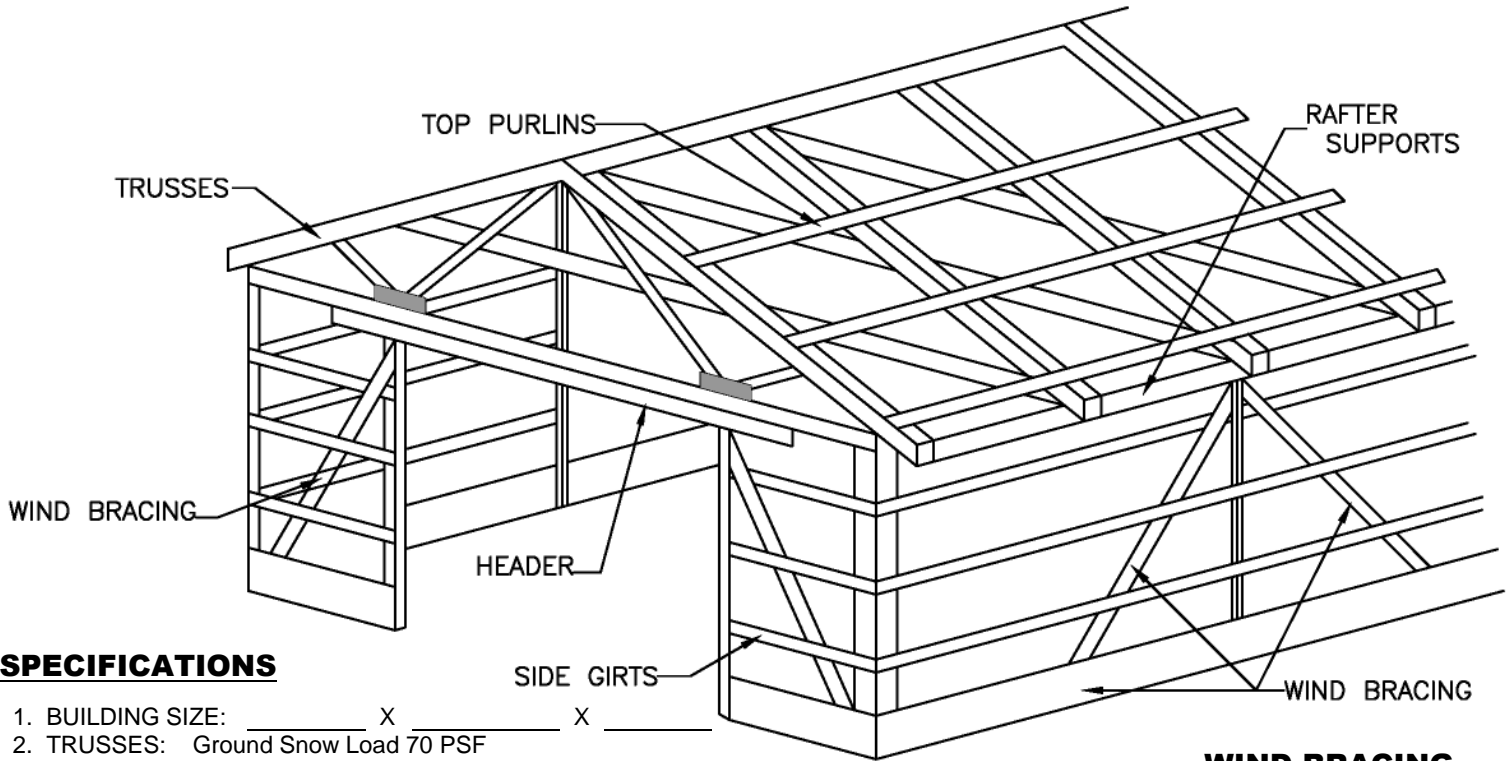


# CHARLEVOIX COUNTY BUILDING DEPARTMENT RESIDENTIAL POLE BUILDING PLAN & SPECIFICATIONS



## **SPECIFICATIONS**

1. BUILDING SIZE: \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_
2. TRUSSES: Ground Snow Load 70 PSF  
From Figure R301.2 (5) MCR or MRC table R301.2(5)
3. TRUSSES: YES            NO
4. TRUSS SPACING: \_\_\_\_\_ @ O.C.
5. RAFTERS: \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_ O.C.
6. POSTS: \_\_\_\_\_ X \_\_\_\_\_ @ \_\_\_\_\_ O.C.
7. FOOTINGS: \_\_\_\_\_
8. CONCRETE FLOOR: YES    NO
9. MAIN DOOR HEADER: \_\_\_\_\_ X \_\_\_\_\_ & \_\_\_\_\_
10. TOP GIRTS: \_\_\_\_\_ X \_\_\_\_\_ @ \_\_\_\_\_ O.C.
11. SIDE GIRTS: \_\_\_\_\_ X \_\_\_\_\_ @ \_\_\_\_\_ O.C.

## **WIND BRACING**

Wind pressure on the walls will cause the pole to bend at the ground line. A WIND BRACE should be provided at the eave line for buildings with a side wall height of over 10', and for buildings 60' long and over. The BRACE should be a 2" x 4" at least 12' long, extending from the pole to the rafter at an angle of 45 deg to the side wall.

\*BRACING IN ROOF: TO PROVIDE FOR LATERAL SUPPORT OF THE TRUSSES – SEE MANUFACTURED TRUSS CERTIFICATION

## **POLE SPACING INFORMATION**

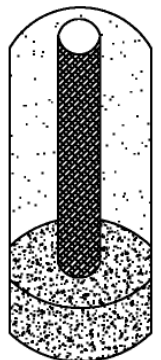
POLE SPACE	BLDG WIDTH	PAD DIAMETER
_____	_____	_____

## **RAFTER SUPPORTS**

POLE SPACE	BLDG WIDTH	SIZE & # OF CARRIERS
_____	_____	_____

## **CONCRETE PAD**

Minimum of 8" inches thick 2500 PSI concrete. NO DRY MIX FOR PADS.



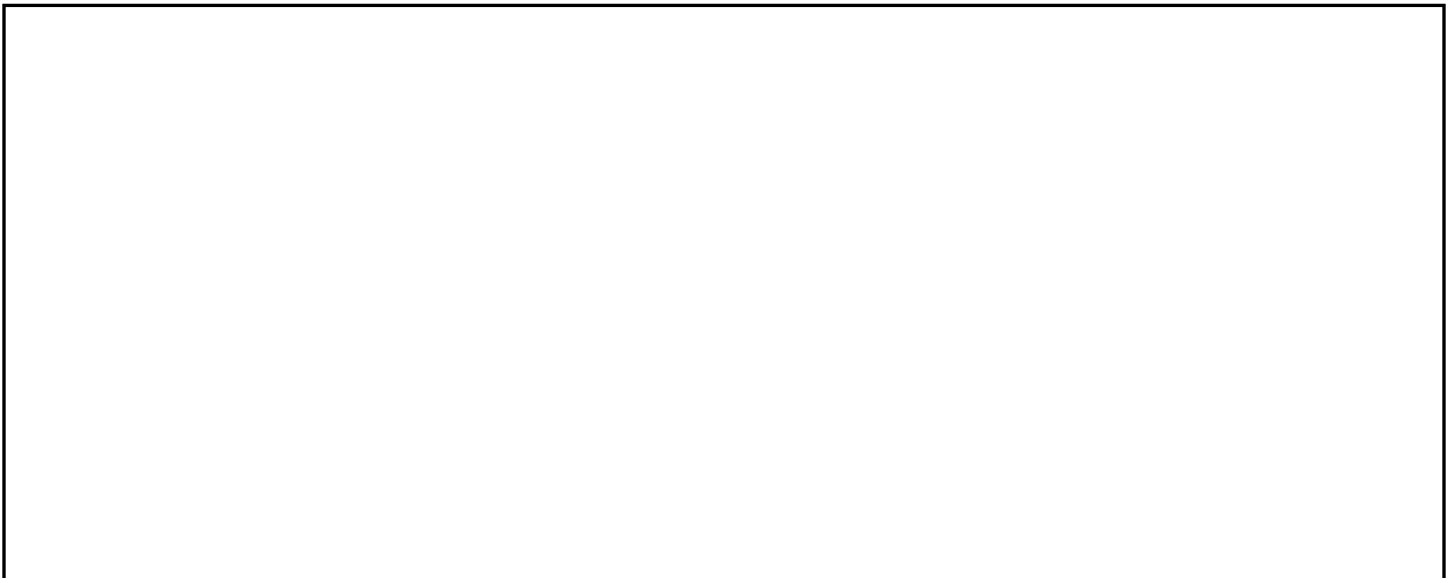
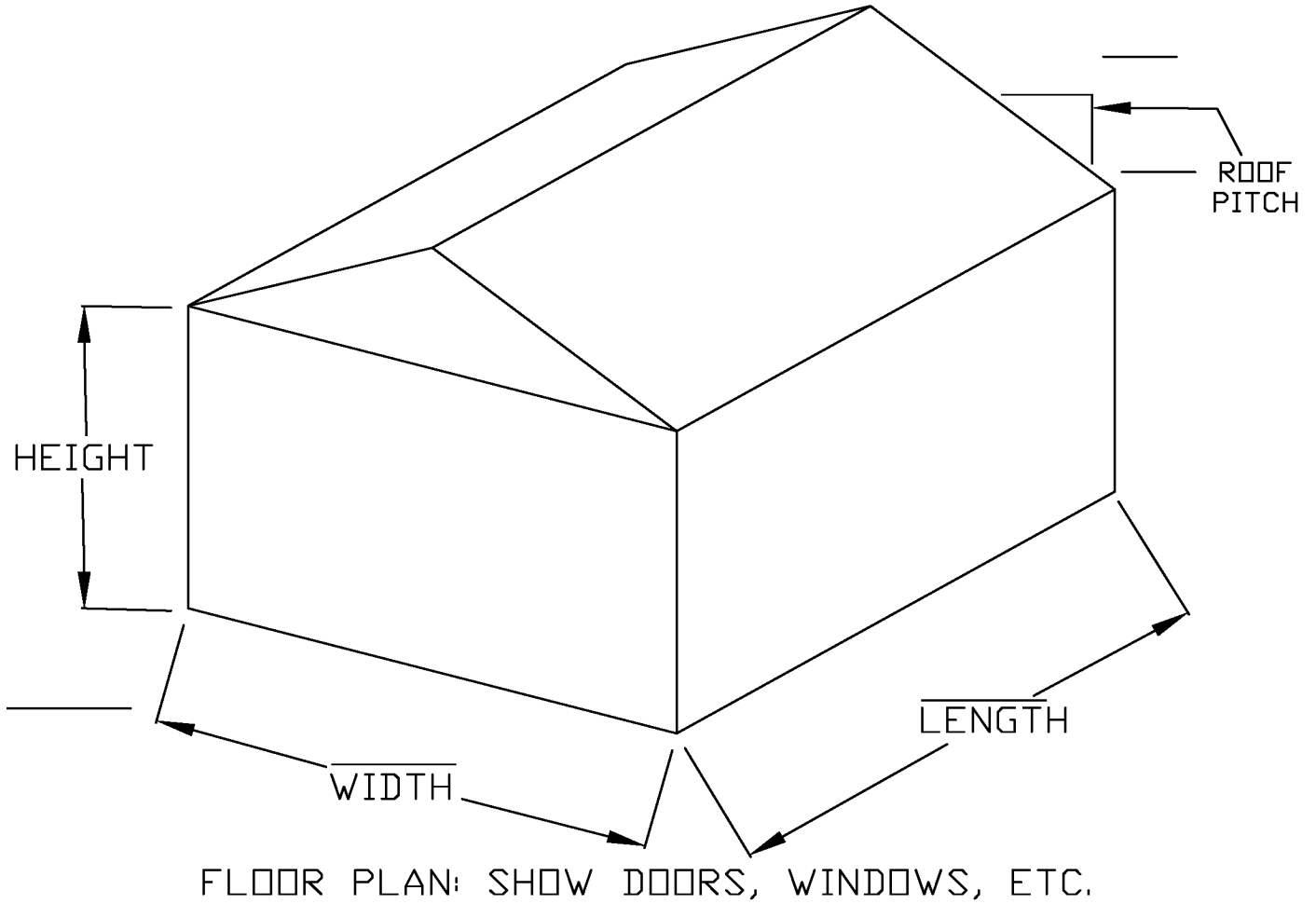
**ALL FOOTINGS 48" TO THE BOTTOM OF THE HOLE.**

## **EAVE HEIGHT (CIRCLE)**

- 10` - 4" X 6" thru 40` LENGTH
- 10` - 6" X 6" thru 60` LENGTH
- 12` - 6" x 6" thru 50` LENGTH

**CHARLEVOIX COUNTY BUILDING DEPARTMENT  
OVER 16' SIDE WALLS AND/OR OVER 3,500SQ REQUIRE SIGNED &  
SEALED DRAWINGS.**

**ADDITIONAL INFORMATION MAYBE REQUIRED**



# POLE BUILDING HANDOUT

Unheated, Detached, Residential Accessory Building, Smooth Metal Roof, Slope = 4:12

Sand, Silt or Clay Sand Soil Types, **Ground Snow Load = 70 psf** From Figure R301.2 (5) MCR or MRC table R301.2(5)

		20 Foot Wide Building		24 Foot Wide Building		28 Foot Wide Building		30 Foot Wide Building	
Post Spacing	Grade	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size
4 FEET	A	1.75" x 5.5"	15' dia.	1.75" x 5.5"	16' dia.	1.75" x 5.5"	18" dia.	1.75" x 5.5"	19" dia.
	B	2" x 10"		2" x 10"		2" x 10"		2" x 12"	
	C	2" x 8"		2" x 8"		2" x 10"		2" x 12"	
6 FEET	A	1.75" x 7.25"	18" dia. 8" Thick	1.75" x 7.25"	20" dia.	1.75" x 9.25"	22" dia.	1.75" x 9.25"	23" dia.
	B	2 - 2" x 10"		2 - 2" x 10"		2 - 2" x 10"		2 - 2" x 12"	
	C	2 - 2" x 10"		2 - 2" x 10"		2 - 2" x 10"		2 - 2" x 12"	
8 FEET	A	1.75" x 9.25"	21" dia.	1.75" x 9.25"	23" dia.	1.75" x 11.25"	25" dia.	1.75" x 11.25"	26" dia.
	B	2 - 2" x 12"		3 - 2" x 10"		3 - 2" x 12"		3 - 2" x 12"	
	C	2 - 2" x 12"		3 - 2" x 10"		3 - 2" x 12"		3 - 2" x 12"	
10 FEET	A	1.75" x 11.25"	24" dia.	1.75" x 11.875"	26" dia.	2 - 1.75" x 9.5"	28" dia.	2 - 1.75" x 9.5"	29" dia.
	B	3 - 2" x 12"		4 - 2" x 12"		5 - 2" x 12"		5 - 2" x 12"	
	C	3 - 2" x 12"		4 - 2" x 12"		4 - 2" x 12"		4 - 2" x 12"	
12 FEET	A	2 - 1.75" x 9.25"	26" dia.	2 - 1.75" x 11.25"	28" dia.	2 - 1.75" x 11.25"	31" dia.	2 - 1.75" x 11.25"	32" dia.
	B	5 - 2" x 12"		No		6 - 2" x 12"		No	
	C	4 - 2" x 12"		5 - 2" x 12"		5 - 2" x 12"		6 - 2" x 12"	
14 FEET	A	2 - 1.75" x 11.25"	28" dia.	2 - 1.75" x 11.875"	31" dia.	3 - 1.75" x 11.25"	33" dia.	3 - 1.75" x 11.25"	34" dia.
	B	6 - 2" x 12"		No		No		No	
	C	5 - 2" x 12"		6 - 2" x 12"		No		No	
16 FEET	A	3 - 1.75" x 11.25"	30" dia.	3 - 1.75" x 11.25"	33" dia.	3 - 1.75" x 11.875"	35" dia.	4 - 1.75" x 11.25"	37" dia.
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	3 - 1.75" x 11.25"	32" dia.	4 - 1.75" x 11.25"	35" dia.	4 - 1.75" x 11.875"	37" dia.	3 - 1.75" x 14"	39" dia.
	B	No		No		No		No	
	C	No		No		No		No	

		32 Foot Wide Building		36 Foot Wide Building		40 Foot Wide Building		50 Foot Wide Building	
Post Spacing	Grade	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size	Truss Carrier Beam	Footing Size
4 FEET	A	1.75" x 5.5"	19" dia.	1.75" x 7.25"	20" dia.	1.75" x 7.25"	21" dia.	1.75" x 7.25"	24" dia.
	B	2" x 12"		2" x 12"		2 - 2" x 10"		2 - 2" x 10"	
	C	2" x 12"		2" x 12"		2" x 12"		2 - 2" x 10"	
6 FEET	A	1.75" x 9.25"	23" dia.	1.75" x 9.25"	25" dia.	1.75" x 9.25"	26" dia.	1.75" x 11.25"	29" dia.
	B	2 - 2" x 12"		3 - 2" x 10"		3 - 2" x 10"		3 - 2" x 12"	
	C	2 - 2" x 12"		3 - 2" x 12"		3 - 2" x 10"		3 - 2" x 12"	
8 FEET	A	1.75" x 11.25"	27" dia.	1.75" x 11.875"	28" dia.	2 - 1.75" x 9.25"	30" dia.	2 - 1.75" x 11.25"	33" dia.
	B	3 - 2" x 12"		4 - 2" x 12"		4 - 2" x 12"		5 - 2" x 12"	
	C	3 - 2" x 12"		3 - 2" x 12"		4 - 2" x 12"		5 - 2" x 12"	
10 FEET	A	2 - 1.75" x 11.25"	30" dia.	2 - 1.75" x 11.25"	32" dia.	2 - 1.75" x 11.25"	33" dia.	3 - 1.75" x 11.25"	37" dia.
	B	5 - 2" x 12"		5 - 2" x 12"		6 - 2" x 12"		No	
	C	5 - 2" x 12"		5 - 2" x 12"		6 - 2" x 12"		No	
12 FEET	A	2 - 1.75" x 11.875"	33" dia.	3 - 1.75" x 11.25"	35" dia.	3 - 1.75" x 11.25"	37" dia.	4 - 1.75" x 11.25"	41" dia.
	B	No		No		No		No	
	C	6 - 2" x 12"		No		No		No	
14 FEET	A	3 - 1.75" x 11.25"	35' dia.	3 - 1.75" x 11.875"	37" dia.	4 - 1.75" x 11.25"	39" dia.	3 - 1.75" x 14"	44" dia.
	B	No		No		No		No	
	C	No		No		No		No	
16 FEET	A	4 - 1.75" x 11.25"	38" dia.	4 - 1.75" x 11.875"	40" dia.	4 - 1.75" x 14"	42" dia.	4 - 1.75" x 14"	47" dia.
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	4 - 1.75" x 14"	40" dia.	4 - 1.75" x 14"	42" dia.	4 - 1.75" x 14"	45" dia.	4 - 1.75" x 16"	50" dia.
	B	No		No		No		No	
	C	No		No		No		No	

**\*\*ALL FOOTINGS 48" TO THE BOTTOM OF THE HOLE.**

Lumber Grade Legend

A - Laminated Veneer Lumber, Fo = 2,600 psi, Fv = 285 psi, E = 1,900,000 psi

B - Hem-Fir #2, Fo = 850 psi, Fv = 150 psi, E = 1,300,000 psi

C - Southern Yellow Pine #2, Fo = 975 psi, Fv = 175 psi, E = 1,600,000 psi

