

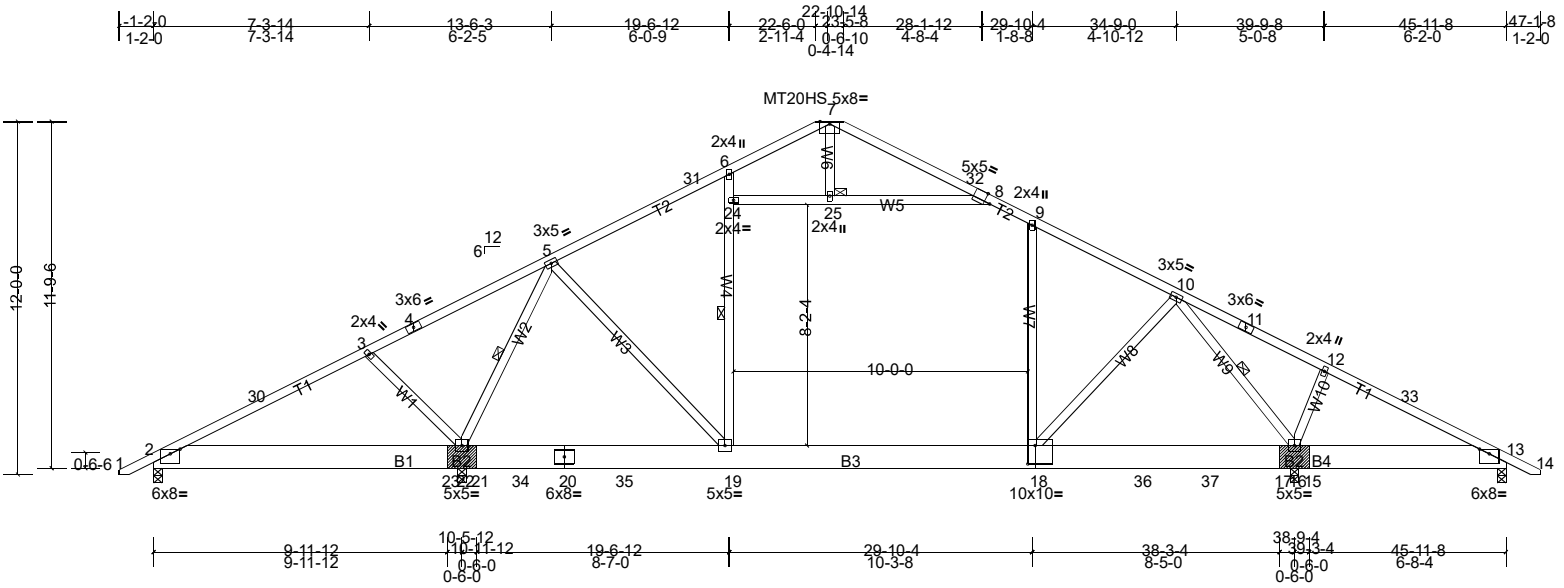
Job	Truss	Truss Type	Qty	Ply	HB 2008 V3-Roof
Q-2002149-1	T1	Attic	3	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Thu Aug 27 15:17:03

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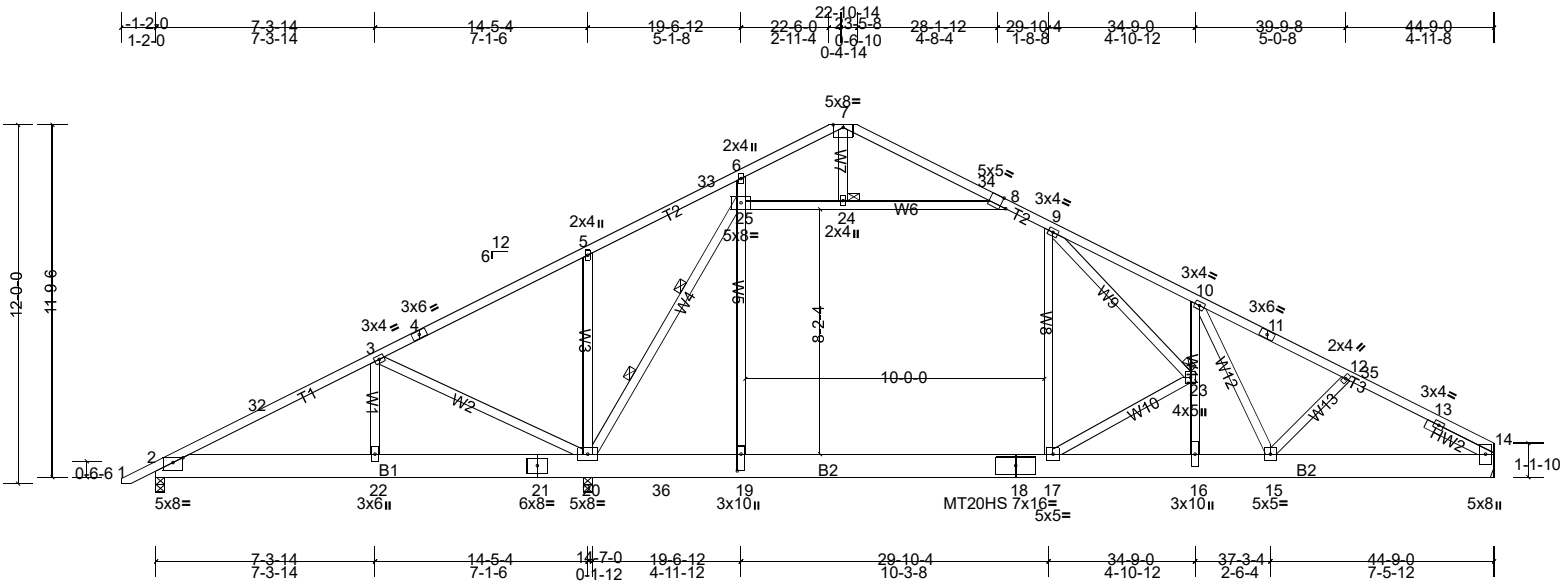
Job Q-2002149-1	Truss T1A	Truss Type Attic	Qty 2	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:77.1

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [8:0-2-7,Edge], [14:0-4-8,0-0-15], [19:0-6-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.34	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.61	16-17	>597	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.02	14	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.17	17-19	>707	360		Weight: 378 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.1 \*Except\* B1:2x10 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W5:2x4 SP No.2  
 SLIDER Right 2x4 SP No.3 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 2 Rows at 1/3 pts 20-25  
 JOINTS 1 Brace at Jt(s): 23, 24

**REACTIONS** (lb/size) 2=870/0-3-8, (min. 0-1-8), 14=1357/ Mechanical, (min. 0-1-8),  
 20=1517/0-3-8, (min. 0-2-15)  
 Max Horiz 2=194 (LC 10)  
 Max Uplift 2=-59 (LC 11), 14=-105 (LC 11), 20=-250 (LC 11)  
 Max Grav 2=870 (LC 1), 14=1491 (LC 18), 20=1891 (LC 17)

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

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-32=-1339/5, 3-32=-1189/26, 3-4=-591/0, 4-5=-508/1, 5-33=-550/61, 6-33=-437/85, 6-7=-396/102, 7-34=-341/85,  
 8-34=-419/61, 8-9=-1486/180, 9-10=-2439/303, 10-11=-2143/194, 11-12=-2235/179, 12-35=-2283/198, 13-35=-2346/196,  
 13-14=-1085/18  
 BOT CHORD 2-22=0/1131, 21-22=0/1131, 20-21=0/1131, 20-36=0/1390, 19-36=0/1390, 18-19=0/1409, 17-18=0/1409, 16-17=-49/2070,  
 15-16=-48/2063, 14-15=-120/2047  
 WEBS 19-25=-77/1644, 9-17=-317/203, 17-23=-772/187, 24-25=-1214/145, 8-24=-1214/145, 3-22=0/293, 3-20=-788/195,  
 5-20=-375/191, 20-25=-2051/192, 16-23=-118/839, 10-23=-253/141, 10-15=-272/27, 9-23=-226/934

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=45ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 3-5-10, Interior (1) 3-5-10 to 22-11-12, Exterior (2) 22-11-12 to 27-5-7, Interior (1) 27-5-7 to 44-9-0 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
- All plates are MT20 plates unless otherwise indicated.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 8-9, 24-25, 8-24
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 17-19
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2, 250 lb uplift at joint 20 and 105 lb uplift at joint 14.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

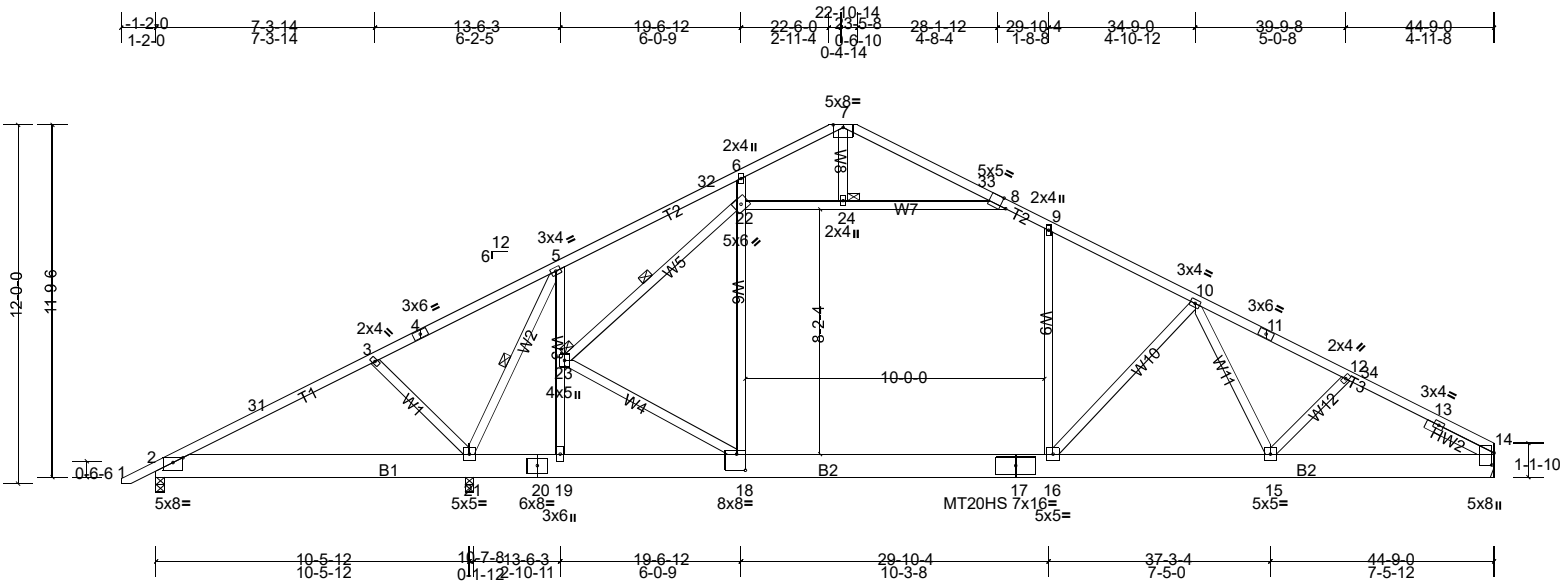
Job Q-2002149-1	Truss T1B	Truss Type Attic	Qty 4	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Thu Aug 27 15:17:04

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Scale = 1:77.1

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [8:0-2-7,Edge], [14:0-4-14,0-0-15], [18:0-3-8,0-6-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.33	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.60	15-16	>689	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.18	16-18	>694	360		Weight: 370 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.1 \*Except\* B1:2x10 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W6:2x4 SP No.2  
 SLIDER Right 2x4 SP No.3 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt 22-23, 5-21  
 JOINTS 1 Brace at Jt(s): 23, 24

**REACTIONS** (lb/size) 2=455/0-3-8, (min. 0-1-8), 14=1405/ Mechanical, (min. 0-1-8),  
 21=1883/0-3-8, (min. 0-3-8)  
 Max Horiz 2=194 (LC 10)  
 Max Uplift 14=-112 (LC 11), 21=-317 (LC 11)  
 Max Grav 2=455 (LC 1), 14=1542 (LC 18), 21=2228 (LC 17)

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

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-31=-378/139, 3-31=-308/142, 3-4=-267/239, 4-5=-235/365, 5-32=-540/57, 6-32=-409/73, 6-7=-382/97, 7-33=-323/77,  
 8-33=-404/54, 8-9=-1608/195, 9-10=-1876/150, 10-11=-2362/224, 11-12=-2454/209, 12-34=-2503/227, 13-34=-2558/225,  
 13-14=-1058/14  
 BOT CHORD 2-21=-85/298, 20-21=0/428, 19-20=0/428, 18-19=0/442, 17-18=0/1547, 16-17=0/1547, 15-16=-37/1991, 14-15=-145/2227  
 WEBS 3-21=-367/179, 22-23=-1576/159, 18-22=0/882, 6-22=-287/124, 9-16=0/454, 10-16=-691/197, 10-15=-66/477,  
 22-24=-1364/171, 8-24=-1364/171, 19-23=-1162/224, 5-23=0/585, 5-21=-1309/183, 18-23=-126/1342

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=45ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 3-5-10, Interior (1) 3-5-10 to 22-11-12, Exterior (2) 22-11-12 to 27-5-7, Interior (1) 27-5-7 to 44-9-0 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (5.0 psf) on member(s). 8-9, 22-24, 8-24
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 21 and 112 lb uplift at joint 14.
- 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard



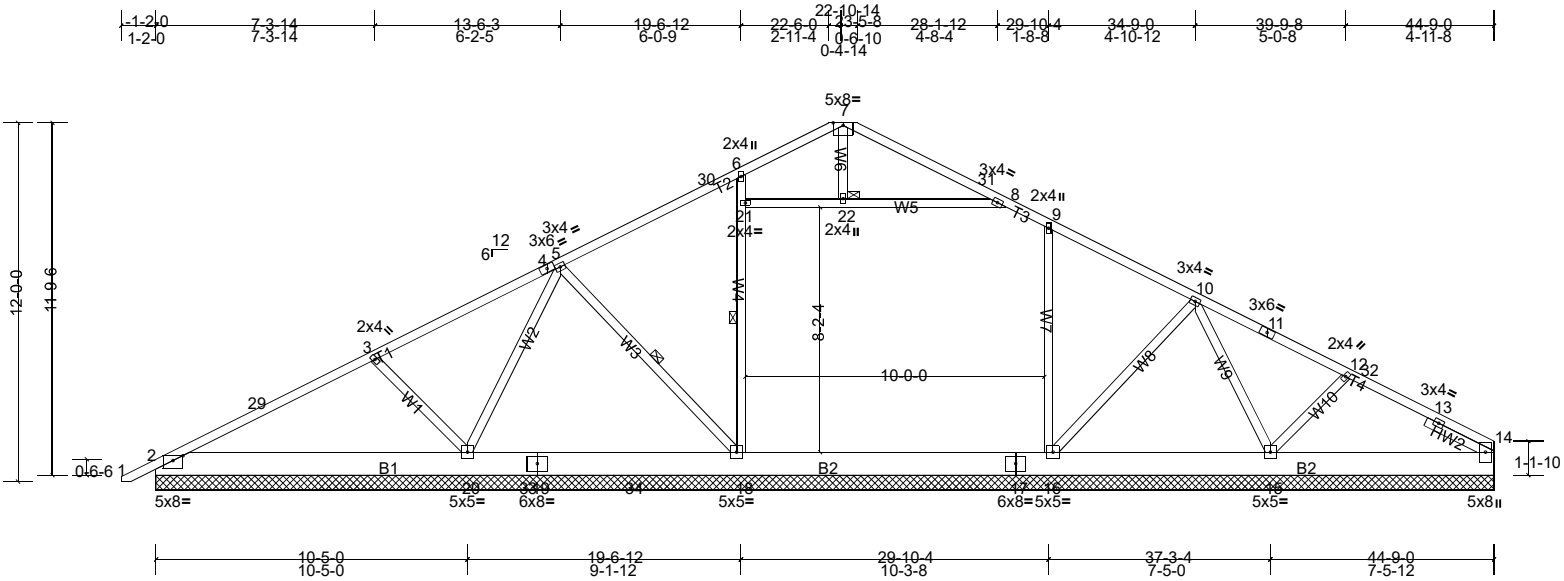
Job Q-2002149-1	Truss T1D	Truss Type Attic	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

Run: 8.31 S Sep 9 2019 Print: 8.310 S Sep 9 2019 MiTek Industries, Inc. Thu Aug 27 15:17:05

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Scale = 1:77.1

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [14:0-4-8,0-0-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 352 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Right 2x4 SP No.3 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-18, 18-21  
 JOINTS 1 Brace at Jt(s): 22

**REACTIONS** All bearings 44-9-0.

(lb) - Max Horiz 2=194 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15, 20 except 16=-151 (LC 11), 18=-101 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) except 2=517 (LC 1), 15=760 (LC 1), 16=760 (LC 18), 18=681 (LC 17), 20=1077 (LC 1)

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

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

TOP CHORD 2-29=-468/14, 3-29=-393/34, 5-30=-509/62, 6-30=-366/77, 6-7=-438/104, 7-31=-390/85, 8-31=-439/62, 8-9=-535/75, 9-10=-480/3, 11-12=-262/3, 12-32=-329/28, 13-32=-341/26  
 BOT CHORD 2-20=-14/390, 20-33=0/373, 19-33=0/373, 19-34=0/373, 18-34=0/373, 17-18=0/382, 16-17=0/382, 15-16=0/354, 14-15=0/348  
 WEBS 3-20=-359/175, 5-20=-588/58, 18-21=-307/114, 6-21=-298/123, 9-16=-416/159, 10-15=-445/0, 12-15=-270/138

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=45ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 3-5-10, Interior (1) 3-5-10 to 22-11-12, Exterior (2) 22-11-12 to 27-5-7, Interior (1) 27-5-7 to 44-9-0 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 8-9, 21-22, 8-22
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 15, 14 except (jt=lb) 18=101, 16=151.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

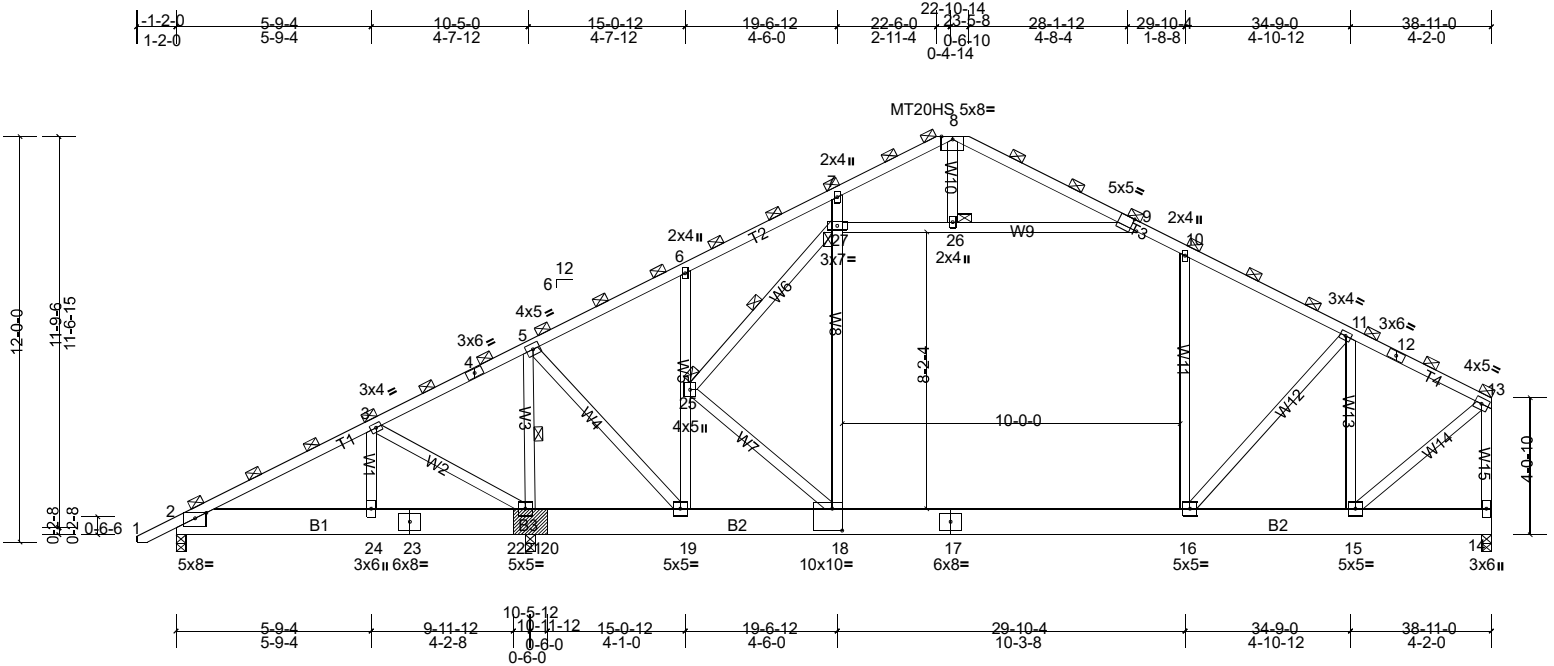
Job Q-2002149-1	Truss T2GRD	Truss Type Attic Girder	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:68.2

Plate Offsets (X, Y): [2:0-4-0,0-1-15], [9:0-2-7,Edge], [18:0-3-8,0-7-12]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.18	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.29	16-18	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.10	16-18	>999	360		Weight: 351 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1 \*Except\* T3:2x4 SP DSS  
 BOT CHORD 2x10 SP No.1 \*Except\* B1:2x10 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W8:2x4 SP No.2

**REACTIONS** (lb/size) 2=595/0-3-8, (min. 0-1-8), 14=1727/0-3-8, (min. 0-3-2),  
 21=2576/(0-3-8 + bearing block), (req. 0-4-14)  
 Max Horiz 2=368 (LC 6)  
 Max Uplift 14=-114 (LC 7), 21=-427 (LC 7)  
 Max Grav 2=595 (LC 1), 14=1994 (LC 14), 21=3117 (LC 13)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-480/342, 3-4=-243/603, 4-5=-187/743, 5-6=-908/25, 6-7=-857/146, 7-8=-666/166, 8-9=-711/146, 9-10=-1721/251,  
 10-11=-1898/166, 11-12=-1444/180, 12-13=-1565/161, 13-14=-1950/168  
 BOT CHORD 2-24=-278/388, 23-24=-275/388, 22-23=-275/388, 21-22=-275/388, 20-21=-622/313, 19-20=-622/313, 18-19=0/702,  
 17-18=0/1603, 16-17=0/1603, 15-16=0/1315  
 WEBS 3-21=-576/131, 5-21=-2190/320, 5-19=-101/1668, 19-25=-2073/387, 6-25=-414/204, 18-25=-114/1206, 18-27=0/923,  
 7-27=-322/130, 10-16=-281/327, 11-16=-13/503, 11-15=-928/0, 26-27=-1140/178, 9-26=-1140/178, 13-15=-62/1730,  
 25-27=-1379/147

**NOTES**

- 2x10 SP No.1 bearing block 12" long at jt. 21 attached to front face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=39ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 9-10, 26-27, 9-26
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 21 and 114 lb uplift at joint 14.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD 2-0-0 oc purlins (4-8-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-0-0).  
 Rigid ceiling directly applied or 6-0-0 oc bracing.  
 BOT CHORD 1 Row at midpt 5-21, 25-27  
 WEBS 1 Brace at Jt(s): 8, 25, 26, 13,  
 27

Job Q-2002149-1	Truss T3	Truss Type Attic	Qty 3	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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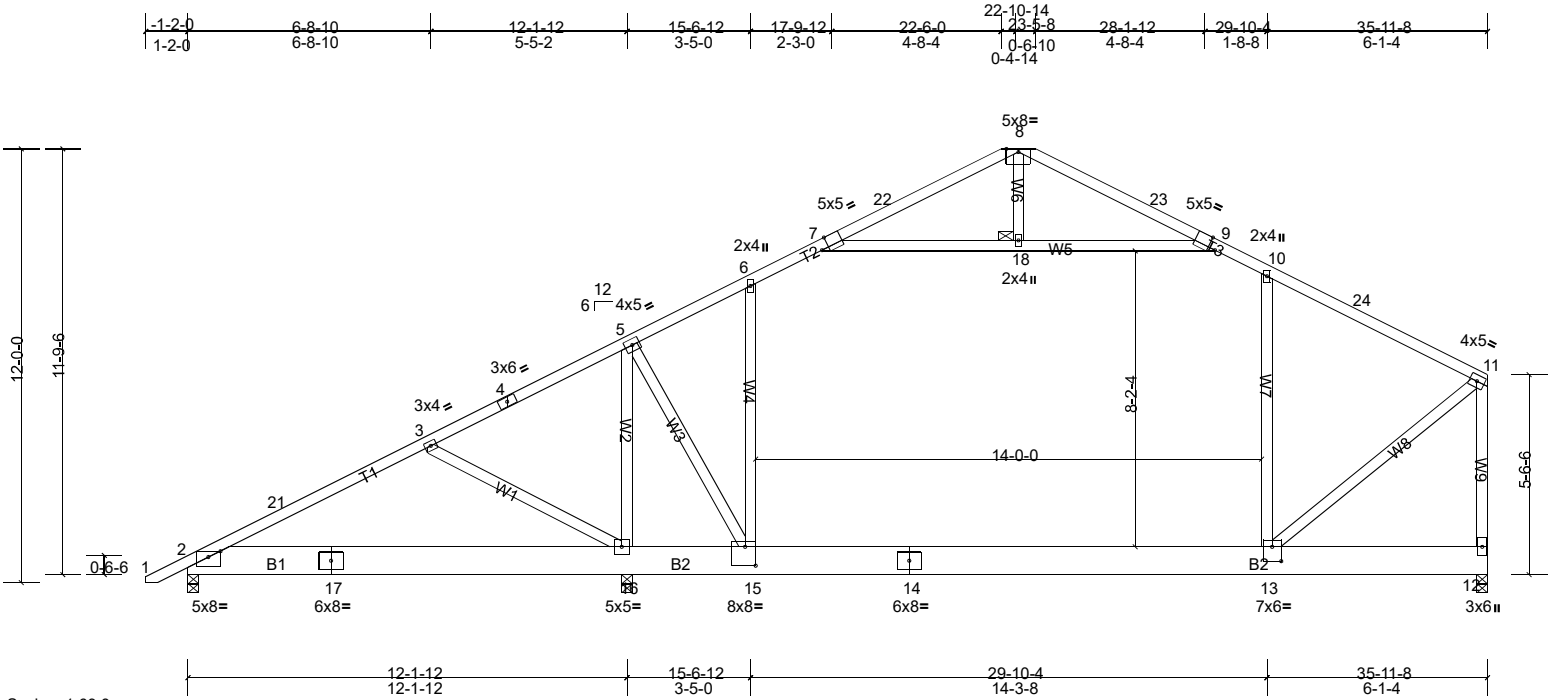


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [7:0-2-7,Edge], [9:0-2-7,Edge], [13:0-3-0,0-4-12], [15:0-3-8,0-6-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.29	13-15	>983	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.35	13-15	>800	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.22	13-15	>771	360		Weight: 290 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W9:2x4 SP DSS

**REACTIONS** (lb/size) 2=746/0-3-8, (min. 0-1-8), 12=1112/0-3-8, (min. 0-2-3),  
 16=1211/0-3-8, (min. 0-2-9)  
 Max Horiz 2=265 (LC 10)  
 Max Uplift 2=-103 (LC 11), 12=-89 (LC 11), 16=-110 (LC 11)  
 Max Grav 2=746 (LC 1), 12=1404 (LC 18), 16=1650 (LC 17)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-21=-974/130, 3-21=-921/156, 3-4=-709/76, 4-5=-597/93, 5-6=-1242/137, 6-7=-1121/194, 7-22=-537/89, 8-22=-489/108,  
 8-23=-489/111, 9-23=-559/93, 9-10=-1087/197, 10-24=-1104/126, 11-24=-1185/109, 11-12=-1459/104  
 BOT CHORD 2-17=-162/812, 16-17=-162/812, 15-16=-54/492, 14-15=-35/997, 13-14=-35/997  
 WEBS 6-15=-370/235, 10-13=-340/180, 7-18=-721/133, 9-18=-721/133, 11-13=0/1255, 3-16=-398/186, 5-16=-1507/81,  
 5-15=0/1119

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 2-7-1, Interior (1) 2-7-1 to 22-11-12, Exterior (2) 22-11-12 to 26-6-14, Interior (1) 26-6-14 to 35-9-12 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-18, 9-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 89 lb uplift at joint 12 and 110 lb uplift at joint 16.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 18

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

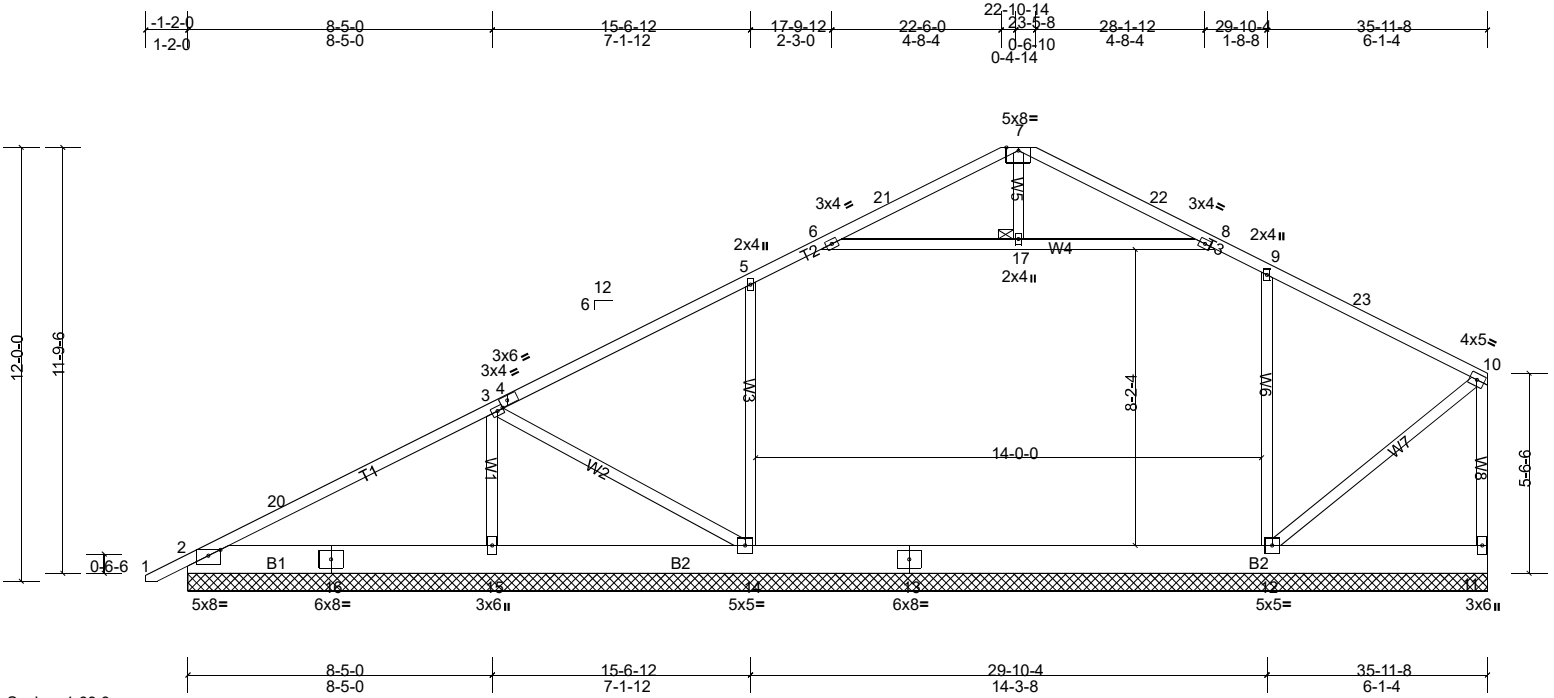
Job Q-2002149-1	Truss T3A	Truss Type Attic	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Job Q-2002149-1	Truss T3B	Truss Type Attic	Qty 2	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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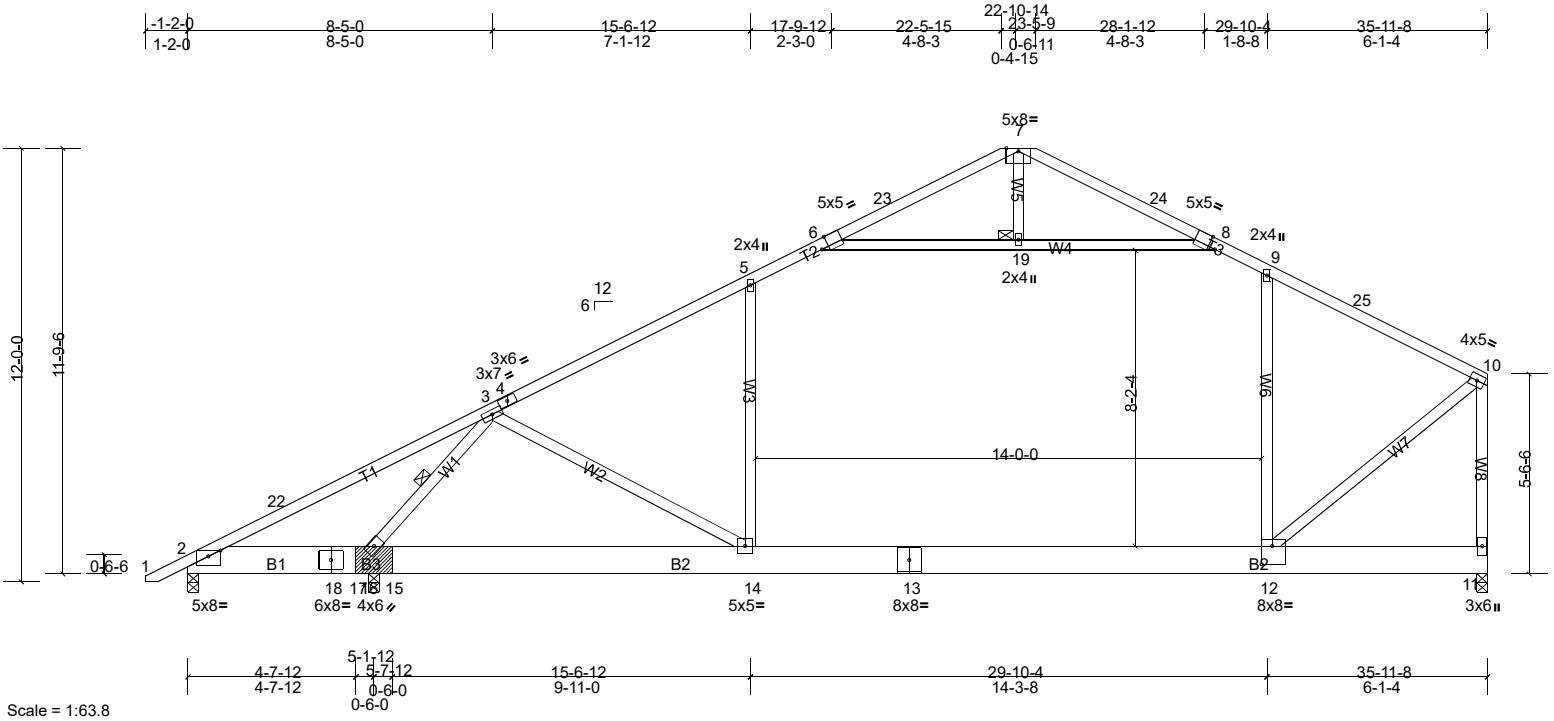


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [6:0-2-7,Edge], [8:0-2-7,Edge], [12:0-3-8,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.36	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.48	12-14	>777	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.24	12-14	>724	360		
											Weight: 286 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.1 \*Except\* B1:2x10 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W8:2x4 SP No.1

**REACTIONS** (lb/size) 2=-478/0-3-8, (min. 0-1-8), 11=1198/0-3-8, (min. 0-2-6),  
 16=2349/(0-3-8 + bearing block), (req. 0-4-12)  
 Max Horiz 2=265 (LC 10)  
 Max Uplift 2=-899 (LC 17), 11=-95 (LC 11), 16=-223 (LC 11)  
 Max Grav 2=16 (LC 11), 11=1517 (LC 18), 16=3041 (LC 17)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-22=-299/2387, 3-22=-140/2332, 3-4=-1470/88, 4-5=-1461/126, 5-6=-1269/204, 6-23=-517/82, 7-23=-446/101,  
 7-24=-446/102, 8-24=-523/83, 8-9=-1232/205, 9-25=-1290/138, 10-25=-1370/120, 10-11=-1706/119  
 BOT CHORD 2-18=-1949/152, 17-18=-1946/149, 16-17=-1946/149, 15-16=-127/333, 14-15=-127/333, 13-14=-39/1186, 12-13=-39/1186  
 WEBS 3-16=-3330/305, 3-14=0/1101, 5-14=-346/252, 9-12=-288/271, 6-19=-935/153, 8-19=-935/153, 10-12=-7/1504

**NOTES**

- 2x10 SP No.1 bearing block 12" long at jt. 16 attached to front face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 2-7-1, Interior (1) 2-7-1 to 22-11-12, Exterior (2) 22-11-12 to 26-6-14, Interior (1) 26-6-14 to 35-9-12 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-19, 8-19
- 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 899 lb uplift at joint 2, 95 lb uplift at joint 11 and 223 lb uplift at joint 16.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-16  
 JOINTS 1 Brace at Jt(s): 19

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

Job Q-2002149-1	Truss T3GRD	Truss Type Attic Girder	Qty 1	Ply 2	HB 2008 V3-Roof Job Reference (optional)
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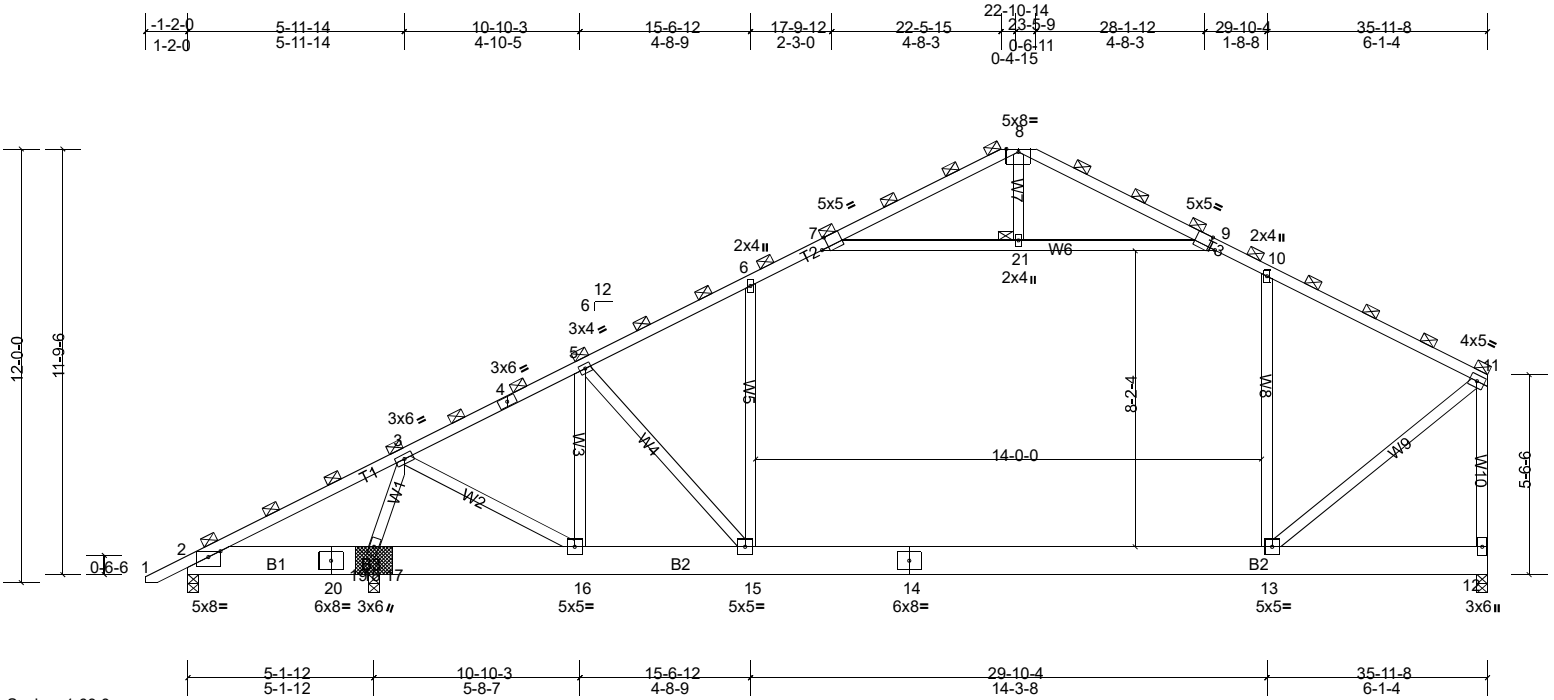


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [7:0-2-7,Edge], [9:0-2-7,Edge]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.26	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.34	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	-0.01	18	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.17	13-15	>986	360		Weight: 599 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 8, 11, 21

**REACTIONS** (lb/size) 2=-775/0-3-8, (min. 0-1-8), 12=1780/0-3-8, (min. 0-1-12), 18=3597/(0-3-8 + bearing block), (req. 0-3-12)  
 Max Horiz 2=398 (LC 6)  
 Max Uplift 2=-1540 (LC 13), 12=-142 (LC 7), 18=-338 (LC 7)  
 Max Grav 2=26 (LC 7), 12=2240 (LC 14), 18=4793 (LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-356/3847, 3-4=-1174/127, 4-5=-1028/162, 5-6=-2120/207, 6-7=-1864/304, 7-8=-793/157, 8-9=-807/162, 9-10=-1815/309, 10-11=-2006/205, 11-12=-2490/176  
 BOT CHORD 2-20=-3241/195, 19-20=-3239/193, 18-19=-3239/193, 17-18=-1986/67, 16-17=-1986/67, 15-16=-15/867, 14-15=0/1731, 13-14=0/1731  
 WEBS 3-18=-4265/404, 3-16=-97/3135, 5-16=-1937/83, 5-15=0/1407, 6-15=-458/437, 10-13=-444/370, 11-13=-11/2198, 7-21=-1333/219, 9-21=-1333/219

**NOTES**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 2x10 SP No.2 bearing block 12" long at jt. 18 attached to each face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. Total fasteners per block. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-21, 9-21
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1540 lb uplift at joint 2, 338 lb uplift at joint 18 and 142 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Attic room checked for L/360 deflection.

Job Q-2002149-1	Truss T3GRD	Truss Type Attic Girder	Qty 1	Ply 2	HB 2008 V3-Roof Job Reference (optional)
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**LOAD CASE(S)** Standard

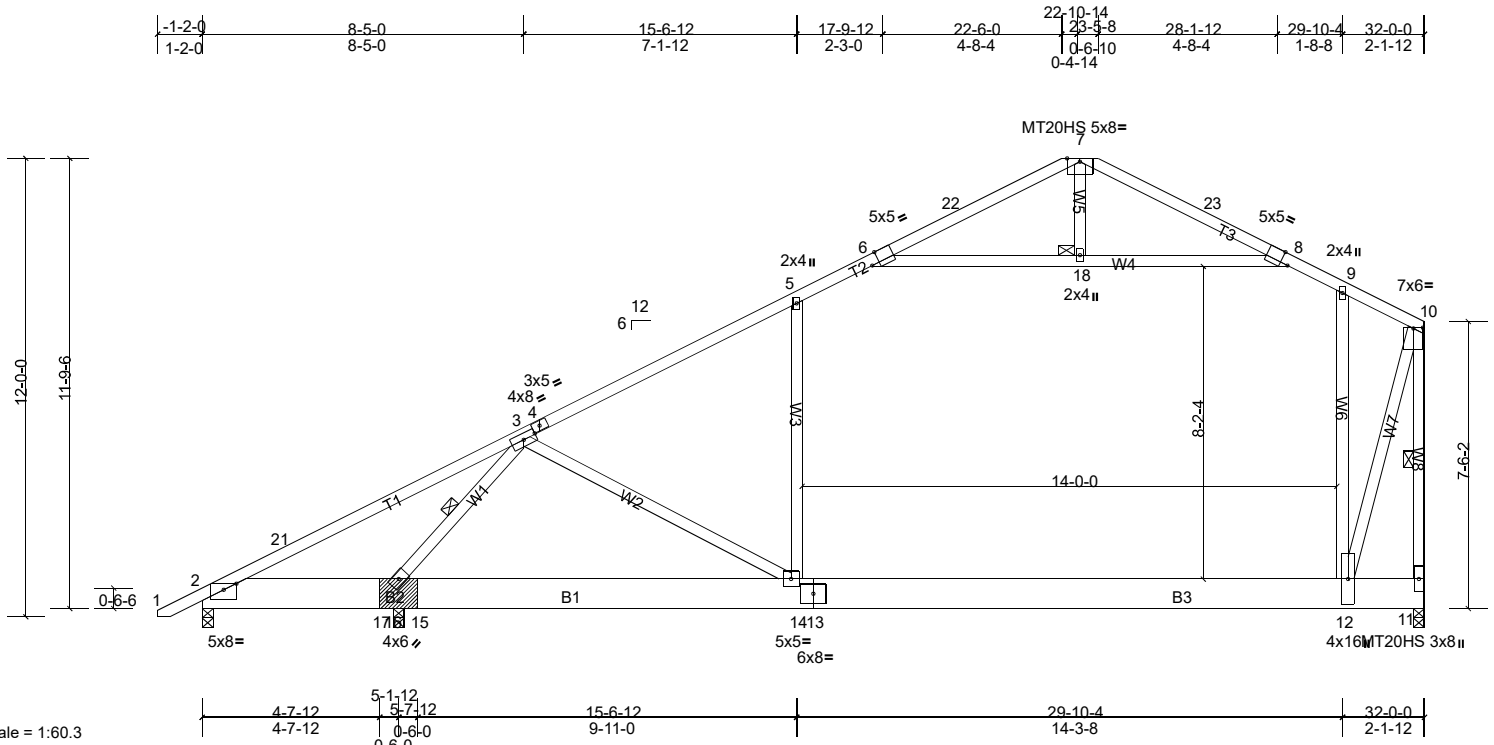
Job Q-2002149-1	Truss T4	Truss Type Attic	Qty 3	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Plate Offsets (X, Y): [2:0-4-0,0-1-15], [4:0-0-1,Edge], [6:0-2-7,Edge], [8:0-2-7,Edge], [10:0-3-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.32	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	12-14	>700	180	MT20HHS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	-0.01	16	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.22	12-14	>790	360		Weight: 266 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x4 SP No.3

**REACTIONS** (lb/size) 2=-890/0-3-8, (min. 0-1-8), 11=958/0-3-8, (min. 0-2-2),  
 16=2683/(0-3-8 + bearing block), (req. 0-5-5)  
 Max Horiz 2=293 (LC 10)  
 Max Uplift 2=-1370 (LC 17), 11=-65 (LC 11), 16=-262 (LC 11)  
 Max Grav 2=64 (LC 11), 11=1340 (LC 19), 16=3395 (LC 17)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-21=-394/3309, 3-21=-248/3237, 3-4=-898/42, 4-5=-888/80, 5-6=-820/162, 6-22=-570/98, 7-22=-524/114,  
 7-23=-532/115, 8-23=-597/98, 8-9=-794/163, 9-10=-738/109, 10-11=-2574/100  
 BOT CHORD 2-17=-2732/208, 16-17=-2729/206, 15-16=-471/0, 14-15=-471/0, 13-14=-72/684, 12-13=-72/684  
 WEBS 3-16=-3594/336, 3-14=0/1281, 5-14=-500/167, 9-12=-512/181, 6-18=-420/92, 8-18=-420/92, 10-12=-73/2381

**NOTES**

- 2x10 SP No.1 bearing block 12" long at jt. 16 attached to front face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-1 to 2-2-5, Interior (1) 2-2-5 to 22-11-12, Exterior (2) 22-11-12 to 26-2-2, Interior (1) 26-2-2 to 31-10-4 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
- All plates are MT20 plates unless otherwise indicated.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-18, 8-18
- 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 1370 lb uplift at joint 2, 65 lb uplift at joint 11 and 262 lb uplift at joint 16.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
 WEBS 1 Row at midpt 3-16, 10-11  
 JOINTS 1 Brace at Jt(s): 18

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

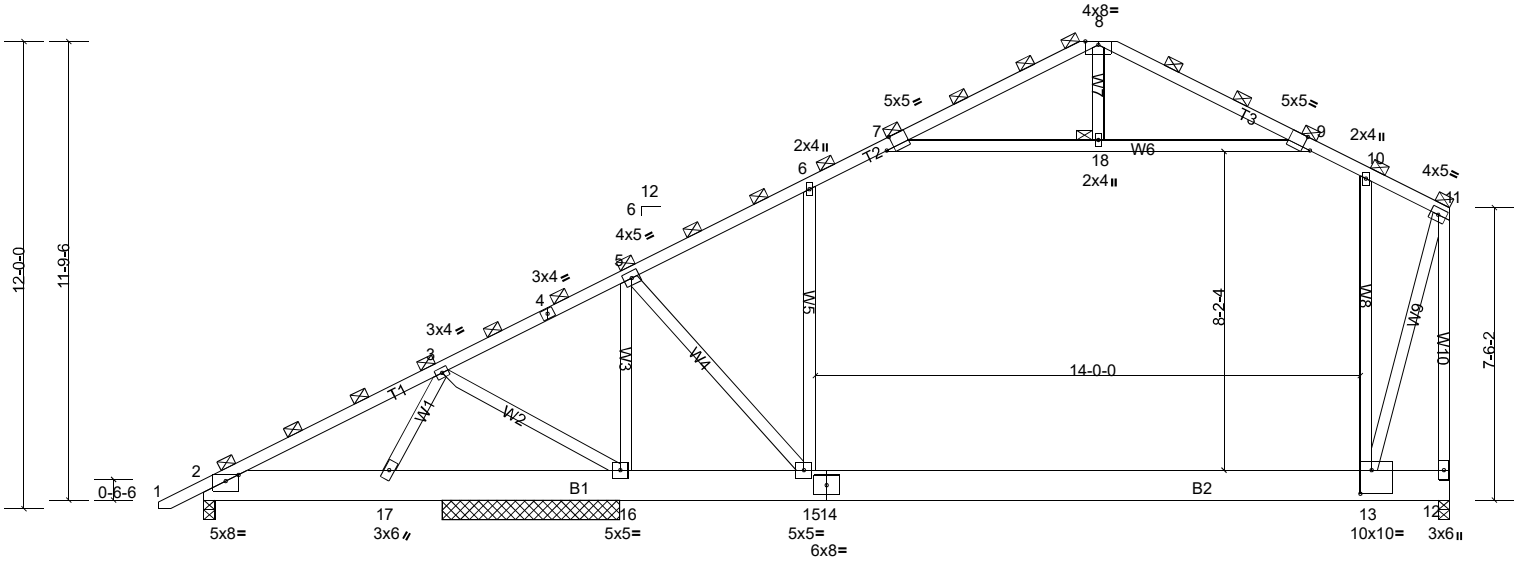
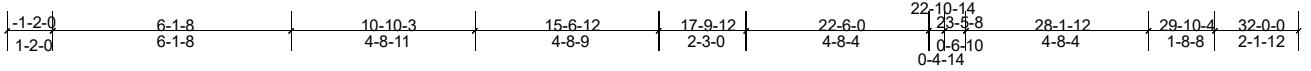
Job Q-2002149-1	Truss T4AGRD	Truss Type Attic Girder	Qty 1	Ply 2	HB 2008 V3-Roof Job Reference (optional)
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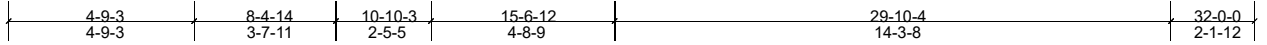


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [7:0-2-7,Edge], [9:0-2-7,Edge], [13:0-3-8,0-7-4]

Loading	(psf)	Spacing	3-0-0	CSI	0.65	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.18 13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.22 13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.00 12	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.15 13-15	>999	360	Weight: 544 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.2  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 8, 18, 11

**REACTIONS** (lb/size) 2=515/0-3-8, (min. 0-1-8), 12=1262/0-3-8, (min. 0-1-8), 16=2350/4-6-13, (min. 0-2-7)  
 Max Horiz 2=440 (LC 6)  
 Max Uplift 2=-84 (LC 7), 12=-79 (LC 7), 16=-232 (LC 7)  
 Max Grav 2=515 (LC 1), 12=1770 (LC 14), 16=3074 (LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-457/381, 3-4=-141/893, 4-5=-115/1039, 5-6=-1015/104, 6-7=-1024/225, 7-8=-895/180, 8-9=-913/183, 9-10=-983/228, 10-11=-838/139, 11-12=-2753/67  
 BOT CHORD 2-17=-312/260, 16-17=-420/177, 15-16=-783/83, 14-15=-19/765, 13-14=-19/765  
 WEBS 3-17=0/259, 3-16=-658/181, 5-16=-2735/151, 5-15=0/2229, 6-15=-835/224, 10-13=-882/166, 7-18=-367/293, 9-18=-367/293, 11-13=-1/2619

**NOTES**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-18, 9-18
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 2, 232 lb uplift at joint 16 and 79 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

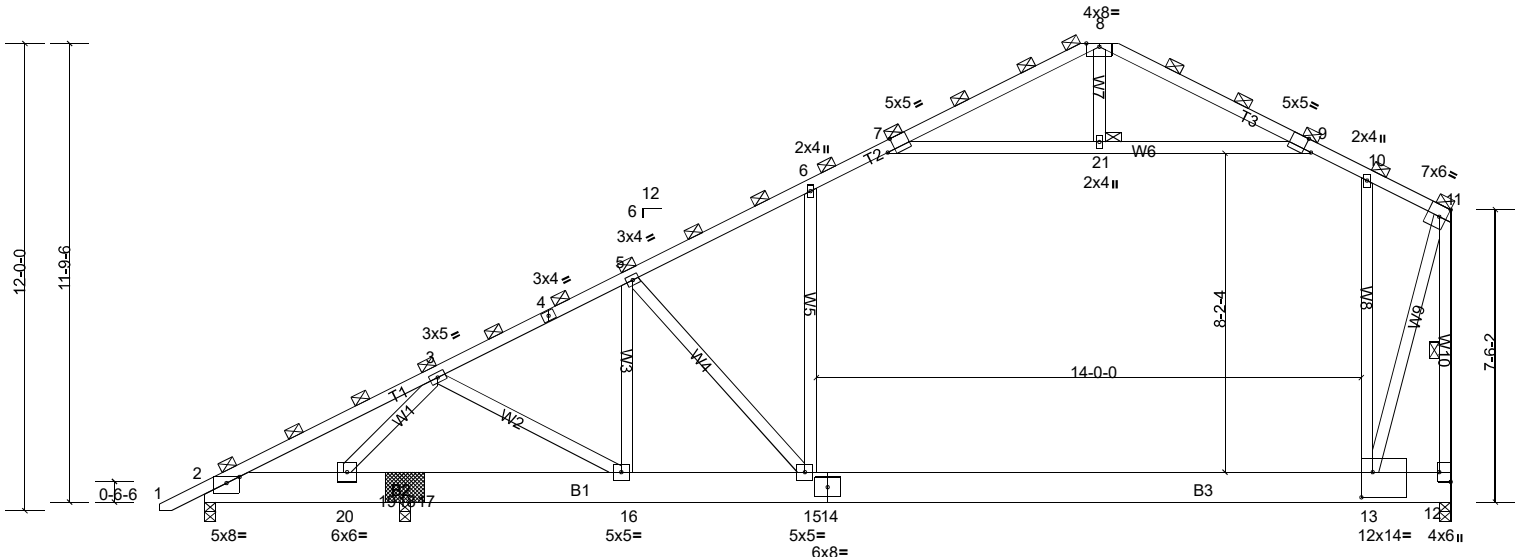
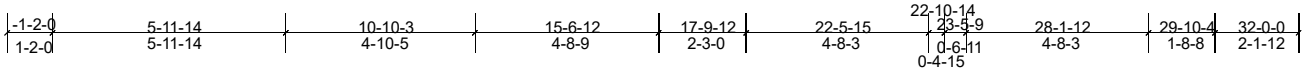
Job Q-2002149-1	Truss T4GRD	Truss Type Attic Girder	Qty 1	Ply 2	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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ID:qNvNu8ZfveUmu26qB3?5eqyqwZg-K2hA7nSOoB9UJNm2IU2Kn\_RNdBRS9fhiHx\_05yjdF8



Scale = 1:59.2

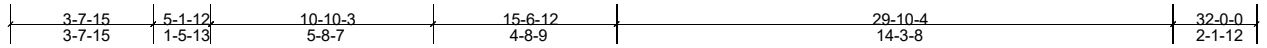


Plate Offsets (X, Y): [2:0-4-0,0-1-15], [7:0-2-7,Edge], [9:0-2-7,Edge], [11:0-2-3,Edge], [12:Edge,0-3-8], [13:0-3-8,0-7-12]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.25	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.40	13-15	>804	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.15	13-15	>999	360		Weight: 562 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 11-12  
 JOINTS 1 Brace at Jt(s): 8, 21, 11

**REACTIONS** (lb/size) 2=-887/0-3-8, (min. 0-1-8), 12=1494/0-3-8, (min. 0-1-10), 18=3520/(0-3-8 + bearing block), (req. 0-3-9)  
 Max Horiz 2=440 (LC 6)  
 Max Uplift 2=-1582 (LC 13), 12=-106 (LC 7), 18=-326 (LC 7)  
 Max Grav 2=37 (LC 7), 12=2059 (LC 15), 18=4567 (LC 13)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-492/5165, 3-4=-447/60, 4-5=-350/95, 5-6=-1361/140, 6-7=-1268/251, 7-8=-852/175, 8-9=-897/178, 9-10=-1243/255, 10-11=-1165/173, 11-12=-4121/187  
 BOT CHORD 2-20=-4388/277, 19-20=-1408/0, 18-19=-1408/0, 17-18=-1408/0, 16-17=-1408/0, 15-16=-105/303, 14-15=-7/1089, 13-14=-7/1089  
 WEBS 3-20=-4733/456, 3-16=0/1840, 5-16=-1859/80, 5-15=0/1382, 6-15=-647/202, 10-13=-743/150, 7-21=-670/142, 9-21=-670/142, 11-13=-109/3812

**NOTES**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all piles, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 2x10 SP No.1 bearing block 12" long at jt. 18 attached to each face with 5 rows of 10d (0.131"x3") nails spaced 3" o.c. 20 Total fasteners per block. Bearing is assumed to be SPF No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 6-7, 9-10, 7-21, 9-21
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1582 lb uplift at joint 2, 106 lb uplift at joint 12 and 326 lb uplift at joint 18.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 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.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- Attic room checked for L/360 deflection.

Job Q-2002149-1	Truss T4GRD	Truss Type Attic Girder	Qty 1	Ply 2	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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**LOAD CASE(S)** Standard

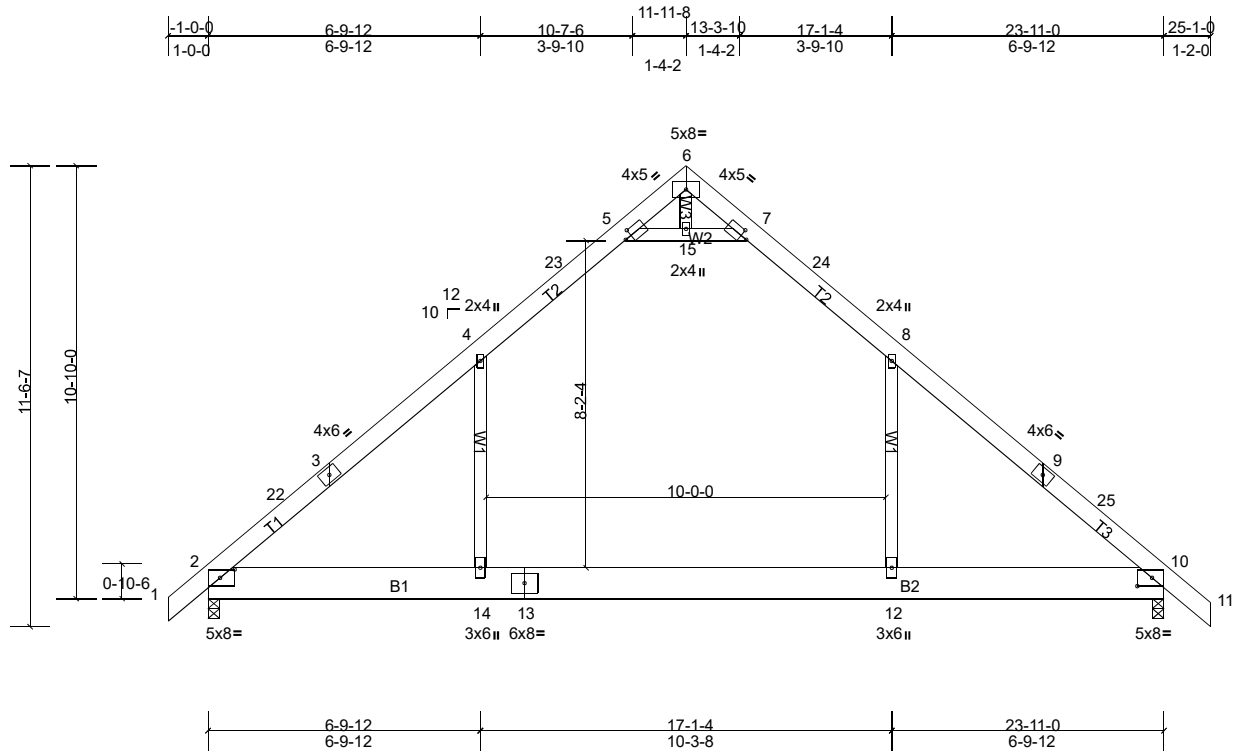
Job Q-2002149-1	Truss T5	Truss Type Attic	Qty 7	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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ID:TP5UrRVW56sUnHDsPWQwnyqwZl-K2hA7nS0oB9UJNm2lU2Kn\_L7dFpSFohiHx\_05yjdF8



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Plate Offsets (X, Y): [2:0-4-6,0-2-8], [5:0-2-1,0-2-0], [7:0-2-1,0-2-0], [10:0-4-6,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.32	12-14	>901	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.50	12-14	>576	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.10	12-14	>999	360		Weight: 199 lb FT = 20%

**LUMBER**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=1068/0-3-8, (min. 0-2-0), 10=1079/0-3-8, (min. 0-2-0)  
 Max Horiz 2=-207 (LC 9)  
 Max Uplift 2=-121 (LC 11), 10=-128 (LC 11)  
 Max Grav 2=1271 (LC 17), 10=1280 (LC 18)

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-22=-1550/44, 3-22=-1473/57, 3-4=-1371/82, 4-23=-957/166, 5-23=-836/182, 5-6=-113/667, 6-7=-113/667,  
 7-24=-836/182, 8-24=-957/166, 8-9=-1372/82, 9-25=-1473/58, 10-25=-1551/44  
 BOT CHORD 2-14=0/1038, 13-14=0/1038, 12-13=0/1038, 10-12=0/1038  
 WEBS 8-12=0/658, 4-14=0/658, 5-15=-1881/401, 7-15=-1881/401

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 11-11-8, Exterior (2) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 25-1-0 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 121 lb uplift at joint 2 and 128 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard



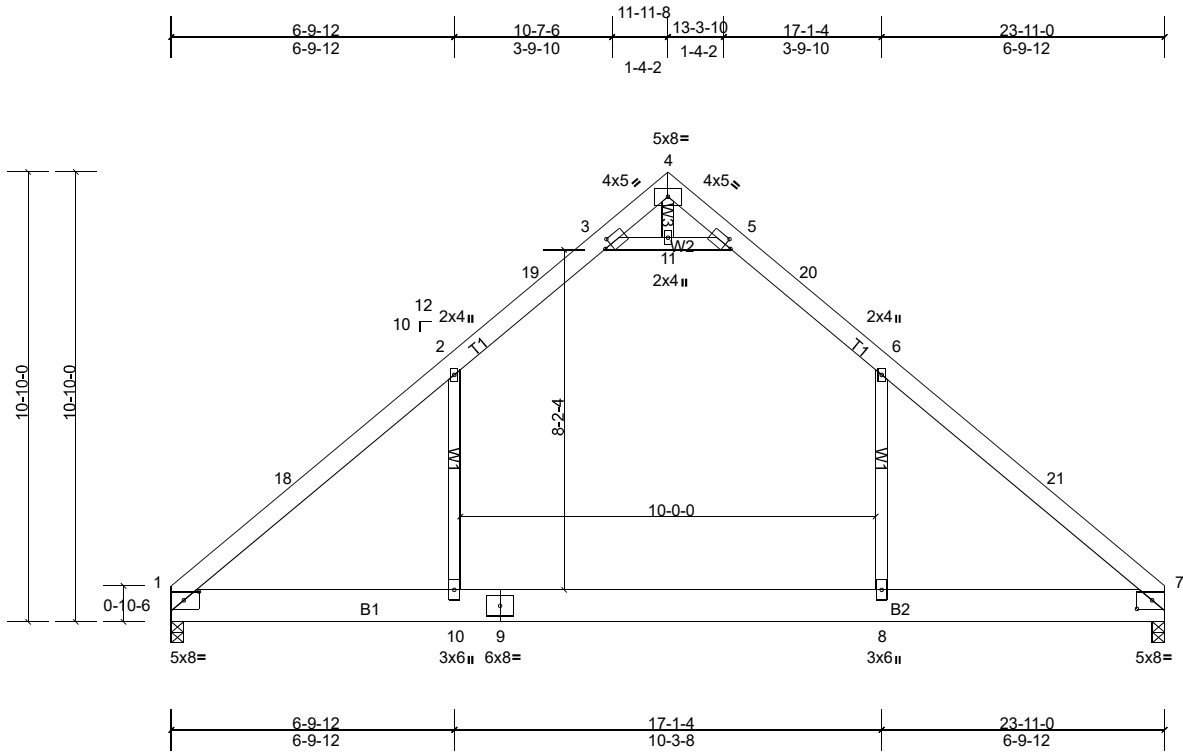
Job Q-2002149-1	Truss T5A	Truss Type Attic	Qty 6	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:55.5

Plate Offsets (X, Y): [1:0-4-6,0-2-8], [3:0-2-1,0-2-0], [5:0-2-1,0-2-0], [7:0-4-6,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.32	8-10	>898	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.50	8-10	>573	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	1	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS		Attic	-0.10	8-10	>999	360	Weight: 190 lb FT = 20%

**LUMBER**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=1008/0-3-8, (min. 0-1-15), 7=1008/0-3-8, (min. 0-1-15)  
 Max Horiz 1=-189 (LC 9)  
 Max Uplift 1=-87 (LC 11), 7=-87 (LC 11)  
 Max Grav 1=1216 (LC 17), 7=1216 (LC 18)

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-18=-1556/63, 2-18=-1377/88, 2-19=-960/170, 3-19=-839/185, 3-4=-118/671, 4-5=-118/671, 5-20=-839/185,  
 6-20=-960/170, 6-21=-1377/88, 7-21=-1556/63  
 BOT CHORD 1-10=0/1032, 9-10=0/1032, 8-9=0/1032, 7-8=0/1032  
 WEBS 6-8=0/659, 2-10=0/659, 3-11=-1891/412, 5-11=-1891/412

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-11-8, Exterior (2) 11-11-8 to 14-11-8, Interior (1) 14-11-8 to 23-11-0 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-11, 5-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 8-10
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 1 and 87 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

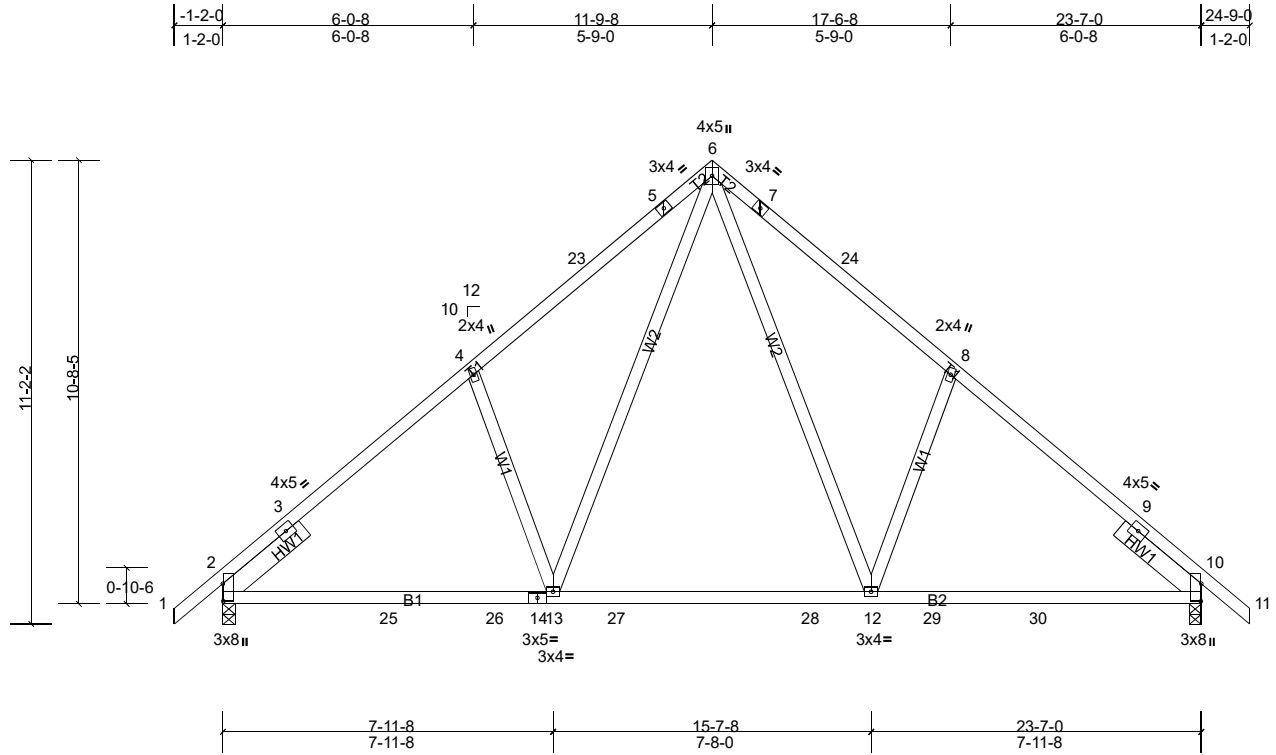
Job Q-2002149-1	Truss T6	Truss Type Common	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:55.5

Plate Offsets (X, Y): [2:0-5-1,0-0-2], [10:0-5-1,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.11	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.18	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 147 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-7-7 oc purlins.  
 BOT CHORD 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** (lb/size) 2=1013/0-3-8, (min. 0-1-10), 10=1013/0-3-8, (min. 0-1-10)

Max Horiz 2=-205 (LC 9)  
 Max Uplift 2=-157 (LC 11), 10=-157 (LC 11)  
 Max Grav 2=1053 (LC 16), 10=1053 (LC 17)

**FORCES**

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

TOP CHORD 2-3=-546/0, 3-4=-1155/186, 4-23=-1104/287, 5-23=-1004/290, 5-6=-955/310, 6-7=-955/310, 7-24=-1004/290,  
 8-24=-1104/287, 8-9=-1155/186, 9-10=-454/0  
 BOT CHORD 2-25=-70/962, 25-26=0/962, 14-26=0/962, 13-14=0/962, 13-27=0/654, 27-28=0/654, 12-28=0/654, 12-29=0/863,  
 29-30=0/863, 10-30=0/863  
 WEBS 4-13=-314/229, 6-13=-137/601, 6-12=-137/601, 8-12=-314/229

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-2-0 to 1-10-0, Interior (1) 1-10-0 to 11-9-8, Exterior (2) 11-9-8 to 14-9-8, Interior (1) 14-9-8 to 24-9-0 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 2 and 157 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

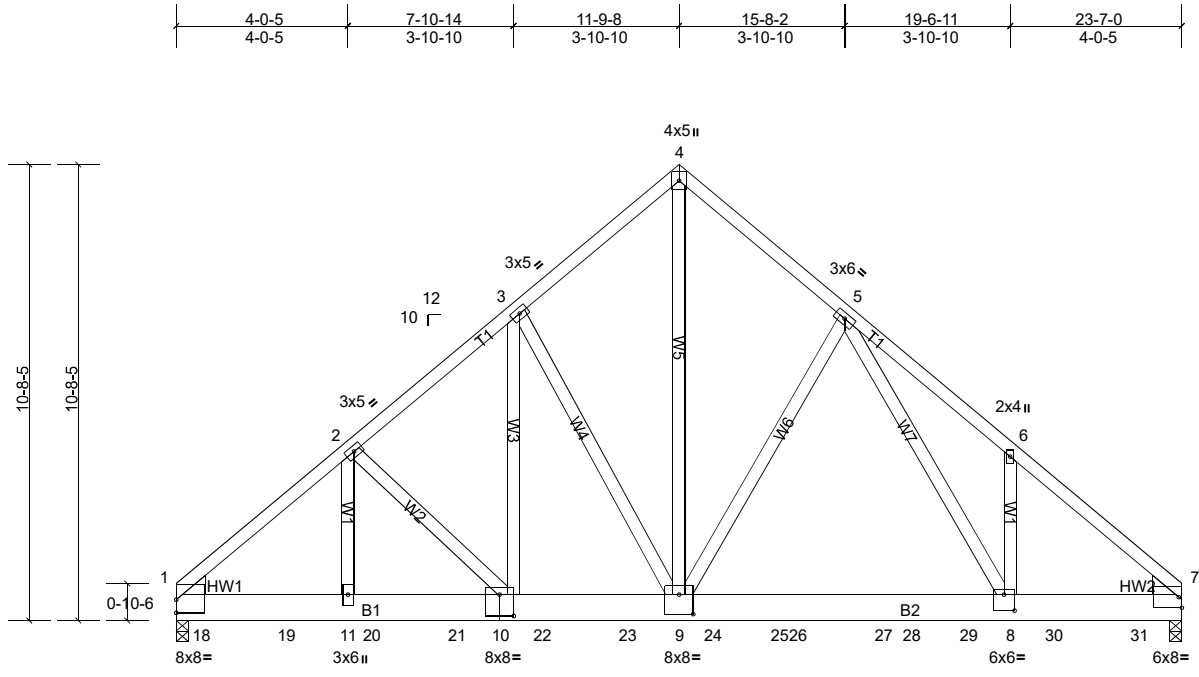
Job Q-2002149-1	Truss T6GRD	Truss Type Common Girder	Qty 1	Ply 4	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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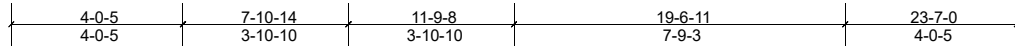


Plate Offsets (X, Y): [1:Edge,0-3-11], [8:0-3-0,0-4-8], [9:0-4-0,0-5-8], [10:0-4-0,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.13	8-9	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.24	8-9	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.04	7	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 786 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x8 SP No.2  
 WEBS 2x4 SP No.3 \*Except\* W5:2x4 SP No.2  
 WEDGE Left: 2x6 SP No.2  
 Right: 2x6 SP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=943/0-3-8, (req. 0-3-12), 7=943/0-3-8, (req. 0-3-9)  
 Max Horiz 1=187 (LC 6)  
 Max Uplift 1=-746 (LC 8), 7=-752 (LC 8)  
 Max Grav 1=9581 (LC 2), 7=9139 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-10777/872, 2-3=-9248/805, 3-4=-7436/716, 4-5=-7446/718, 5-6=-11145/1039, 6-7=-11357/966  
 BOT CHORD 1-18=-647/8148, 18-19=-647/8148, 11-19=-647/8148, 11-20=-647/8148, 20-21=-647/8148, 10-21=-647/8148,  
 10-22=-526/6938, 22-23=-526/6938, 9-23=-526/6938, 9-24=-483/6526, 24-25=-483/6526, 25-26=-483/6526,  
 26-27=-483/6526, 27-28=-483/6526, 28-29=-483/6526, 8-29=-483/6526, 8-30=-689/8562, 30-31=-689/8562,  
 7-31=-689/8562  
 WEBS 2-11=-157/2028, 2-10=-1547/161, 3-10=-245/3237, 3-9=-2605/256, 4-9=-868/9242, 5-9=-1750/231, 5-8=-422/4181,  
 6-8=-222/264

**NOTES**

- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.  
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- WARNING: Required bearing size at joint(s) 1, 7 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 746 lb uplift at joint 1 and 752 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Job Q-2002149-1	Truss T6GRD	Truss Type Common Girder	Qty 1	Ply 4	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1468 lb down and 112 lb up at -24-1-12, 1468 lb down and 112 lb up at -26-1-12, 1468 lb down and 112 lb up at -28-1-12, 1468 lb down and 112 lb up at -30-1-12, 1415 lb down and 105 lb up at -32-1-12, 1420 lb down and 131 lb up at -34-1-12, 1420 lb down and 131 lb up at -36-1-12, 1420 lb down and 131 lb up at -38-1-12, 1420 lb down and 131 lb up at -40-1-12, 1420 lb down and 131 lb up at -42-1-12, 1420 lb down and 131 lb up at -44-1-12, 1415 lb down and 105 lb up at -46-1-12, 1453 lb down and 127 lb up at 0-6-12, 1448 lb down and 132 lb up at 2-6-12, 1448 lb down and 132 lb up at 4-6-12, 1448 lb down and 132 lb up at 6-6-12, 1395 lb down and 125 lb up at 8-6-12, 1400 lb down and 151 lb up at 10-6-12, 1400 lb down and 151 lb up at 12-6-12, 1393 lb down and 151 lb up at 14-6-12, 1393 lb down and 151 lb up at 16-6-12, 1400 lb down and 151 lb up at 18-6-12, and 1400 lb down and 151 lb up at 20-6-12, and 1395 lb down and 125 lb up at 22-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 12-15=-20



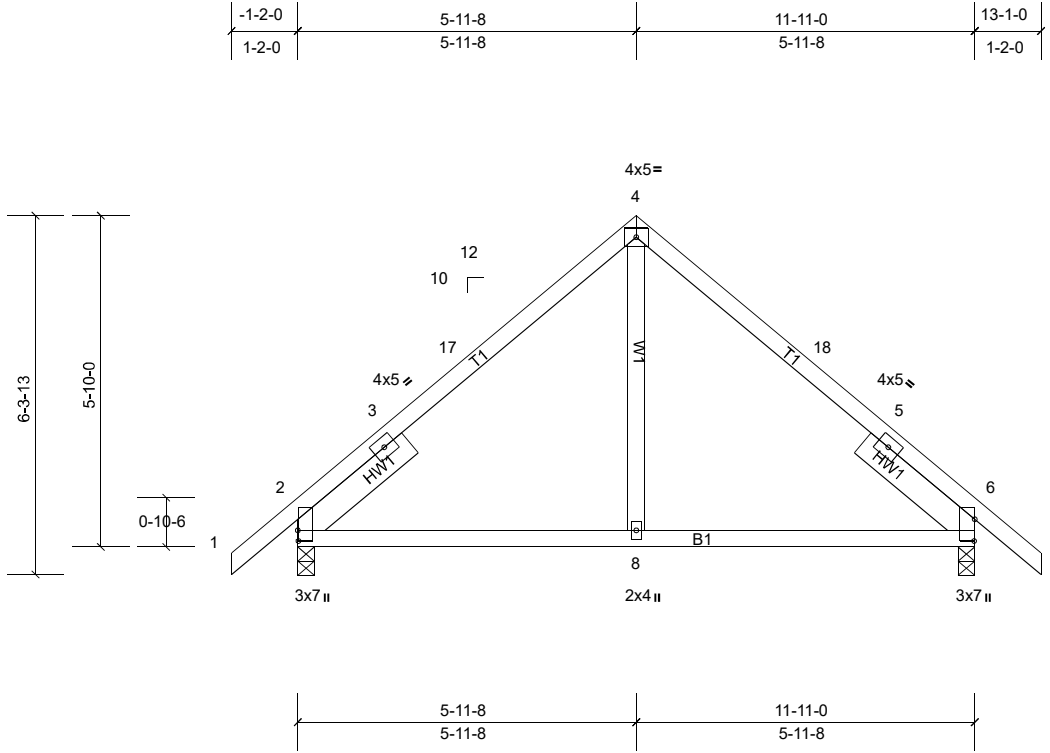
Job Q-2002149-1	Truss T7	Truss Type Common	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:40.6

Plate Offsets (X, Y): [2:0-2-4,0-0-2], [6:0-4-9,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.03	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								
											Weight: 65 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -- 2-6-0, Right 2x6 SP No.2 -- 2-6-0

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD 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** (lb/size) 2=547/0-3-8, (min. 0-1-8), 6=547/0-3-8, (min. 0-1-8)

Max Horiz 2=-113 (LC 9)  
 Max Uplift 2=-100 (LC 11), 6=-100 (LC 11)

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

TOP CHORD 3-17=-392/80, 4-17=-376/103, 4-18=-376/103, 5-18=-392/80  
 BOT CHORD 2-8=-67/300, 6-8=0/300

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-2-0 to 1-10-0, Interior (1) 1-10-0 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 13-1-0 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
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 2 and 100 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

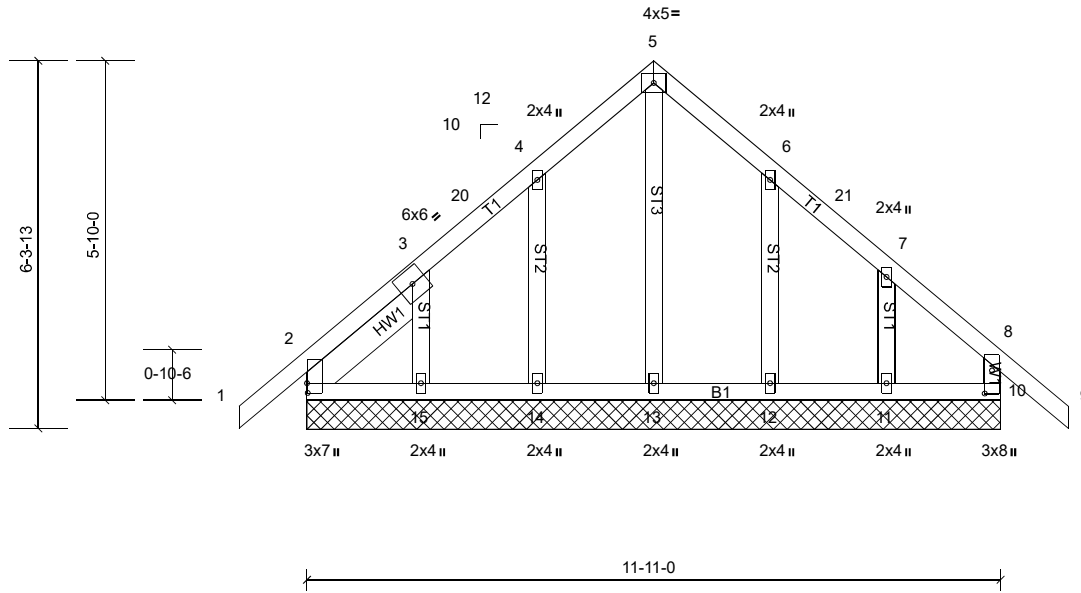
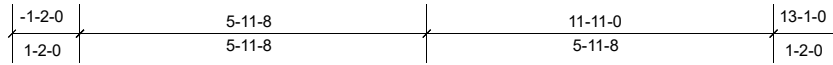
Job Q-2002149-1	Truss T7GE	Truss Type Common Supported Gable	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:39.6

Plate Offsets (X, Y): [2:0-2-0,0-0-2], [10:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 77 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -- 2-5-13

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** All bearings 11-11-0.

(lb) - Max Horiz 2=127 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 2  
 Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 13, 14, 15, 2

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

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -1-2-0 to 1-11-8, Interior (1) 1-11-8 to 5-11-8, Exterior (2) 5-11-8 to 8-11-8, Interior (1) 8-11-8 to 13-1-0 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 14, 15, 12, 11, 2.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

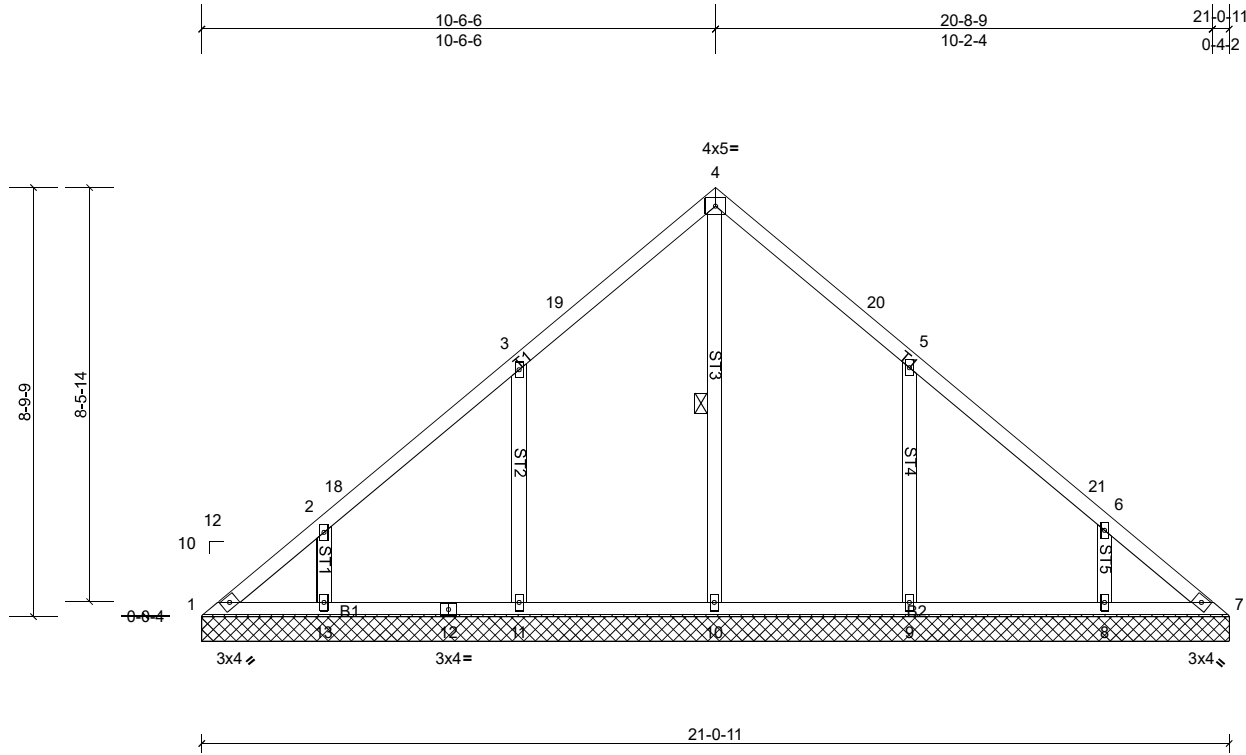
Job Q-2002149-1	Truss V1	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:47.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS								Weight: 102 lb FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-10

**REACTIONS** All bearings 21-0-11.

(lb) - Max Horiz 1=-163 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 13 except 9=-148 (LC 11), 11=-150 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=293 (LC 1), 9=417 (LC 17), 10=376 (LC 16), 11=419 (LC 16), 13=290 (LC 1)

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

WEBS 3-11=-279/198, 5-9=-276/196

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=21ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 10-6-10, Exterior (2) 10-6-10 to 13-6-10, Interior (1) 13-6-10 to 21-1-0 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
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 11=150, 9=148.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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



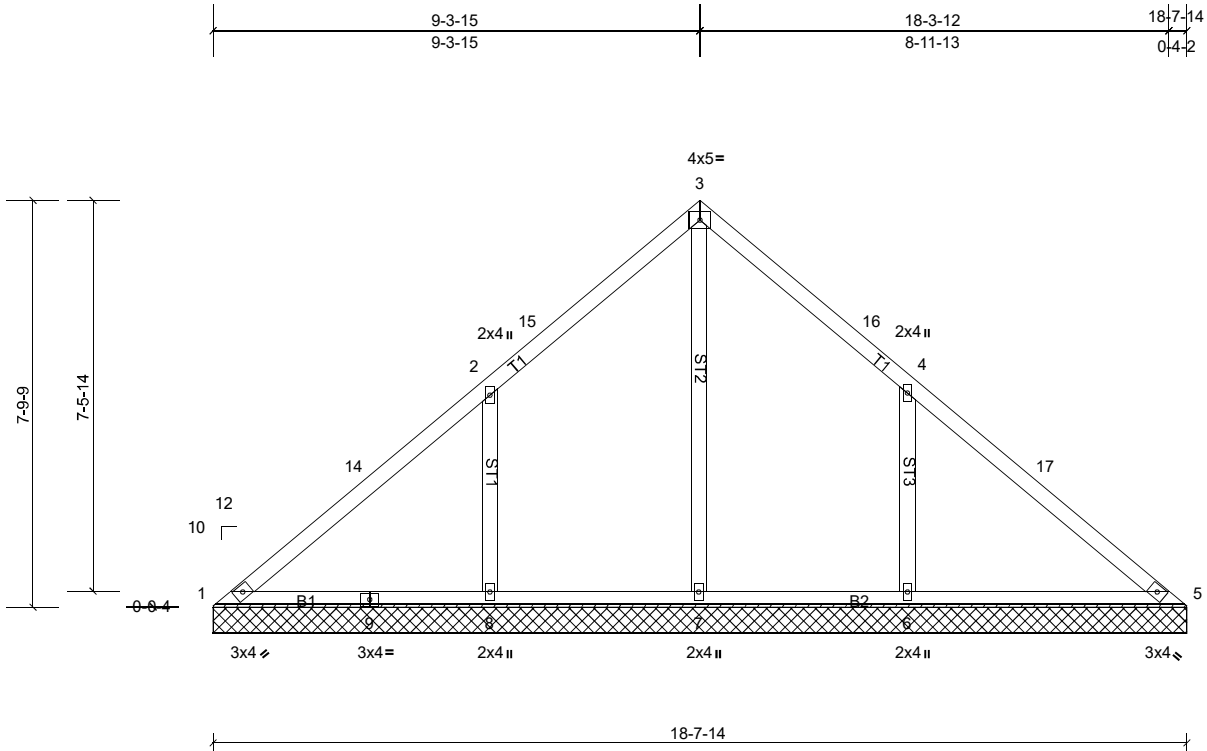
Job Q-2002149-1	Truss V2	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:44.1

Loading	(psf)	Spacing	2-0-0	CSI	0.25	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horiz(TL)	0.01	5	n/a	n/a	
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 85 lb FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**  
 TOP CHORD  
 BOT CHORD

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

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

**REACTIONS** All bearings 18-7-14.  
 (lb) - Max Horiz 1=-144 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-180 (LC 11), 8=-180 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=523 (LC 17), 7=525 (LC 16), 8=524 (LC 16)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-14=-102/287, 4-17=-101/257  
 WEBS 3-7=-381/0, 2-8=-328/216, 4-6=-327/216

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 9-4-4, Exterior (2) 9-4-4 to 12-4-4, Interior (1) 12-4-4 to 18-8-3 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
  - Gable requires continuous bottom chord bearing.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=179, 6=179.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

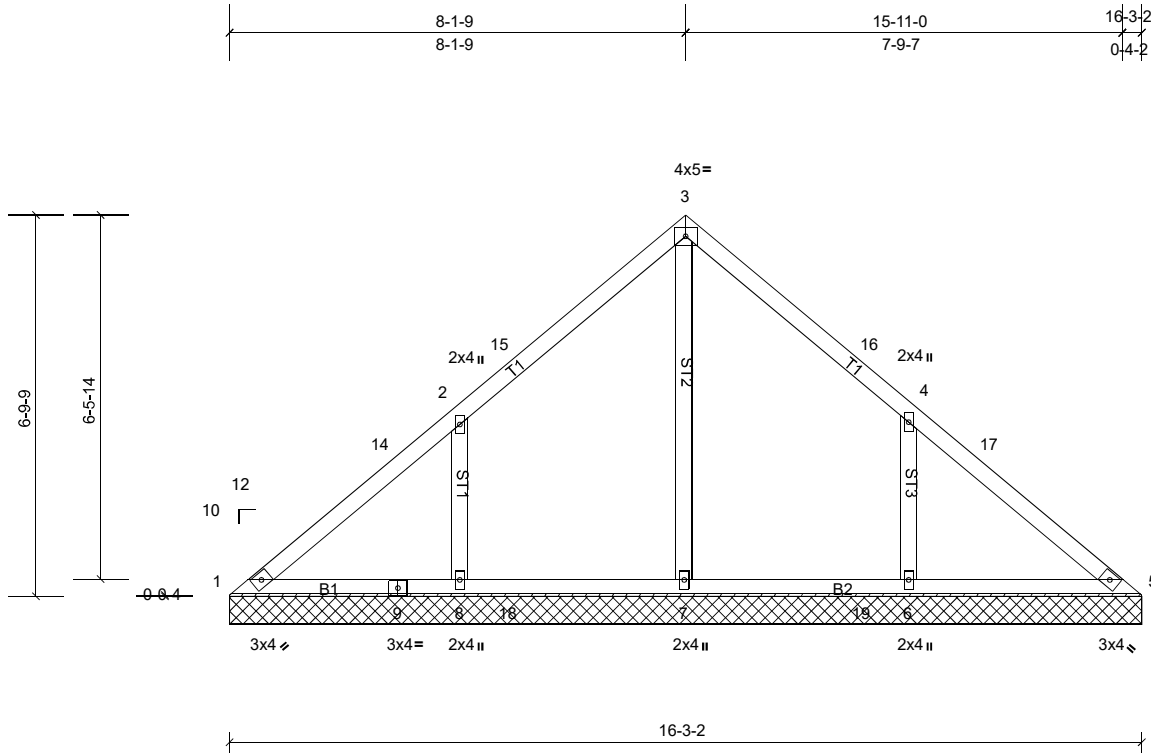
Job Q-2002149-1	Truss V3	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 72 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD  
 BOT CHORD

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

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

**REACTIONS** All bearings 16-3-2.

(lb) - Max Horiz 1=125 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) except 6=-151 (LC 11),  
 8=-152 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=429 (LC 17), 7=441 (LC 16), 8=429 (LC 16)

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

WEBS 3-7=-273/0, 2-8=-283/188, 4-6=-282/187

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 8-1-14, Exterior (2) 8-1-14 to 11-1-14, Interior (1) 11-1-14 to 16-3-6 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 8 and 151 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

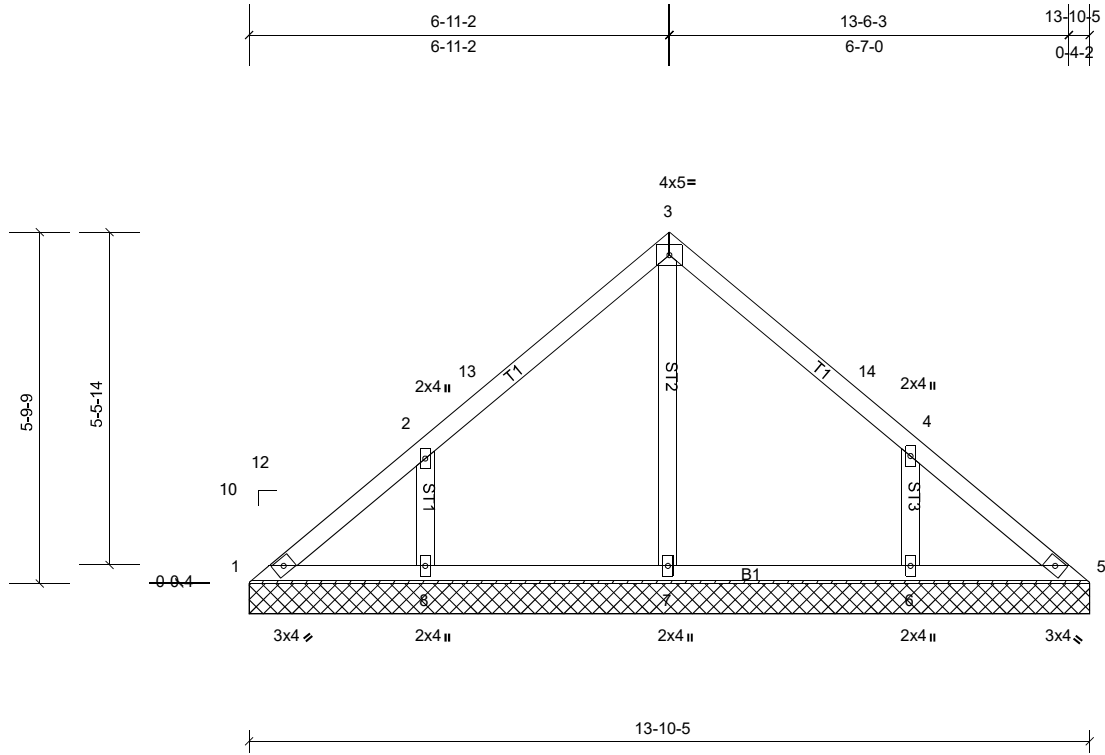
Job Q-2002149-1	Truss V4	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:38

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 59 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 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 13-10-5.

(lb) - Max Horiz 1=-106 (LC 9)  
 Max Uplift All uplift 100 (lb) or less at joint(s) except 6=-128 (LC 11),  
 8=-129 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=337 (LC 17), 7=271 (LC 1), 8=340 (LC 16)

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

WEBS 2-8=-256/170, 4-6=-252/168

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 2-11-2, Interior (1) 2-11-2 to 6-11-7, Exterior (2) 6-11-7 to 9-11-7, Interior (1) 9-11-7 to 13-10-10 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 8 and 128 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

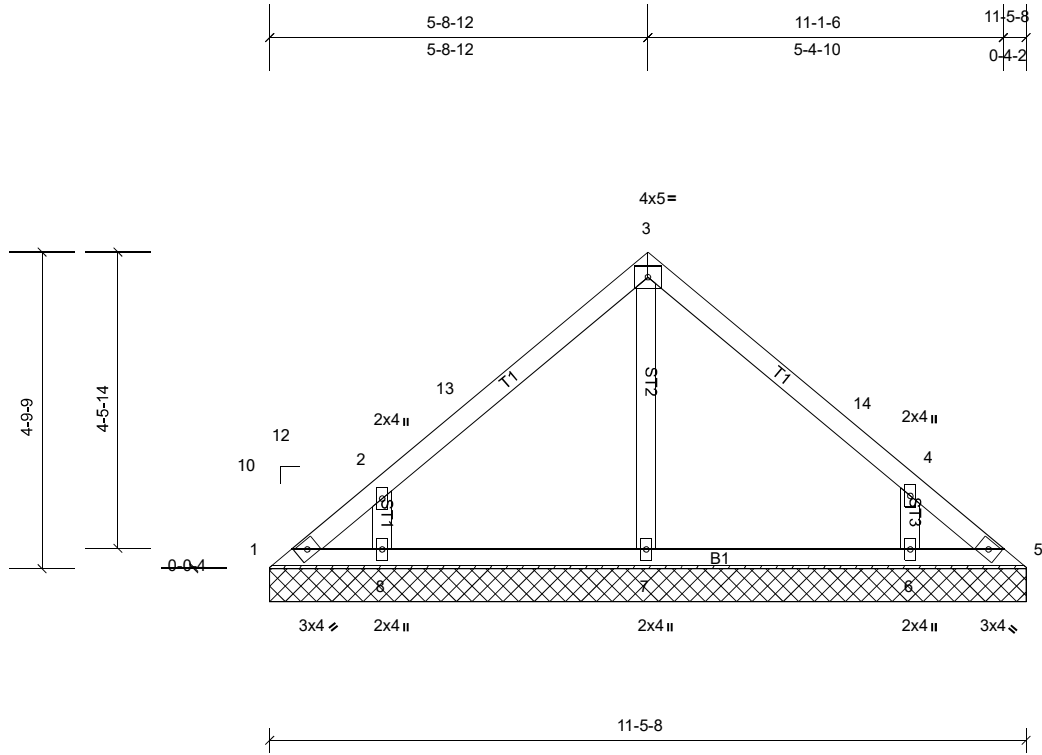
Job Q-2002149-1	Truss V5	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:34.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 47 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 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 11-5-8.

(lb) - Max Horiz 1=87 (LC 10)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5 except 6=115 (LC 11),  
 8=117 (LC 11)  
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=306 (LC 17), 8=312 (LC 16)

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

WEBS 2-8=-267/185, 4-6=-258/179

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 5-9-1, Exterior (2) 5-9-1 to 8-9-1, Interior (1) 8-9-1 to 11-5-13 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=117, 6=114.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

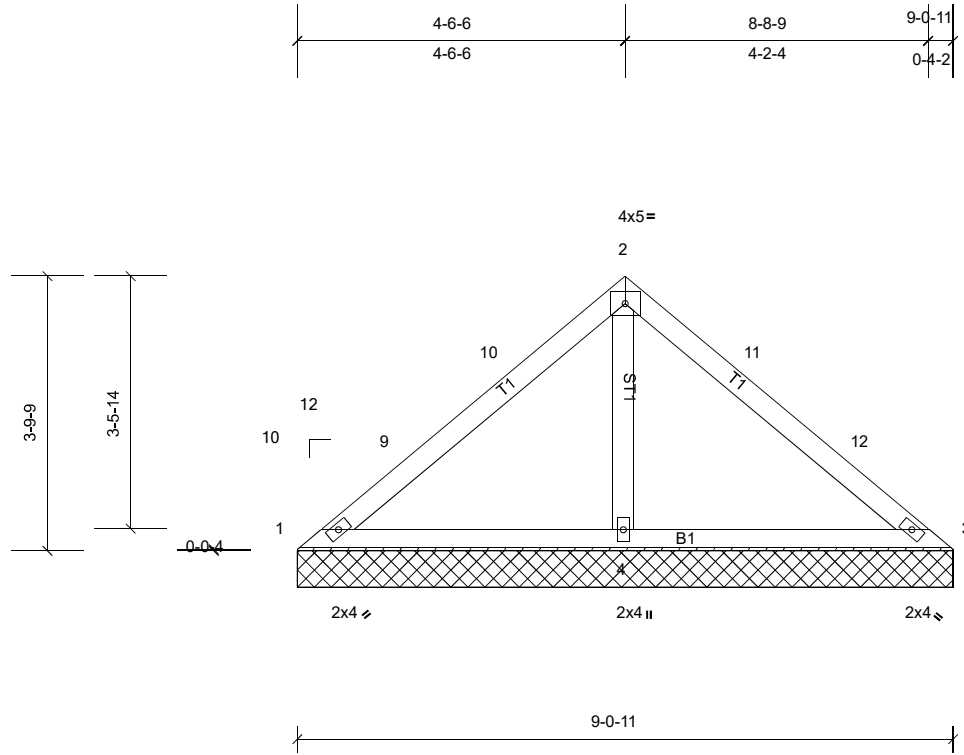
Job Q-2002149-1	Truss V6	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Peak Truss Builders LLC, New Hill, user

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Scale = 1:31.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 34 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
OTHERS 2x4 SP No.3

#### BRACING

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 9'-0" oc purlins.  
Rigid ceiling directly applied or 6'-0" oc bracing.

**REACTIONS** (lb/size) 1=42/9-0-11, (min. 0-1-8), 3=46/9-0-11, (min. 0-1-8),  
4=637/9-0-11, (min. 0-1-8)

Max Horiz 1=68 (LC 10)  
Max Uplift 1=-14 (LC 21), 3=-12 (LC 20), 4=-127 (LC 11)  
Max Grav 1=76 (LC 20), 3=79 (LC 21), 4=637 (LC 1)

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

TOP CHORD 2-10=-44/260, 2-11=-42/256  
WEBS 2-4=-475/140

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-6-10, Exterior (2) 4-6-10 to 7-6-10, Interior (1) 7-6-10 to 9-1-0 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 12 lb uplift at joint 3 and 127 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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

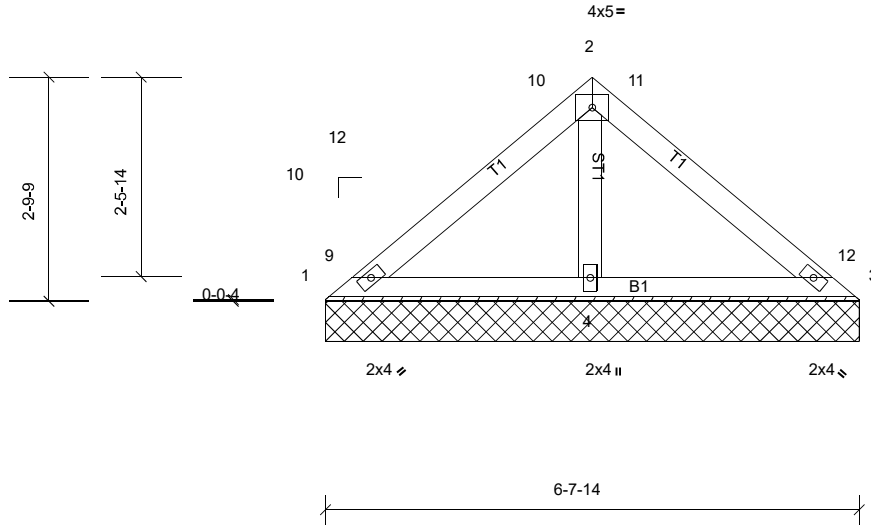
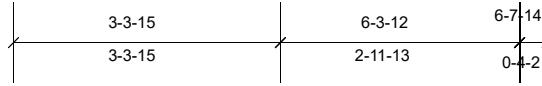
Job Q-2002149-1	Truss V7	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

**LUMBER**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**  
 TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 6-7-14 oc purlins.  
 Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size) 1=47/6-7-14, (min. 0-1-8), 3=51/6-7-14, (min. 0-1-8),  
 4=435/6-7-14, (min. 0-1-8)  
 Max Horiz 1=49 (LC 10)  
 Max Uplift 4=-82 (LC 11)  
 Max Grav 1=68 (LC 20), 3=71 (LC 21), 4=435 (LC 1)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-296/85

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-4-4, Exterior (2) 3-4-4 to 6-4-4, Interior (1) 6-4-4 to 6-8-3 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
  - Gable requires continuous bottom chord bearing.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

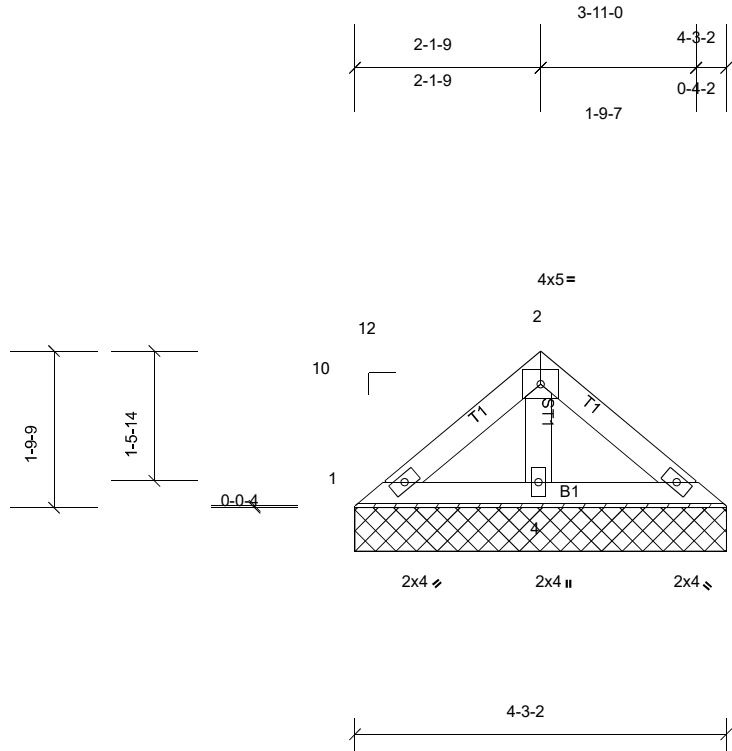
Job Q-2002149-1	Truss V8	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD  
 BOT CHORD

Structural wood sheathing directly applied or 4-3-2 oc purlins.  
 Rigid ceiling directly applied or 6-0-0 oc bracing.

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

**REACTIONS** (lb/size) 1=49/4-3-2, (min. 0-1-8), 3=52/4-3-2, (min. 0-1-8), 4=240/4-3-2, (min. 0-1-8)  
 Max Horiz 1=-30 (LC 9)  
 Max Uplift 1=-3 (LC 11), 3=-4 (LC 11), 4=-35 (LC 11)  
 Max Grav 1=58 (LC 20), 3=60 (LC 21), 4=240 (LC 1)

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

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; 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
- Gable requires continuous bottom chord bearing.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 4 lb uplift at joint 3 and 35 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

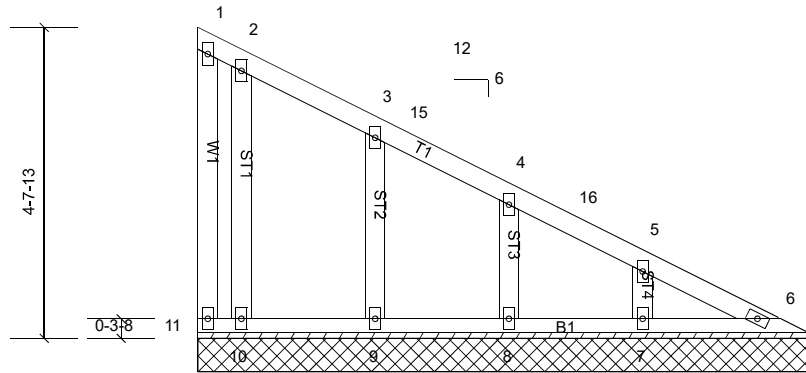
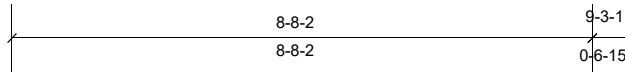
Job Q-2002149-1	Truss V9	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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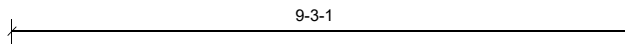
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Scale = 1:34.5



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MS							Weight: 48 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** All bearings 9-3-1.

(lb) - Max Horiz 11=-134 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 11, 6  
 Max Grav All reactions 250 (lb) or less at joint(s) 8, 9, 10, 11, 6 except 7=318 (LC 1)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 BOT CHORD 10-11=-124/254, 9-10=-124/254, 8-9=-124/254, 7-8=-124/254, 6-7=-124/254

**NOTES**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 8-8-3 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6, 8, 9, 10, 6.
- 8) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

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



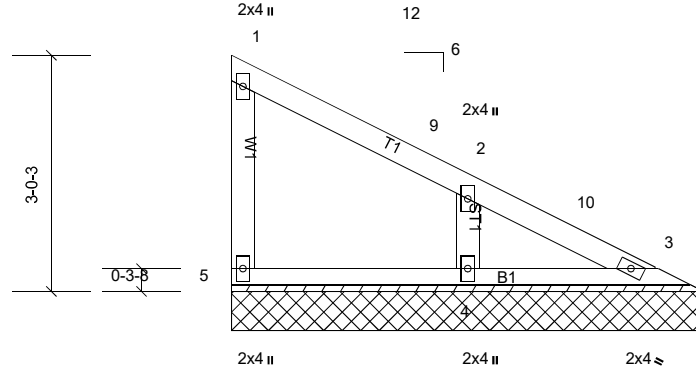
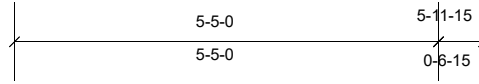
Job Q-2002149-1	Truss V10	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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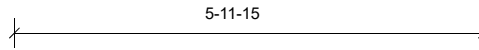
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Scale = 1:29.4



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD 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 5-11-15.

- (lb) - Max Horiz 5=-83 (LC 7)
- Max Uplift All uplift 100 (lb) or less at joint(s) 4, 5, 3
- Max Grav All reactions 250 (lb) or less at joint(s) 5, 3 except 4=387 (LC 1)

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

**NOTES**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 4-4-11, Interior (1) 4-4-11 to 5-5-0 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) Gable requires continuous bottom chord bearing.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5, 11 lb uplift at joint 3, 32 lb uplift at joint 4 and 11 lb uplift at joint 3.
- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

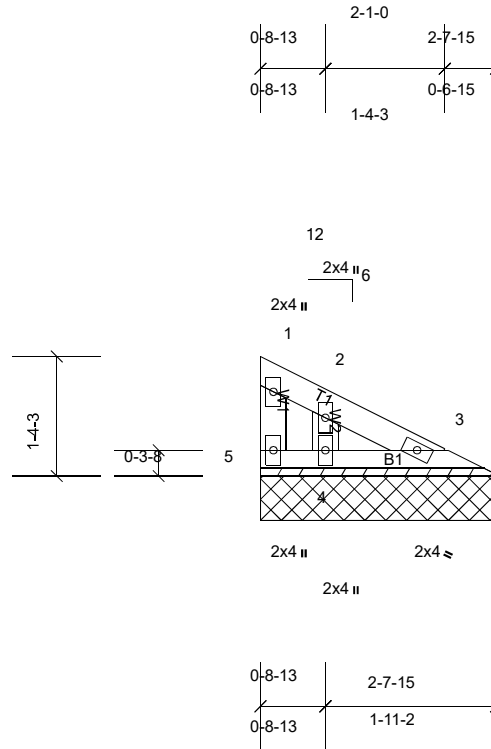
Job Q-2002149-1	Truss V11	Truss Type Valley	Qty 1	Ply 1	HB 2008 V3-Roof Job Reference (optional)
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Scale = 1:26

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2015/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** All bearings 2-7-15.

(lb) - Max Horiz 5=-30 (LC 7)  
 Max Uplift All uplift 100 (lb) or less at joint(s) 4, 5, 3  
 Max Grav All reactions 250 (lb) or less at joint(s) 5, 3 except 4=253 (LC 1)

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

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

**NOTES**

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; 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) Gable requires continuous bottom chord bearing.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 5, 13 lb uplift at joint 3, 21 lb uplift at joint 4 and 13 lb uplift at joint 3.
- 5) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard