NOTES:

1. All materials and construction shall conform to the manufacturer's requirements and to the project specifications.

2. The hardware used to connect the pole to the base, and the base to the foundation, shall meet all applicable structural and installation requirements as prescribed by the pole and breakaway base manufacturer.

3. Poles shall be mounted on a breakaway base with 4 high-strength bolts (ASTM A325), utilizing 1 hex nut, 1 flat washer and 1-27° OD x 1/8" ID x 1/2" thick steel washer per bolt, all furnished with the breakaway base.

<table>
<thead>
<tr>
<th>Pole Type</th>
<th>Bolt Size</th>
<th>Bottom Bolt Circle</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1 1/2&quot; Dia x 4&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>3</td>
<td>1 1/2&quot; Dia x 4 1/2&quot;</td>
<td>11 1/2&quot;</td>
</tr>
</tbody>
</table>

4. A bolt circle smaller than specified shall not be used except when specifically approved by the Engineer. If a smaller bolt circle is approved, stock pack washers shall be used in a manner approved by the manufacturer.

5. All bolts shall be installed and torqued according to the breakaway base manufacturer's requirements.

6. The base shall be installed such that the base access door or cover is positioned under the mast arm, or 90 degrees to the mast arm, behind the mast arm side of the pole. The door or cover opening shall always be perpendicular to the direction of traffic.

7. An un-fused connector shall be used for each conductor in the breakaway base, except for the bond wire which shall be connected directly to the base ground lug. For details see TS Series 1. The fused connections shall be in the junction or pull box adjacent to the pole foundation.

8. The base door or cover shall have the base and/or pole manufacturer's name on it. The door shall be secured with standard 1/2"-20 stainless steel box screws or vandal-resistant screws. All screws shall be furnished with the base. The door can be hinged, or be a removable panel.

9. All 2 1/4" OD x 1/2" ID x 1/2" thick washers and 2 1/4" OD x 1/2" ID x 1/2" thick washers shall be zinc mechanical coated per ASTM B 985-85 class 50, with a smooth outer surface. All other bolts, nuts & washers shall be galvanized per ASTM A325.

10. The bases shown are two piece weldments that are in conformance to ASTM B 108 aluminum alloy permanent mold castings.

11. Certifications shall be provided by pole and breakaway base manufacturer when requested. Certifications shall cover materials used, FMWA crash worthiness approval, and conformance to loading criteria stated herein.

12. The caution and use instructions label shall be secured inside the base on the opposite side of the access door plate or on the cover itself.

13. The base, as supplied and installed, shall conform to all applicable AASHTO, NCHRP and FMWA requirements for trussability bases for roadway light poles.

14. The base depicted in these drawings is made by the Akron Foundry. This is intended to be lent or restrict competition, but to establish the needed performance and function of breakaway bases.

15. These bases may be used for non-breakaway applications.

16. Prior to installation, the Contractor shall consult with the manufacturer regarding loading, installation and application.

17. Top bolt circles less than 12" shall use 2 1/2" OD x 1/2" ID x 1/2" thick steel washers. Bottom bolt circles of 12" diameter shall use 2 1/2" OD x 1/2" ID or 1/2" ID x 1/2" thick steel washers.

**BASE LOADING CRITERIA:**

<table>
<thead>
<tr>
<th>Base Type</th>
<th>Max Total Weight</th>
<th>Pole Mast Arm and Luminaires</th>
<th>Akron Designations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>550 lb</td>
<td>150 lb</td>
<td>700-17</td>
</tr>
<tr>
<td>3</td>
<td>900 lb</td>
<td>600 lb</td>
<td>703-17</td>
</tr>
</tbody>
</table>

**LOADING CRITERIA NOTES:**

1. The loading criteria shall be regarded as minimum. Actual criteria shall be as determined by the base and/or pole manufacturer.

2. Highway Light Pole & Mast Arm/Luminaire combinations which exceed this loading criteria must be tested and FMWA certified in accordance with the applicable AASHTO Specifications, NCHRP and FMWA requirements.

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**NOT TO SCALE**