GENERAL NOTES

1. ALUMINUM: Aluminum materials shall meet the requirements of Aluminum Association Alloy 6061-T6 ([ASTM B209, B221, B308 or B429], except as noted.

2. Sign panel, wind beam and columns shall be installed in accordance with Index 11860 and Section 700 of the Specifications.

3. Height and offset to sign column shall be in accordance with Index 13702.

4. When aluminum column (posts) are installed with a frangible pedestal pole bases, engage all threads on the pedestal pole base and pipe unless the pipe is fully seated into base.

5. Aluminum poles and transformer bases shall meet the requirements of Section 646 of the Specifications.

6. A concrete slab shall be installed around all flashing beacon assemblies installed on slopes 6:1 or greater. Minimum dimension of slab shall be 4'-0" by 5'-0".

7. For beacon assemblies with a conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible pedestal pole base.

8. Connection of controller cabinet and solar panel to the column shall be in accordance with manufacturer's recommendations.

9. Holes drilled in sign column for wire entry shall use a bushing or rubber grommet to protect conductors.

10. Orient solar panel to face South for optimal exposure to sunlight.

11. Anchor bolts X 18" cladding ground conductor clad with approved ground conductor. Diameter 20'-0" long copper clad 5" diameter 20' long copper plated with approved ground conductor.

POLE WIRING DETAIL

CONVENTIONAL POWERED BEACON

Pull Box

#6 TW Green Ground Wire

Breakaway Electrical Connectors

Strain Relief Fittings

Circuit Conductors

In Schedule 40 PVC

Conduit, Circuit Conductors Schedeule 40 PVC as shown in Plans.

12" Bed Of Pea Rock or Crushed Stone For Drainage.

To Power Service Point

U.L. approved Ground Rod 1/4" diameter 20' long copper clad with approved ground connection (All pull boxes)
NOTES

1. All flashing beacon assemblies with solar panels, controllers and batteries weighing more than 170 lbs. shall utilize a separate pole for mounting the solar panel, controller and batteries.

2. The auxiliary pole shall be installed outside the recoverable terrain distance and as near the right of way as possible. The recoverable terrain distance shall comply with Design Standard Index 700.

3. Auxiliary pole shall be the same length as the column for the beacon assembly.

4. Payment for the separate pole, foundation, conduit and wiring shall be included in the cost of the electronic warning sign with flashing beacon.
1. Details show a typical warning sign with two flashing beacon heads. When only one beacon is required, install upper beacon.

2. Sign column slip base shall be in accordance with Design Standard Index 11860.

3. Beacon and beacon controllers shall be listed on Approved Products List (APL).
1. Rectangular Rapid Flashing Beacon (RRFB) shall always be installed in pairs, one on either side of approach traffic.

2. Controller shall be installed on the backside of post from approach traffic.

3. All RRFB equipment and hardware shall be listed on the Approved Products List (APL).

4. The W11-2 sign shall be 30" x 30" for single lane facilities and a 36" x 36" sign for multi-lane facilities.
NOTES

1. Details show a typical school zone sign with two flashing beacon heads. When only one beacon is required, install upper beacon.

2. The pedestal base shall be required for both solar powered and conventional powered applications.

3. Beacons and beacon controllers shall be on the Approved Products List (APL).

11862

ROADSIDE FLASHING BEACON ASSEMBLY

SCHOOL REGULATORY SIGN DETAILS

REV 07/01/15

REVIEW 07/01/15

DESCRIPTION:

FY 2016-17

DESIGN STANDARDS

INDEX No.

SHEET No.

11862

5 of 7
NOTES

1. The pedestal base shall be required for both solar powered and conventional powered applications.

2. Speed feedback display, beacons, beacon controllers and installation hardware shall be on the Approved Products List (APL).

3. Speed feedback display shall include 15" numeral heights for posted speeds less than 45 mph and 18" heights for posted speeds 45 mph or greater.

4. Only speed display units weighing 62 lbs. or less may be mounted with a 5'-0" clearance. Speed display units weighing more than 62 lbs. shall be mounted with a 7'-0" clearance.

SCHOOL REGULATORY WITH SPEED FEEDBACK DETAILS

11/30/2015 2:19:16 PM

REVISION
07/01/15

INDEX NO.
11862

SHEET NO.
6 of 7

ROADSIDE FLASHING BEACON ASSEMBLY

FY 2016-17 DESIGN STANDARDS
NOTES

1. The pedestal base shall be required for both solar powered and conventional powered applications.

2. Speed feedback display, beacons, beacon controllers and installation hardware shall be on the Approved Products List (APL).

3. Speed feedback display shall indicate 12" numeral heights for posted speeds less than 45 mph and 18" heights for posted speeds 45 mph or greater.

4. Only speed display units weighing 62 lbs. or less may be mounted with a 0'-0" clearance. Speed display units weighing more than 62 lbs. shall be mounted with a 7'-0" clearance.