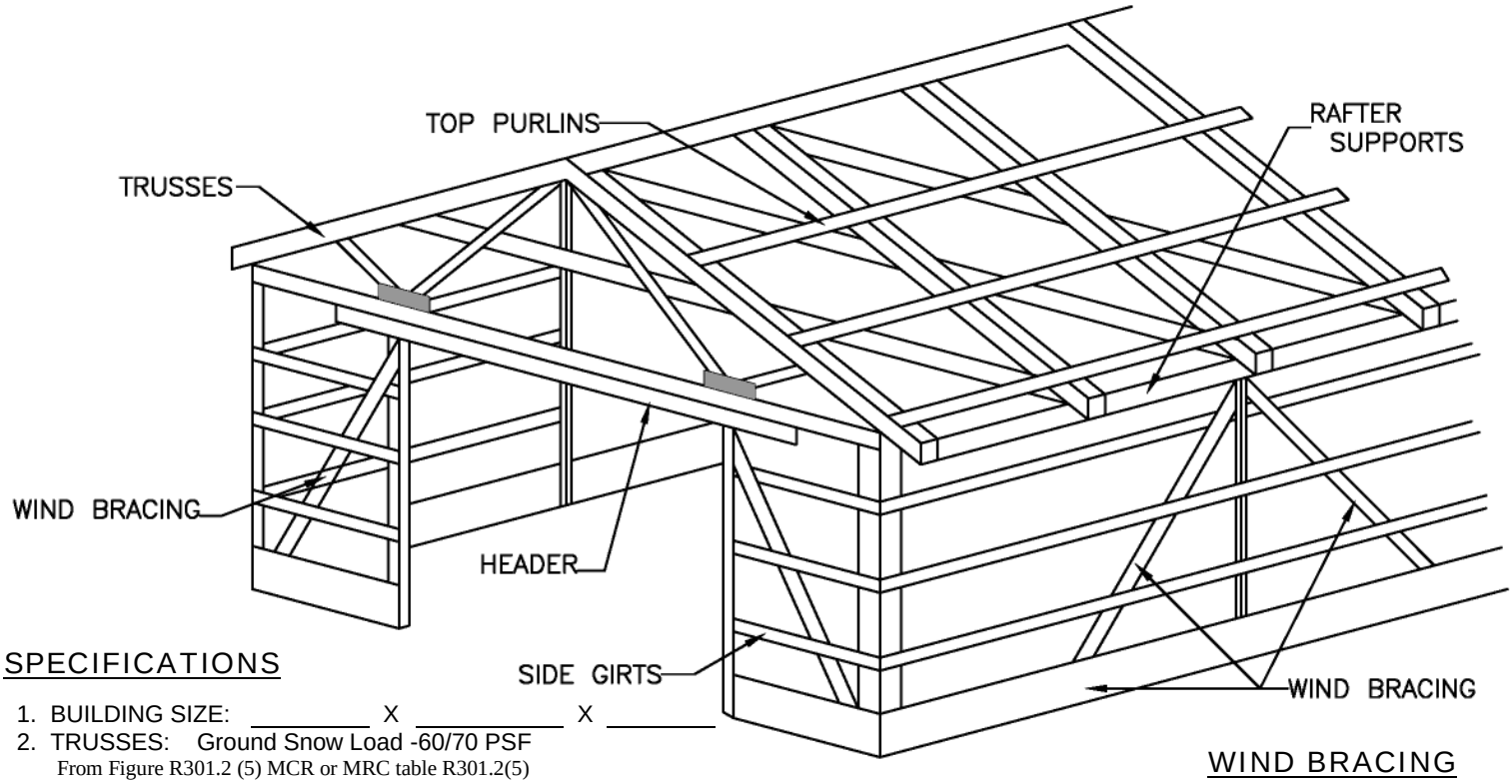
ANTRIM COUNTY BUILDING DEPARTMENT
RESIDENTIAL POLE BUILDING PLAN & SPECIFICATIONS



SPECIFICATIONS

1. BUILDING SIZE: _____ X _____ X _____
2. TRUSSES: Ground Snow Load -60/70 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.

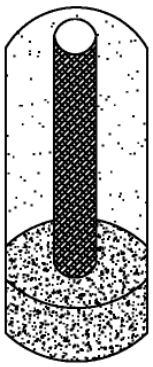
WIND BRACING

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 lease 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

CONCRETE PAD

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



POLE SPACING INFORMATION

POLE SPACE	BLDG WIDTH	PAD DIAMETER
_____	_____	_____

ALL FOOTINGS 48" TO THE BOTTOM OF THE HOLE.

RAFTER SUPPORTS

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

EAVE HEIGHT

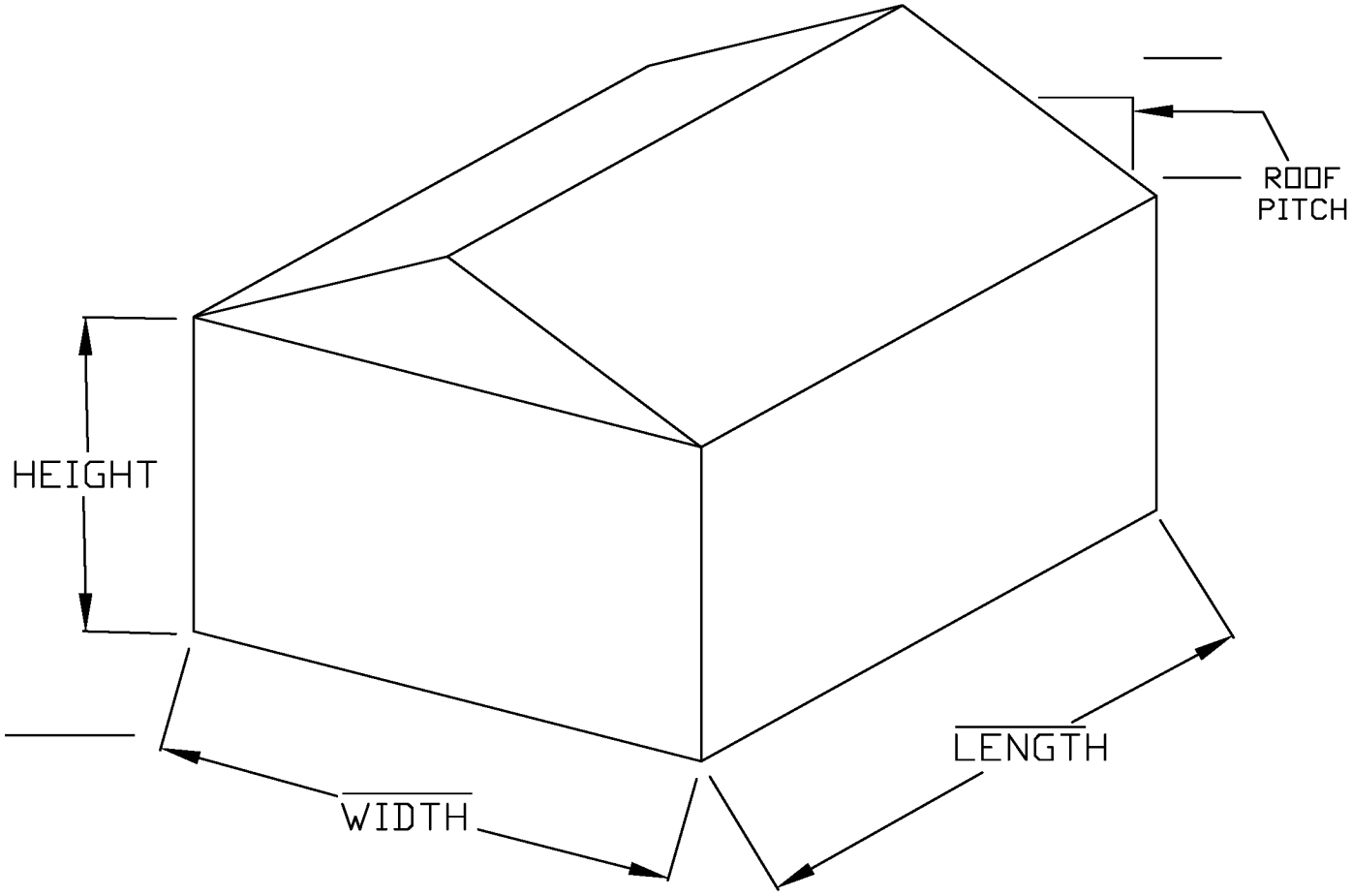
POLE	SPACING
_____	_____

****12' or More Eave Height requires Engineered Drawing*****

ANTRIM COUNTY BUILDING DEPARTMENT

12’ and OVER SIDE WALLS REQUIRE SIGNED & SEALED DRAWINGS.

ADDITIONAL INFORMATION MAYBE REQUIRED



FLOOR PLAN: SHOW DOORS, WINDOWS, ETC.

POLE BUILDING HANDOUT

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

Sand, Silt or Clay Sand Soil Types, **Ground Snow Load = 60/70 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. (8” thick)	**1.75” x 5.5”**	16’ dia. (8” thick)	**1.75” x 5.5”**	18” dia. (8” thick)	**1.75” x 5.5”**	19” dia. (8” thick)
	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. (8” thick)	**1.75” x 9.25”**	22” dia. (8” thick)	**1.75” x 9.25”**	23” dia. (10” thick)
	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. (8” thick)	**1.75” x 9.25”**	23” dia. (10” thick)	**1.75” x 11.25”**	25” dia. (10” thick)	**1.75” x 11.25”**	26” dia. (10” thick)
	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. (10” thick)	**1.75” x 11.875”**	26” dia. (10” thick)	**2 - 1.75” x 9.5”**	28” dia. (10” thick)	**2 - 1.75” x 9.5”**	29” dia. (10” thick)
	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. (10” thick)	**2 - 1.75” x 11.25”**	28” dia. (10” thick)	**2 - 1.75” x 11.25”**	31” dia. (10” thick)	**2 - 1.75” x 11.25”**	32” dia. (10” thick)
	B	**5 - 2” x 12”**		**5 - 2” x 12”**		**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. (10” thick)	**2 - 1.75” x 11.875”**	31” dia. (10” thick)	**3 - 1.75” x 11.25”**	33” dia. (10” thick)	**3 - 1.75” x 11.25”**	34” dia. (10” thick)
	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. (10” thick)	**3 - 1.75” x 11.25”**	33” dia. (10” thick)	**3 - 1.75” x 11.875”**	35” dia. (12” thick)	**4 - 1.75” x 11.25”**	37” dia. (12” thick)
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	**3 - 1.75” x 11.25”**	32” dia. (10” thick)	**4 - 1.75” x 11.25”**	35” dia. (12” thick)	**4 - 1.75” x 11.875”**	37” dia. (12” thick)	**3 - 1.75” x 14”**	39” dia. (12” thick)
	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. (8” thick)	**1.75” x 7.25”**	20” dia. (8” thick)	**1.75” x 7.25”**	21” dia. (8” thick)	**1.75” x 7.25”**	24” dia. (10” thick)
	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. (10” thick)	**1.75” x 9.25”**	25” dia. (10” thick)	**1.75” x 9.25”**	26” dia. (10” thick)	**1.75” x 11.25”**	29” dia. (10” thick)
	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. (10” thick)	**1.75” x 11.875”**	28” dia. (10” thick)	**2 - 1.75” x 9.25”**	30” dia. (10” thick)	**2 - 1.75” x 11.25”**	33” dia. (10” thick)
	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. (10” thick)	**2 - 1.75” x 11.25”**	32” dia. (10” thick)	**2 - 1.75” x 11.25”**	33” dia. (10” thick)	**3 - 1.75” x 11.25”**	37” dia. (12” thick)
	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. (10” thick)	**3 - 1.75” x 11.25”**	35” dia. (12” thick)	**3 - 1.75” x 11.25”**	37” dia. (12” thick)	**4 - 1.75” x 11.25”**	41” dia. (12” thick)
	B	No		No		No		No	
	C	**6 - 2” x 12”**		No		No		No	
14 FEET	A	**3 - 1.75” x 11.25”**	35’ dia. (12” thick)	**3 - 1.75” x 11.875”**	37” dia. (12” thick)	**4 - 1.75” x 11.25”**	39” dia. (12” thick)	**3 - 1.75” x 14”**	44” dia. (12” thick)
	B	No		No		No		No	
	C	No		No		No		No	
16 FEET	A	**4 - 1.75” x 11.25”**	38” dia. (12” thick)	**4 - 1.75” x 11.875”**	40” dia. (12” thick)	**4 - 1.75” x 14”**	42” dia. (12” thick)	**4 - 1.75” x 14”**	47” dia. (12” thick)
	B	No		No		No		No	
	C	No		No		No		No	
18 FEET	A	**4 - 1.75” x 14”**	40” dia. (12” thick)	**4 - 1.75” x 14”**	42” dia. (12” thick)	**4 - 1.75” x 14”**	45” dia. (12” thick)	**4 - 1.75” x 16”**	50” dia. (12” thick)
	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

PITCHED TRUSS

IMPORTANT NOTICE

Temporary bracing shown in this diagram is adequate for the installation of trusses with a similar configuration as shown on this diagram. Consult a registered professional engineer if a different bracing arrangement is desired. The engineer may design bracing in accordance with DSB-89, and in some cases determine that a wider spacing is possible.

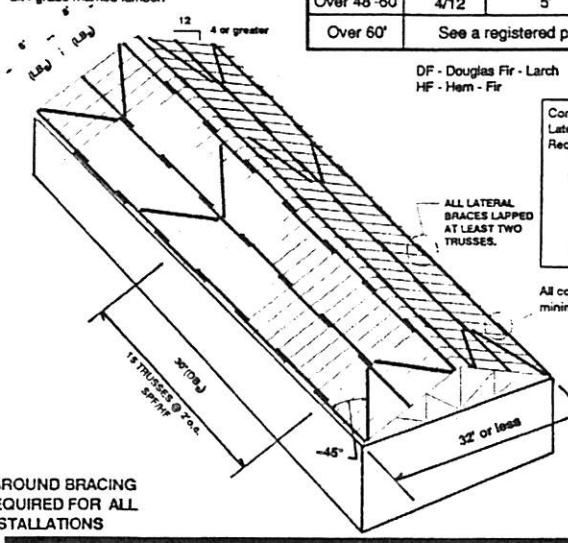
All trusses assumed 2' on-center or less.

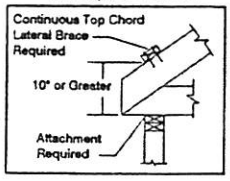
All temporary bracing should be no less than 2x4 grade marked lumber.

TOP CHORD TEMPORARY BRACING PATTERN

SPAN	MINIMUM PITCH	TOP CHORD LATERAL BRACE SPACING (LB_S)	TOP CHORD DIAGONAL BRACE SPACING (DB_S) (# trusses)	
			SP/DF	SPF/HF
Up to 32'	4/12	8'	20	15
Over 32'-48'	4/12	6'	10	7
Over 48'-60'	4/12	5'	6	4
Over 60'	See a registered professional engineer			

DF - Douglas Fir - Larch SP - Southern Pine
HF - Hem - Fir SPF - Spruce - Pine - Fir





All connections should be made with a minimum of 2-16d nails.

*GROUND BRACING REQUIRED FOR ALL INSTALLATIONS

Top chords that are laterally braced can buckle together and cause collapse if there is no diagonal bracing. Diagonal bracing should be nailed to the underside of the top chord when purlins are attached to the topside of the top chord.

SCISSORS TRUSS

TOP CHORD TEMPORARY BRACING PATTERN

SPAN	MINIMUM PITCH	TOP CHORD LATERAL BRACE SPACING (LB_S)	TOP CHORD DIAGONAL BRACE SPACING (DB_S) (# trusses)	
			SP/DF	SPF/HF
Up to 28'	2.5	7'	17	12
Over 28'-42'	3	6'	9	6
Over 42'-60'	3	5'	5	3
Over 60'	See a registered professional engineer			

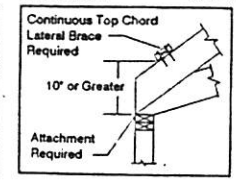
DF - Douglas Fir - Larch SP - Southern Pine
HF - Hem - Fir SPF - Spruce - Pine - Fir

IMPORTANT NOTICE

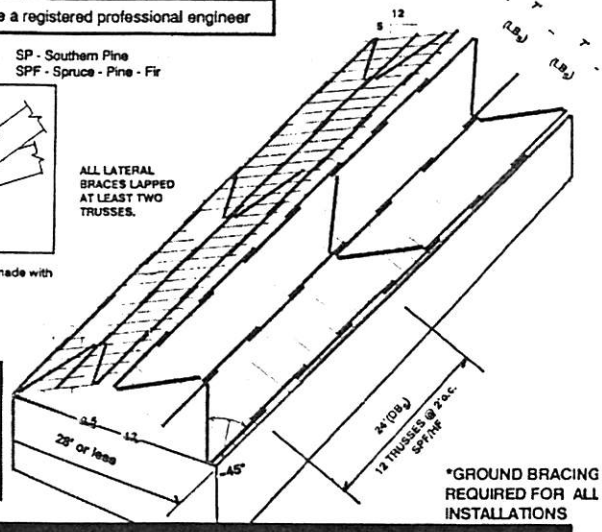
Temporary bracing shown in this diagram is adequate for the installation of trusses with a similar configuration as shown on this diagram. Consult a registered professional engineer if a different bracing arrangement is desired. The engineer may design bracing in accordance with DSB-89, and in some cases determine that a wider spacing is possible.

All trusses assumed 2' on-center or less.

All temporary bracing should be no less than 2x4 grade marked lumber.



All connections should be made with a minimum of 2-16d nails



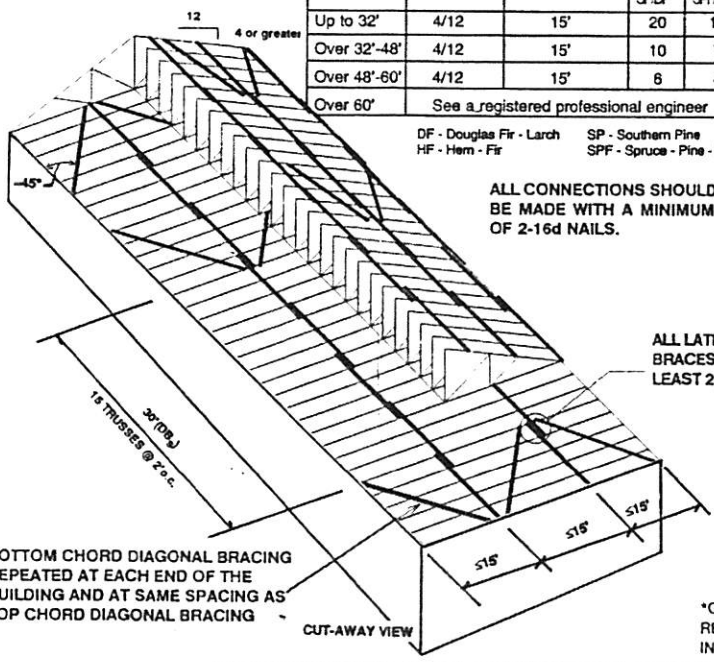
*GROUND BRACING REQUIRED FOR ALL INSTALLATIONS

BOTTOM CHORD PLANE

SPAN	MINIMUM PITCH	BOTTOM CHORD LATERAL BRACE SPACING (LB_S BOTTOM	CHORD DIAGONAL BRACE SPACING (DB_S) (# trusses)	
			SP/DF	SPF/HF
Up to 32'	4/12	15'	20	15
Over 32'-48'	4/12	15'	10	7
Over 48'-60'	4/12	15'	6	4
Over 60'	See a registered professional engineer			

DF - Douglas Fir - Larch SP - Southern Pine
HF - Hem - Fir SPF - Spruce - Pine - Fir

ALL CONNECTIONS SHOULD BE MADE WITH A MINIMUM OF 2-16d NAILS.

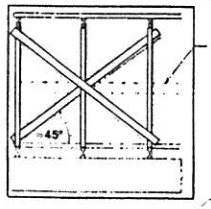


ALL LATERAL BRACES LAPPED AT LEAST 2 TRUSSES.

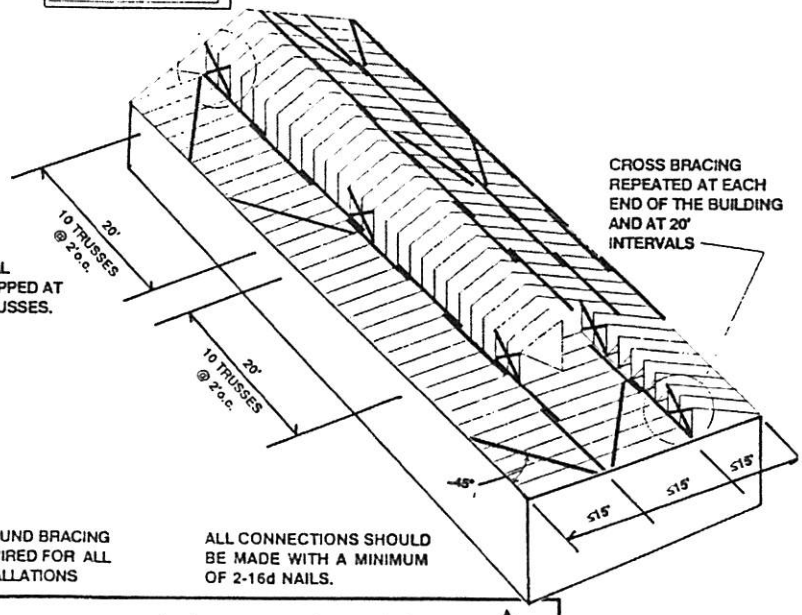
BOTTOM CHORD DIAGONAL BRACING REPEATED AT EACH END OF THE BUILDING AND AT SAME SPACING AS TOP CHORD DIAGONAL BRACING

CUT-AWAY VIEW

WEB MEMBER PLANE



PERMANENT CONTINUOUS LATERAL BRACING AS SPECIFIED BY THE TRUSS ENGINEERING



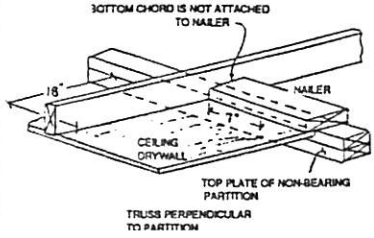
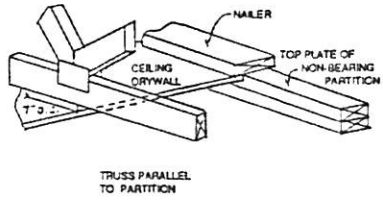
CROSS BRACING REPEATED AT EACH END OF THE BUILDING AND AT 20' INTERVALS

*GROUND BRACING REQUIRED FOR ALL INSTALLATIONS

ALL CONNECTIONS SHOULD BE MADE WITH A MINIMUM OF 2-16d NAILS.

WARNING: Failure to follow these recommendations could result in severe personal injury or damage to trusses or buildings.

IMPORTANT

Truss Technologies assumes no responsibility for repair costs incurred without prior approval and reserves the right to decide whether a truss should be repaired or replaced. Notify us immediately of a problem with your trusses.

Ceiling-partition separation can occur causing drywall joints to crack if attic space is inadequately ventilated or if drywall clips or nailers are not installed on top of interior walls. The cost of repairs due to this cracking is not the responsibility of Truss Technologies Inc.