**DAVIT LIGHT POLE**

(Single or twin mount)

*Unless directed otherwise by the Engineer.*

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**LIGHT POLE ALUMINUM DAVIT ARM**

**STANDARD 830006-05**

Illinois Department of Transportation

January 1, 2019

PASSED 2019

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-19

REVISIONS

1-1-17

Added notes 3 and 4.

1-1-19

Revised standard to comply with the 2013 version of AASHTO.

GENERAL NOTES

See Standard 836001 for Light Pole Foundation and grounding electrode.

See Standard 720001 for pole identification banding to pole.

Provide breakaway devices where required.

Where anchor rods on existing bridge parapets are too short to mount poles as shown, install leveling plate directly on concrete and level with stainless steel washers.

All dimensions are in inches (millimeters) unless otherwise shown.

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**POLE BASE**

<table>
<thead>
<tr>
<th>MOUNTING HEIGHT</th>
<th>BOLT CIRCLE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>35° (10.7 m) or less</td>
<td>115 (290)</td>
</tr>
<tr>
<td>Greater than 35° (10.7 m) to 50° (15.2 m)</td>
<td>130 (380)</td>
</tr>
</tbody>
</table>

**POLE LOWER SHAFT**

<table>
<thead>
<tr>
<th>MOUNTING HEIGHT</th>
<th>LOWER SHAFT LENGTH</th>
<th>MINIMUM SHAFT DIAMETER</th>
<th>MINIMUM WALL THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>20° (6.4 m)</td>
<td>8 tapered to 6 (200 to 114)</td>
<td>0.25 (6)</td>
<td></td>
</tr>
<tr>
<td>35° (7.9 m)</td>
<td>8 tapered to 6 (200 to 114)</td>
<td>0.25 (6)</td>
<td></td>
</tr>
<tr>
<td>40° (9.5 m)</td>
<td>10 tapered to 6 (250 to 150)</td>
<td>0.25 (6)</td>
<td></td>
</tr>
<tr>
<td>45° (11.0 m)</td>
<td>10 tapered to 6 (250 to 150)</td>
<td>0.25 (6)</td>
<td></td>
</tr>
<tr>
<td>50° (12.5 m)</td>
<td>12 tapered to 6 (300 to 150)</td>
<td>0.312 (8)</td>
<td></td>
</tr>
</tbody>
</table>

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**DAVIT ARM**

**MINIMUM WALL THICKNESS**

- 3'-0" (914 m) R.
- 3'-9" (1.14 m) R.

**DETAIL**

- Davit arm. Minimum wall thickness 0.188 (4.8).
- Davit arm length 15'-0" (4.57 m) max., for single.
- 12'-0" (3.66 m) max., for double.
- See tenon detail.

**SECTION A-A**

- Davit arm. Minimum wall thickness 0.188 (4.8).
- Davit arm length 15'-0" (4.57 m) max., for single.
- 12'-0" (3.66 m) max., for double.
- See tenon detail.

**SECTION B-B**

- Davit arm length 15'-0" (4.57 m) max., for single.
- 12'-0" (3.66 m) max., for double.
- See tenon detail.

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**TENON DETAIL**

- Davit arm length 15'-0" (4.57 m) max., for single.
- 12'-0" (3.66 m) max., for double.
- See tenon detail.

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**GABLE DETAIL**

- Davit arm length 15'-0" (4.57 m) max., for single.
- 12'-0" (3.66 m) max., for double.
- See tenon detail.

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**LEVELING PLATE**

- Mounting height
- See pole base and handrail detail.
- See pole base to the bottom of the slip joint.

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**FLAT WASHER AND LOCK WASHER**

- Davit arm. Light pole shaft.
- Light pole shaft.
- ½ (16) bolt. No threads inside pole, (typ.).

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**PLATE**

- Davit arm. Light pole shaft.
- Light pole shaft.
- ½ (16) bolt. No threads inside pole, (typ.).

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**GENERAL NOTES**

See Standard 836001 for Light Pole Foundation and grounding electrode.

See Standard 720001 for pole identification banding to pole.

Voids in light pole base shall be sealed to prevent rodent entry.

Provide breakaway devices where required.

Where anchor rods on existing bridge parapets are too short to mount poles as shown, install leveling plate directly on concrete and level with stainless steel washers.

All dimensions are in inches (millimeters) unless otherwise shown.