POWER CONFIGURATION 'A' 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 requirements of Specification 646 for aluminum poles and transformer bases.

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 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.

GENERAL NOTES:

1. When wire entry holes are drilled in the sign column, use a bushing or rubber grommet to protect conductors.

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 requirements of Specification 646 for aluminum poles and transformer bases.

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.

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CONDUIT, WIRING, AND FOUNDATION DETAILS

DETAIL "A"

Transformer Base
Strain Relief Fitting
#6 Ground Wire
Concrete Apron (Typ.)

Nominal 4" (Sch. 40) Aluminum
One-Pole, Non-Fused Watertight
Breakaway Electrical Connectors

To Power Service
or Auxiliary Pole

U.L. Approved Ground Rod
1/2 Diameter 20' Long Copper
Clad with Approved Ground
Connection (At all Pull Boxes)

DETAIL "B"

Transformer Base
Strain Relief Fitting
#6 Ground Wire

Nominal 4" (Sch. 40) Aluminum

Cap Conduit
Conduit for Future Use

CONDUIT, WIRING, AND FOUNDATION DETAILS

ENHANCED HIGHWAY SIGNING ASSEMBLIES

INDEX

FY 2020-21
STANDARD PLANS

700-120
2 of 10
WARNING SIGN

12" Yellow Flashing Beacon

Sign Panel (48" x 48")

FLASHING WHEN

1'-0"

(W-16-13P (24" x 18") Sign
(When Shown in Plans)

Nominal 4" (Sch. 40) Aluminum

Beacon Controller

NOTE:
Type A1 Assembly (conventionally-powered) is shown.
Type B1 Assemblies (solar-powered) similar.

FRONT VIEW

SIDE VIEW

ROADSIDE SIGN ASSEMBLY-1
12" Yellow Flashing Beacon

55-1 (24" x 48") Sign

SCHOOL
SPEED LIMIT
20 OR 15
WHEN FLASHING

1'-0"

SPEEDING FINES
DOUBLED

77P-38-06 (24" x 30") Sign

Noninal 4" (Sch. 40) Aluminum

To Pull Box

NOTE:
Type A2 Assembly (conventionally-powered) is shown. Type B2 Assembly (solar-powered) similar.
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.

DESCRIPTION:
12" yellow Flashing Beacon

12" Flashing Beacon

Electronic Speed Feedback Sign

Nominal 4" (Sch. 40) Aluminum

SCHOOL SPEED LIMIT 20 OR 15

To Pull Box

18" high numerals for posted speed greater than 45 mph.
Nominal 4" (Sch. 40) Aluminum

NOTE:

SCHOOL SPEED LIMIT

20 OR 15

WHEN FLASHING

SPEEDING FINES DOUBLED

55-1 (24" x 48") Highlighted Sign

FTP-38-06 (24" x 30") Sign

Nominal 4" (Sch. 40) Aluminum

To Pull Box

HA - Highlighted Sign Controller

FRONT VIEW

SIDE VIEW

NOTE:
Type A4 Assembly (conventionally-powered) is shown. Type B4 Assemblies (solar-powered) similar.
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 speeds of 45 mph or less, and 18" high numerals for posted speeds greater than 45 mph.

FRONT VIEW

SIDE VIEW
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 19" high numerals for posted speeds greater than 45 mph.
NOTES:
1. Type A7 Assembly (Conventionally-Powered) is shown. Type B7 Assemblies (Solar-Powered) Similar.
2. Install cameras, point to point microwave link, microwave detectors, and antennas in accordance with the manufacturer's instructions.
OVERHEAD SCHOOL SIGN ASSEMBLY

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.

OVERHEAD SIGN ASSEMBLY