

Job	Truss	Truss Type	Qty	Ply	
B0903115	AT18	ATTIC	10	1	

APM Building Materials, Arendtsville, PA, Kurt Vines

Job Reference (optional)
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0-10-8	2-2-7	3-10-4	7-5-11	9-0-0	10-6-5	14-1-12	15-9-9	18-0-0	18-10-8
0-10-8	2-2-7	1-7-13	3-7-7	1-6-5	1-6-5	3-7-7	1-7-13	2-2-7	0-10-8

Scale: 3/8"=1'

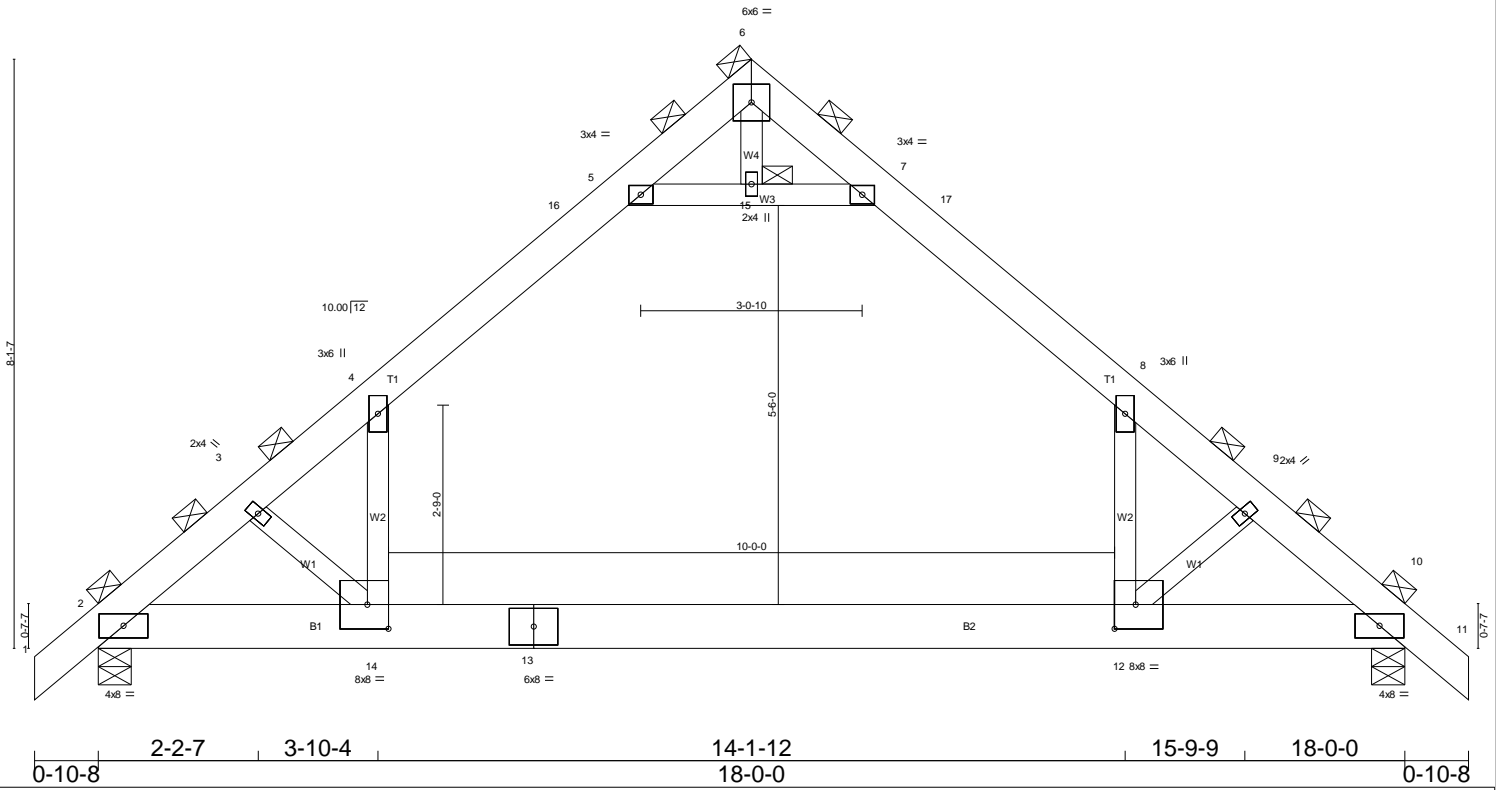


Plate Offsets (X,Y): [12:0-3-8,0-4-0], [14:0-3-8,0-4-0]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	197/144
TCDL 7.0	Plates Increase 1.15	BC 0.64	Vert(LL) -0.29 12-14 >716 240		
BCLL 0.0	Lumber Increase 1.15	WB 0.27	Vert(TL) -0.42 12-14 >498 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.02 10 n/a n/a		
	Code IBC2006/TPI2002		Attic room -0.17 12-14 745 360		Weight: 133 lb

LUMBER	BRACING
TOP CHORD 2 X 6 SYP 2400F 1.8E	TOP CHORD 2-0-0 oc purlins (5-10-12 max.), except sheathed or 6-0-0 oc purlins: 4-5, 7-8.
BOT CHORD 2 X 8 SYP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SPF No.2	JOINTS 1 Brace at Jt(s): 6, 15

REACTIONS
(lb/size) 2=1158/0-1-10 (input: 0-5-8), 10=1158/0-1-10 (input: 0-5-8)
Max Horz 2=-128(LC 8)
Max Uplift 2=-21(LC 10), 10=-21(LC 10)
Max Grav 2=1369(LC 2), 10=1369(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1964/0, 3-4=-1812/0, 4-16=-1079/44, 5-16=-919/57, 5-6=0/468, 6-7=0/468, 7-17=-919/57, 8-17=-1079/44, 8-9=-1812/0, 9-10=-1964/0
BOT CHORD 2-14=0/1402, 13-14=0/1045, 12-13=0/1045, 10-12=0/1402
WEBS 5-15=-1663/68, 7-15=-1663/68, 4-14=0/1042, 8-12=0/1042, 3-14=-512/39, 9-12=-512/39

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 90mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-05; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps=19.3 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.1
 - Roof design snow load has been reduced to account for slope.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2 and 21 lb uplift at joint 10.
 - This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard