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 of 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 depth of slab shall be 4'-0" by 5'-0".

7. A concrete slab shall be installed around all pull boxes. Minimum depth of slab shall be 4'-0" by 4'-0". In urban areas where space is limited slab dimensions may be adjusted as shown in the plans.

8. For beacon assemblies connected to conventional power, provide single pole non-fused watertight breakaway electrical connectors in the frangible pedestal pole base.

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

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

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

12. Orient solar panel to face South for optimal exposure to sunlight.
NOTES

1. All flashing beacon assemblies with solar panels, controllers and batteries weighing more than 370 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. Auxilliary pole shall be the same length as the column for the beacon assembly.

3. 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).
NOTES

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.

Rectangular Rapid Flashing Beacon (RRFB) shall always be installed in pairs, one on either side of approach traffic.

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

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

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

Approach Traffic

Back to Back Sign Shown For Clarity of Installation. Note To Plans For Where Back to Back Is Required.
SCHOOL REGULATORY SIGN DETAILS

**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).

**DESCRIPTION:**

- **SCHOOL:**
  - **SPEED LIMIT:** 20
  - **WHEN FLASHING:**

- **Solar Panel (Optional)**
- **12" Yellow Flashing Beacon**
- **Solar Battery Compartment (Optional)**
- **Nominal 4" (Sch. 40) Aluminum**
- **8" X 18" Anchor Bolts**
- **Optional Conduit**
- **2" Dia.**

**SCHOOL REGULATORY SIGN DETAILS**

**ROADSIDE FLASHING BEACON ASSEMBLY**

**2016 DESIGN STANDARDS**

**INDEX NO.**

**NO.**

**SHEET NO.**

**REV.**

**NO.**

**LAST REV. 07/01/15**

**DESCRIPTION:**

- **REVISION LAST REV. 07/01/15**
- **07/01/15**
- **11862**

- **REV. NO.**
- **INDEX NO.**
- **SHEET NO.**
- **REV. NO.**

**FRONT VIEW**

**SIDE VIEW**
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 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.
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 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 3'-0" clearance. Speed display units weighing more than 62 lbs. shall be mounted with a 5'-0" clearance.