



# Pershing County Building Department



## Post Frame / Pole Building (Non-Engineered)

**Buildings must meet the following requirements to be designed without engineering and shall not exceed 20 feet in height.**

### Building Dimensions

Width: 36 ft. maximum

Length: 48 ft. maximum

Eave Height: 14 ft. maximum

Total Height: 20 ft. maximum

Note: Lean-to/awning or carport supported off the pole building are considered part of the width and length of the building.

### Design Criteria

Wind Speed: 90 mph exposure C

Live Load: 20 psf

Ground Snow Load: 30 psf

Seismic Zone: D1

Soil Pressure: 1,500 psf

Manufactured trusses or rafters per IRC requirements

### Building Materials

**1. Using the chart below, fill in the blanks on the worksheet:**

_____ Eave Height	<b><u>Truss &amp; Corbel attachment</u></b>	<b><u>Corbel to Post</u></b>	<b><u>Truss to Post</u></b>
_____ Building Width	Eave Height: 14 ft. Max	8 – 20d nails	½” thru-bolt
_____ Building Length			
_____ Pole Size (6x6 pt or 6” diameter pt min.)	<b><u>Girt Spacing, Size, and Orientation</u></b>		
_____ Bay Width	Bay Width: 10 ft. max. – 2x6 @ 24” OC attached to the outside of the post		
_____ Header Size	Bay Width: Over 10’ to 12’ – 2x6 @ 24” OC installed horizontally (flat between posts) with 2x6 blocking between girts		
_____ Trusses (NV Engineered)			
_____ Rafter / Purlin Size	<b><u>Roof Purlin Spacing &amp; Size</u></b>		
_____ Rafter / Purlin Spacing	Roof purlin size & spacing: Minimum 2x6 @ 24” OC		
_____ Roof Sheathing			
_____ Roofing Material & Gauge	<b><u>Burial Depth of Posts</u></b>		
_____ Truss / Rafter attachment to Post	Eave Height to 10’: 3’ depth		
_____ Girt Size	Eave Height over 10’: 4’ depth or 3’6” depth with (1) ½” (#4) rebar – 36” long evenly spaced into slab. Required on each post.		
_____ Girt Spacing	Drill one hole thru post. Insert rebar. Evenly space so there is approximately 15” of rebar on each side of the post and bernd		
_____ Type of Siding & Gauge			
_____ Corbel Attachment to Post			
_____ Slope of roof (to determine max. height)			
_____ Burial Depth of Post			