GENERAL NOTES:

1. Details show a typical warning sign with two flashing beacon heads, other arrangements are possible. If only one beacon is required, install the upper beacon.

2. See Item 685, "Roadside Flashing Beacon assemblies" for further requirements.

3. See SMD standard sheets for lateral and vertical clearances and sign mounting details. Bright signs as shown on the sign layout sheet.

4. Use either a Screw-In Type Anchor Foundation or a Drilled Shaft Foundation as shown elsewhere in the plans. When plans require a Drilled Shaft Foundation, see standard sheet TS-FD. Install the ground Type Anchor Foundation as per manufacturer's recommendations. On a slope, install one edge of ground level, Screw-In Type Anchor Foundation is subsidiary to Item 685. Installation of a ground rod is not required for solar powered flashing beacon assembly, as shown.

5. When used, provide Screw-In Type anchor foundations as shown on 12/01T's Manual (Preparer's List) in the file "Highway Traffic Signals". Approved models are listed under Item 685. Installation of a ground rod is not required for solar powered flashing beacon assemblies.

6. Use materials specifically designed for attaching cabinets, beacon heads, solar panels, etc., to poles.

7. Use materials specifically designed for attaching cabinets, beacon heads, solar panels, etc., to poles.

8. Install the cable clamp in the bottom third of the back of the cabinet, as shown.

9. Per manufacturer's recommendations, engage all threads on the pedestal pole base and pipe unless the pipe is fully seated into base. In high winds, use a pole and base collar assembly to add strength and prevent loosening on installation.

10. Install beacon heads as shown here, as shown elsewhere on the plans, or as directed. Use hardware specifically designed for mounting beacon heads on poles.

11. Install the cable clamp in the bottom third of the back of the cabinet, as shown.

12. For single pole non-fused breakaway electrical connectors for portable ground pole bases, as shown on 12/01T's Manual in the file "Roadway Illumination and Electrical Supplies", approved models are listed under Item 685. For ungrounded (neutral) conductors, install a breaker box with a fuse fuse link. For grounded (neutral) conductors, install a breaker box with a fuse fuse link.

13. Install the batteries in a battery box. Place the batteries on a 1/2" thick 4 1/2" outer dia. cast aluminum pipe and detail, as shown. Place a plastic cover over the battery box and detail, as shown. Place a plastic cover over the battery box and detail, as shown. Connect the battery with a strap, the batteries, cell clips, strap, and 1/4" - 20 threaded pipe are provided. "Roadway Illumination and Electrical Supplies", approved models are listed under Item 685. Install batteries in the flasher cabinet. Wire batteries according to manufacturer's recommendations. Provide a number of batteries as required by the manufacturer.

14. See standard sheet Electrical Details (ED) for material requirements regarding the installation of ground box battery boxes, conductors, and cabinets.

15. Unless otherwise shown on the plans or recommended by the manufacturer, use the following table to determine the wire size from cabinet to beacon:

<table>
<thead>
<tr>
<th>Distance from Cabinet to Beacon (ft.)</th>
<th>Minimum Required Wire Size (AWG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 35</td>
<td>#14</td>
</tr>
<tr>
<td>36 - 60</td>
<td>#12</td>
</tr>
<tr>
<td>61 - 100</td>
<td>#10</td>
</tr>
</tbody>
</table>

16. Unless otherwise shown on the plans, the pole shaft shall be one piece. Schedule 40 Aluminum pipe, ASTM 676 or ASTM A53, Grade B or Grade 30, 1-1/2" OD or 1-1/4" OD, or CGB Schedule 40 pipe shall be used. Schedule 40 Aluminum conduit will not develop the necessary strength and will not be allowed.

17. For single pole per manufacturer's recommendations for optimum exposure to sunlight. Prior to installation, check the location to ensure there is no overhead obstruction that would block the solar panel from receiving full sunlight, unless specifically otherwise shown.

18. Ensure height of conduit is below top of anchor bolts.