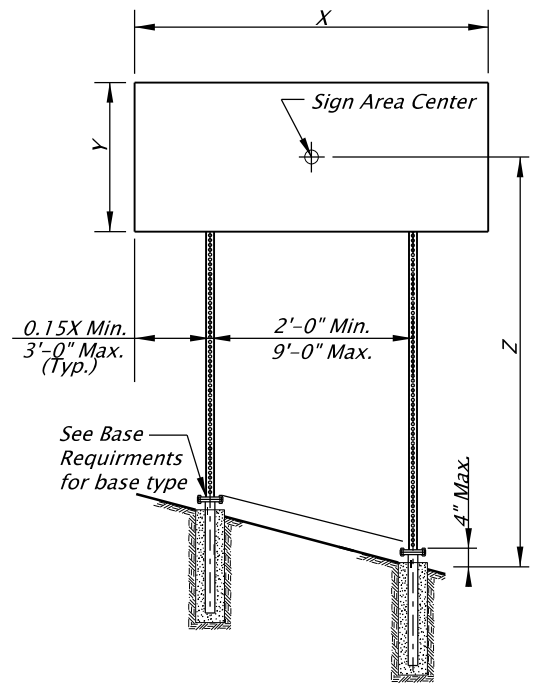


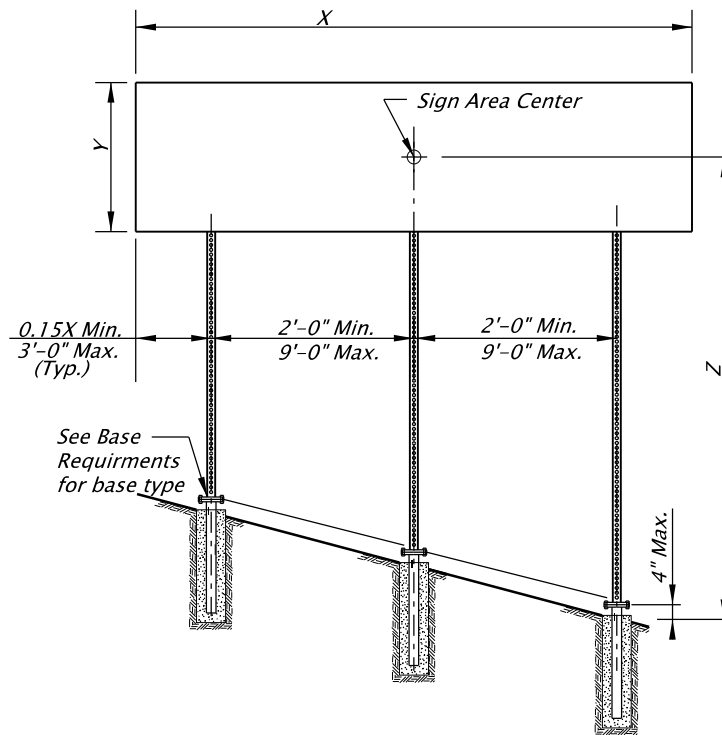
SINGLE POST ELEVATION

No scale



TWO POST ELEVATION

No scale



THREE POST ELEVATION

No scale

<i>(X * Y * Z) in ft³ - Maximum</i>									
<i>3 Second Gust Wind Speed (TM671)</i>									
<i>Square Tube Size</i>	<i>85 MPH</i>			<i>95 MPH</i>			<i>105 or 110 MPH</i>		
	<i>Number of Posts</i>			<i>Number of Posts</i>			<i>Number of Posts</i>		
<i>2"-12 ga.</i>	<i>79</i>	<i>158</i>	<i>237</i>	<i>63</i>	<i>126</i>	<i>189</i>	<i>57</i>	<i>114</i>	<i>171</i>
<i>2 1/2"-12 ga.</i>	<i>136</i>	<i>272</i>	<i>408</i>	<i>109</i>	<i>218</i>	<i>327</i>	<i>98</i>	<i>196</i>	<i>294</i>
<i>2 1/2"-10 ga.</i>	<i>165</i>	<i>330</i>	<i>495</i>	<i>132</i>	<i>264</i>	<i>396</i>	<i>119</i>	<i>238</i>	<i>357</i>
<i>2 1/4" & 2 1/2"-12 ga.*</i>	<i>231</i>	<i>462</i>	<i>693</i>	<i>185</i>	<i>370</i>	<i>555</i>	<i>167</i>	<i>334</i>	<i>501</i>

PERMANENT PERFORATED STEEL SQUARE TUBE TABLE

<i>(X * Y * Z) in ft³ - Maximum</i>									
<i>3 Second Gust Wind Speed (TM671)</i>									
<i>Square Tube Size</i>	<i>85 MPH</i>			<i>95 MPH</i>			<i>105 or 110 MPH</i>		
	<i>Number of Posts</i>			<i>Number of Posts</i>			<i>Number of Posts</i>		
<i>2"-12 ga.</i>	<i>125</i>	<i>250</i>	<i>375</i>	<i>100</i>	<i>200</i>	<i>300</i>	<i>90</i>	<i>180</i>	<i>270</i>
<i>2 1/2"-12 ga.</i>	<i>215</i>	<i>430</i>	<i>645</i>	<i>172</i>	<i>344</i>	<i>516</i>	<i>155</i>	<i>310</i>	<i>465</i>
<i>2 1/2"-10 ga.</i>	<i>261</i>	<i>522</i>	<i>783</i>	<i>209</i>	<i>418</i>	<i>627</i>	<i>189</i>	<i>378</i>	<i>567</i>
<i>2 1/4" & 2 1/2"-12 ga.*</i>	<i>364</i>	<i>728</i>	<i>1092</i>	<i>292</i>	<i>584</i>	<i>876</i>	<i>263</i>	<i>526</i>	<i>789</i>

TEMPORARY PERFORATED STEEL SQUARE TUBE TABLE

* - See 2 1/4" & 2 1/2" - 12 ga. detail.

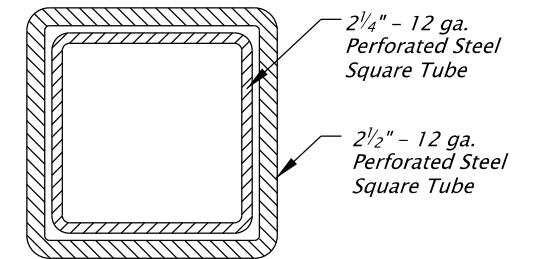
<i>Square Tube Size</i>	<i>Number of Posts</i>		
	<i>1</i>	<i>2</i>	<i>3</i>
<i>2"-12 ga.</i>	<i>Anchor</i>	<i>Anchor</i>	<i>N/A</i>
<i>2 1/2"-12 ga.</i>	<i>Anchor</i>	<i>Slip</i>	<i>Slip</i>
<i>2 1/2"-10 ga.</i>	<i>Slip</i>	<i>Slip</i>	<i>Slip</i>
<i>2 1/4" & 2 1/2"-12 ga.*</i>	<i>Slip</i>	<i>Slip</i>	<i>Slip</i>

1. Anchor - See Drawing TM687 for PSST anchor foundation details.
2. Slip - See Drawing TM688 for PSST slip base foundation details.
3. N/A - Do not use this option.

BASE REQUIREMENTS

GENERAL NOTES:

1. Perforated Steel Square Supports are designed in accordance with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals 4th Edition, 2001, 2002, 2003, and 2006 interim revisions.
2. The design basic wind speed (3 second gust) shall be according to the wind map shown on TM671.
3. Material grade for base hardware connection shall be according to the manufacturer's recommendation and based on crash testing.
4. Use 7/16" diameter holes at 1" spacing on each of the 4 sides.
5. Steel post shall have a minimum yield stress of 50 ksi.
6. Steel shall be galvanized according to ASTM A653 with coating designation G90.
7. General design parameters are $K_z = 0.87$, $C_d(\text{sign}) = 1.20$, and $G = 1.14$.
8. Permanent signing uses an $I_r = 0.71$ for a recurrence interval of 10 years.
9. Temporary signing uses an $I_r = 0.45$ for a recurrence interval of 1.5 years.
10. The sign width to sign height or sign height to sign width ratio shall not exceed 5.0.
11. For horizontal and vertical clearances of permanent signs refer to TM200 and of temporary signs refer to TM822.
12. Posts protected by barrier or guardrail do not require slip bases.



2 1/4" - 12 ga. PSST to extend entire length inside of the 2 1/2" - 12 ga. PSST.

2 1/4" & 2 1/2" - 12 GA. DETAIL

No scale

Accompanied by dwgs. TM200, TM671, TM687, TM688, TM689, TM822

<p><i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.</i></p>		<p>All materials shall be in accordance with the current Oregon Standard Specifications.</p>	
		<p>OREGON STANDARD DRAWINGS</p> <p>PERFORATED STEEL SQUARE TUBE (PSST)</p> <p>SIGN SUPPORT INSTALLATION</p> <p>2021</p>	
		DATE	REVISION DESCRIPTION
CALC. BOOK NO.	5752	SDR DATE	10-JUL-2017
		TM681	