**STATE OF FLORIDA WELCOME CENTER**

**TYPICAL SIGN FOR OVERHEAD TRUSS**

**WIND BEAM TABLE (Z 3 x 2½° x 2.33)**

<table>
<thead>
<tr>
<th>Number of Horizontal Wind Beams Based on Sign Depth (D)</th>
<th>2 Beams</th>
<th>3 Beams</th>
<th>4 Beams</th>
<th>5 Beams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Hangers</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>L = Length</td>
<td>140 mph</td>
<td>150 mph</td>
<td>170 mph</td>
<td></td>
</tr>
<tr>
<td>D ≤ 6°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
</tr>
<tr>
<td>6° &lt; D ≤ 12°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
</tr>
<tr>
<td>12° &lt; D ≤ 18°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
</tr>
<tr>
<td>18° &lt; D ≤ 21°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
</tr>
<tr>
<td>21° &lt; D ≤ 27°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
</tr>
</tbody>
</table>

**HANGER TABLE (I 6 x 4.69 or Z 5 x 3° to 6.19)**

<table>
<thead>
<tr>
<th>Number of Vertical Hanger Beams Based on Wind Speed and Sign Length (L)</th>
<th>2 Hangers</th>
<th>3 Hangers</th>
<th>4 Hangers</th>
<th>5 Hangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>L = Length</td>
<td>130 mph</td>
<td>150 mph</td>
<td>170 mph</td>
<td>190 mph</td>
</tr>
<tr>
<td>D ≤ 6°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
<td>20° ≤ L ≤ 30°</td>
</tr>
<tr>
<td>6° &lt; D ≤ 12°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
<td>15° ≤ L ≤ 20°</td>
</tr>
<tr>
<td>12° &lt; D ≤ 18°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
<td>10° ≤ L ≤ 15°</td>
</tr>
<tr>
<td>18° &lt; D ≤ 21°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
<td>5° ≤ L ≤ 10°</td>
</tr>
<tr>
<td>21° &lt; D ≤ 27°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
<td>0° ≤ L ≤ 5°</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

1. Work this Index with Index 700-040 and 700-041.
2. The number and location of the Panel Splices are determined by the Sign Face supplier.
3. Spacing of Vertical Hangers:
   A. Two Vertical Hanger = 21.0% L
   B. Three Vertical Hanger = 17.0% L
   C. Four Vertical Hanger = 14.0% L
   D. Five Vertical Hanger = 11.0% L
   E. Six Vertical Hanger = 9.0% L
   F. Spacing of vertical hangers may be varied slightly as necessary to clear the truss struts and diagonals at panel points.
4. Spacing of Wind Beams:
   A. Two Wind Beams = 21.0% D
   B. Three Wind Beams = 19.0% D
   C. Four Wind Beams = 17.0% D
   D. Five Wind Beams = 15.0% D
   E. Six Wind Beams = 13.0% D

**Materials**

A. Aluminum:
   a. Bars, and Extruded Shapes: ASTM B 221, Alloy 6061-T6 or Alloy 6351-T5
   b. Structural Shapes: ASTM B688, Alloy 6061-T6
   c. Flat, Wide, and Flattened Shapes: ASTM F 416, Alloy 6061, Alloy 6351, or Alloy 6622-T9
   d. Washers: ASTM B 221, Alclad 5052

B. Steel:
   a. U-Bolts: ASTM A499 or ASTM A193
   b. Nuts: ASTM A563, 2 per leg
   c. Washers: ASTM F 436, Alclad 2024-T4

C. Coatings:
   a. Galvanized Steel Bolts, Nuts, and Washers: ASTM F 2848
   b. Galvanized Steel Bolts, Nuts, and Washers: ASTM F 2329

5. Shop Drawings:
   A. Required for Sign Panels deeper than 10'-0" with a horizontal panel splice.
   B. Splices must be located in between interior Zee Supports and only allowed on signs greater than 10'-0".

6. Notes:
   a. 1/16" Aluminum Flat Head Machine Bolt With Lock Washers & Nuts (Use Nylon Washers Under the Button Bolt Heads to Protect Sign Sheeting)
   b. 5/8" Aluminum Flat Head Machine Bolt With Lock Washers & Nuts
   c. Bolt Wind Beam to Vertical Hanger With 5/8" Aluminum Hex Head Bolt with Washers & Nuts

**LAST REVISION:** 11/01/18

**DESCRIPTION:** FY 2019-20 STANDARD PLANS

**INDEX:** 700-003

**SHEET:** 1 of 1

**11/01/18 1:03:17 PM**