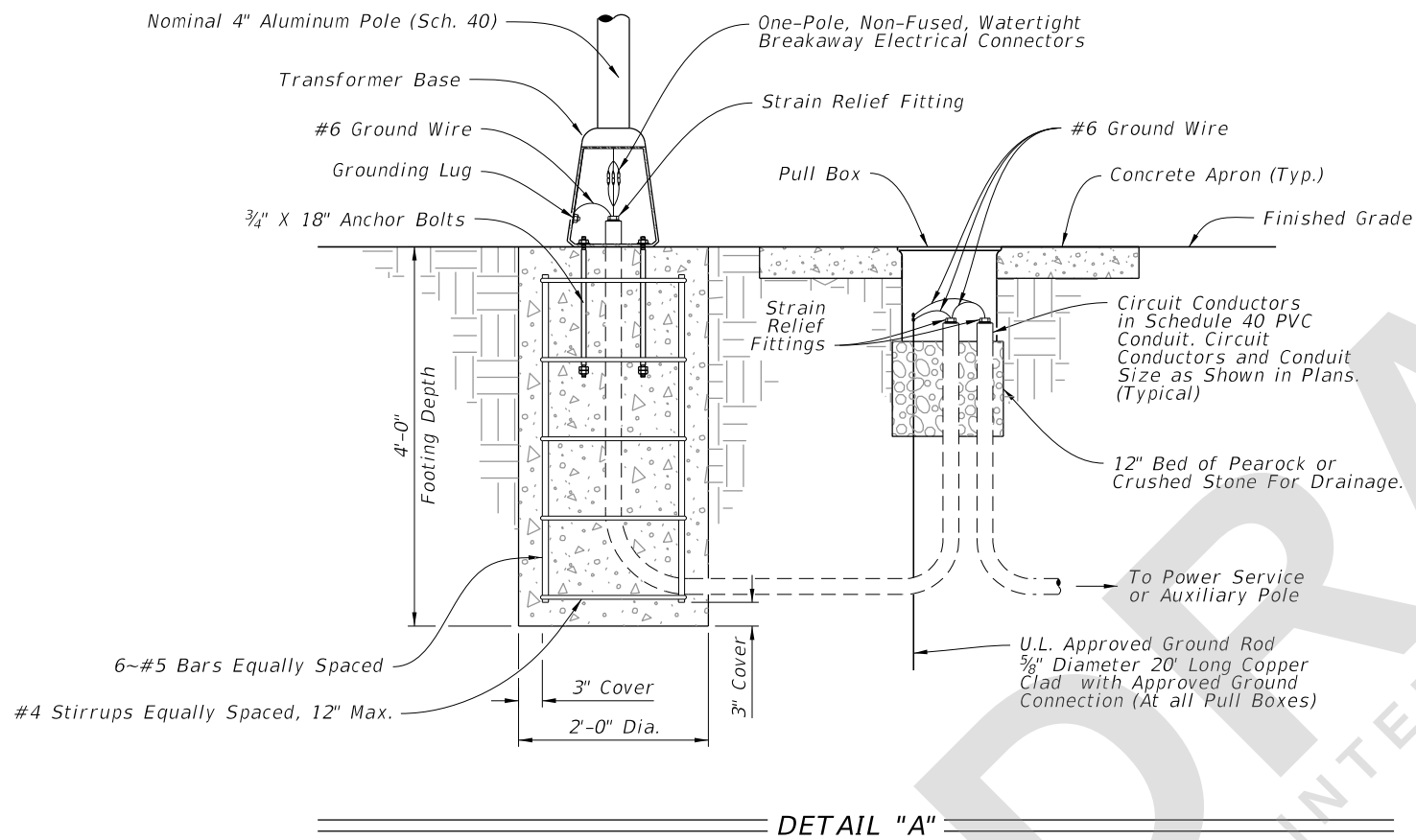
SIGN ASSEMBLY
FRONT ELEVATION

POWER CONFIGURATION 'B'
SOLAR POWERED
(Type B1 Shown)



AUXILIARY POLE
ELEVATION

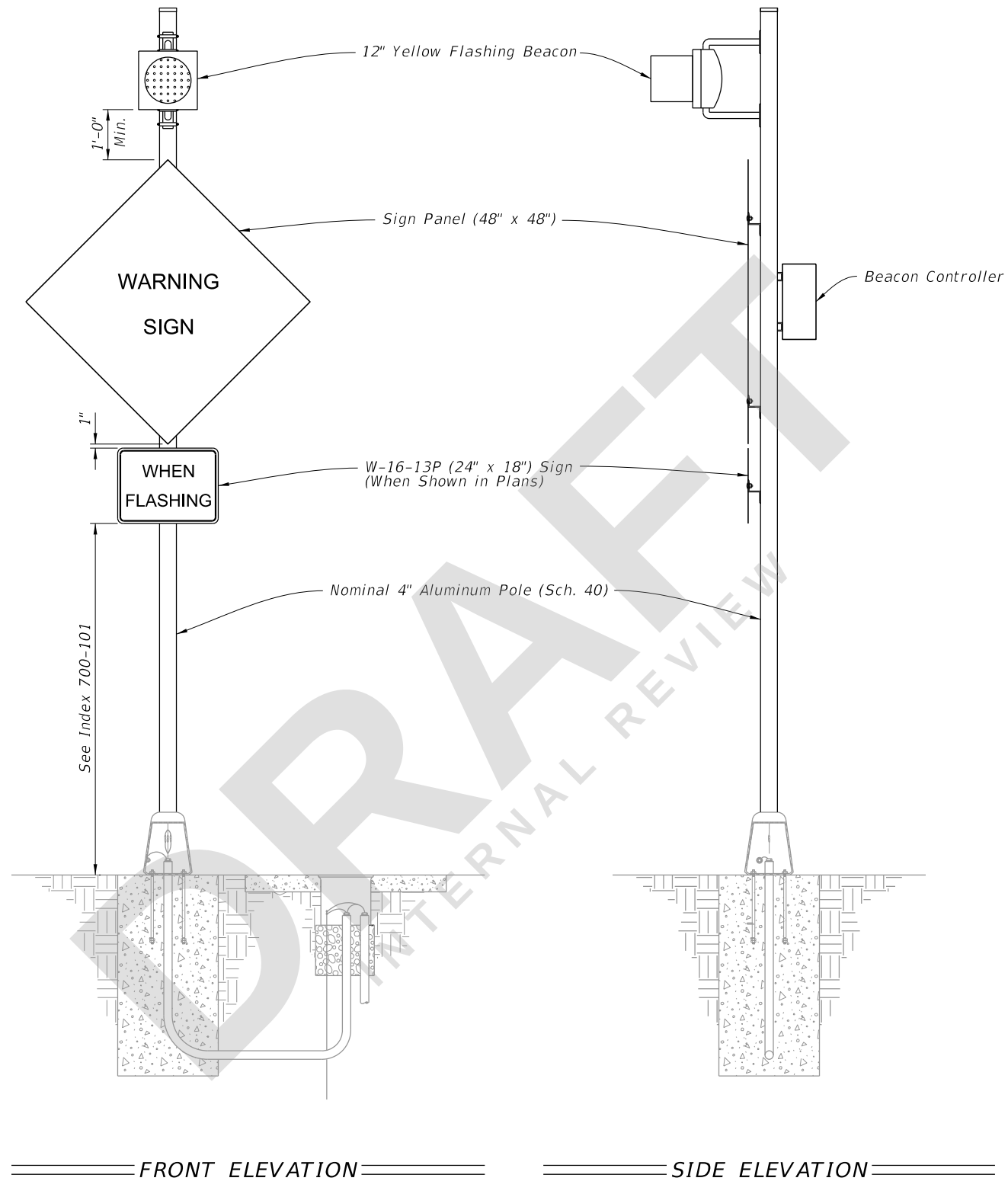
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CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 2 of 15
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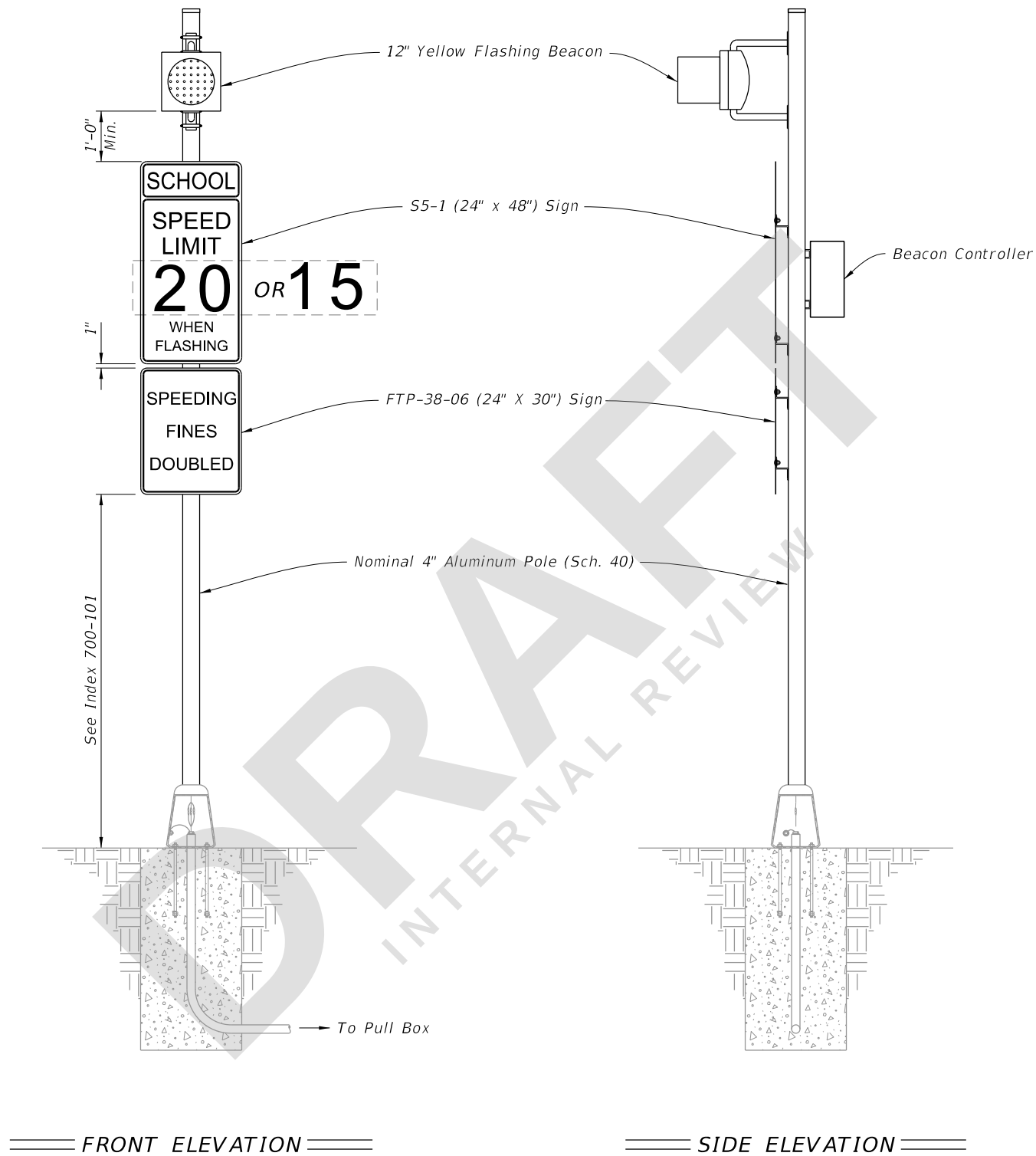
NOTES:

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

ROADSIDE SIGN ASSEMBLY-1

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 4 of 15
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7/27/2023 3:27:02 PM



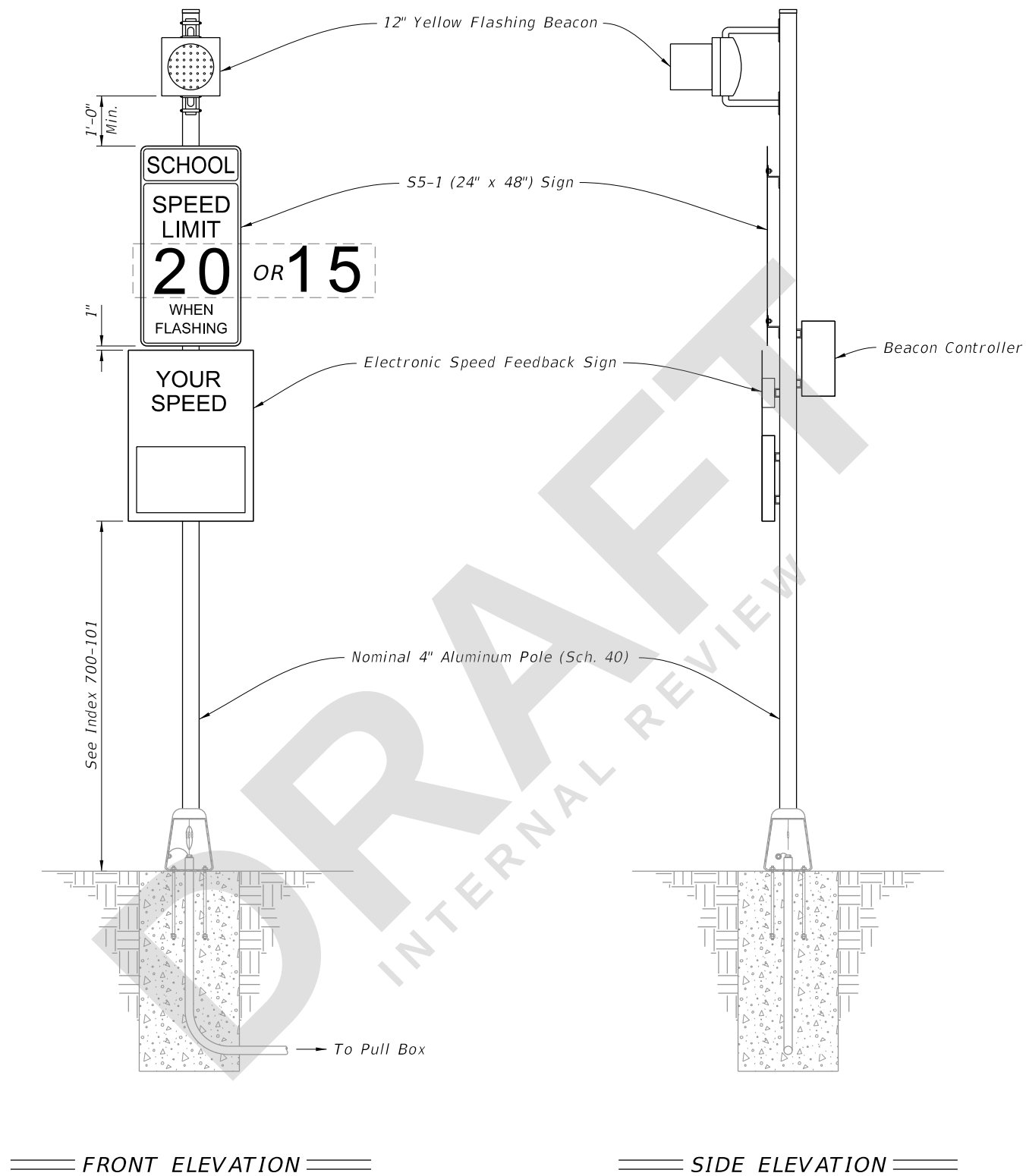
NOTES:

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

ROADSIDE SIGN ASSEMBLY-2

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 5 of 15
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7/27/2023 3:27:08 PM



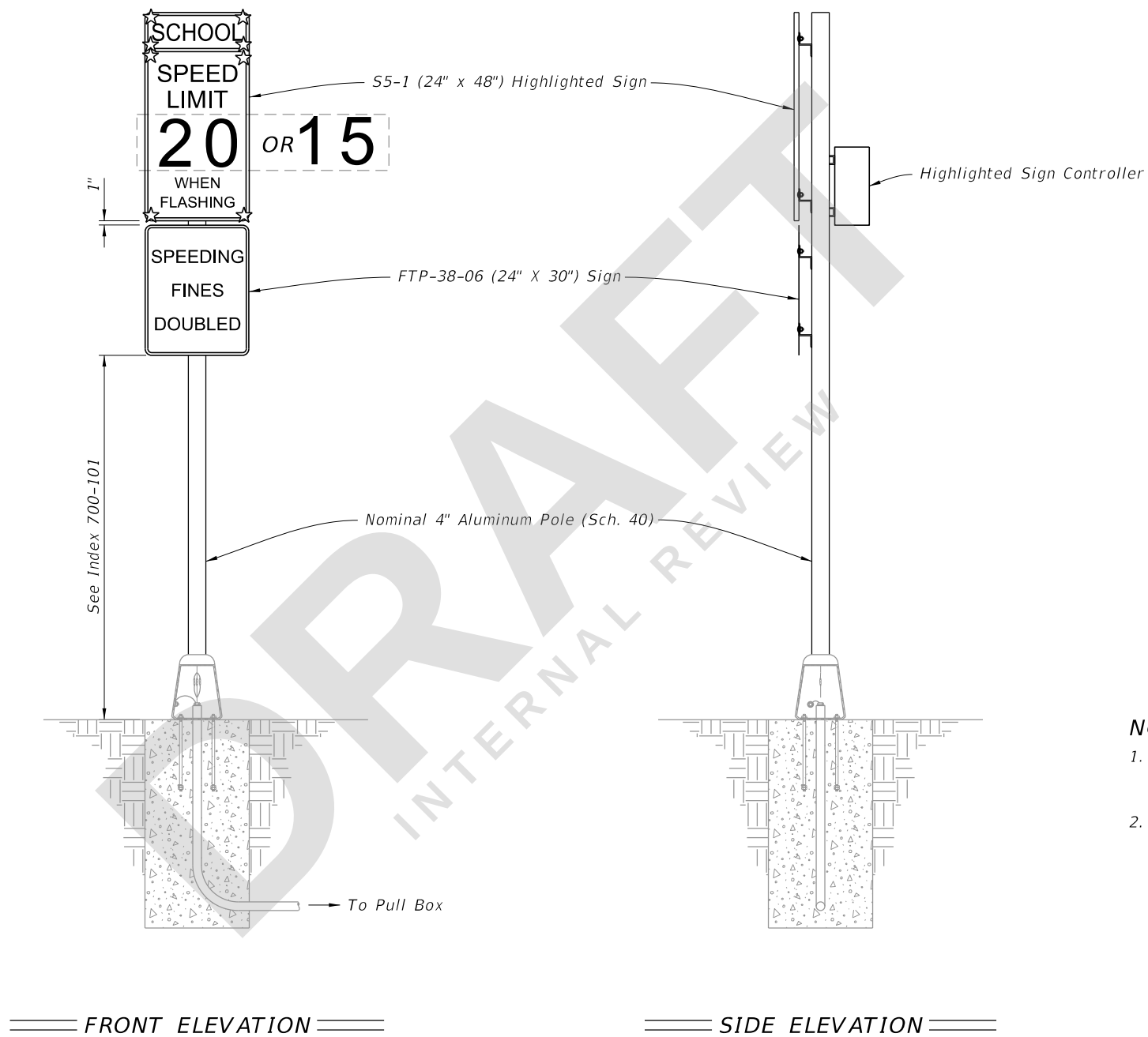
NOTES:

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		DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX	SHEET
					700-120	6 of 15

7/27/2023 3:27:15 PM



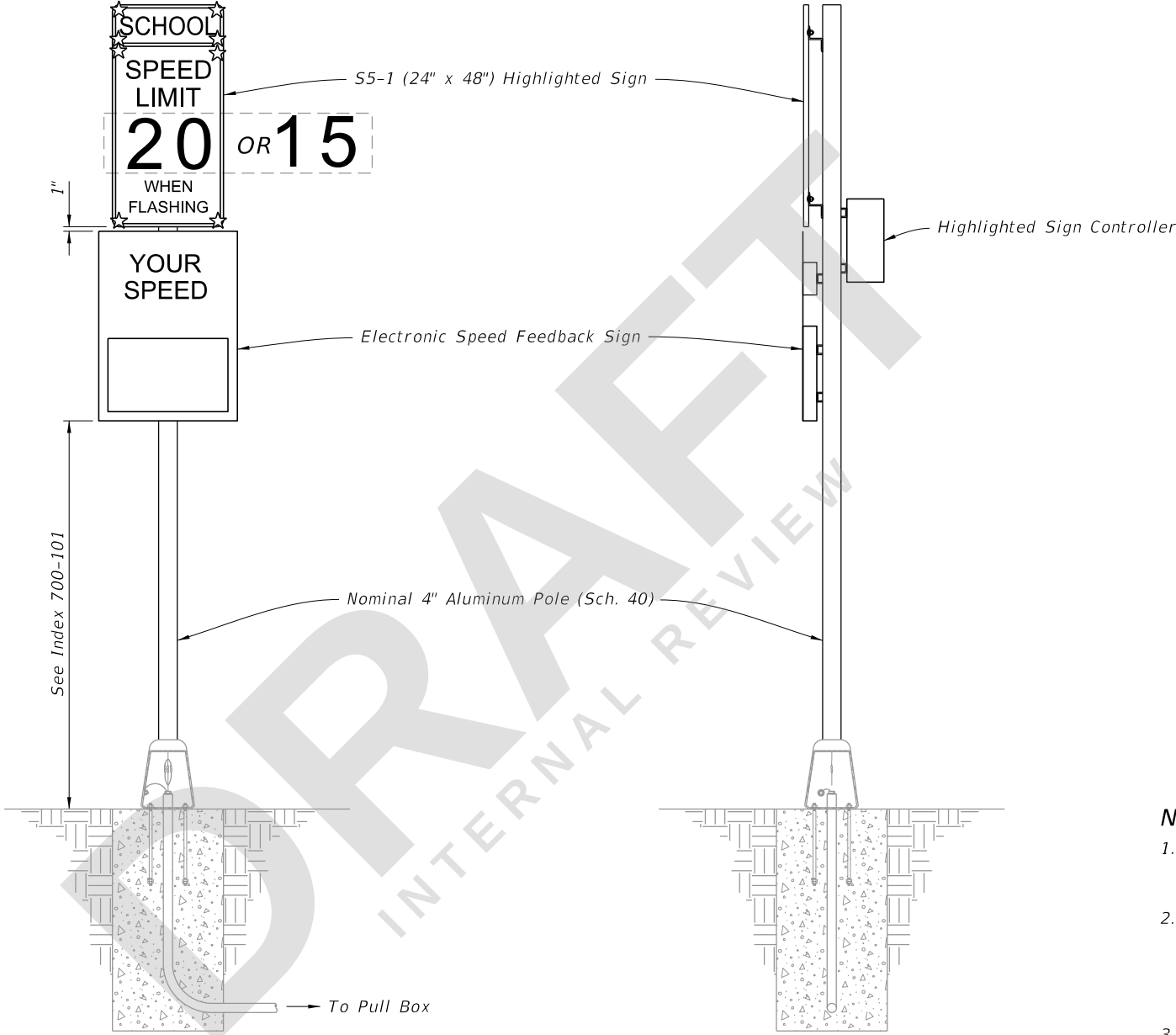
NOTES:

1. Type A4 Assembly (conventionally powered) is shown.
Type B4 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-4

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 7 of 15
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FRONT ELEVATION

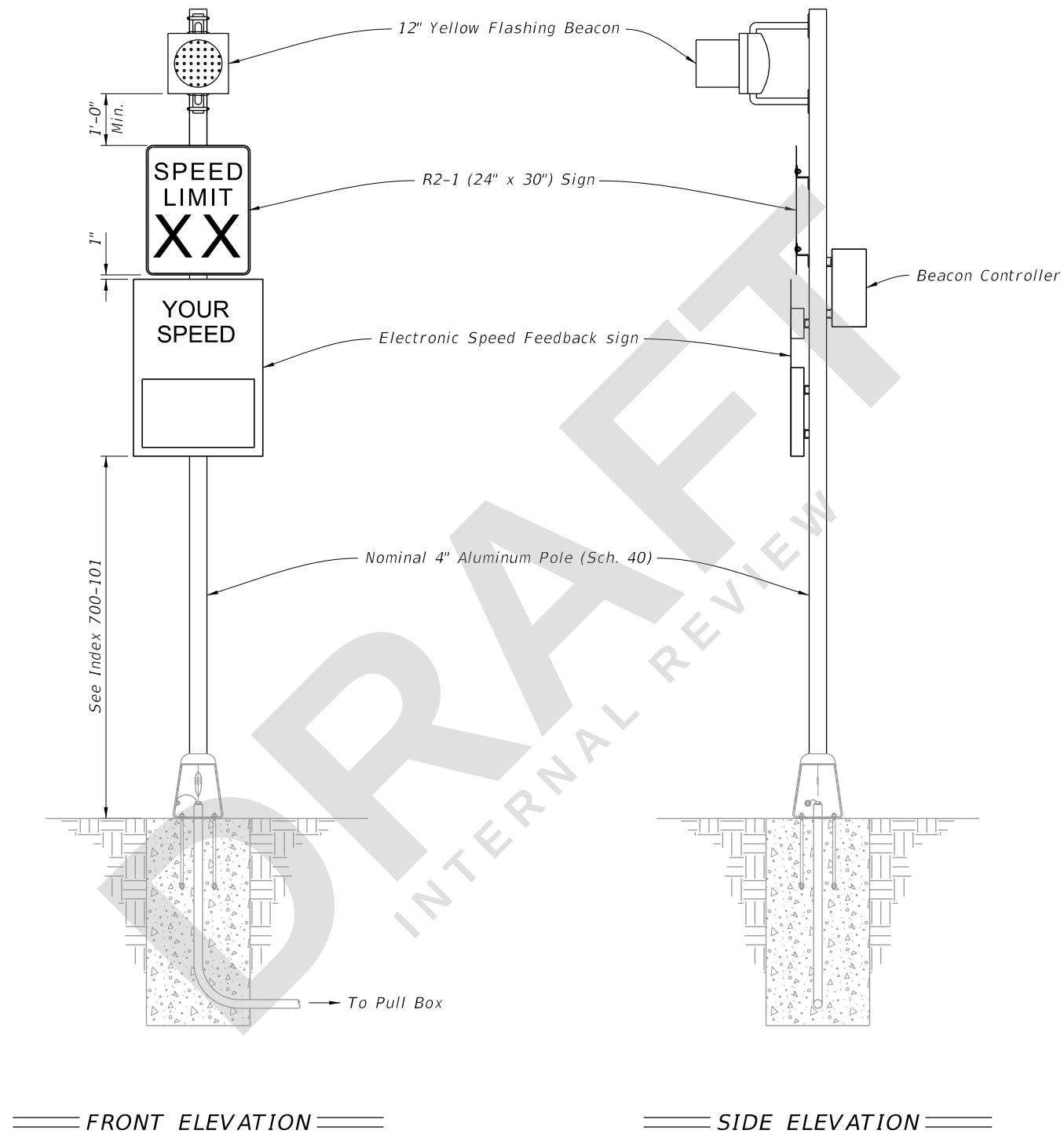
SIDE ELEVATION

- NOTES:**
- 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	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 8 of 15
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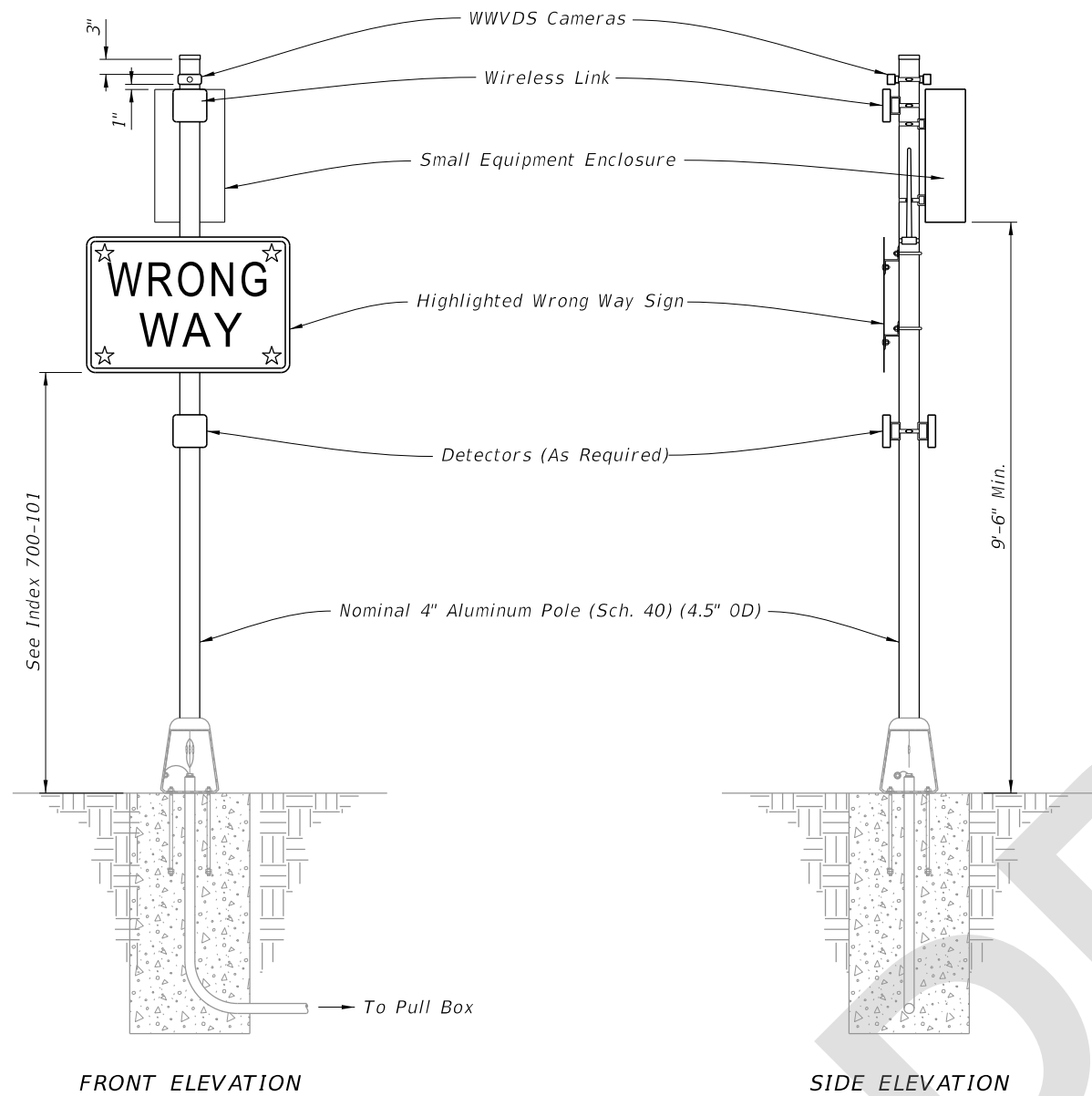


NOTES:

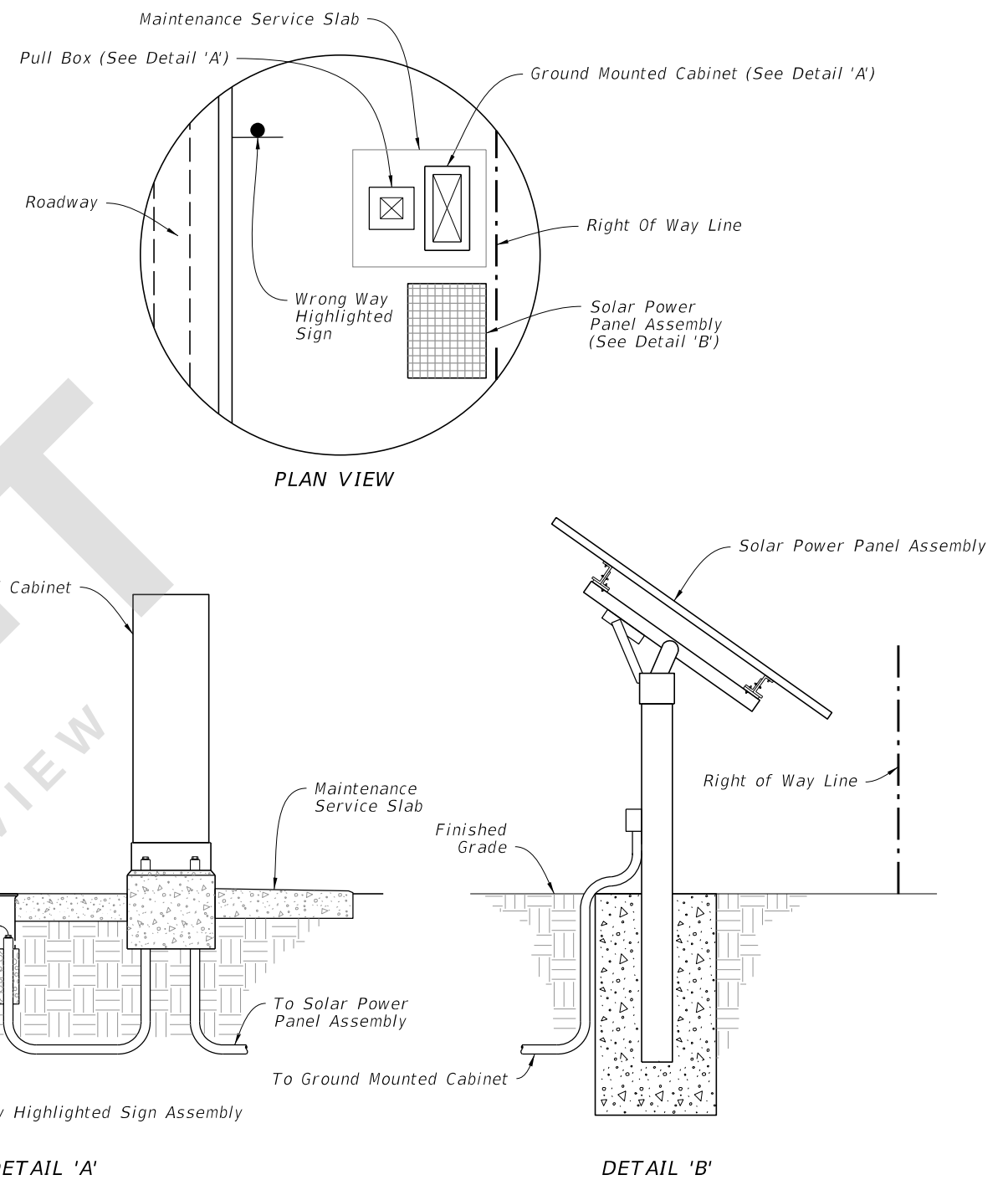
1. Type A6 Assembly (conventionally powered) is shown.
Type B6 Assemblies (solar powered) similar.
2. Use electronic speed feedback sign with 15" high numerals for posted speed of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.
3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-6

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 9 of 15
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WRONG WAY HIGHLIGHTED SIGN ASSEMBLY



SOLAR POWER ASSEMBLY

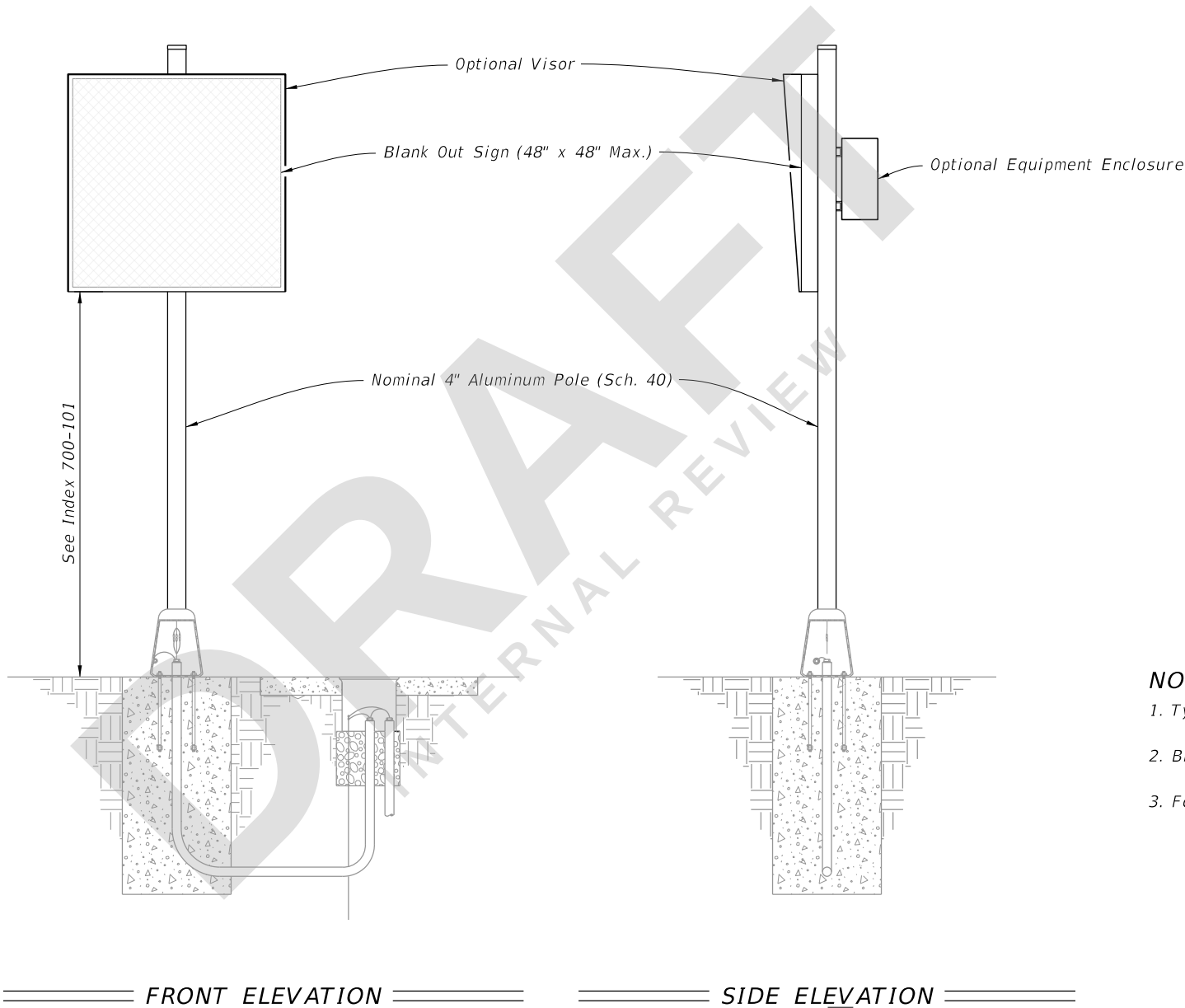
NOTES:

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

LAST REVISION 11/01/23	REVISION DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES		INDEX 700-120	SHEET 10 of 15
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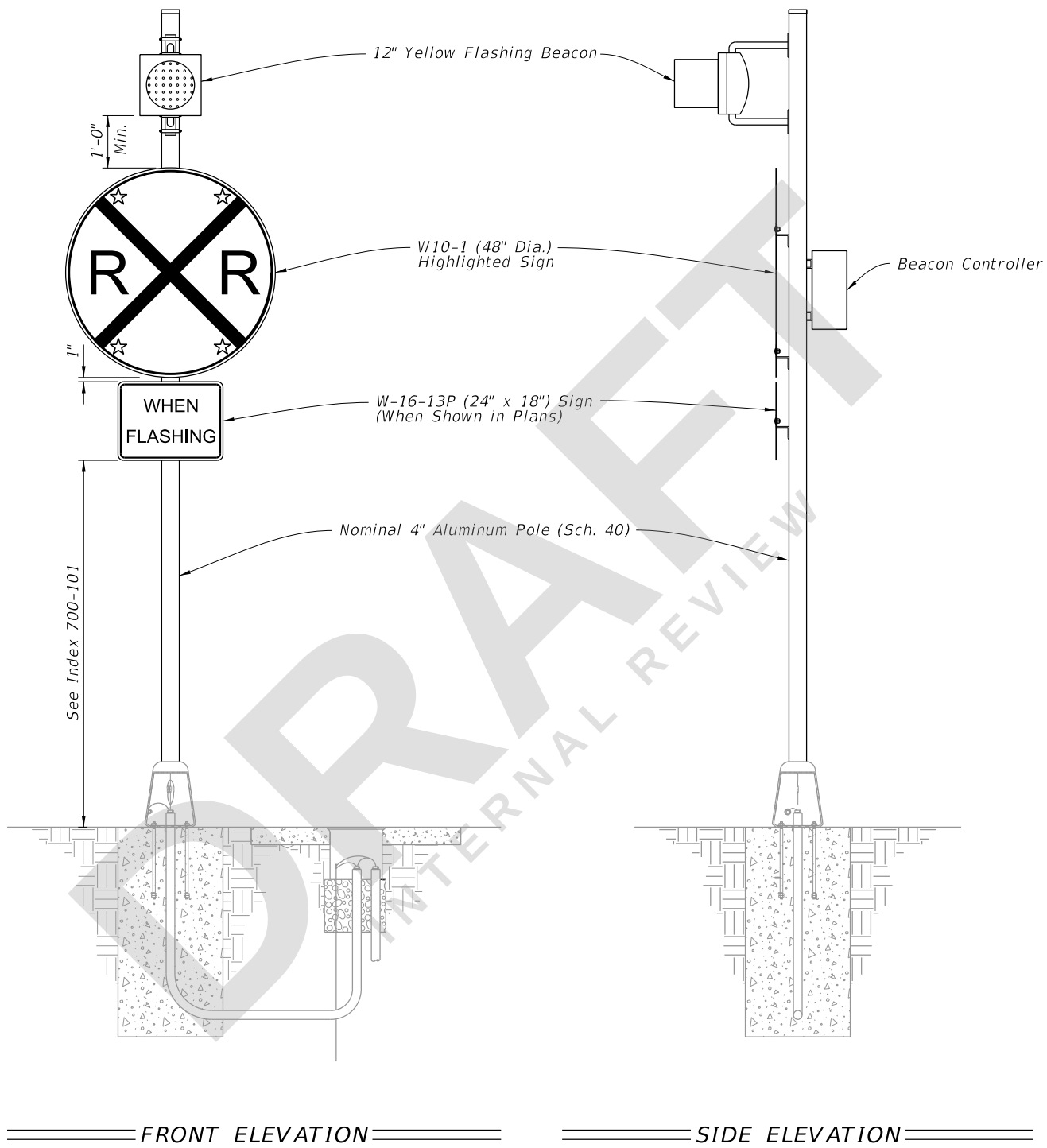
NOTES:

1. Type A8 Assembly (conventionally powered) is shown.
2. Blank Out Sign visors are optional.
3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-8

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 11 of 15
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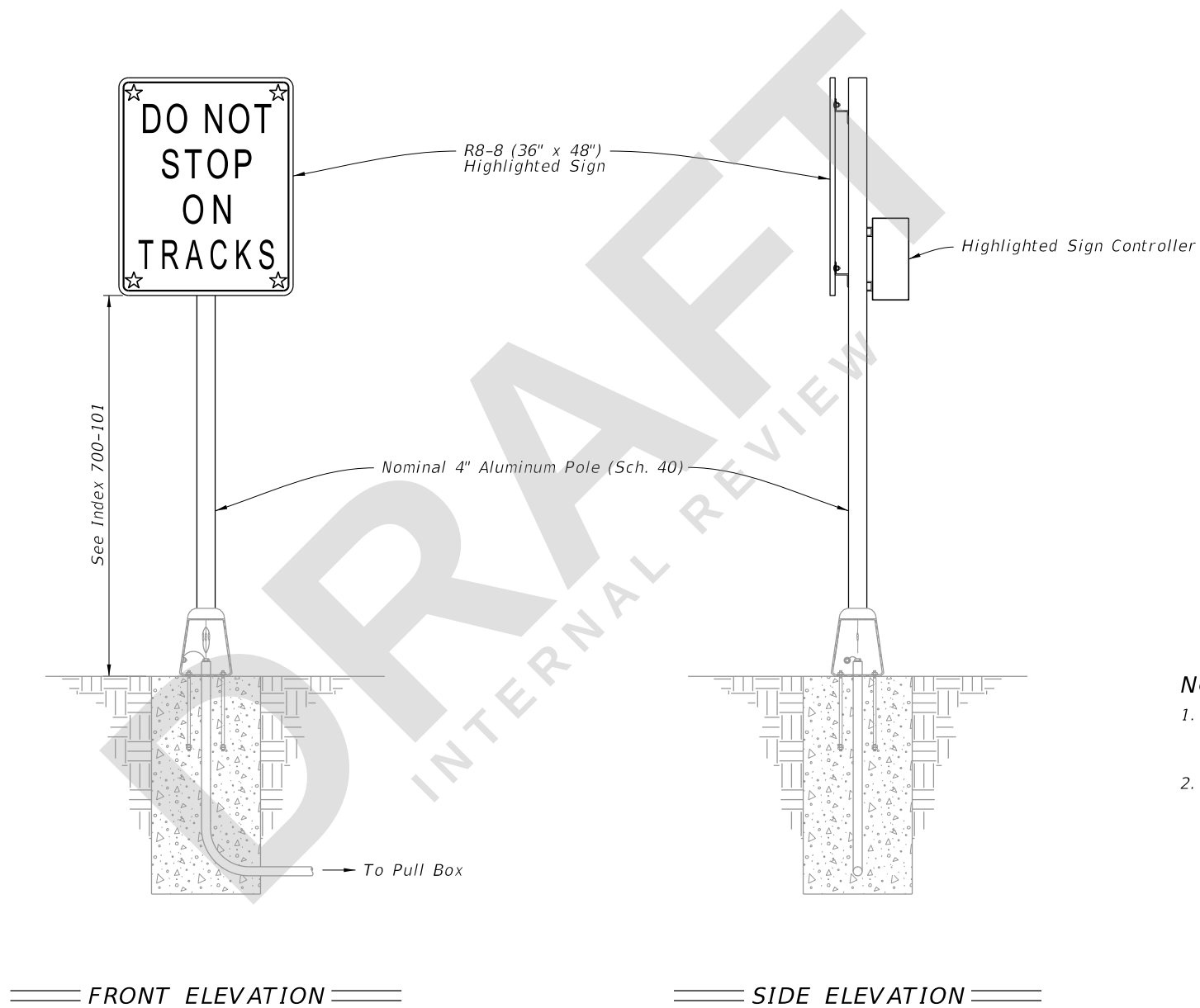
NOTES:

1. Type A9 Assembly (conventionally powered) is shown.
Type B9 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-9

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 12 of 15
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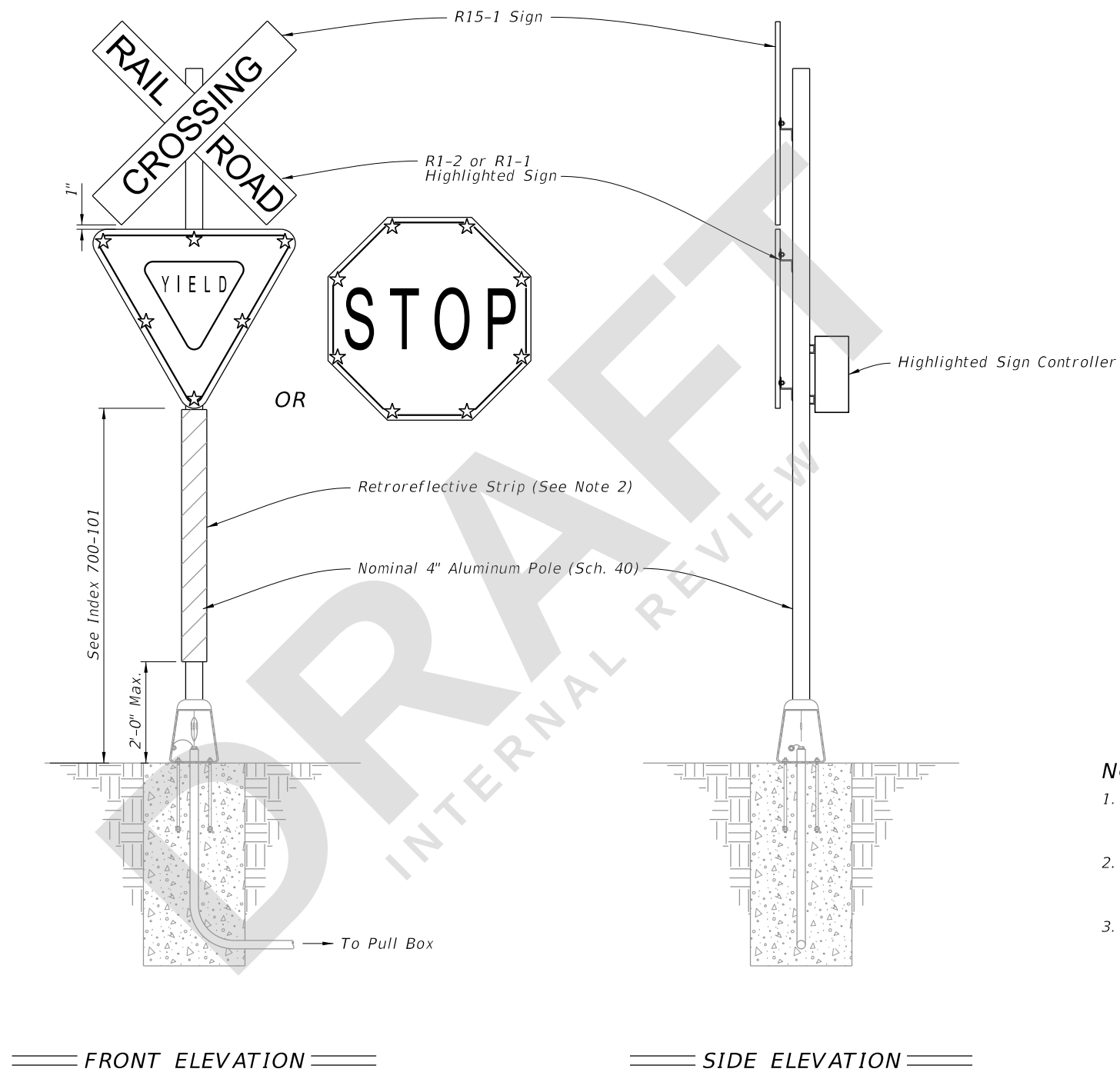
NOTES:

1. Type A10 Assembly (conventionally powered) is shown.
Type B10 Assemblies (solar powered) similar.
2. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-10

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 13 of 15
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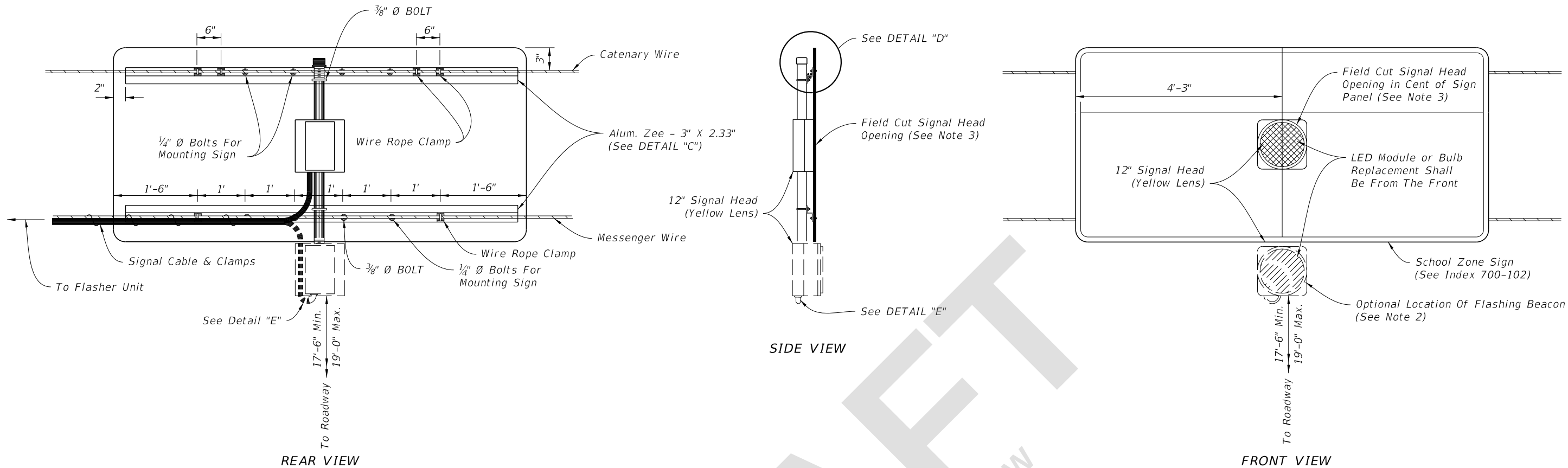


NOTES:

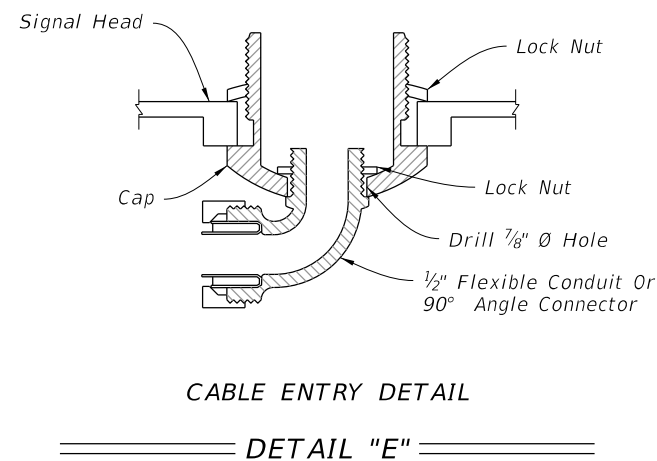
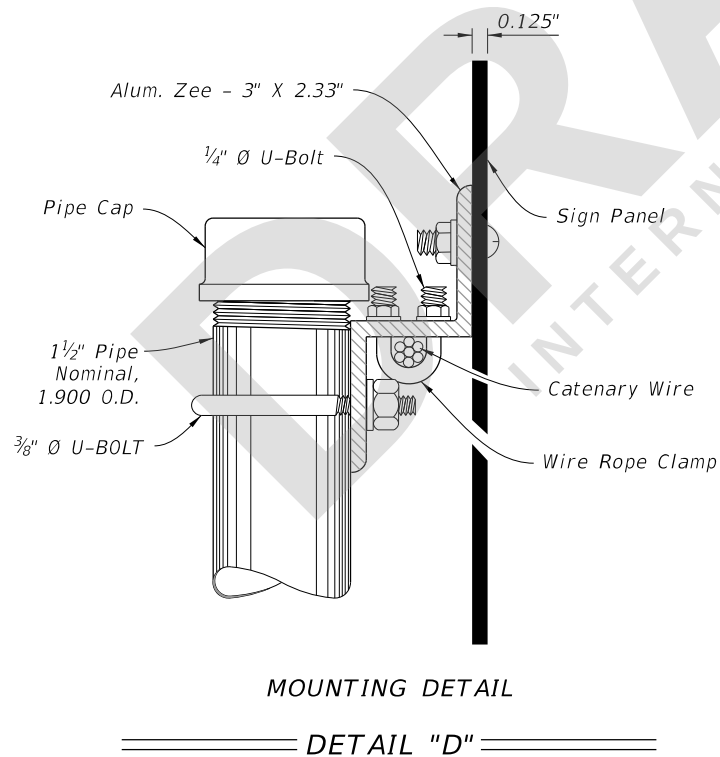
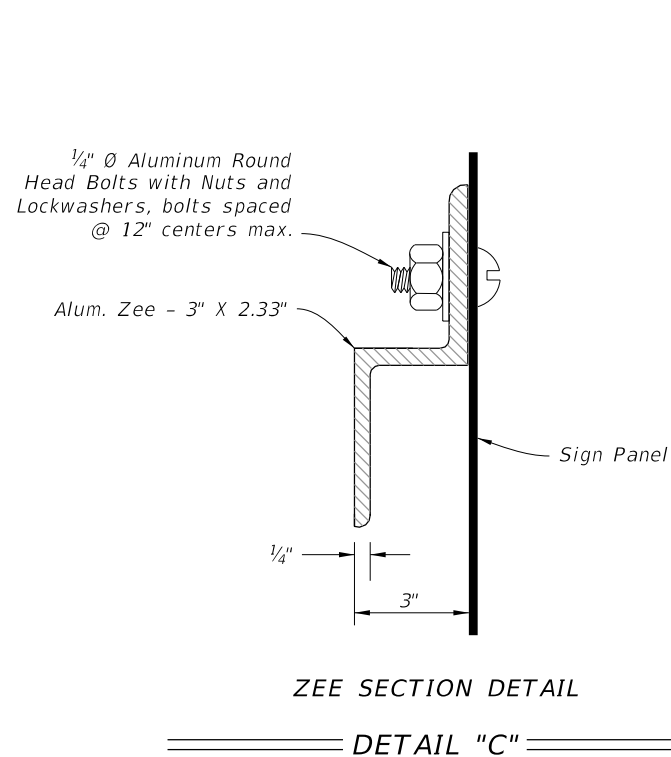
1. Type A11 Assembly (conventionally powered) is shown.
Type B11 Assemblies (solar powered) similar.
2. Install retroreflective strip on front and back in accordance with Specification 700.
3. Foundation reinforcement not shown.

ROADSIDE SIGN ASSEMBLY-11

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 14 of 15
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OVERHEAD SCHOOL SIGN ASSEMBLY



NOTES:

- 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.
- Optional flashing beacon will be called for in the Plans. They may be placed within or below the panel, or face to the rear.
- Field install the opening for 12" signal head in accordance with the manufactures specifications.

OVERHEAD SIGN ASSEMBLY

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS ENHANCED HIGHWAY SIGNING ASSEMBLIES	INDEX 700-120	SHEET 15 of 15
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