SLIP BASE NOTES:

1. Use sleeves with an inside diameter (I.D.) no more than 1/8" larger than the outside diameter (O.D.) of the column.

2. Sleeve Bolts: ASTM A-307, 1/2" galvanized steel bolt (with lock nuts) or Alloy 2024-T4 or 6061-T6 (ASTM B-211).


4. Base plates may have either single or double beveled slots.

5. A alternate cast base plate of aluminum alloy 316 and T6 temper in lieu of the fabricated base plate may be submitted for approval.

6. If a cast base plate is used, the stub will be the same size as the column and will be bolted to the casting.

7. Assemble the slip base connection in the following manner:
   a. Connect column to sleeve using two 1/2" Ø machine bolts.
   b. Assemble top base plate to stub base plate using high strength bolts with three hardened washers per bolt. One of the three washers per bolt and two bolt keeper plates go between the base plates.
   c. Orient the bolt keeper plates in the Directions of Traffic.
   d. Tighten all bolts to the maximum possible with a 12" to 15" wrench.
   e. Loosen each bolt one turn and using a calibrated wrench retighten to (This will bed the washers and shims and clear the bolt threads.)
   f. Burr threads at junction with nut using a center punch to prevent nut loosening.

8. Both fabricated and cast base assemblies were impact tested by the Texas Transportation Institute, College Station, TX on February 10, 2003.

SLIP BASE AND FOOTING DETAIL IN CONCRETE (non-frangible post in crossovers, medians, & sidewalks)

Columns (Post) (Driven in center to full embedment)

Concrete sidewalk, median, etc.

Provide bond breaker between adjacent concrete surfaces

Concrete sidewalk, median, etc.

Provide removable form or PVC of 12" dia.

SLIP BASE DETAILS

<table>
<thead>
<tr>
<th>Column Size</th>
<th>Sleeve I.D. (Max)</th>
<th>Sleeve Height 'H'</th>
<th>Weld 'W'</th>
<th>Base Plate Rod Size 'R'</th>
<th>Base Bolt Rod Size 'R'</th>
<th>Base Plate Torque 'T'</th>
<th>Hole Size 'D'</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 4</td>
<td>1/8&quot;</td>
<td>6</td>
<td>9/16&quot;</td>
<td>6</td>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>29</td>
</tr>
<tr>
<td>4 x 4 1/4&quot;</td>
<td>4</td>
<td>6</td>
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</tbody>
</table>

Note: Unless notes otherwise, all dimensions are in inches.