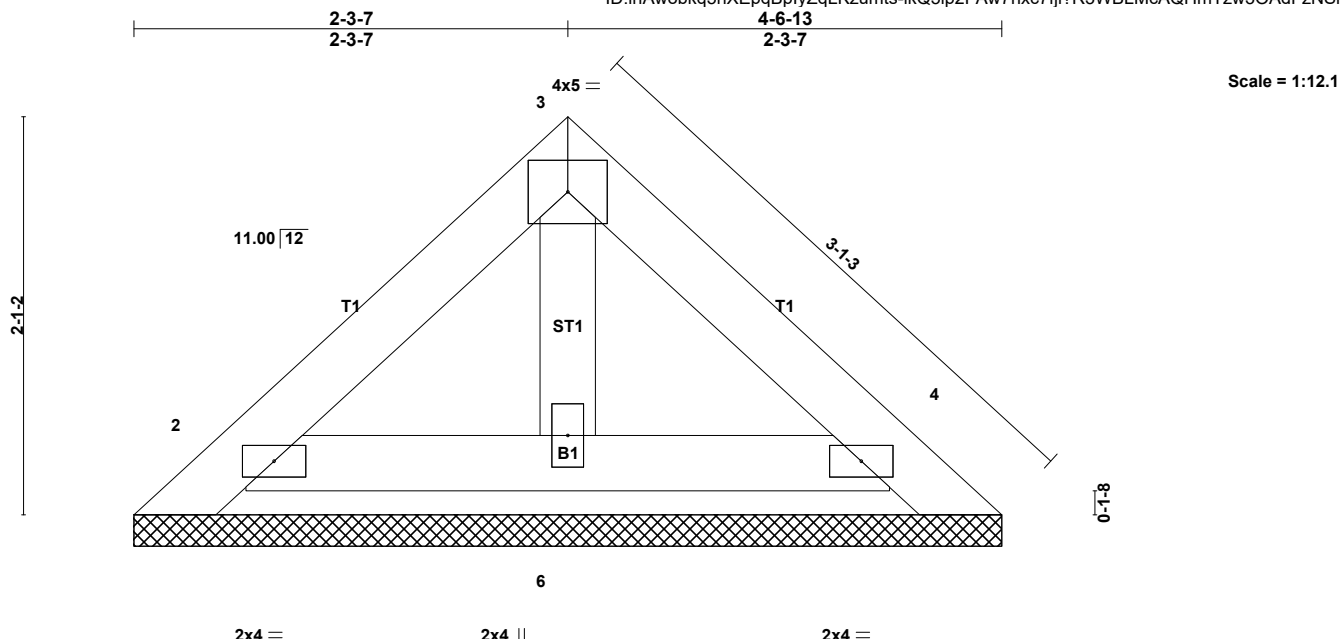


Job B2004297	Truss C1	Truss Type GABLE	Qty 1	Ply 1	28' Frame truss
Job Reference (optional)					

Superior Trusses, Ephrata, PA 17522, Nelson Martin

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Fri Apr 24 16:55:29 2020 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0 (Roof Snow=30.0)	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	169/123
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Horz(CT) 0.00 5 n/a n/a		
				Weight: 11 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF-S No.2
BOT CHORD 2x4 SPF-S No.2
OTHERS 2x4 SPF-S No.2

BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-6-13 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

All bearings 4-6-13.
(lb) - Max Horz 1=-32(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=5ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

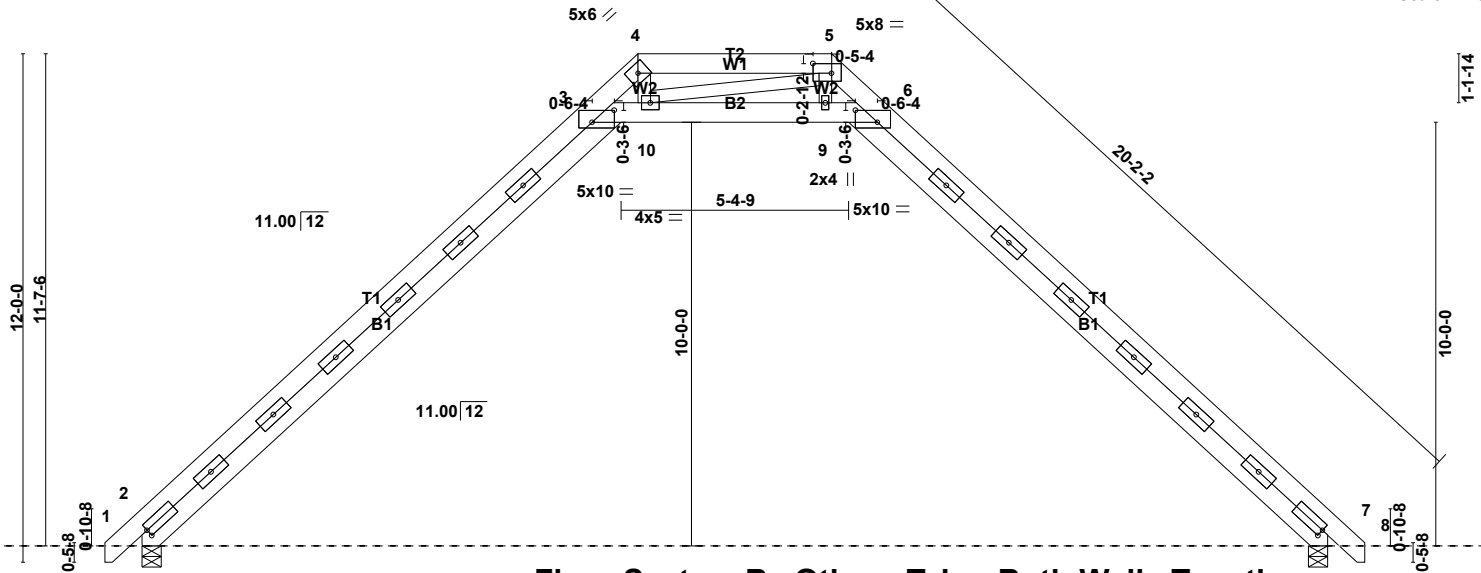
Job B2004297	Truss T1	Truss Type MOD. QUEEN	Qty 1	Ply 1	28' Frame truss
Job Reference (optional)					

Superior Trusses, Ephrata, PA 17522, Nelson Martin

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Fri Apr 24 16:55:30 2020 Page 1
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0-10-8 11-8-9 14-0-0 16-3-7 28-0-0 28-10-8
0-10-8 11-8-9 2-3-7 4-6-13 2-3-7 11-8-9 0-10-8

Scale = 1:54.4



Floor System By Others Tying Both Walls Together

Plate Offsets (X,Y)-- [2:0-0-0,0-2-0], [3:0-6-4,0-3-6], [5:0-5-4,0-2-12], [6:0-6-4,0-3-6], [7:0-0-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.92	Vert(LL)	-0.18	3	>999	MT20	169/123
(Roof Snow=30.0)	Plate Grip DOL 1.15	BC 0.59	Vert(CT)	-0.19	3	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Wind(LL)	-0.09	3	>999	Weight: 184 lb	FT = 10%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SPF-S No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 4-6-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1546/0-5-8 (min. 0-3-15), 7=1546/0-5-8 (min. 0-3-15)
Max Horz 2=1708(LC 31), 7=1708(LC 31)
Max Uplift 2=142(LC 14), 7=142(LC 14)
Max Grav 2=2514(LC 31), 7=2514(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-2761/177, 11-12=-2318/189, 12-13=-2074/209, 13-14=-1927/220, 3-14=-1636/252, 3-4=-194/1262, 5-6=-249/1143, 6-15=-1636/252, 15-16=-2074/209, 16-17=-2318/189, 7-17=-2761/177, 4-18=-216/1431, 18-19=-215/1432, 5-19=-215/1432
BOT CHORD 3-10=-3077/510, 9-10=-3023/505, 6-9=-2967/490
WEBS 4-10=-485/118, 5-10=-618/494, 5-9=-448/112

- NOTES-**
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-9-7 to 2-8-9, Interior(1) 2-8-9 to 11-8-9, Exterior(2) 11-8-9 to 15-2-9, Interior(1) 15-2-9 to 16-3-7, Exterior(2) 16-3-7 to 19-9-7, Interior(1) 19-9-7 to 28-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pf=30.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x10 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 7=142.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard