
Index 700-120 Enhanced Highway Signing Assemblies

ORIGINATION

Date: 6-6-21

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COMMENTARY

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. The aluminum posts callouts will be changed to be consistent with other Indexes.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **RED** = Standard Plans Response **GREEN** = Change Made to Index

Name: K.C. Jose

Date: 8/30/2021

COMMENT: Draft page 1/11: Note # 5 advise concrete slab around light pole on road side – screen shot

[5. 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".

Comment:- please specify whether Non structural concrete could be used for this.

RESPONSE: The new General Note 4 references the material requirements of Specification 646. The material criteria including Concrete requirements are included in Specification 646.

No Change Made

Date: 9/1/2021

Name: C-Team Comment

Date: 9/8/2021

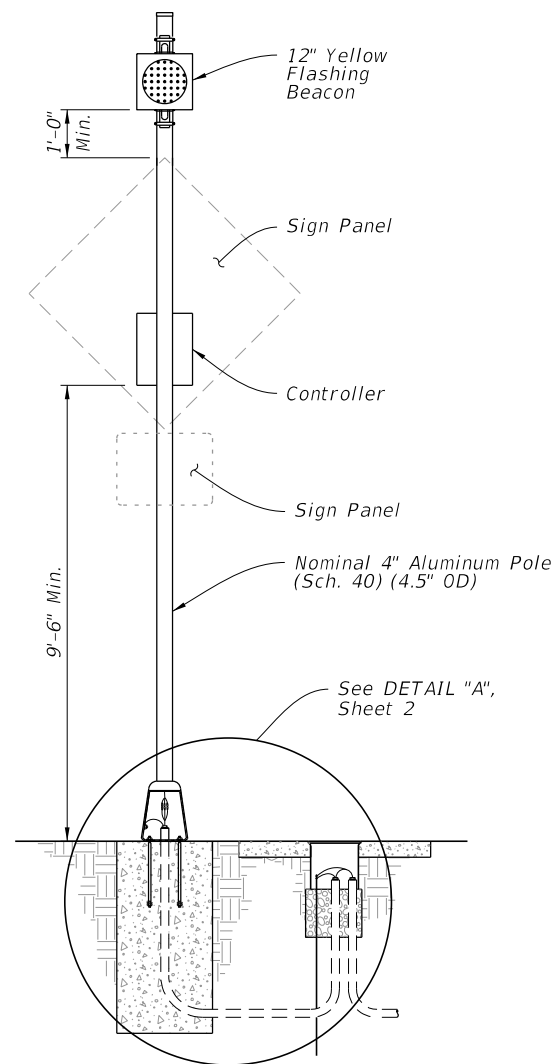
COMMENT: Has the revision of pole diameter callouts from 4" nominal to 4.5" OD been properly coordinated? This change could incur cost updates and other design considerations and affect APL. Were structural parameters considered? Specification 646 references 4" nominal which needs to be updated.

RESPONSE: The pole/posts are not changing with this update so there are no issues with the APL or additional costs incurred. This change was requested by the Structures Office to make callouts consistent with other Indexes that specify pole/post dimensions. The 4" nominal and

4.5" OD are the same callout in this scenario based on ASTM B429 which is a requirement of Spec 646. Although there is no conflict, Spec 646 will be updated to be consistent with the new callout in Indexes 646-001, 654-001, 695-001, and 700-120. The callout in the indexes will be updated to clarify that the poles/posts are not changing.

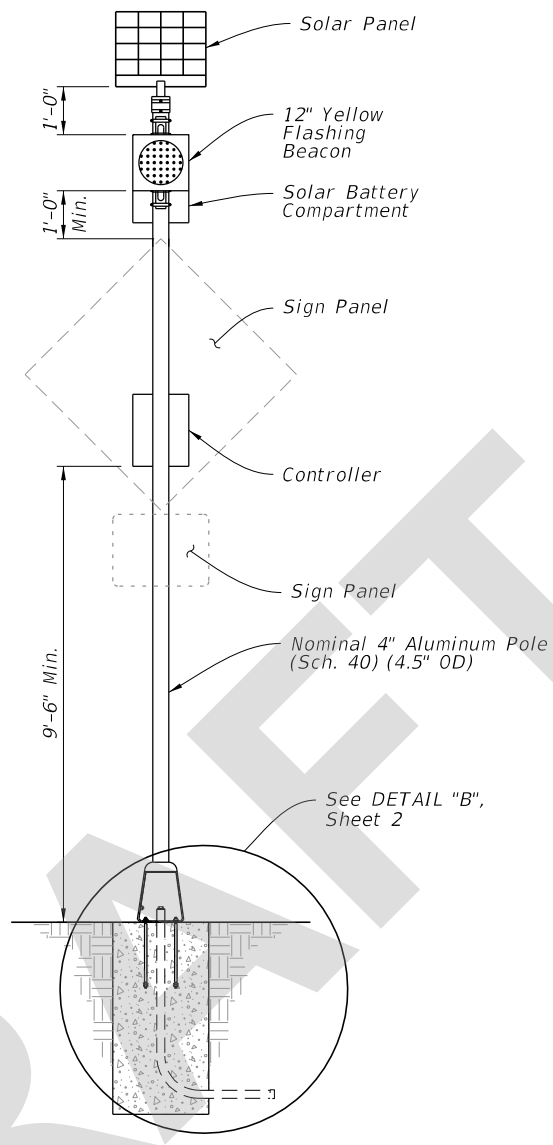
Change Made: Revise callouts in the Indexes and Spec to read "Nominal 4" Aluminum Pole (Sch. 40) (4.5" OD)"

Date: 9/10/2021



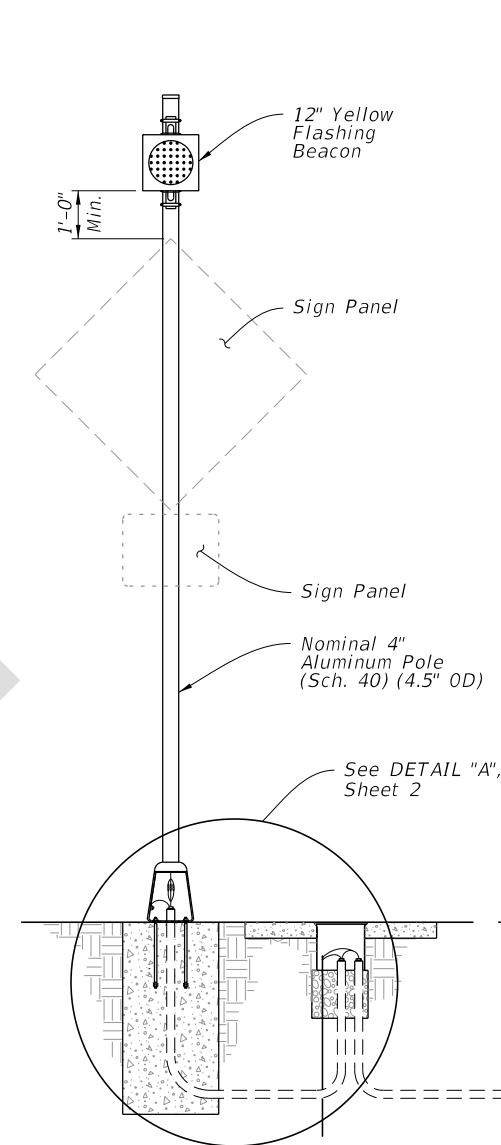
FRONT ELEVATION

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



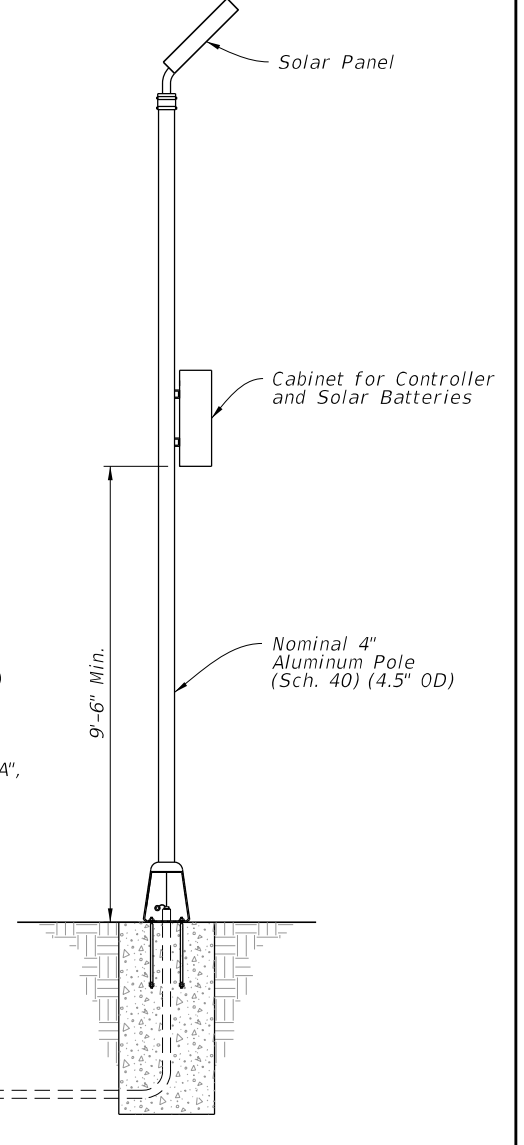
FRONT ELEVATION

WITHOUT AUXILIARY POLE



SIGN ASSEMBLY
 FRONT ELEVATION

WITH AUXILIARY POLE



AUXILIARY POLE
 ELEVATION

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

GENERAL NOTES:

1. Install sign assemblies based on Alpha-Numeric Type designation shown in the Plans (e.g., Type A1). Assembly Type is based on Power Configuration 'Alpha' Identification shown above and Numerical Identification shown on Sheet 3 thru 8.
2. Install sign panel and wind beam in accordance with Index 700-010 and Specification 700.
3. Engage all threads on the transformer base and post unless the aluminum post is fully seated into base.
4. Meet the material requirements of Specification 646.
5. 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".
6. 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.

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10	Roadside Sign Assembly-8
11	Overhead Sign Assembly

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LAST REVISION	DESCRIPTION:
11/01/21	



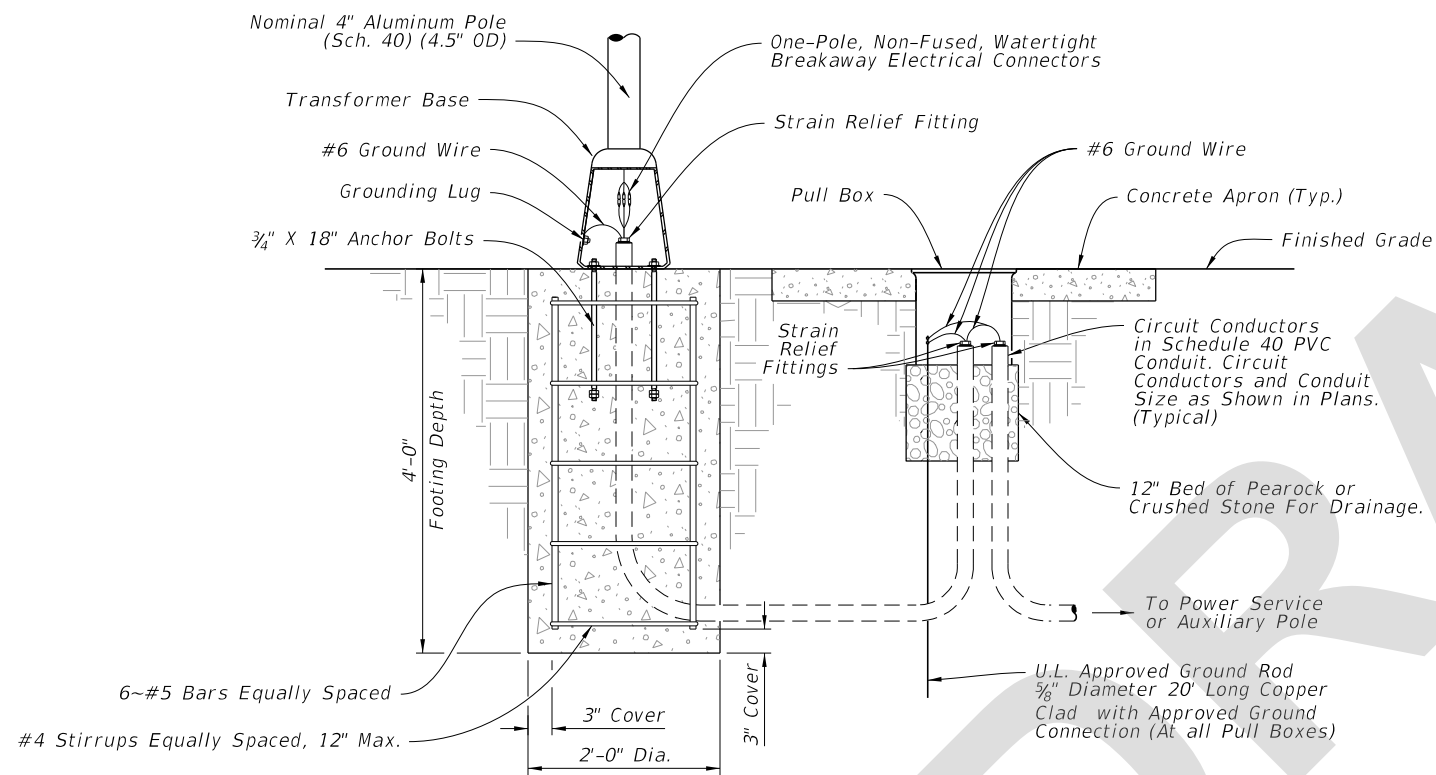
FY 2022-23
 STANDARD PLANS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

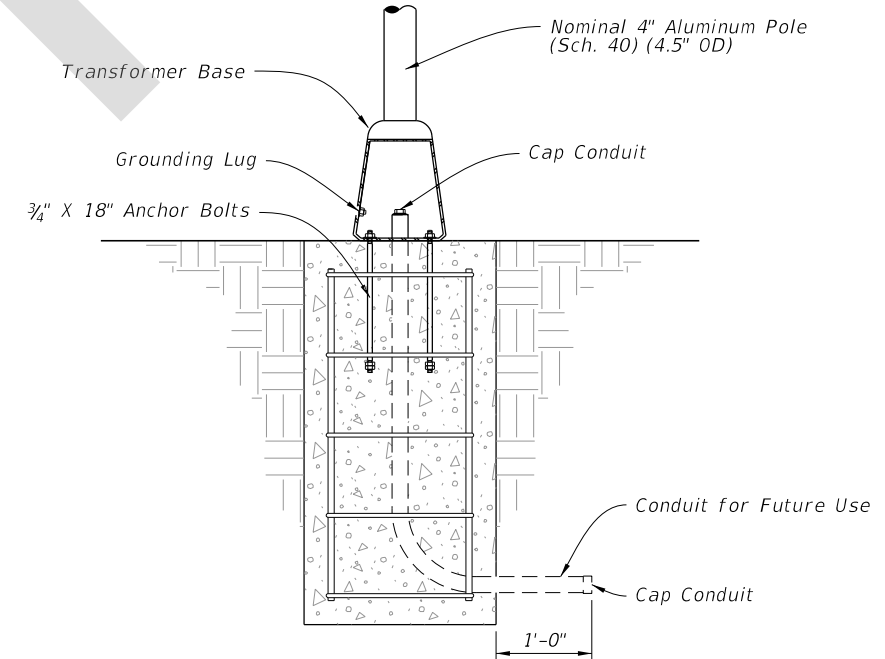
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DETAIL "A"



DETAIL "B"

CONDUIT, WIRING, AND FOUNDATION DETAILS

LAST REVISION	DESCRIPTION:
11/01/21	

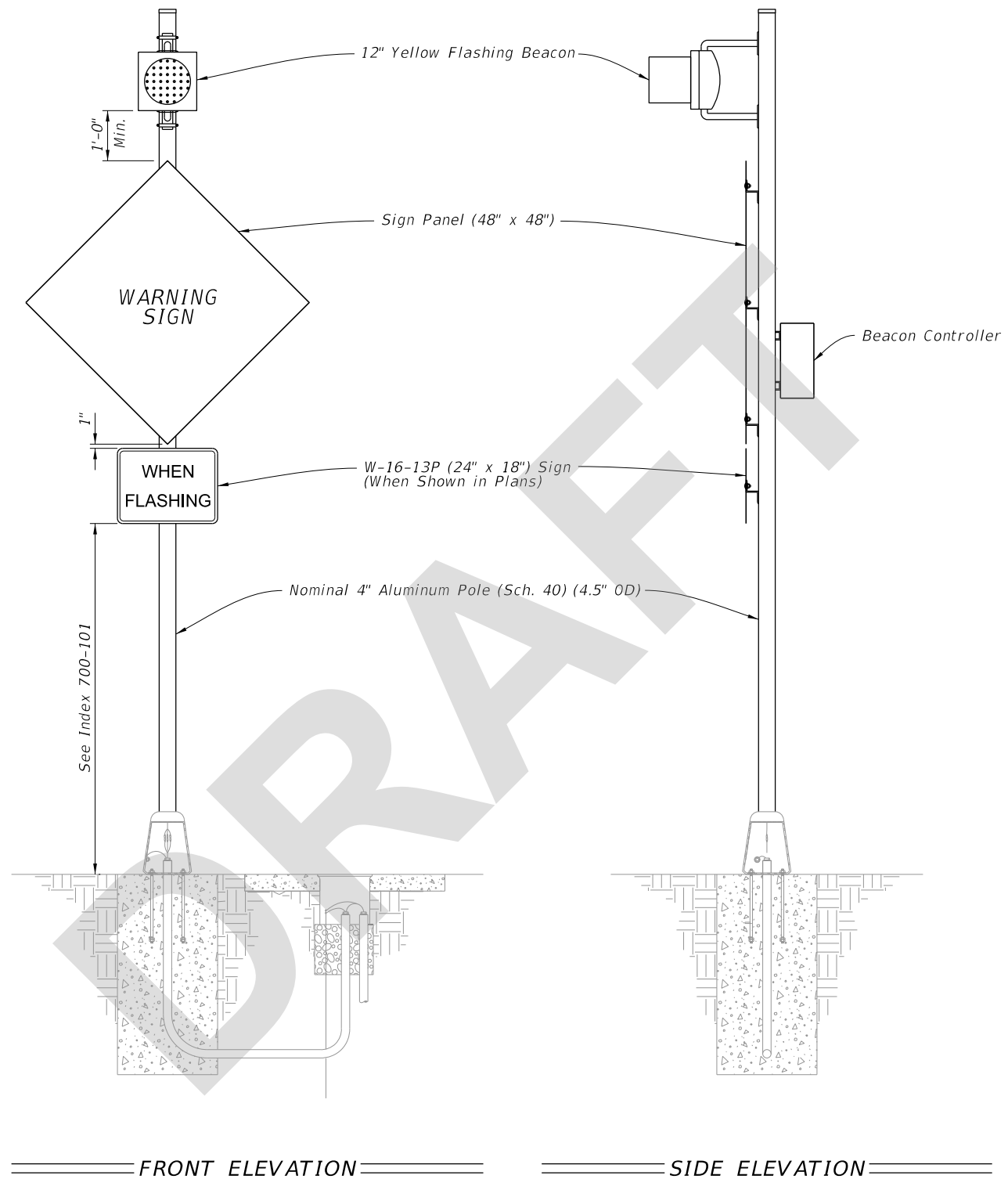


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700-120

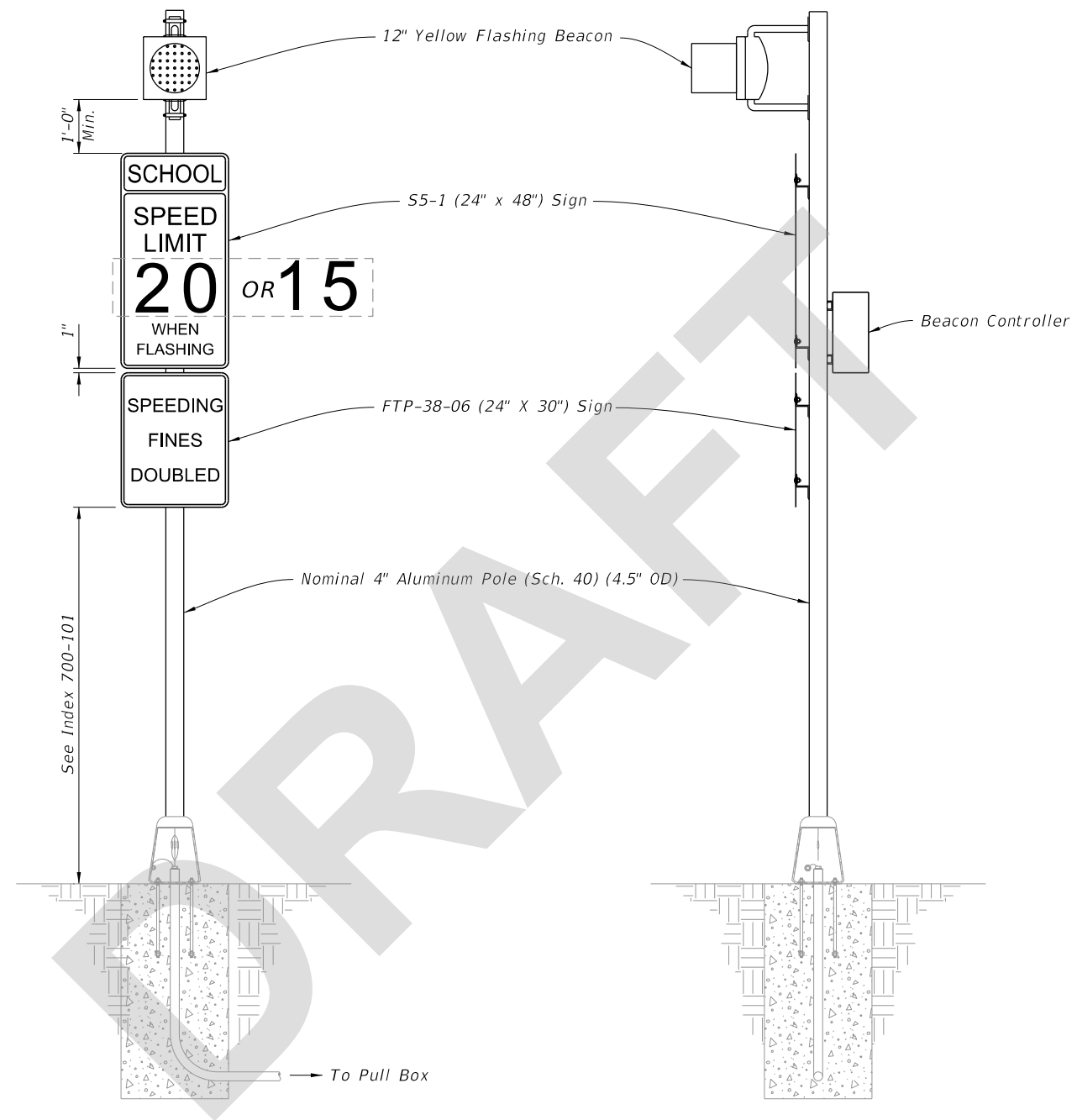
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- NOTES:**
1. Type A1 Assembly (conventionally-powered) is shown. Type B1 Assemblies (solar-powered) similar.
 2. Foundation reinforcement not shown.

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FRONT ELEVATION


SIDE ELEVATION

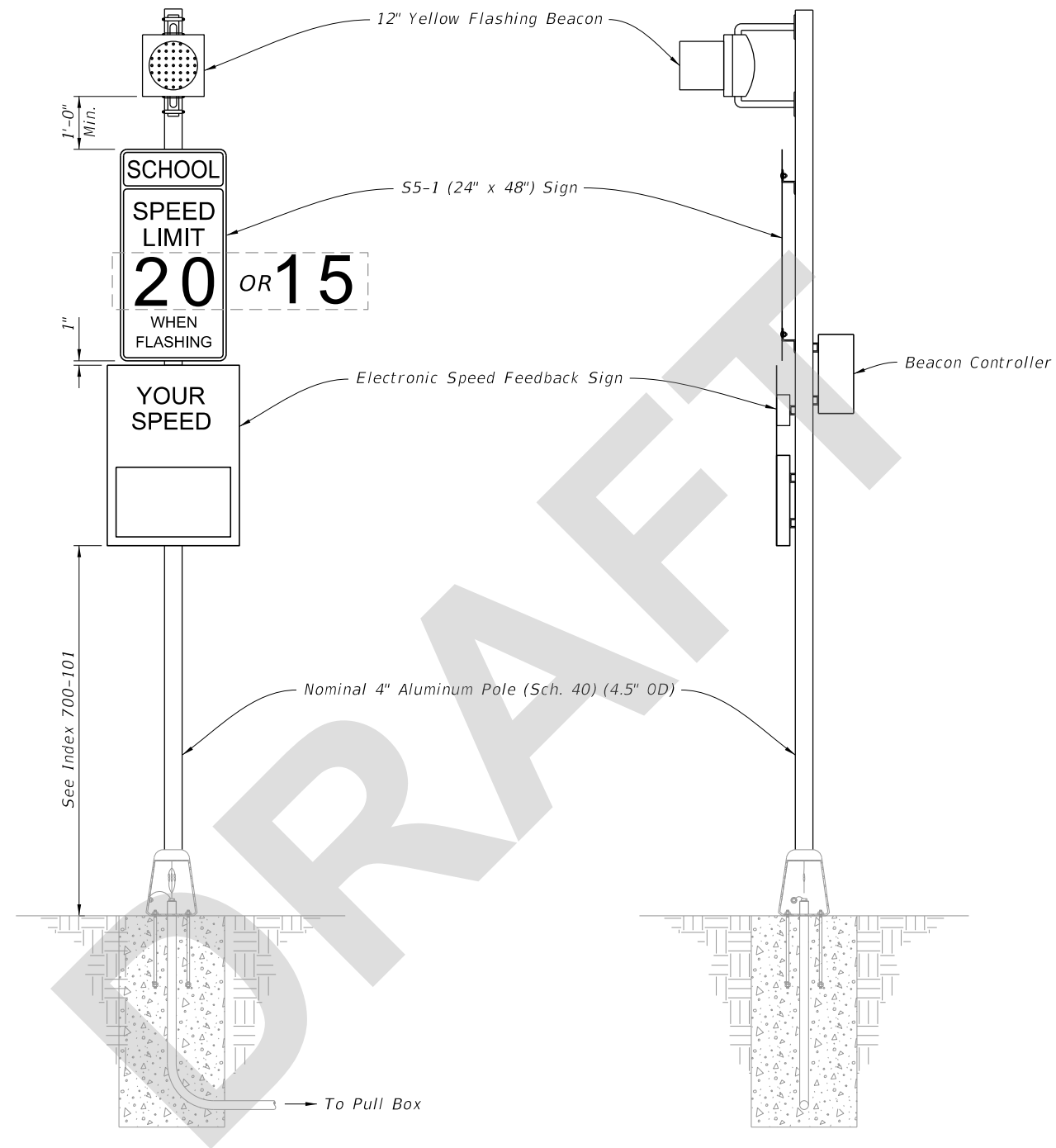
NOTES:

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

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ROADSIDE SIGN ASSEMBLY-2

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FRONT ELEVATION

SIDE ELEVATION

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.

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ROADSIDE SIGN ASSEMBLY-3

LAST REVISION 11/01/21	REVISION	DESCRIPTION:
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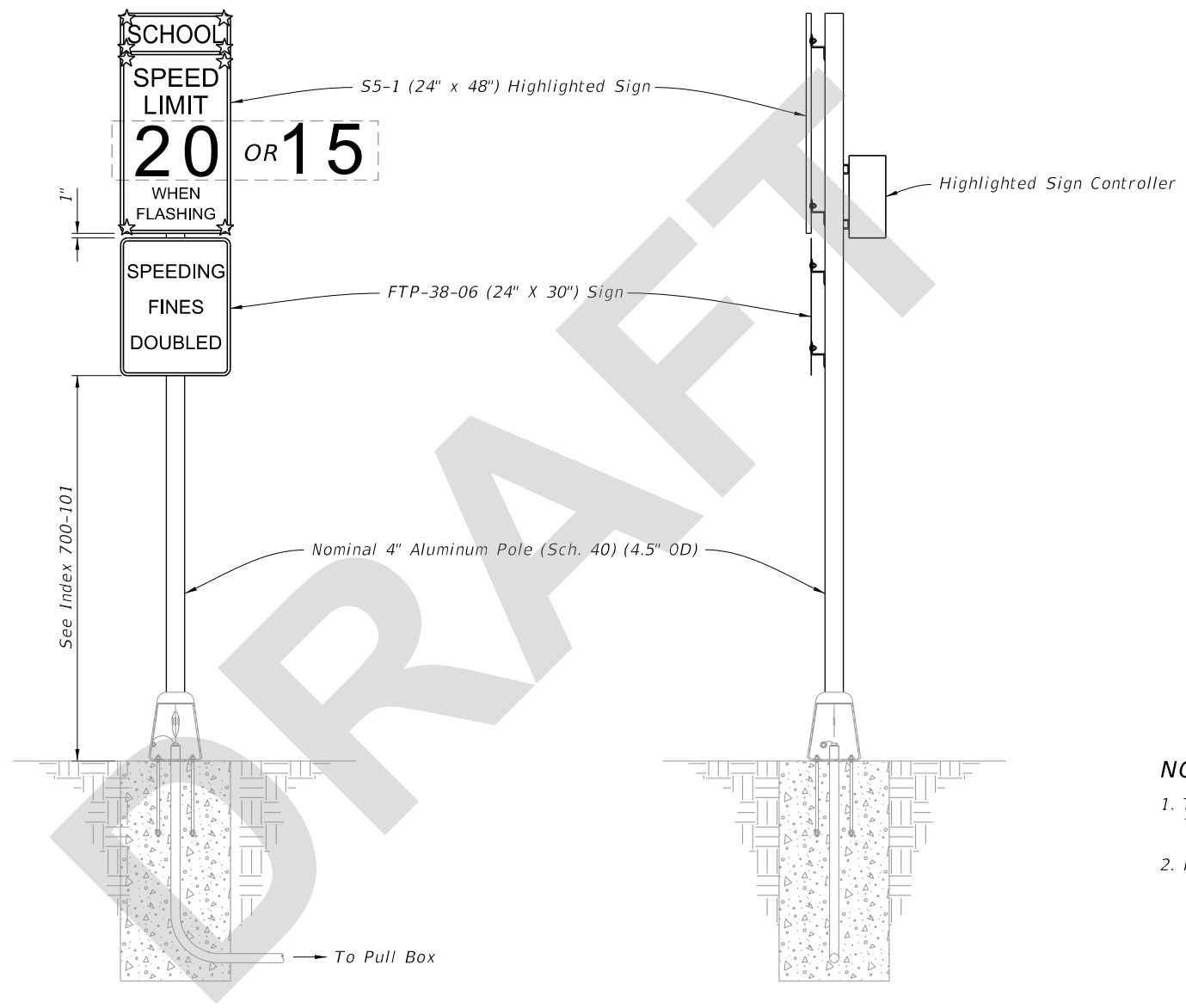


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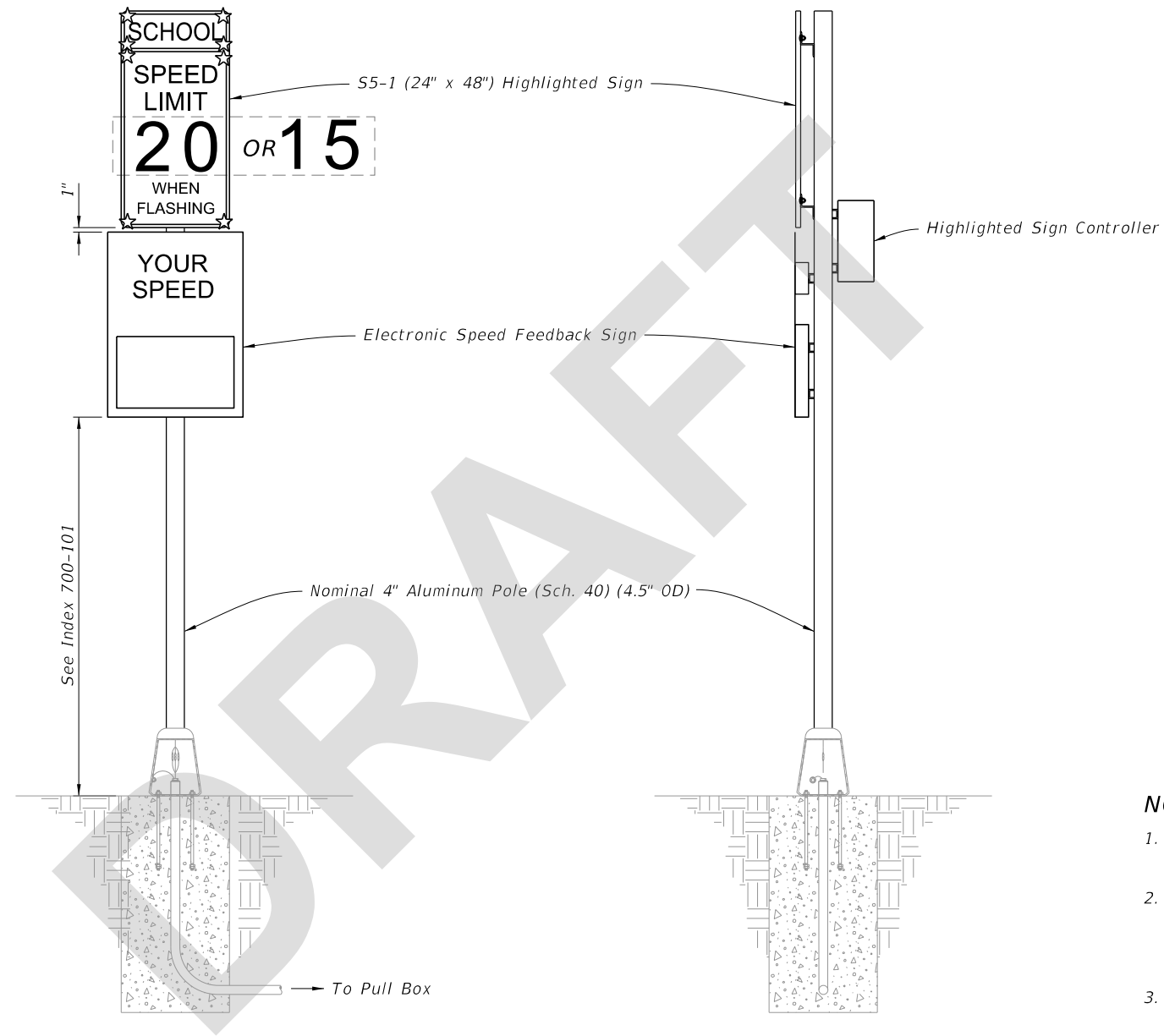
FRONT ELEVATION

SIDE ELEVATION

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

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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.

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ROADSIDE SIGN ASSEMBLY-5

LAST REVISION	DESCRIPTION:
11/01/21	

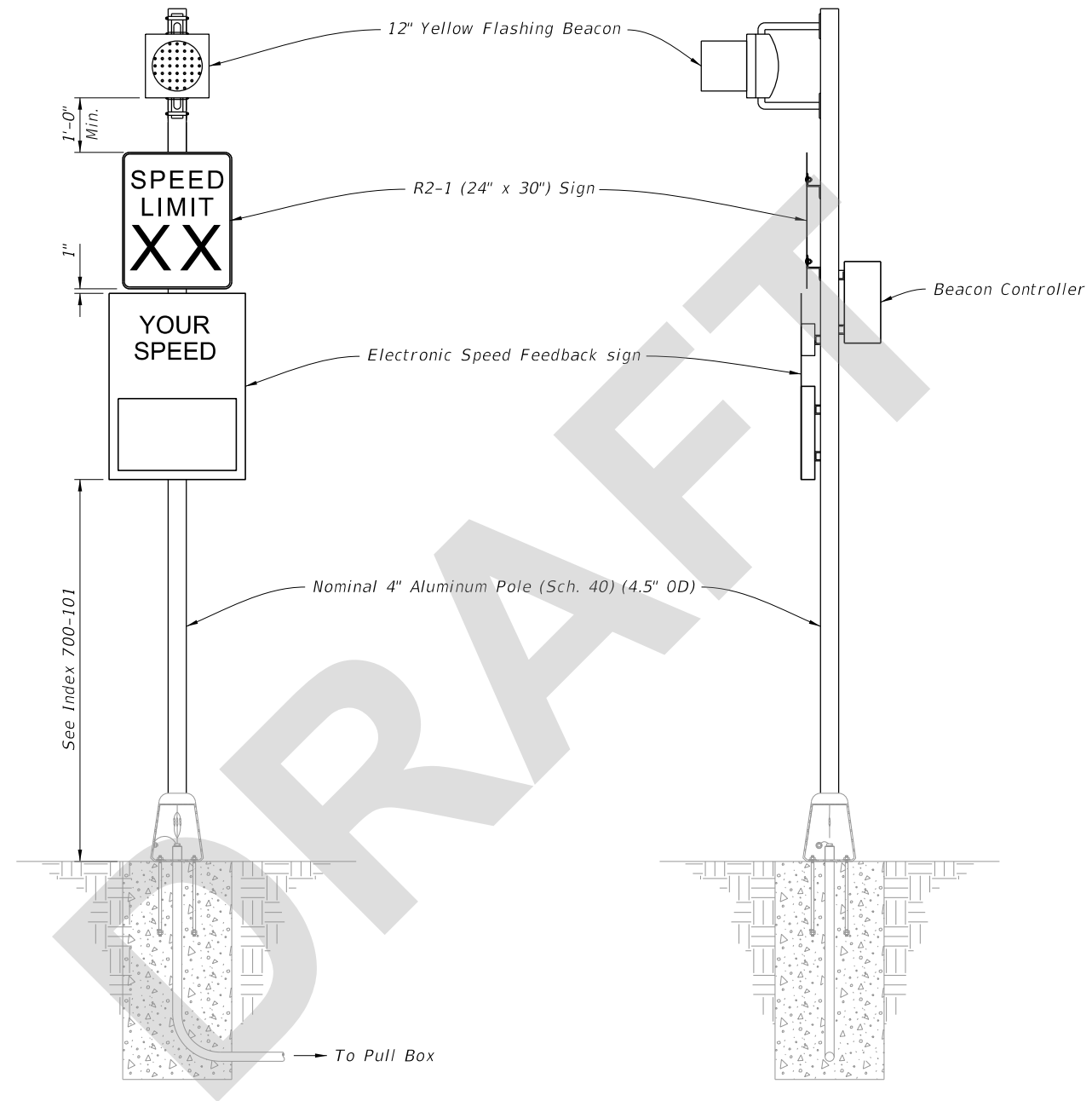


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FRONT ELEVATION

SIDE ELEVATION

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.

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ROADSIDE SIGN ASSEMBLY-6

LAST REVISION 11/01/21	REVISION	DESCRIPTION:
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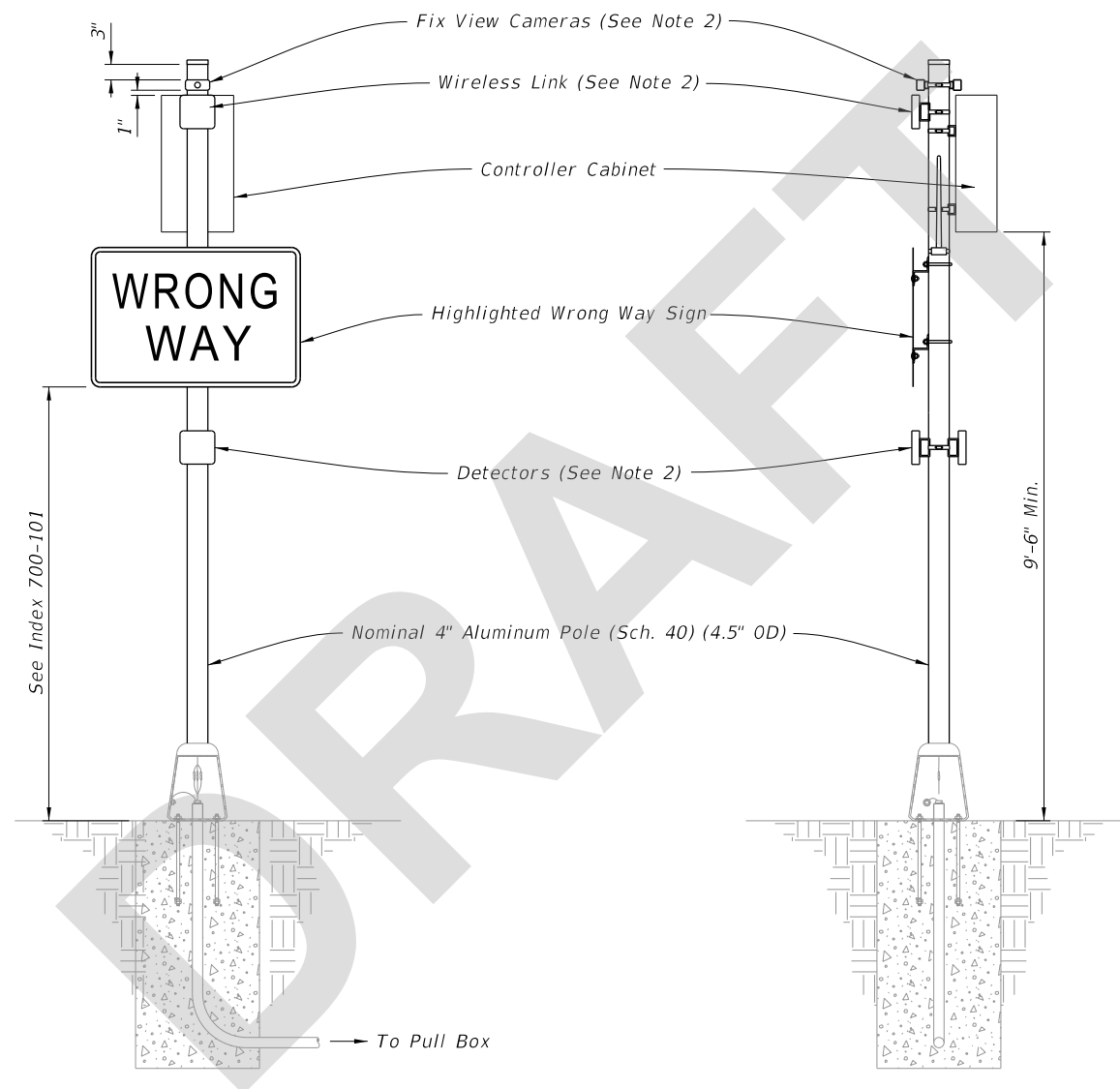


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FRONT ELEVATION

SIDE ELEVATION

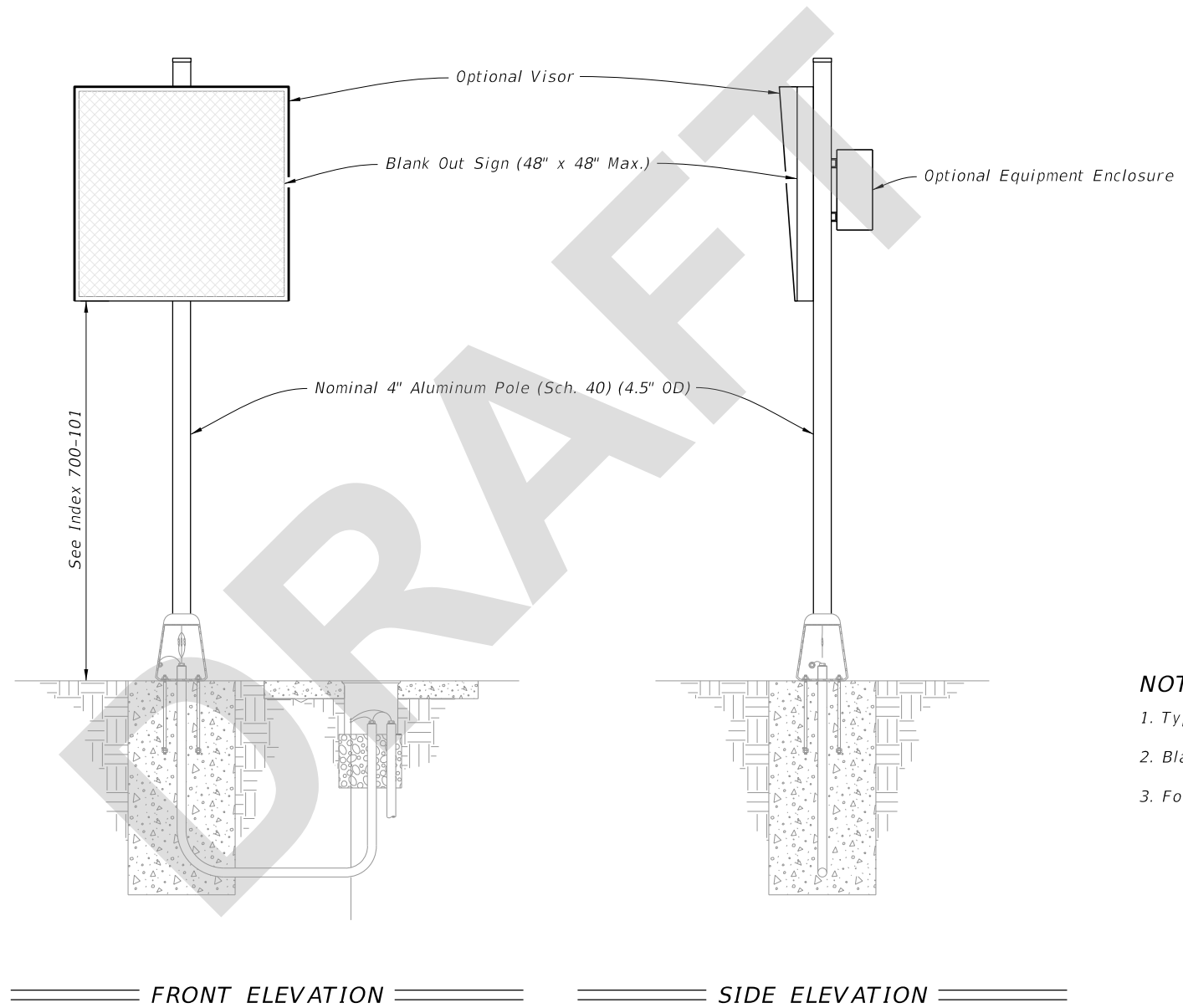
NOTES:

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.

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NOTES:

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

ROADSIDE SIGN ASSEMBLY-8

LAST REVISION 11/01/21	REVISION	DESCRIPTION:
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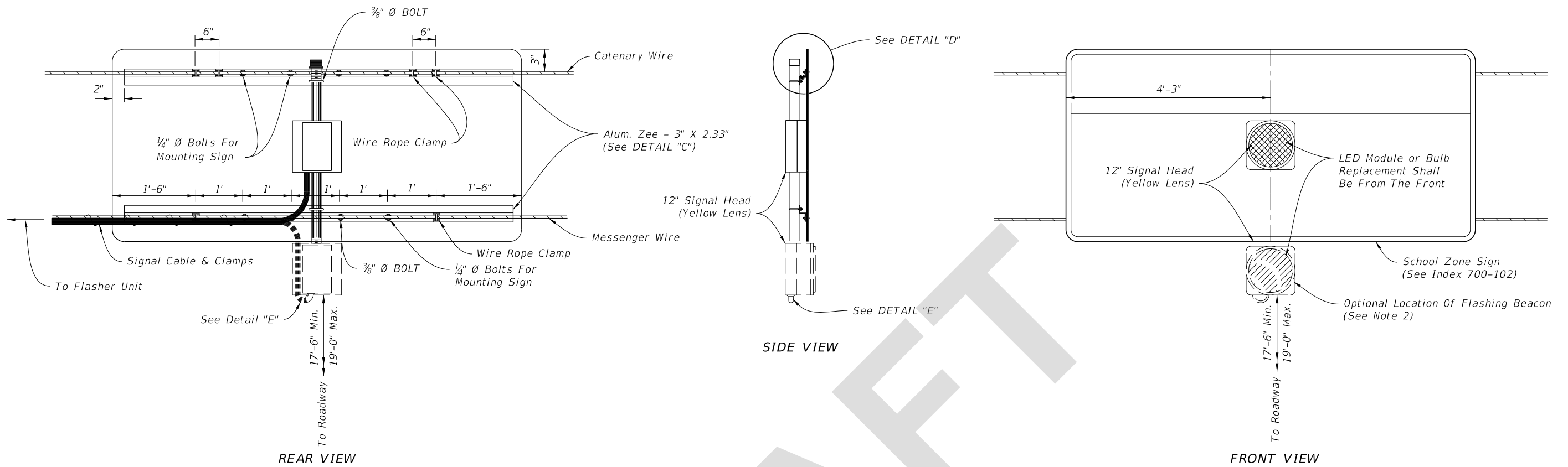


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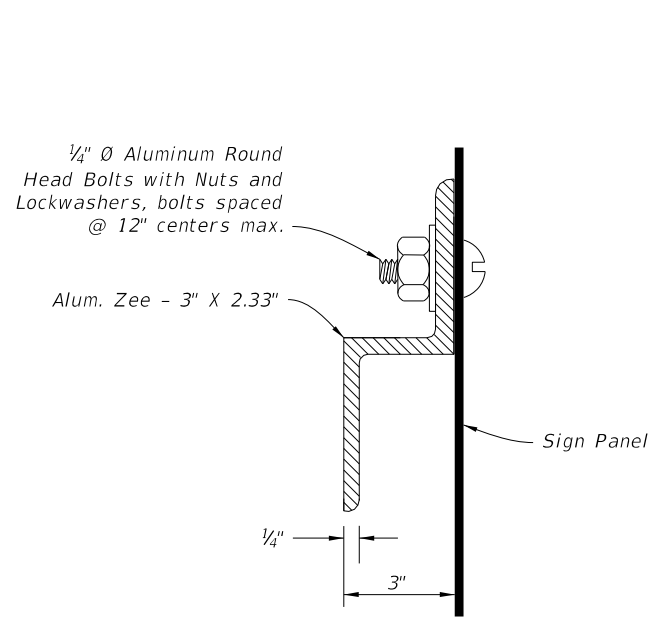
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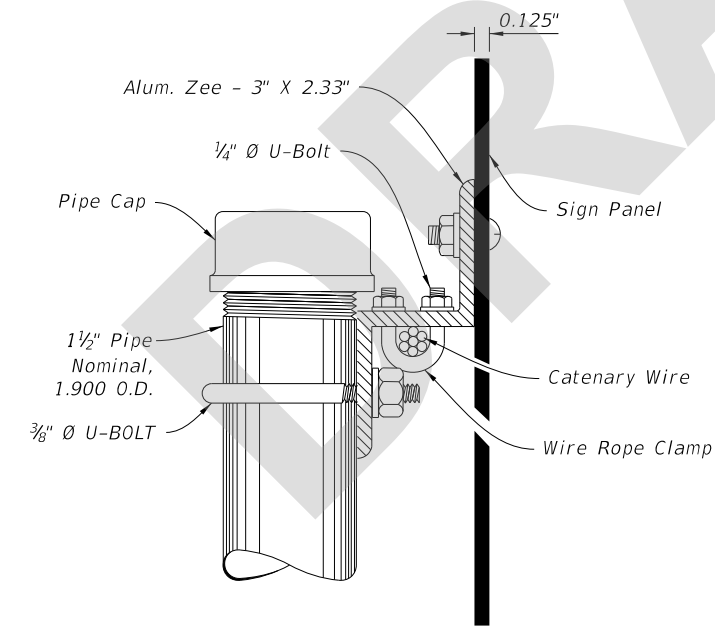


OVERHEAD SCHOOL SIGN ASSEMBLY



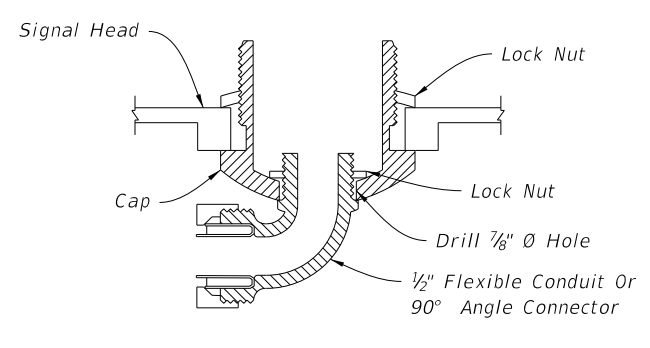
ZEE SECTION DETAIL

DETAIL "C"



MOUNTING DETAIL

DETAIL "D"



CABLE ENTRY DETAIL

DETAIL "E"

NOTES:

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.

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OVERHEAD SIGN ASSEMBLY