

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A1	Hip Girder	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

Run: 8.63 S Dec 22 2022 Print: 8.630 S Dec 22 2022 MiTek Industries, Inc. Thu Sep 14 16:12:34

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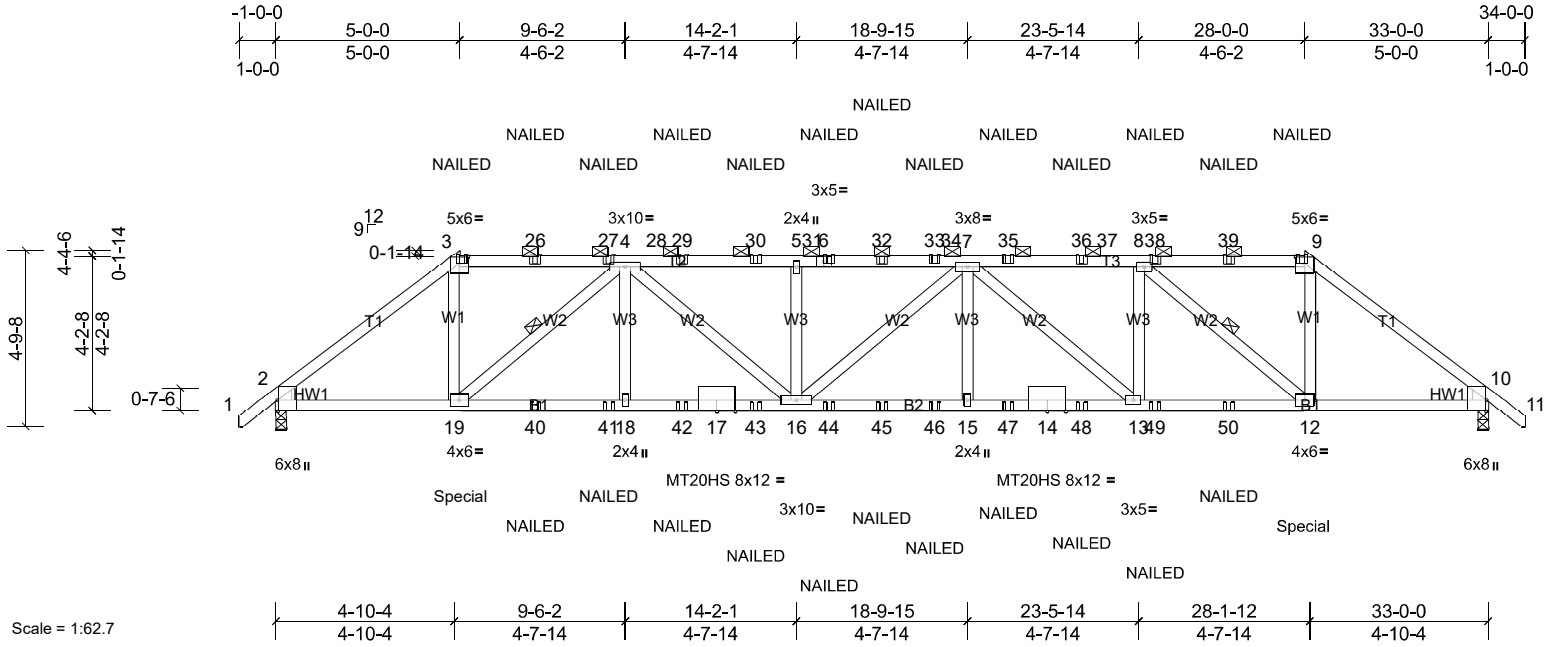


Plate Offsets (X, Y): [2:0-3-8,Edge], [3:0-3-0,0-2-2], [9:0-3-0,0-2-2], [10:0-3-8,Edge]

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	0.99	Vert(LL)	-0.27	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.55	15-16	>715	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.16	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 182 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1 *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-6-3 oc purlins, except 2-0-0 oc purlins (2-0-5 max.): 3-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-19, 8-12
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	(lb/size)	2=2173/0-3-8, (min. 0-2-0), 10=2173/0-3-8, (min. 0-2-0)
	Max Horiz	2=82 (LC 10)
	Max Uplift	2=-212 (LC 8), 10=-212 (LC 7)
	Max Grav	2=2415 (LC 2), 10=2414 (LC 2)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3467/372, 3-26=-2640/310, 26-27=-2642/310, 4-27=-2642/310, 4-28=-5054/532, 28-29=-5054/532, 29-30=-5054/532, 5-30=-5054/532, 5-31=-5054/532, 6-31=-5054/532, 6-32=-5054/532, 32-33=-5054/532, 33-34=-5054/532, 7-34=-5054/532, 7-35=-4309/464, 35-36=-4309/464, 36-37=-4309/464, 8-37=-4309/464, 8-38=-2643/310, 38-39=-2642/310, 9-39=-2640/310, 9-10=-3468/372

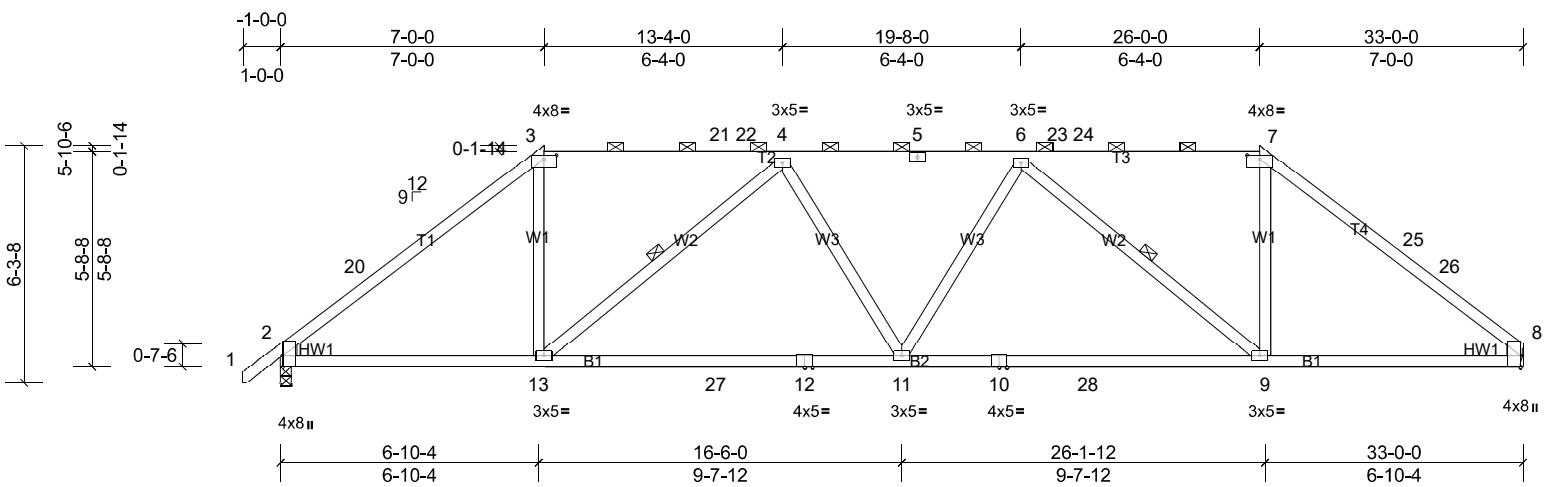
BOT CHORD	2-19=-310/2744, 19-40=-462/4342, 40-41=-462/4342, 18-41=-462/4342, 18-42=-462/4342, 17-42=-462/4342, 17-43=-462/4342, 16-43=-462/4342, 16-44=-517/5089, 44-45=-517/5089, 45-46=-517/5089, 15-46=-517/5089, 15-47=-517/5089, 14-47=-517/5089, 14-48=-517/5089, 13-48=-517/5089, 13-49=-426/4325, 49-50=-426/4325, 12-50=-426/4325, 10-12=-240/2719
WEBS	3-19=-121/1776, 4-19=-2212/252, 4-18=0/254, 4-16=-114/1024, 5-16=-448/171, 7-13=-1037/118, 8-13=0/911, 8-12=-2206/250, 9-12=-121/1777

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 407 lb down and 60 lb up at 5-0-0, and 407 lb down and 60 lb up at 27-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)	Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (lb/ft)	Vert: 1-3=-48, 3-9=-58, 9-11=-48, 20-23=-20
Concentrated Loads (lb)	Vert: 3=-49, 6=-45, 19=-378, 12=-378, 9=-49, 26=-45, 27=-45, 29=-45, 30=-45, 32=-45, 33=-45, 35=-45, 36=-45, 38=-45, 39=-45, 40=-40, 41=-40, 42=-40, 43=-40, 44=-40, 45=-40, 46=-40, 47=-40, 48=-40, 49=-40, 50=-40

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A2	Hip	1	1	Job Reference (optional)



Scale = 1:61.2

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

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	0.97	Vert(LL)	-0.29	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.48	11-13	>822	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 165 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T4:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (2-7-4 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 6-9

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

REACTIONS (lb/size) 2=1258/0-3-8, (min. 0-1-13), 8=1212/ Mechanical, (min. 0-1-8)
Max Horiz 2=106 (LC 12)
Max Grav 2=1529 (LC 45), 8=1503 (LC 45)

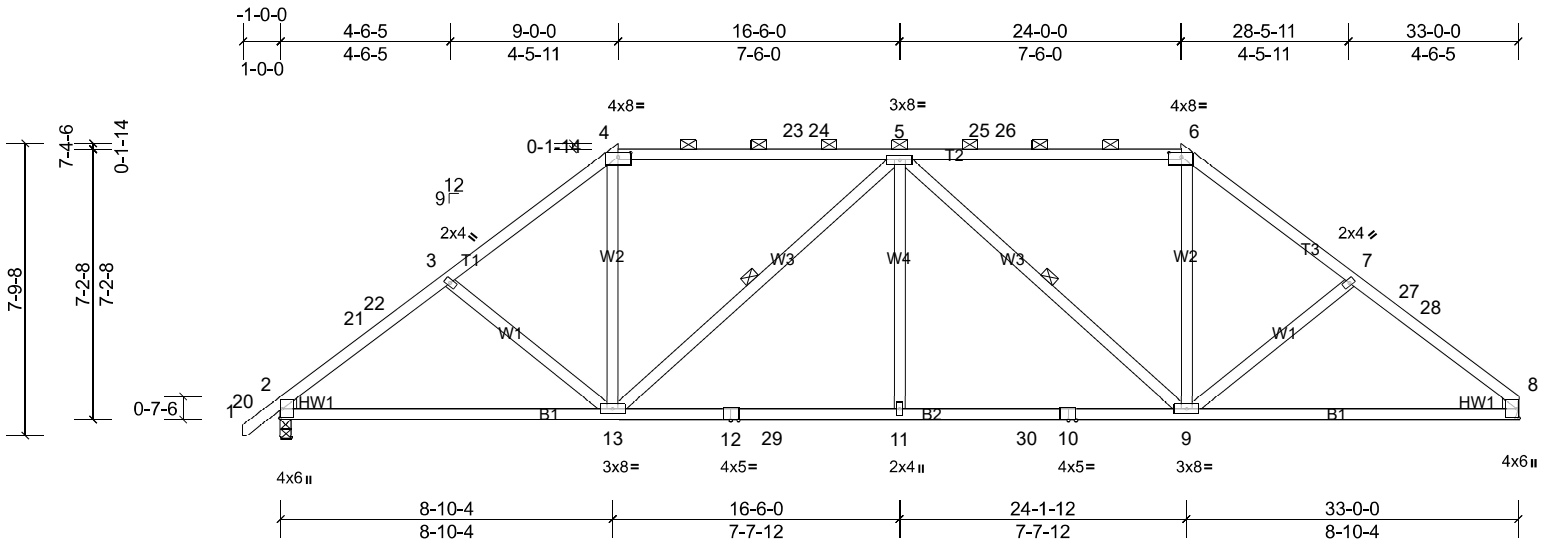
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-2173/56, 3-20=-2143/89, 3-21=-1672/126, 21-22=-1673/126, 4-22=-1674/126, 4-5=-2669/93, 5-6=-2669/93, 6-23=-1677/124, 23-24=-1676/124, 7-24=-1675/125, 7-25=-2084/96, 25-26=-2147/70, 8-26=-2176/63
BOT CHORD 2-13=-78/1699, 13-27=-15/2544, 12-27=-15/2544, 11-12=-15/2544, 10-11=-7/2544, 10-28=-7/2544, 9-28=-7/2544, 8-9=0/1702
WEBS 3-13=0/993, 4-13=-1166/90, 4-11=0/288, 6-11=0/287, 6-9=-1163/90, 7-9=0/994

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 7-0-0, Exterior(2R) 7-0-0 to 11-8-0, Interior (1) 11-8-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-8-0, Interior (1) 30-8-0 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A3	Hip	1	1	Job Reference (optional)



Scale = 1:61.4

Plate Offsets (X, Y): [4:0-4-0,0-1-6], [6:0-4-0,0-1-6]												
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	0.93	Vert(LL)	-0.16	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.27	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 184 lb FT = 20%		

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-9

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

REACTIONS (lb/size) 2=1238/0-3-8, (min. 0-1-13), 8=1192/ Mechanical, (min. 0-1-8)
Max Horiz 2=134 (LC 14)
Max Grav 2=1555 (LC 46), 8=1495 (LC 46)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-2005/92, 21-22=-1944/106, 3-22=-1932/117, 3-4=-1907/122, 4-23=-1512/140, 23-24=-1513/140, 5-24=-1514/139, 5-25=-1515/138, 25-26=-1513/138, 6-26=-1513/139, 6-7=-1909/129, 7-27=-1935/117, 27-28=-1939/108, 8-28=-2009/92
BOT CHORD 2-13=-90/1570, 12-13=0/2075, 12-29=0/2075, 11-29=0/2075, 11-30=0/2075, 10-30=0/2075, 9-10=0/2075, 8-9=-40/1548
WEBS 3-13=-317/119, 4-13=0/807, 5-13=-759/80, 5-11=0/414, 5-9=-758/80, 6-9=0/808, 7-9=-322/119

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-0, Interior (1) 13-8-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-7-1, Interior (1) 28-7-1 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

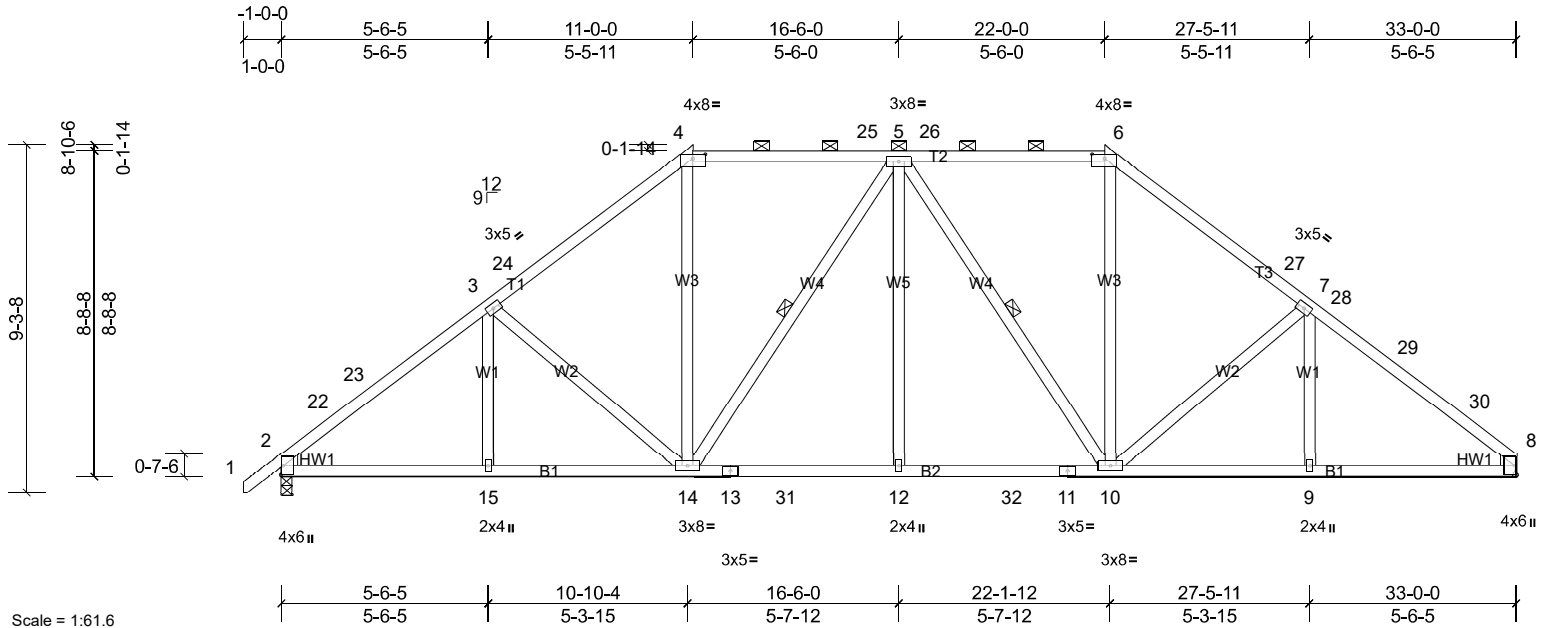
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A4	Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:61.6

Plate Offsets (X, Y): [4:0-4-0,0-1-6], [6:0-4-0,0-1-6]

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	0.67	Vert(LL)	-0.10	12-14	>999	240	MT20
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.19	10-12	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.08	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 207 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except 2-0-0 oc purlins (4-7-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-10

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

REACTIONS (lb/size) 2=1218/0-3-8, (min. 0-1-14), 8=1172/ Mechanical, (min. 0-1-8)
Max Horiz 2=162 (LC 12)
Max Grav 2=1579 (LC 46), 8=1539 (LC 46)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-2142/68, 22-23=-2119/75, 3-23=-1957/98, 3-24=-1749/119, 4-24=-1619/154, 4-25=-1292/169, 5-25=-1294/169, 5-26=-1294/167, 6-26=-1292/168, 6-27=-1620/159, 7-27=-1750/124, 7-28=-1938/106, 28-29=-1960/103, 29-30=-2048/85, 8-30=-2146/76
BOT CHORD 2-15=-91/1705, 14-15=-46/1705, 13-14=0/1544, 13-31=0/1544, 12-31=0/1544, 12-32=0/1544, 11-32=0/1544, 10-11=0/1544, 9-10=-19/1639, 8-9=-19/1639
WEBS 3-14=-509/100, 4-14=0/713, 5-14=-464/80, 5-12=0/322, 5-10=-464/80, 6-10=0/714, 7-10=-514/101

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 11-0-0, Exterior(2R) 11-0-0 to 15-8-0, Interior (1) 15-8-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-8-0, Interior (1) 26-8-0 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

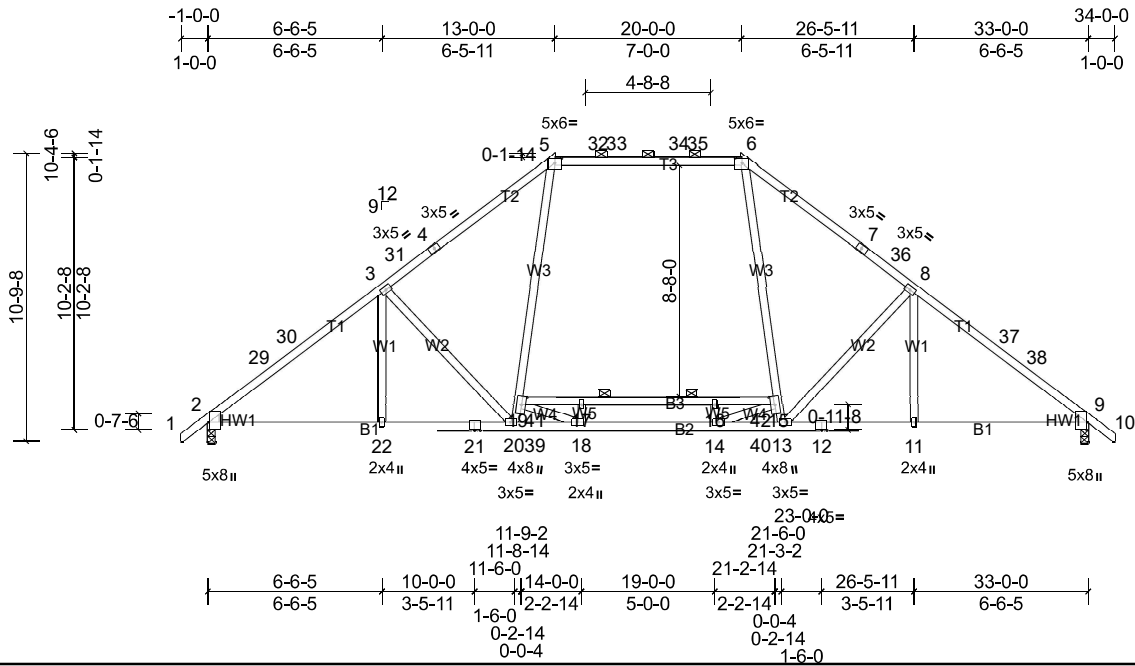
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	A5	Hip	1	1	

Carter Components, Sanford, NC, user

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Scale = 1:86.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2], [9:0-3-8,Edge], [15:0-3-12,0-2-0], [19:0-3-12,0-2-0]

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	0.85	Vert(LL)	-0.49	20-22	>813	240	MT20
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.57	20-22	>691	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.11	9	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 200 lb FT = 20%											

LUMBER		
TOP CHORD	2x4 SP No.1 *Except* T3:2x4 SP 2400F	
	2.OE, T1:2x4 SP No.2	
BOT CHORD	2x4 SP No.1 *Except* B2,B3:2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	
WEDGE	Left: 2x4 SP No.3	
	Right: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except	
	2-0-0 oc purlins (5-6-2 max.): 5-6.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	
	2-2-0 oc bracing: 14-18.	
	4-11-0 oc bracing: 15-19	
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size)		2=1396/0-3-8, (min. 0-2-5), 9=1396/0-3-8, (min. 0-2-5)
	Max Horiz	2=195 (LC 14)
	Max Grav	2=1980 (LC 48), 9=1980 (LC 50)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-29=-2739/0, 29-30=-2667/0, 3-30=-2554/0, 3-31=-2390/0, 4-31=-2303/0, 4-5=-2231/0, 5-32=-1648/4, 32-33=-1648/4, 33-34=-1648/4, 34-35=-1648/4, 6-35=-1648/4, 6-7=-2231/0, 7-36=-2303/0, 8-36=-2390/0, 8-37=-2554/0, 37-38=-2667/0, 9-38=-2739/0	
BOT CHORD	2-22=-41/2243, 21-22=0/2243, 20-21=0/2243, 20-39=0/1809, 18-39=0/1809, 14-18=0/2866, 14-40=0/1687, 13-40=0/1687, 12-13=0/2115, 11-12=0/2115, 9-11=0/2115, 9-41=-1407/0, 17-41=-1407/0, 16-17=-1407/0, 16-42=-1407/0, 15-42=-1407/0	
WEBS	19-20=-20/551, 5-19=0/1046, 6-15=0/1046, 13-15=-20/550, 3-20=-582/160, 8-13=-583/160, 17-18=-274/22, 18-19=0/1463, 14-16=-274/22, 14-15=0/1463	
NOTES		

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-0, Interior (1) 17-8-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-8-0, Interior (1) 24-8-0 to 33-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 16-6-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 MT20 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

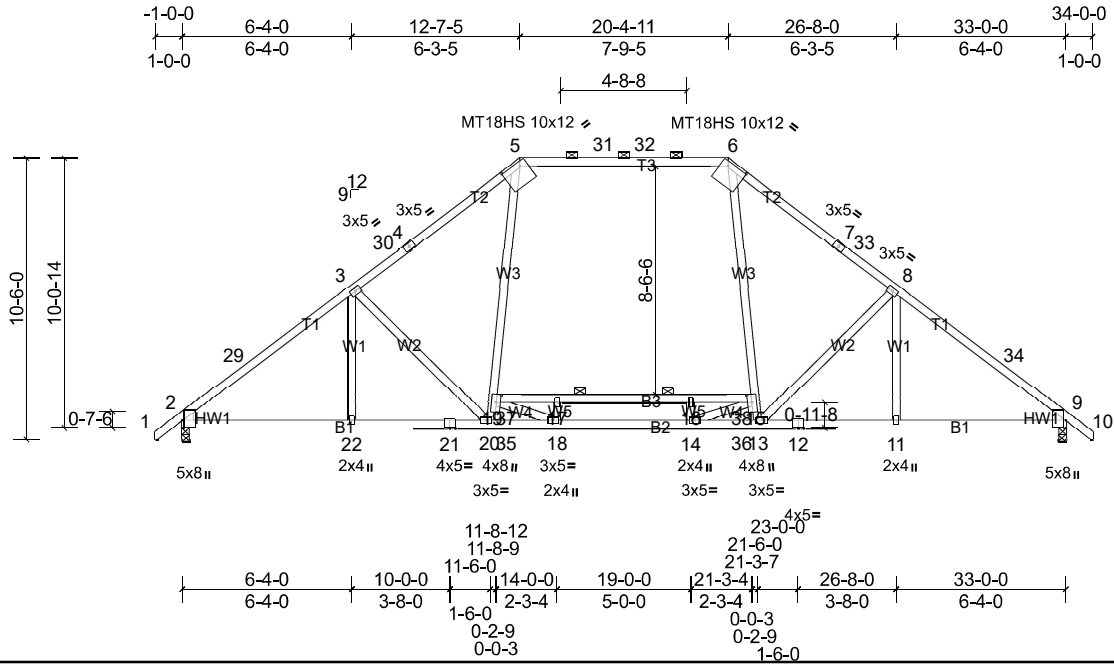
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	A6	Piggyback Base	3	1	

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Scale = 1:86

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-8-11,0-1-14], [6:0-8-11,0-1-14], [9:0-3-8,Edge], [15:0-3-8,0-2-0], [19:0-3-8,0-2-0]

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	0.95	Vert(LL)	-0.52	20-22	>762	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.61	20-22	>645	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 199 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (2-2-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
 10-0-0 oc bracing: 18-20,13-14.
 4-11-0 oc bracing: 15-19

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

REACTIONS (lb/size) 2=1400/0-3-8, (min. 0-2-3),
 9=1400/0-3-8, (min. 0-2-3)

Max Horiz 2=192 (LC 11)

Max Grav 2=1869 (LC 25), 9=1869 (LC 26)

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

TOP CHORD 2-29=-2546/0, 3-29=-2387/0, 3-30=-2230/0,
 4-30=-2166/0, 4-5=-2140/0, 5-31=-1600/0,
 31-32=-1600/0, 6-32=-1600/0, 6-7=-2140/0,
 7-33=-2166/0, 8-33=-2230/0, 8-34=-2387/0,
 9-34=-2546/0

BOT CHORD 2-22=-40/2081, 21-22=0/2081, 20-21=0/2081,
 20-35=0/1744, 18-35=0/1744, 14-18=0/2807,
 14-36=0/1636, 13-36=0/1636, 12-13=0/1960,
 11-12=0/1960, 9-11=0/1960, 19-37=-1396/0,
 17-37=-1396/0, 16-17=-1396/0,
 16-38=-1396/0, 15-38=-1396/0

WEBS 3-20=-480/152, 19-20=-12/468, 5-19=0/960,
 6-15=0/960, 13-15=-12/467, 8-13=-480/153,
 17-18=-277/25, 18-19=0/1473,
 14-16=-277/24, 14-15=0/1473

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 12-7-5, Exterior(2R) 12-7-5 to 17-3-5, Interior (1) 17-3-5 to 20-4-11, Exterior(2R) 20-4-11 to 25-0-11, Interior (1) 25-0-11 to 33-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 16-6-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x5 MT20 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

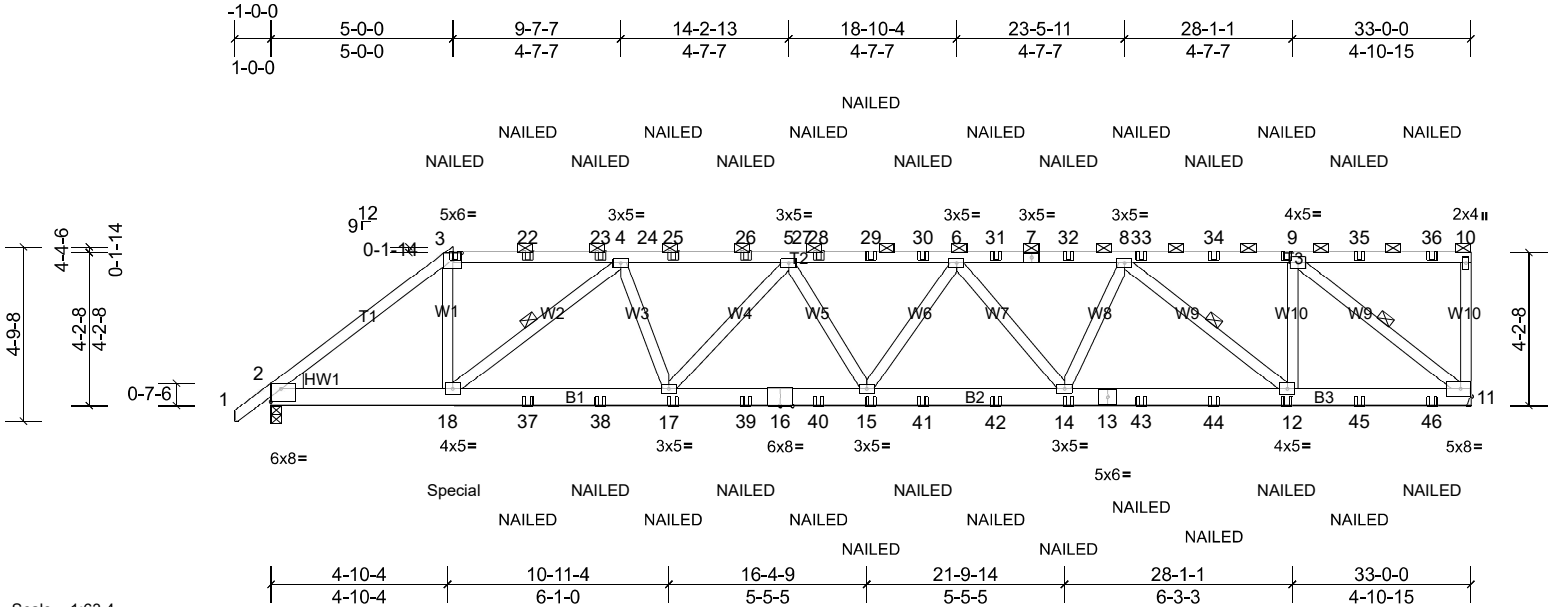
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A7	Half Hip Girder	1	1	Job Reference (optional)

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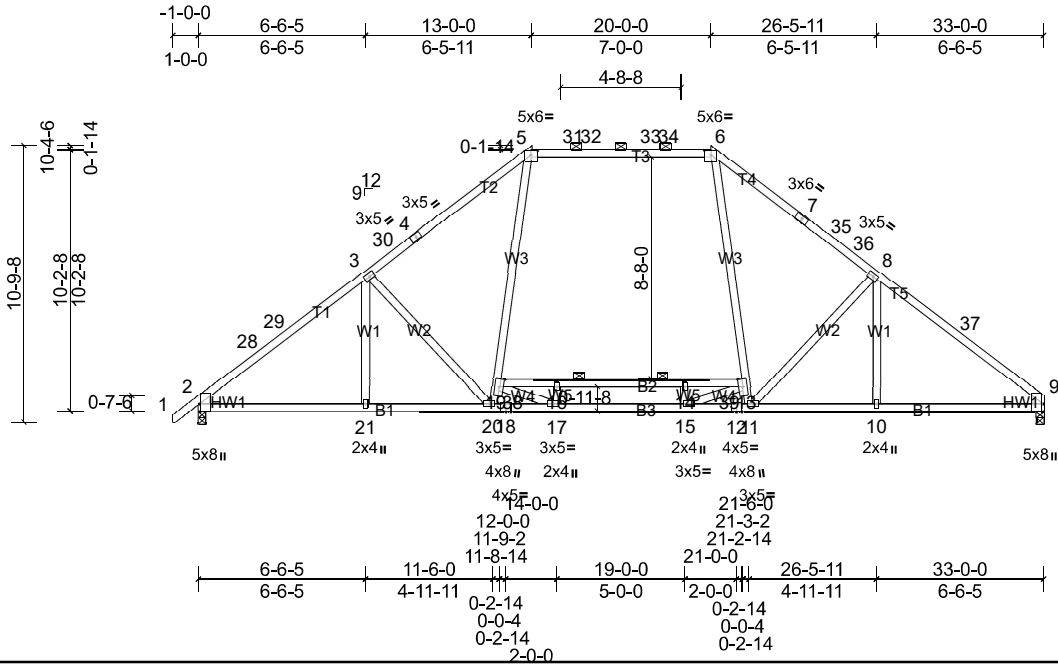
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Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A8	Hip	1	1	Job Reference (optional)



Scale = 1:89.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2], [9:0-3-8,Edge], [13:0-3-12,0-2-0], [19:0-3-12,0-2-0]

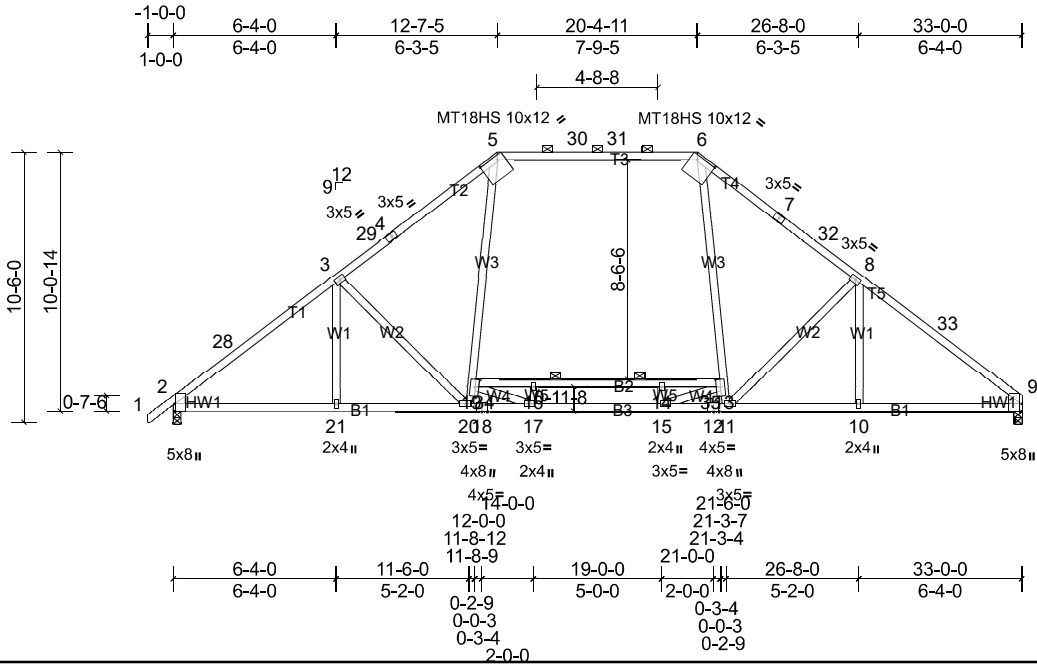
loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.48	20-21	>830	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.56	20-21	>703	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
Weight: 198 lb											FT = 20%	

LUMBER		
TOP CHORD	2x4 SP No.1 *Except* T3:2x4 SP 2400F	
	2.OE, T1,T5:2x4 SP No.2	
BOT CHORD	2x4 SP No.1 *Except* B3,B2:2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	
WEDGE	Left: 2x4 SP No.3	
	Right: 2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied, except	
	2-0-0 oc purlins (5-5-14 max.): 5-6.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:	
	2-2-0 oc bracing: 15-17.	
	4-11-0 oc bracing: 13-19	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	
REACTIONS		
(lb/size)	2=1396/0-3-8, (min. 0-2-5),	
	9=1349/0-3-8, (min. 0-2-5)	
Max Horiz	2=191 (LC 14)	
Max Grav	2=1984 (LC 48), 9=1942 (LC 50)	
FORCES		
(lb) - Max. Comp./Max. Ten. - All forces	250	
(lb) or less except when shown.		
TOP CHORD	2-28=-2746/0, 28-29=-2674/0, 3-29=-2561/0,	
	3-30=-2399/0, 4-30=-2311/0, 4-5=-2240/0,	
	5-31=-1655/6, 31-32=-1655/6,	
	32-33=-1655/6, 33-34=-1655/6,	
	6-34=-1655/6, 6-7=-2235/0, 7-35=-2269/0,	
	35-36=-2319/0, 8-36=-2400/0, 8-37=-2566/0,	
	9-37=-2753/0	
BOT CHORD	2-21=-47/2242, 20-21=0/2242, 18-20=0/1806,	
	17-18=0/1806, 15-17=0/2862, 12-15=0/1694,	
	11-12=0/1694, 10-11=0/2125, 9-10=0/2125,	
	19-38=-1404/0, 16-38=-1404/0,	
	14-16=-1404/0, 14-39=-1404/0,	
	13-39=-1404/0	
WEBS	3-20=-581/160, 19-20=-21/554, 5-19=0/1050,	
	6-13=0/1053, 11-13=-24/557, 8-11=-588/162,	
	16-17=-275/23, 17-19=0/1458,	
	14-15=-276/23, 13-15=0/1460	
NOTES		

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-0, Interior (1) 17-8-0 to 20-0-0, Exterior(2R) 20-0-0 to 24-8-0, Interior (1) 24-8-0 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 16-6-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A9	Piggyback Base	2	1	Job Reference (optional)



Scale = 1:89.6

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-8-11,0-1-14], [6:0-8-11,0-1-14], [9:0-3-8,Edge], [13:0-3-8,0-2-0], [19:0-3-8,0-2-0]

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	0.94	Vert(LL)	-0.52	10-11	>759	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.62	10-11	>641	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 197 lb	FT = 20%

- LUMBER

TOP CHORD

2x4 SP No.2 *Except* T3:2x4 SP No.1

BOT CHORD

2x4 SP No.2

WEBS

2x4 SP No.3 *Except* W3:2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied, except

BOT CHORD

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

4-11-0 oc bracing: 13-19

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

REACTIONS

(lb/size)

2=1401/0-3-8, (min. 0-2-3),

9=1354/0-3-8, (min. 0-2-2)

Max Horiz

2=187 (LC 10)

Max Grav

2=1871 (LC 25), 9=1818 (LC 26)

FORCES

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

TOP CHORD

2-28=-2550/0, 3-28=-2391/0, 3-29=-2234/0,

4-29=-2170/0, 4-5=-2144/0, 5-30=-1603/0,

30-31=-1603/0, 6-31=-1603/0, 6-7=-2142/0,

7-32=-2142/0, 8-32=-2235/0, 8-33=-2395/0,

9-33=-2554/0

BOT CHORD

2-21=-47/2077, 20-21=0/2077, 18-20=0/1739,

17-18=0/1739, 15-17=0/2804, 12-15=0/1640,

11-12=0/1640, 10-11=0/1967, 9-10=0/1967,

19-34=-1397/0, 16-34=-1397/0,

14-16=-1397/0, 14-35=-1397/0,

13-35=-1397/0

WEBS

3-20=-479/152, 8-11=-486/153,

19-20=-12/470, 5-19=0/962, 6-13=0/963,

11-13=-16/470, 16-17=-278/25,

17-19=0/1475, 14-15=-277/24, 13-15=0/1473

NOTES

1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.

II; Exp B; Enclosed; MWFRS (envelope) and C-C

Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 12-7-5,

Exterior(2R) 12-7-5 to 17-3-5, Interior (1) 17-3-5 to

20-4-11, Exterior(2R) 20-4-11 to 25-0-11, Interior (1)

25-0-11 to 33-0-0 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=1.33

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum

DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully

Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat

roof snow load governs. Rain surcharge applied to all

exposed surfaces with slopes less than 0.500/12 in

accordance with IBC 1608.3.4.

4) This truss has been designed for greater of min roof live

load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on

overhangs non-concurrent with other live loads.

5) 200.0lb AC unit load placed on the bottom chord, 16-6-0

from left end, supported at two points, 5-0-0 apart.

6) Provide adequate drainage to prevent water ponding.

7) All plates are MT20 plates unless otherwise indicated.

8) All plates are 3x5 MT20 unless otherwise indicated.

9) * 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.

10) This truss is designed in accordance with the 2018

International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

11) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

bottom chord.
- LOAD CASE(S) Standard

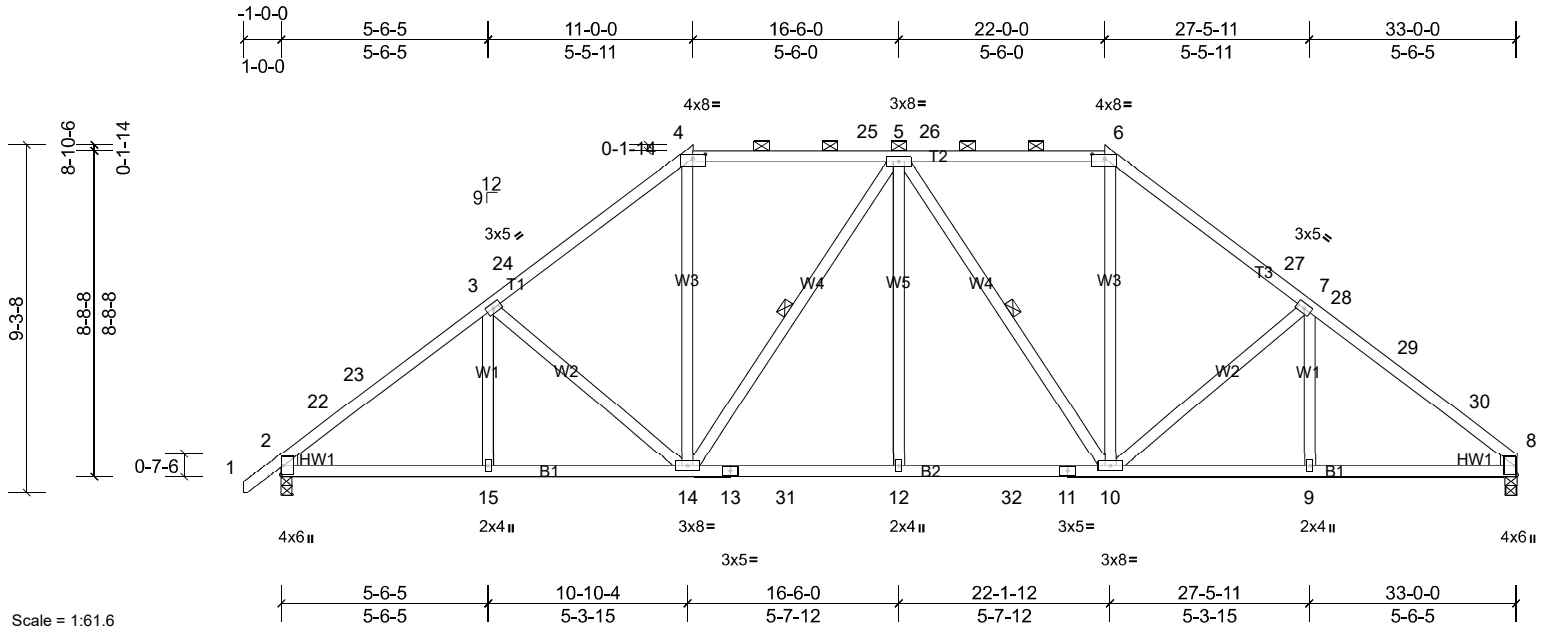
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A10	Hip	1	1	Job Reference (optional)

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Scale = 1:61.6

Plate Offsets (X, Y): [4:0-4-0,0-1-6], [6:0-4-0,0-1-6]

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	0.67	Vert(LL)	-0.11	10-12	>999	240	MT20
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.19	10-12	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.08	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 207 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except 2-0-0 oc purlins (4-7-7 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-10

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

REACTIONS

(lb/size) 2=1218/0-3-8, (min. 0-1-14),
8=1172/0-3-8, (min. 0-1-13)
Max Horiz 2=162 (LC 14)
Max Grav 2=1579 (LC 46), 8=1539 (LC 46)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-2142/68, 22-23=-2119/75,
3-23=-1957/98, 3-24=-1749/119,
4-24=-1619/154, 4-25=-1292/169,
5-25=-1294/169, 5-26=-1294/167,
6-26=-1292/168, 6-27=-1620/159,
7-27=-1750/124, 7-28=-1938/106,
28-29=-1960/103, 29-30=-2048/85,
8-30=-2146/76
BOT CHORD 2-15=-91/1705, 14-15=-46/1705,
13-14=0/1544, 13-31=0/1544, 12-31=0/1544,
12-32=0/1544, 11-32=0/1544, 10-11=0/1544,
9-10=-19/1639, 8-9=-19/1639
WEBS 3-14=-509/100, 4-14=0/713, 5-14=-464/80,
5-12=0/322, 5-10=-464/80, 6-10=0/714,
7-10=-514/101

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 11-0-0, Exterior(2R) 11-0-0 to 15-8-0, Interior (1) 15-8-0 to 22-0-0, Exterior(2R) 22-0-0 to 26-8-0, Interior (1) 26-8-0 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

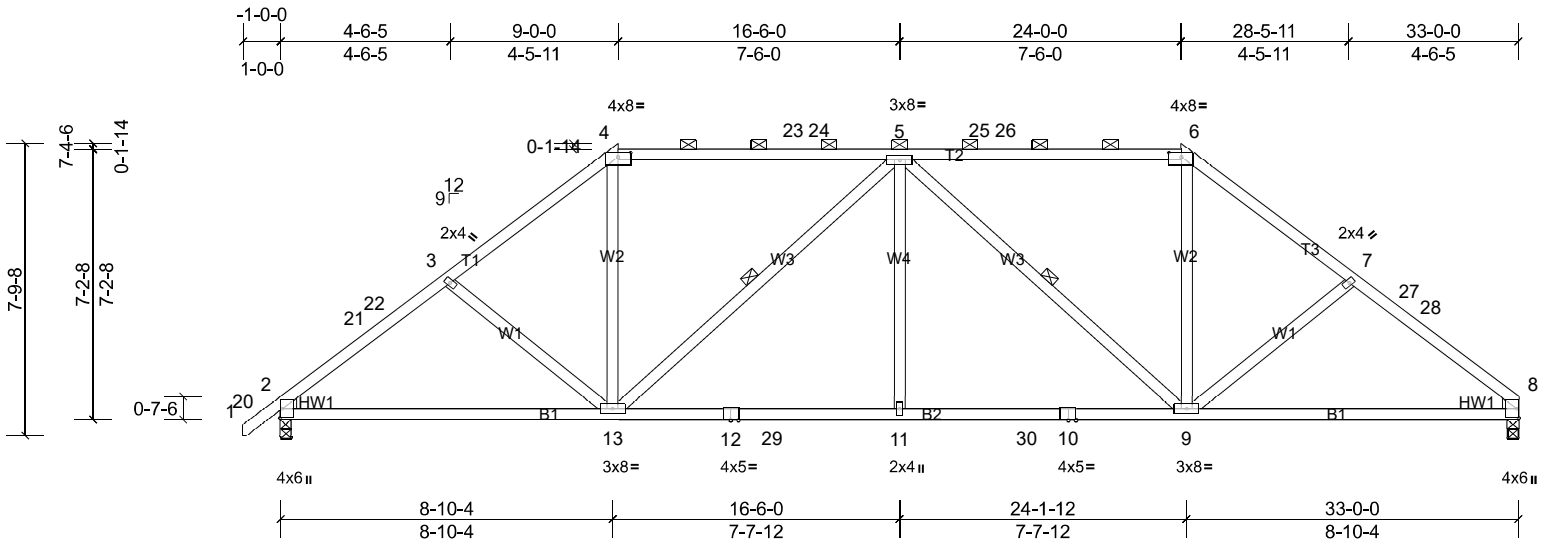
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A11	Hip	1	1	Job Reference (optional)

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Scale = 1:61.4									
Plate Offsets (X, Y): [4:0-4-0,0-1-6], [6:0-4-0,0-1-6]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	I/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.16 11-13	>999	240
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.27 11-13	>999	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.09 8	n/a	n/a
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH					
BCDL	10.0								
									PLATES
									GRIP
									MT20 244/190
									Weight: 184 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-9
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1238/0-3-8, (min. 0-1-13), 8=1192/0-3-8, (min. 0-1-12)
Max Horiz 2=134 (LC 12)
Max Grav 2=1555 (LC 46), 8=1495 (LC 46)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-2005/92, 21-22=-1944/106, 3-22=-1932/117, 3-4=-1907/122, 4-23=-1512/140, 23-24=-1513/140, 5-24=-1514/139, 5-25=-1515/138, 25-26=-1513/138, 6-26=-1513/139, 6-7=-1909/129, 7-27=-1935/117, 27-28=-1939/108, 8-28=-2009/92
BOT CHORD 2-13=-90/1570, 12-13=0/2075, 12-29=0/2075, 11-29=0/2075, 11-30=0/2075, 10-30=0/2075, 9-10=0/2075, 8-9=-40/1548
WEBS 3-13=-317/119, 4-13=0/807, 5-13=-759/80, 5-11=0/414, 5-9=-758/80, 6-9=0/808, 7-9=-322/119

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-0, Interior (1) 13-8-0 to 24-0-0, Exterior(2R) 24-0-0 to 28-7-1, Interior (1) 28-7-1 to 33-0-0 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

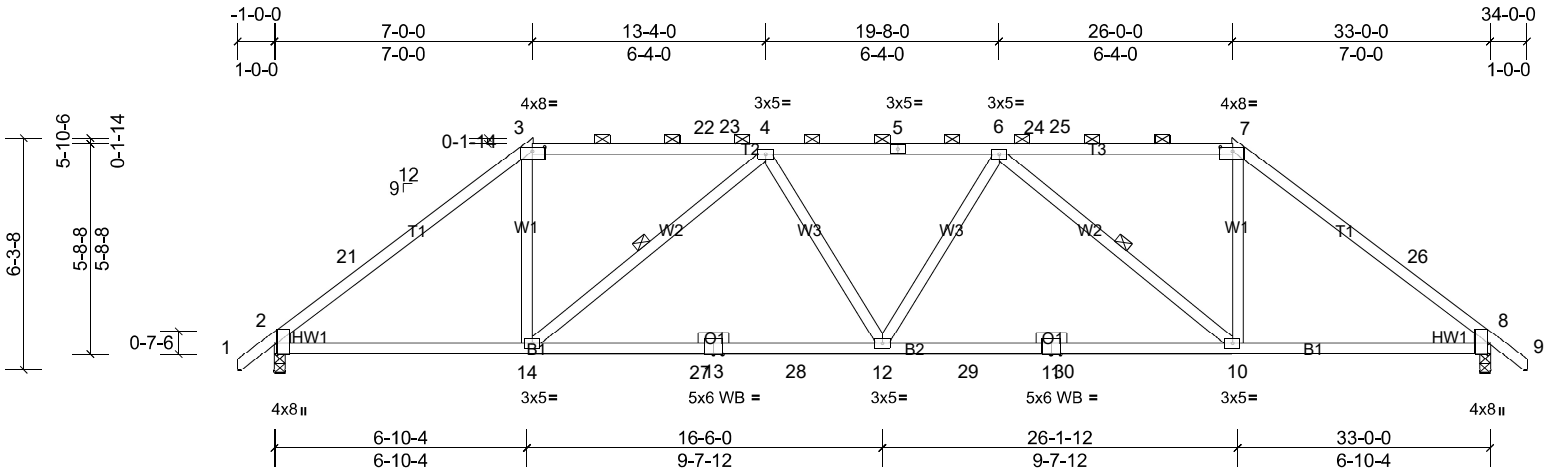
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	A12	Hip	1	1	Job Reference (optional)

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Scale = 1:62.6

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

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	0.97	Vert(LL)	-0.28	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.48	12-14	>830	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.10	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 169 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP 2400F 2.0E
 - WEBS 2x4 SP No.3
 - OTHERS 2x4 SP No.3
 - WEDGE Left: 2x4 SP No.3
 - Right: 2x4 SP No.3

- BRACING**
- TOP CHORD Structural wood sheathing directly applied, except
 - 2-0-0 oc purlins (2-7-4 max.): 3-7.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 - WEBS 1 Row at midpt 4-14, 6-10
- MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- REACTIONS** (lb/size)
- 2=1258/0-3-8, (min. 0-1-13), 8=1258/0-3-8, (min. 0-1-13)
 - Max Horiz 2=-111 (LC 13)
 - Max Grav 2=1533 (LC 45), 8=1533 (LC 45)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-21=-2178/56, 3-21=-2149/89, 3-22=-1677/125, 22-23=-1678/124, 4-23=-1678/124, 4-5=-2676/90, 5-6=-2676/90, 6-24=-1678/124, 24-25=-1678/124, 7-25=-1677/125, 7-26=-2149/89, 8-26=-2178/56
 - BOT CHORD 2-14=-711/703, 14-27=-7/2550, 13-27=-7/2550, 13-28=-7/2550, 12-28=-7/2550, 12-29=0/2550, 11-29=0/2550, 11-30=0/2550, 10-30=0/2550, 8-10=0/1703
 - WEBS 3-14=0/997, 4-14=-1165/91, 4-12=0/290, 6-12=0/290, 6-10=-1165/91, 7-10=0/997

- NOTES**
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-4-3, Interior (1) 2-4-3 to 7-0-0, Exterior(2R) 7-0-0 to 11-8-0, Interior (1) 11-8-0 to 26-0-0, Exterior(2R) 26-0-0 to 30-8-0, Interior (1) 30-8-0 to 33-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

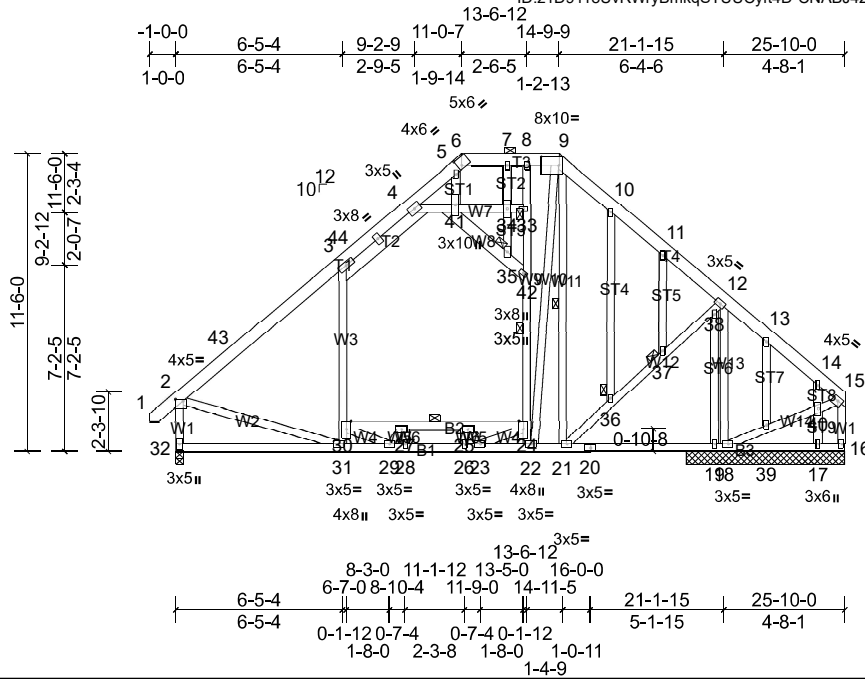
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	B1	Attic Structural Gable	1	1	Job Reference (optional)

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Scale = 1:89

Plate Offsets (X, Y): [2:0-3-8,0-0-12], [6:0-1-12,0-3-10], [9:0-8-4,0-4-0]

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	0.73	Vert(LL)	-0.13	30	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.26	31-32	>935	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	18	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.07	24-30	>999	360		
BCDL	10.0											
											Weight: 302 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W9,W10,W11,W7:2x4
SP No.2, W8:2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 24-30
WEBS 1 Row at midpt 24-33, 9-21
JOINTS 1 Brace at Jt(s): 33, 35, 36, 37

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

REACTIONS All bearings 6-1-8, except 32=0-3-8
(lb) - Max Horiz 32=236 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17 except 18=317 (LC 11)
Max Grav All reactions 250 (lb) or less at joint (s) 17, 18 except 16=1040 (LC 26), 19=384 (LC 33), 32=1430 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-43=-1348/0, 3-43=-1175/0, 3-44=-1062/56, 4-44=-1046/84, 4-5=-899/102, 5-6=-792/124, 6-7=-807/133, 7-8=-807/133, 8-9=-844/138, 9-10=-1018/129, 10-11=-1079/109, 11-12=-1143/92, 12-13=-1058/142, 13-14=-1137/130, 14-15=-1035/86, 2-32=-1343/0, 15-16=-1035/79
BOT CHORD 31-32=-217/304, 29-31=-1/1157, 28-29=0/1555, 26-28=0/1555, 23-26=0/1555, 22-23=0/625, 21-22=0/858, 20-21=-93/841, 19-20=-93/841, 18-19=-93/841, 27-30=-655/0, 25-27=-744/0, 24-25=-365/44

WEBS 24-42=-61/277, 9-22=-16/462, 12-18=-376/61, 2-31=0/804, 18-39=-75/903, 39-40=-73/894, 15-40=-77/924, 34-35=-47/256, 29-30=0/598, 25-26=-39/334, 23-25=-743/9, 23-24=0/665

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-9-13 to 2-2-3, Interior (1) 2-2-3 to 11-0-7, Exterior(2E) 11-0-7 to 14-9-9, Exterior(2R) 14-9-9 to 18-9-9, Interior (1) 18-9-9 to 25-8-4 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=1.33
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 4-41, 34-41, 33-34
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-30, 25-27, 24-25

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18, 16, and 17. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

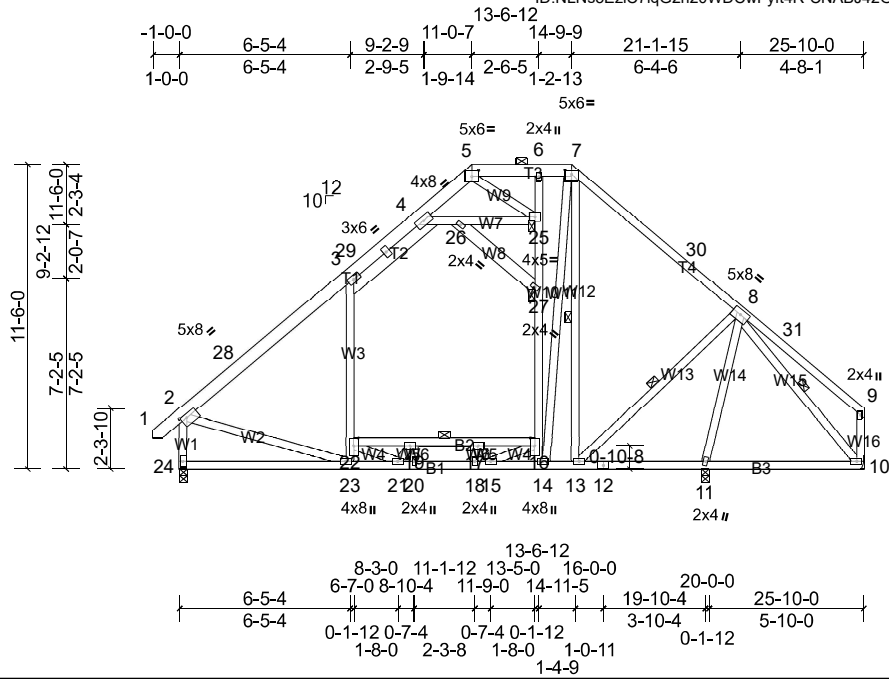
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	B2	Attic	2	1	Job Reference (optional)

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Scale = 1:87

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [5:0-3-0,0-2-12], [7:0-3-0,0-2-1]

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	0.63	Vert(LL)	-0.11	22	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.23	23-24	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.06	16-22	>999	360		
BCDL	10.0											
											Weight: 259 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* T4:2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W10,W11,W12,W7:2x4
SP No.2, W8:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 16-22
WEBS 1 Row at midpt 7-13, 8-13, 8-10
JOINTS 1 Brace at Jt(s): 25, 27

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

REACTIONS (lb/size) 10=844/ Mechanical, (min. 0-1-8), 11=228/0-3-8, (min. 0-1-8), 24=1097/0-3-8, (min. 0-1-11)
Max Horiz 24=238 (LC 12)
Max Uplift 10=52 (LC 13), 11=156 (LC 9)
Max Grav 10=1189 (LC 26), 11=491 (LC 33), 24=1436 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-28=-1373/0, 3-28=-1218/0, 3-29=-1087/67, 4-29=-1071/101, 4-5=-527/82, 5-6=-895/147, 6-7=-885/155, 7-30=-1054/147, 8-30=-1159/114, 2-24=-1354/1
BOT CHORD 23-24=-220/292, 21-23=-13/1167, 20-21=0/1602, 18-20=0/1602, 15-18=0/1602, 14-15=0/707, 13-14=0/855, 12-13=-122/864, 11-12=-122/864, 10-11=-102/836, 19-22=-629/0, 17-19=-745/0, 16-17=-394/23
WEBS 3-22=-42/252, 14-16=-485/19, 16-27=-277/108, 6-25=-484/141, 7-14=-16/823, 8-11=-382/256, 4-26=-656/75, 25-26=-470/78, 2-23=0/853, 8-10=-1306/122, 5-25=-79/733, 21-22=0/598, 15-16=0/670, 17-18=-31/290, 15-17=-679/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 11-0-7, Exterior(2E) 11-0-7 to 14-9-9, Exterior(2R) 14-9-9 to 19-0-7, Interior (1) 19-0-7 to 25-8-4 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=1.33
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x5 MT20 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 (10.0 psf) on member(s). 3-4, 4-26, 25-26
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-22, 17-19, 16-17
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 10.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.
LOAD CASE(S) Standard

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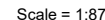
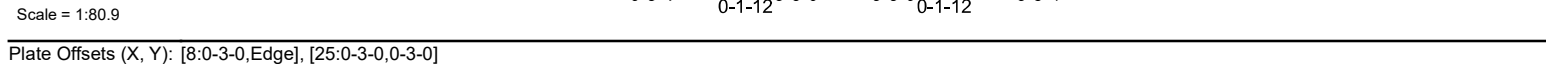


Plate Offsets (X, Y): [2:0-3-0,0-1-12], [5:0-3-0,0-2-12], [7:0-3-0,0-2-1]

LUMBER		WEBS	3-22=-42/252, 14-16=-488/20, 16-28=-279/110, 6-25=-486/142, 7-14=-19/823, 8-11=-356/279, 4-27=-655/74, 25-27=-469/78, 2-23=0/852, 8-10=-1325/136, 5-25=-79/731, 21-22=0/598, 15-16=0/671, 17-18=-32/290, 15-17=-679/0
TOP CHORD	2x6 SP 2400F 2.0E *Except* T4:2x4 SP No.2		
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.3		
WEBS	2x4 SP No.3 *Except* W10,W11,W12,W7:2x4 SP No.2, W8:2x6 SP No.2		
OTHERS	2x4 SP No.3		
BRACING		NOTES	
TOP CHORD	Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.	1) Unbalanced roof live loads have been considered for this design.	1) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 10. This connection is for uplift only and does not consider lateral forces.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 16-22	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 11-0-7, Exterior(2E) 11-0-7 to 14-9-9, Exterior(2R) 14-9-9 to 19-0-7, Interior (1) 19-0-7 to 25-3-4 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=1.33	12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
WEBS	1 Row at midpt 7-13, 8-13, 8-10	3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.	13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
JOINTS	1 Brace at Jt(s): 25, 28 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 5) Provide adequate drainage to prevent water ponding. 6) All plates are 3x5 MT20 unless otherwise indicated. 7) * 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. 8) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-27, 25-27 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-22, 17-19, 16-17 10) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.	14) Attic room checked for L/360 deflection. LOAD CASE(S) Standard
REACTIONS (lb/size)	10=855/0-3-8, (min. 0-1-8), 11=193/0-3-8, (min. 0-1-8), 24=1096/0-3-8, (min. 0-1-11) Max Horiz 24=242 (LC 10) Max Uplift 10=-56 (LC 13), 11=-169 (LC 9) Max Grav 10=1214 (LC 26), 11=460 (LC 33), 24=1434 (LC 26)		
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-29=-1370/0, 3-29=-1215/0, 3-30=-1084/64, 4-30=-1068/98, 4-5=-525/80, 5-6=-893/144, 6-7=-882/152, 7-31=-1051/142, 8-31=-1155/110, 2-24=-1352/1		
BOT CHORD	23-24=-223/292, 21-23=-28/1165, 20-21=0/1600, 18-20=0/1600, 15-18=0/1600, 14-15=0/704, 13-14=0/852, 12-13=-131/853, 11-12=-131/853, 10-11=-110/815, 19-22=-629/0, 17-19=-745/0, 16-17=-394/24		

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LUMBER		4) TALL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
TOP CHORD	2x6 SP 2400F 2.0E	
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.3	
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	
OTHERS	2x4 SP No.3	
BRACING		5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	6) All plates are 2x4 MT20 unless otherwise indicated.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	7) Gable requires continuous bottom chord bearing.
REACTIONS		8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
All bearings 20-0-0.		9) Gable studs spaced at 2-0-0 oc.
(lb) - Max Horiz 33=216 (LC 12)		10) * 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.
Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 30, 31 except 16=-141 (LC 10), 17=-151 (LC 9), 32=-158 (LC 10), 33=-150 (LC 9)		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 30, 31, 19, 18 except (jt=lb) 33=149, 16=140, 32=157, 17=151.
Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 23, 25, 27, 30, 31 except 16=275 (LC 26), 17=271 (LC 27), 20=273 (LC 28), 29=273 (LC 29), 32=276 (LC 26), 33=282 (LC 27)		12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
FORCES		13) Attic room checked for L/360 deflection.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	4-5=-116/276, 5-6=-137/315, 10-11=-137/315, 11-12=-116/276	LOAD CASE(S) Standard
WEBS	7-9=-149/609	

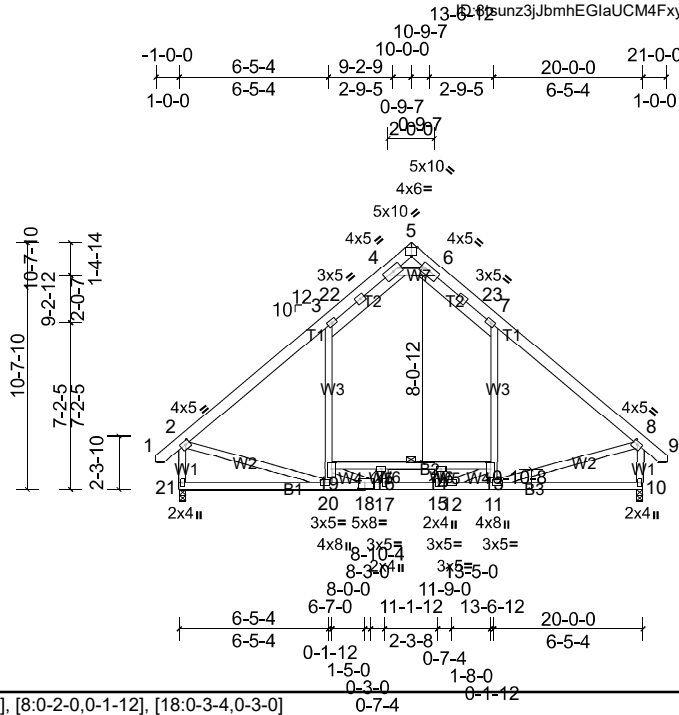
- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-9-13 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 20-9-13 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=1.33
 - 3) 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.

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	C2	Attic	1	1	Job Reference (optional)

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Scale = 1:99.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [5:0-3-0,Edge], [8:0-2-0,0-1-12], [18:0-3-4,0-3-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.07	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.12	20-21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.05	13-19	>999	360		
BCDL	10.0										Weight: 183 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* W7:2x4 SP No.2

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. Except:
6-0-0 oc bracing: 13-19

REACTIONS (lb/size) 10=864/0-3-8, (min. 0-1-8),
21=864/0-3-8, (min. 0-1-8)
Max Horiz 21=-216 (LC 11)
Max Grav 10=1110 (LC 27), 21=1110 (LC 26)

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

TOP CHORD 2-3=-1093/0, 3-22=-746/69, 4-22=-650/98,
4-5=-178/893, 5-6=-178/892, 6-23=-650/98,
7-23=-747/70, 7-8=-1093/0, 2-21=-1053/25,
8-10=-1053/25

BOT CHORD 20-21=-198/266, 18-20=0/827, 17-18=0/1423,
15-17=0/1423, 12-15=0/1423, 11-12=0/740,
16-19=-453/0, 14-16=-760/0, 13-14=-531/0
WEBS 7-13=0/345, 3-19=0/345, 4-6=-1848/344,
2-20=0/758, 8-11=0/759, 18-19=0/528,
12-13=0/598, 16-18=-442/0, 12-14=-416/5

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-13 to 2-2-3, Interior (1) 2-2-3 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 20-9-13 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-19, 14-16, 13-14
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

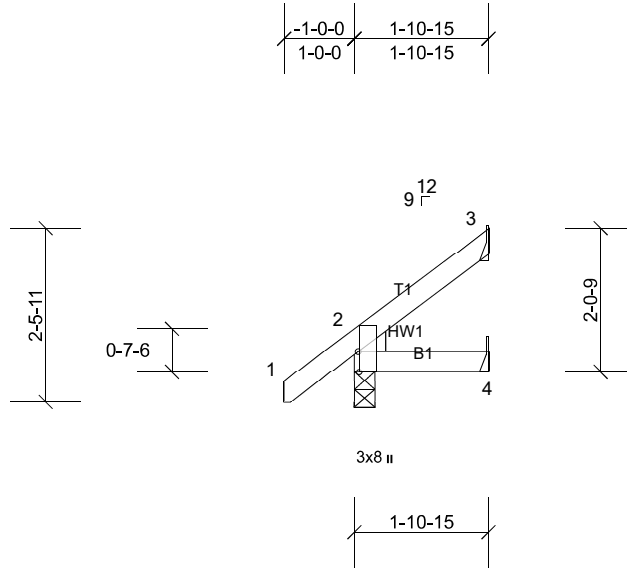
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	CJ1	Jack-Open	6	1	Job Reference (optional)

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Scale = 1:32.8

Plate Offsets (X, Y): [2'-0-3-8,Edge]

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	0.08	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 1'-10-15 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=121/0-3-8, (min. 0-1-8), 3=34/
Mechanical, (min. 0-1-8), 4=19/
Mechanical, (min. 0-1-8)
Max Horiz 2=51 (LC 13)
Max Uplift 3=20 (LC 23)
Max Grav 2=147 (LC 2), 3=45 (LC 25), 4=23
(LC 25)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

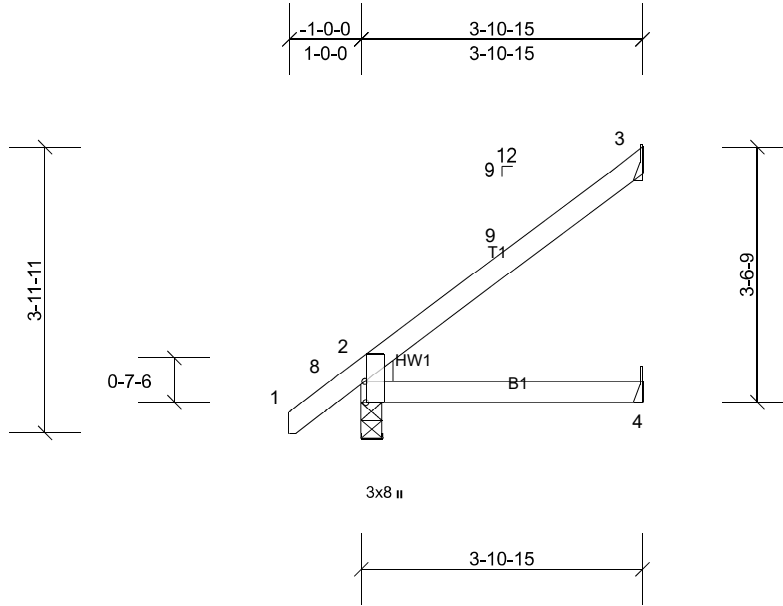
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	CJ2	Jack-Open	6	1	Job Reference (optional)

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Scale = 1:32.1

Plate Offsets (X, Y): [2:0-3-8,Edge]

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	0.20	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

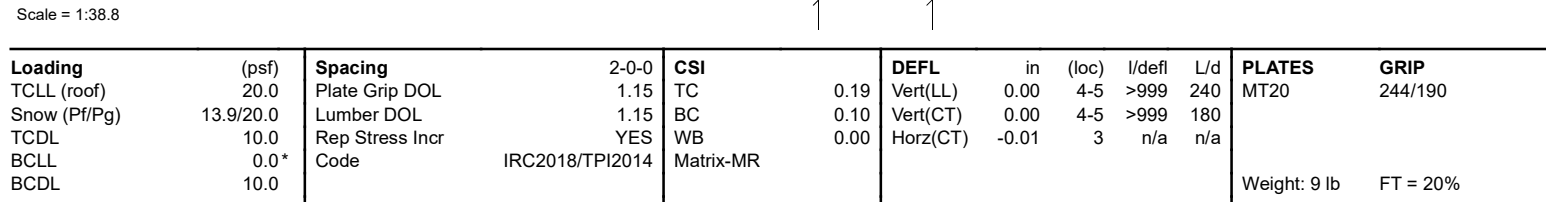
REACTIONS (lb/size) 2=181/0-3-8, (min. 0-1-8), 3=78/
Mechanical, (min. 0-1-8), 4=46/
Mechanical, (min. 0-1-8)
Max Horiz 2=88 (LC 13)
Max Uplift 3=43 (LC 13)
Max Grav 2=218 (LC 2), 3=104 (LC 25), 4=52 (LC 25)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-0-9, Interior (1) 2-0-9 to 3-10-3 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

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BRACING		6) Refer to girder(s) for truss to truss connections.
TOP CHORD	Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4 and 15 lb uplift at joint 3.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
	MiTék recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and

REACTIONS		R802.10.2 and referenced standard ANSI/TPI 1.	
(lb/size)	3=27/ Mechanical, (min. 0-1-8), 4=15/ Mechanical, (min. 0-1-8), 5=131/0-3-8, (min. 0-1-8)	LOAD CASE(S)	Standard
Max Horiz	5=35 (LC 12)		
Max Uplift	3=-15 (LC 15), 4=-1 (LC 12), 5=-28 (LC 11)		
Max Grav	3=36 (LC 22), 4=20 (LC 13), 5=167 (LC 22)		

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

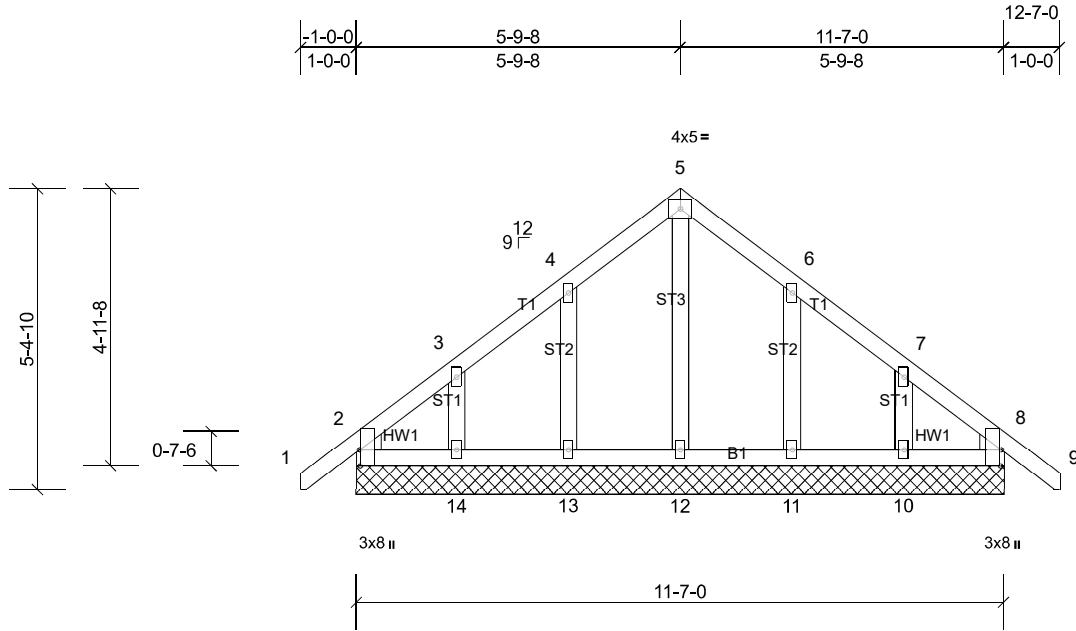
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	D1	Common Supported Gable	1	1	

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Scale = 1:41.2

Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-3-8,Edge]

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 63 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3
	Right: 2x4 SP No.3

BRACING

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

REACTIONS

- All bearings 11'-7".
- (lb) - Max Horiz 2=-92 (LC 11), 15=-92 (LC 11)
- Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 11, 13, 14, 15
- Max Grav All reactions 250 (lb) or less at joint (s) 2, 8, 10, 11, 12, 13, 14, 15, 19

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-11-7 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner (3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-6-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-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, 13, 14, 11, 10, 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	D2	Common	1	1	

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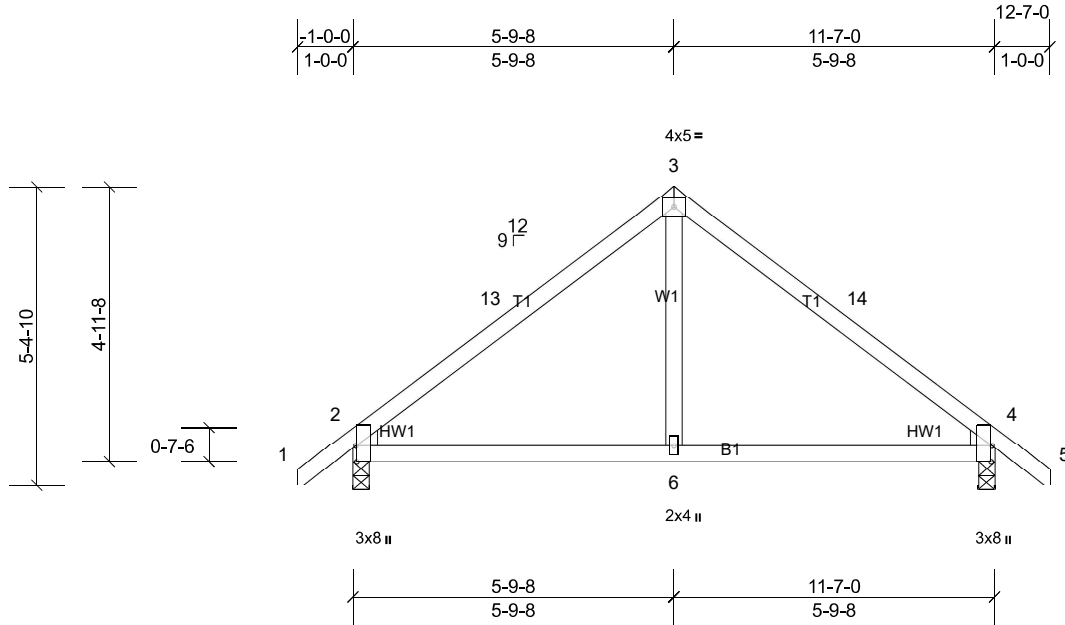


Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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) 2=424/0-3-8, (min. 0-1-8),
 4=424/0-3-8, (min. 0-1-8)
 Max Horiz 2=92 (LC 12)
 Max Grav 2=504 (LC 2), 4=504 (LC 2)

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

TOP CHORD 2-13=-491/111, 3-13=-398/132,
 3-14=-398/132, 4-14=-491/111
 BOT CHORD 2-6=-43/320, 4-6=0/320

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-0-9, Interior (1) 2-0-9 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior (1) 8-9-8 to 12-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

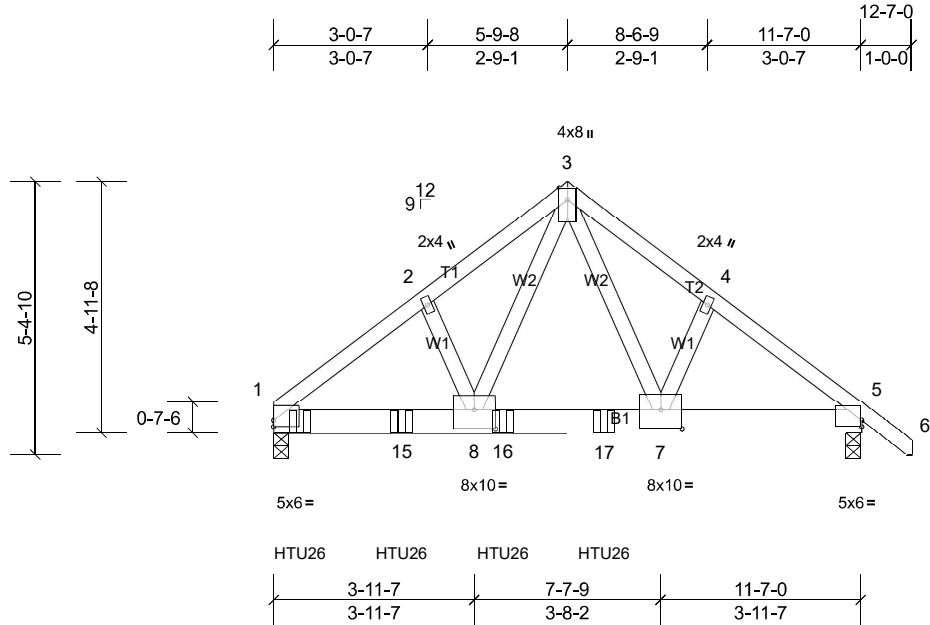
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	D3	Common Girder	1	2	

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Scale = 1:45.5

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.05	7-8	>999	240	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09	7-8	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.72	Horz(CT)	0.01	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 143 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-9-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS	(lb/size)	1=4667/0-3-8, (min. 0-2-0), 5=2572/0-3-8, (min. 0-1-8)
	Max Horiz	1=-88 (LC 7)
	Max Grav	1=4847 (LC 17), 5=2648 (LC 22)

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

TOP CHORD	1-2=-4767/0, 2-3=-4708/0, 3-4=-3956/0, 4-5=-4044/0
BOT CHORD	1-15=0/3822, 8-15=0/3822, 8-16=0/2487, 16-17=0/2487, 7-17=0/2487, 5-7=0/3160
WEBS	3-7=-218/1929, 3-8=0/3517

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: 2x6 - 2 rows staggered at 0-4-0 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 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-6-4 from the left end to 4-6-4 to connect truss(es) A4 (1 ply 2x4 SP), A3 (1 ply 2x4 SP), A2 (1 ply 2x4 SP) to back face of bottom chord.
- Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss) or equivalent at 6-6-4 from the left end to connect truss(es) A7 (1 ply 2x6 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-46, 3-6=-46, 9-12=-19
Concentrated Loads (lb)
Vert: 11=-1427, 15=-1355, 16=-1388, 17=-2265

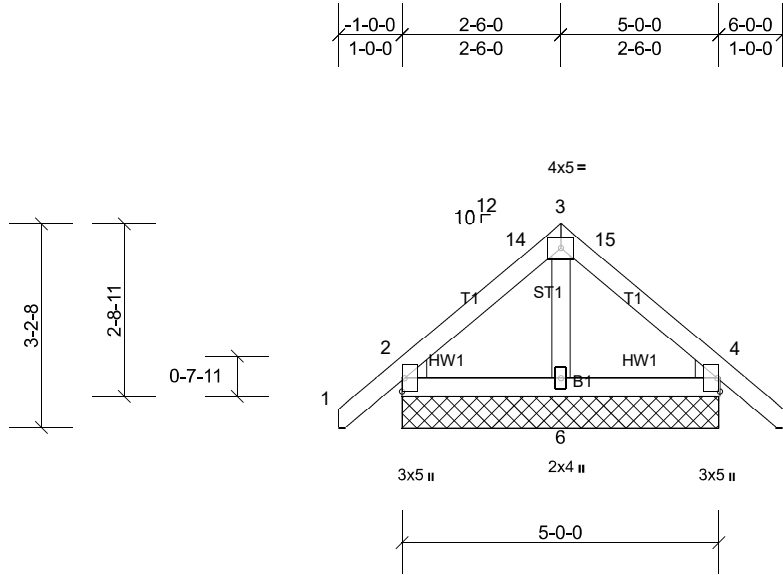
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	E1	Common Supported Gable	1	1	

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Scale = 1:36.4

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

- All bearings 5-0-0.
 (lb) - Max Horiz 2=-52 (LC 11), 7=-52 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
 Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 11

FORCES

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

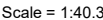
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-11-6 to 2-0-10, Exterior(2N) 2-0-10 to 2-6-0, Corner(3R) 2-6-0 to 5-6-0, Exterior(2N) 5-6-0 to 5-11-6 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=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 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, 4, 2, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard

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LUMBER

- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(lb/size) 2=208/0-3-8, (min. 0-1-8),
4=208/0-3-8, (min. 0-1-8)
Max Horiz 2=-52 (LC 11)
Max Uplift 2=-1 (LC 13), 4=-1 (LC 14)
Max Grav 2=249 (LC 2), 4=249 (LC 2)

FORCES

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Interior(2E)-0-11-6 to 2-0-10, Interior (1) 2-0-10 to 2-6-0, Exterior(2R) 2-6-0 to 5-6-0, Interior (1) 5-6-0 to 5-11-6 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=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) * 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.

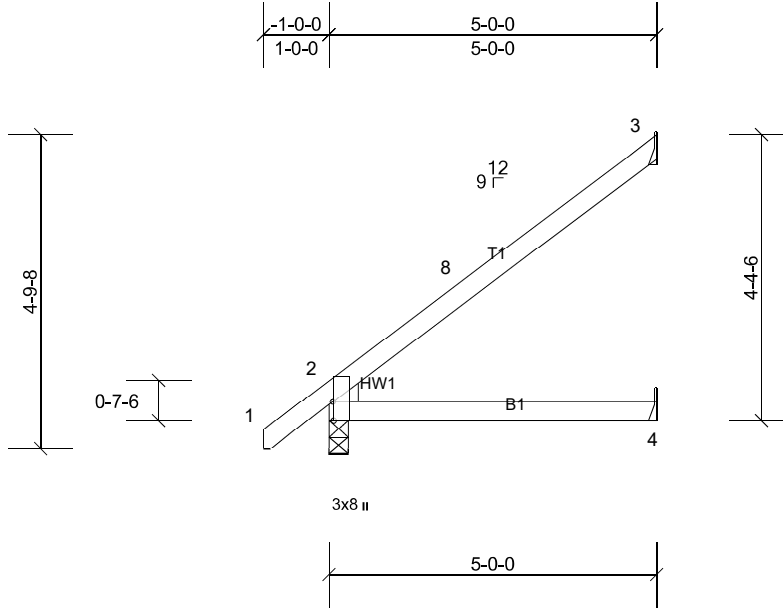
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	EJ1	Jack-Open	28	1	

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Scale = 1:35.2

Plate Offsets (X, Y): [2:0-3-8,Edge]

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	0.36	Vert(LL)	0.05	4-7	>999	240	MT20	244/190	
Snow (Pf/Pg)		13.9/20.0	Lumber DOL		1.15	BC	0.34	Vert(CT)	-0.06	4-7	>956	180			
TCDL		10.0	Rep Stress Incr		YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a			
BCLL		0.0*	Code		IRC2018/TPI2014	Matrix-MP									
BCDL		10.0													
														Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5'-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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=217/0-3-8, (min. 0-1-8), 3=102/
Mechanical, (min. 0-1-8), 4=60/
Mechanical, (min. 0-1-8)
Max Horiz 2=109 (LC 13)
Max Uplift 3=-55 (LC 13)
Max Grav 2=260 (LC 2), 3=135 (LC 25), 4=68 (LC 25)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-7 to 2-0-9, Interior (1) 2-0-9 to 4-11-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

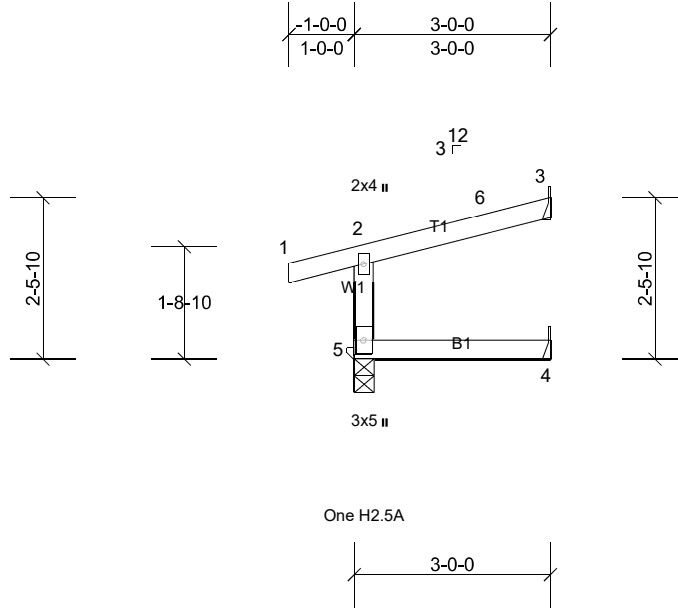
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	EJ2	Jack-Open	1	1	Job Reference (optional)

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Scale = 1:35.2

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	0.27	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 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 (lb/size) 3=56/ Mechanical, (min. 0-1-8), 4=28/ Mechanical, (min. 0-1-8), 5=159/0-3-8, (min. 0-1-8)
Max Horiz 5=40 (LC 12)
Max Uplift 3=-22 (LC 15), 5=-25 (LC 11)
Max Grav 3=77 (LC 22), 4=28 (LC 22), 5=209 (LC 22)

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

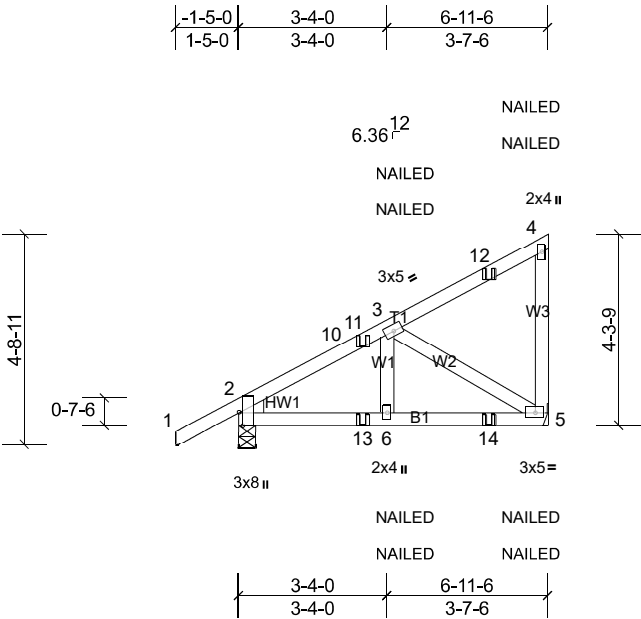
NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 2-0-3, Interior (1) 2-0-3 to 2-11-4 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 3.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	HJ1	Diagonal Hip Girder	3	1	Job Reference (optional)



Scale = 1:51.8

Plate Offsets (X, Y): [2:0-3-8,Edge]

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	0.27	Vert(LL)	-0.01	5-6	>999	240	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	5-6	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 39 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 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 (lb/size) 2=318/0-4-9, (min. 0-1-8), 5=286/
Mechanical, (min. 0-1-8)
Max Horiz 2=122 (LC 10)
Max Uplift 2=-11 (LC 11), 5=-61 (LC 8)
Max Grav 2=382 (LC 2), 5=368 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-408/36, 10-11=-356/32, 3-11=-330/16
BOT CHORD 2-13=-67/311, 6-13=-56/311, 6-14=-56/311, 5-14=-56/311
WEBS 3-5=-358/54

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- 5) * 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 5-7=-20
Concentrated Loads (lb)
Vert: 12=-33, 13=-5, 14=-41

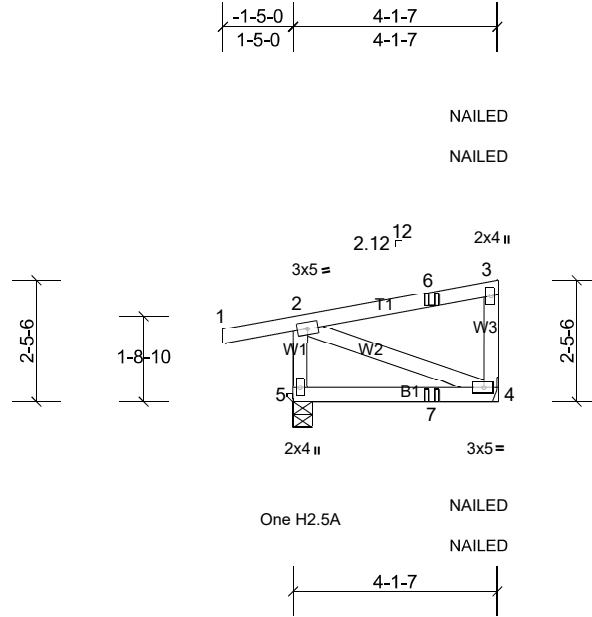
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	HJ2	Diagonal Hip Girder	1	1	

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Scale = 1:46.5

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	0.24	Vert(LL)	0.00	4-5	>999	240	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	4-5	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
Weight: 25 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-7 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 (lb/size) 4=115/ Mechanical, (min. 0-1-8), 5=218/0-4-9, (min. 0-1-8)
Max Horiz 5=62 (LC 8)
Max Uplift 4=-19 (LC 8), 5=-58 (LC 7)
Max Grav 4=142 (LC 18), 5=283 (LC 18)

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

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) * 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 4.

- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 4-5=-20
Concentrated Loads (lb)
Vert: 7=0 (F=0, B=0)

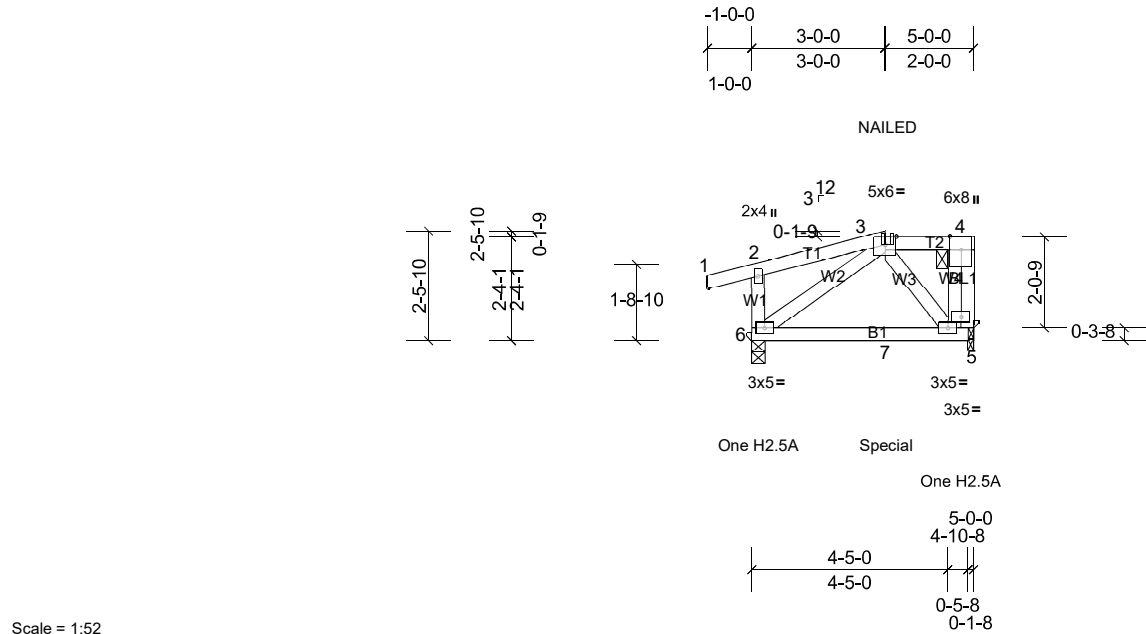
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	M1	Half Hip Girder	1	1	Job Reference (optional)

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Scale = 1:52

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	0.15	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.08	5-6	>711	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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)	5=253/0-1-8, (min. 0-1-8), 6=273/0-3-8, (min. 0-1-8)
	Max Horiz	6=60 (LC 8)
	Max Uplift	5=-38 (LC 8), 6=-52 (LC 7)
	Max Grav	5=261 (LC 29), 6=348 (LC 33)

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

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.

- * 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.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 32 lb up at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 3-4=-58, 5-6=-20
Concentrated Loads (lb)
Vert: 3=-24 (F), 7=-122 (F)

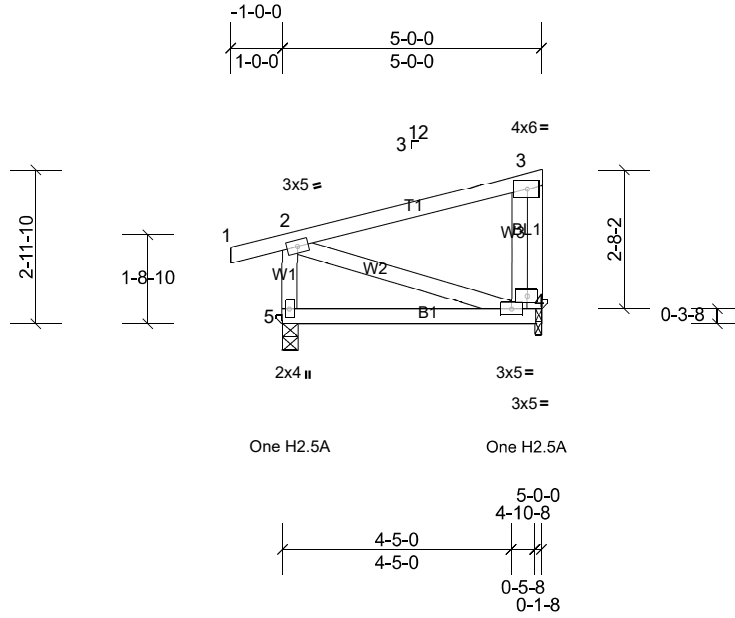
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	M2	Monopitch	3	1	

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Scale = 1:44.5

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	4-5	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
Weight: 32 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 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.

- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size)	4=148/0-1-8, (min. 0-1-8), 5=215/0-3-8, (min. 0-1-8)
Max Horiz	5=77 (LC 12)
Max Uplift	4=-9 (LC 12), 5=-35 (LC 11)
Max Grav	4=192 (LC 22), 5=288 (LC 22)

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 2-0-3, Interior (1) 2-0-3 to 4-8-8 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

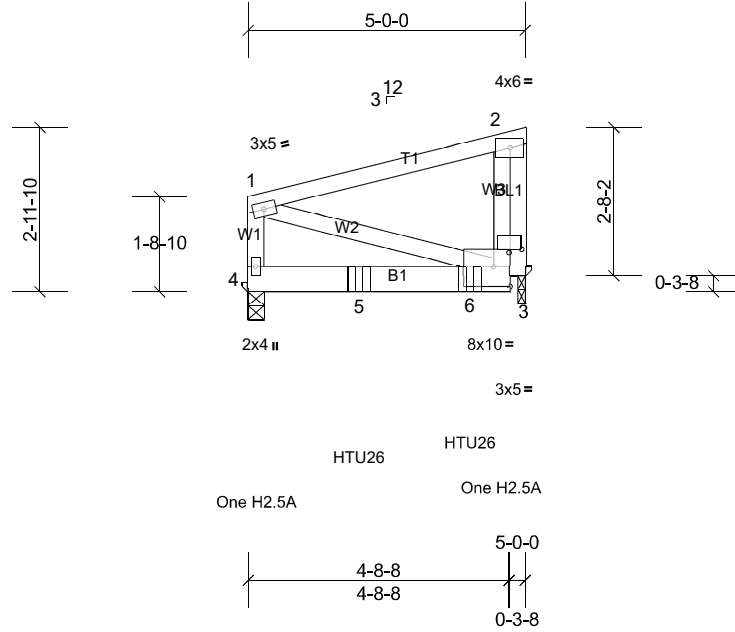
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	M3	Monopitch Girder	1	2	Job Reference (optional)

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Scale = 1:41.6

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

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	0.24	Vert(LL)	-0.04	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.08	3-4	>697	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 67 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS	(lb/size)	3=1215/0-1-8, (min. 0-1-8),
		4=733/0-3-8, (min. 0-1-8)
	Max Horiz	4=69 (LC 8)
	Max Uplift	3=-90 (LC 8), 4=-50 (LC 7)
FORCES	Max Grav	3=1644 (LC 27), 4=984 (LC 25)
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

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: 2x6 - 2 rows staggered at 0-7-0 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed;
Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this design.

- * 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.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 3. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 4-0-0 to connect truss(es) B2 (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-824, 6=-824

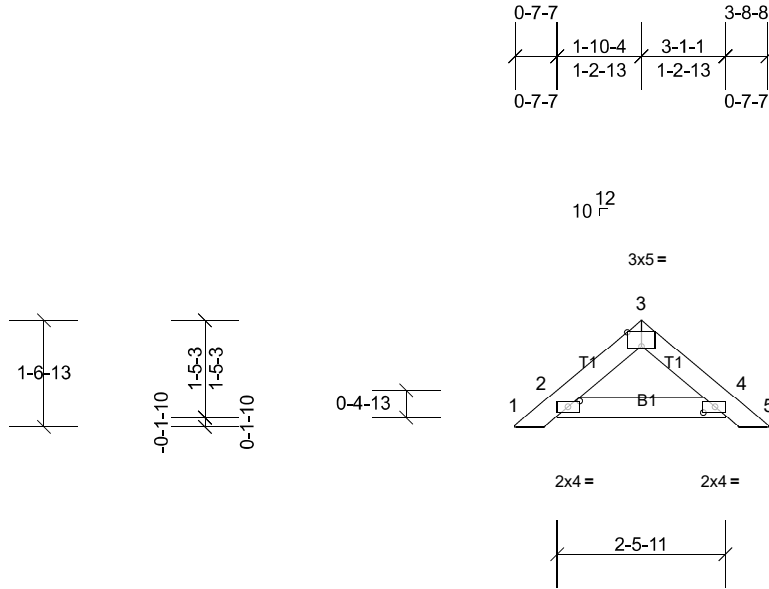
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	PB3	Piggyback	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:33.9

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

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 11 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-2 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

All bearings 2-5-11.
(lb) - Max Horiz 2=26 (LC 12), 6=26 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 10

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

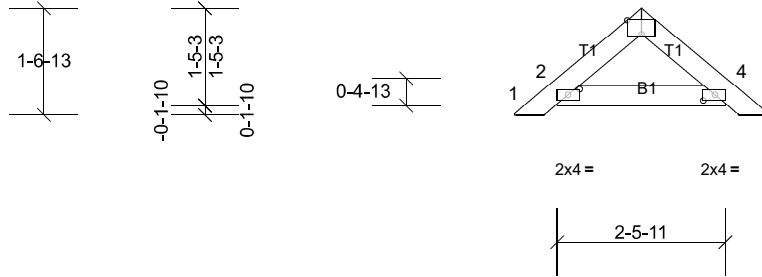
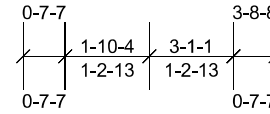
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	PB4	Piggyback	3	1	

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Scale = 1:33.9

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

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-2 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.

- 8) * 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.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

REACTIONS

All bearings 2-5-11.
(lb) - Max Horiz 2=26 (LC 12), 6=26 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 10

FORCES

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 3) 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.

LOAD CASE(S)

Standard

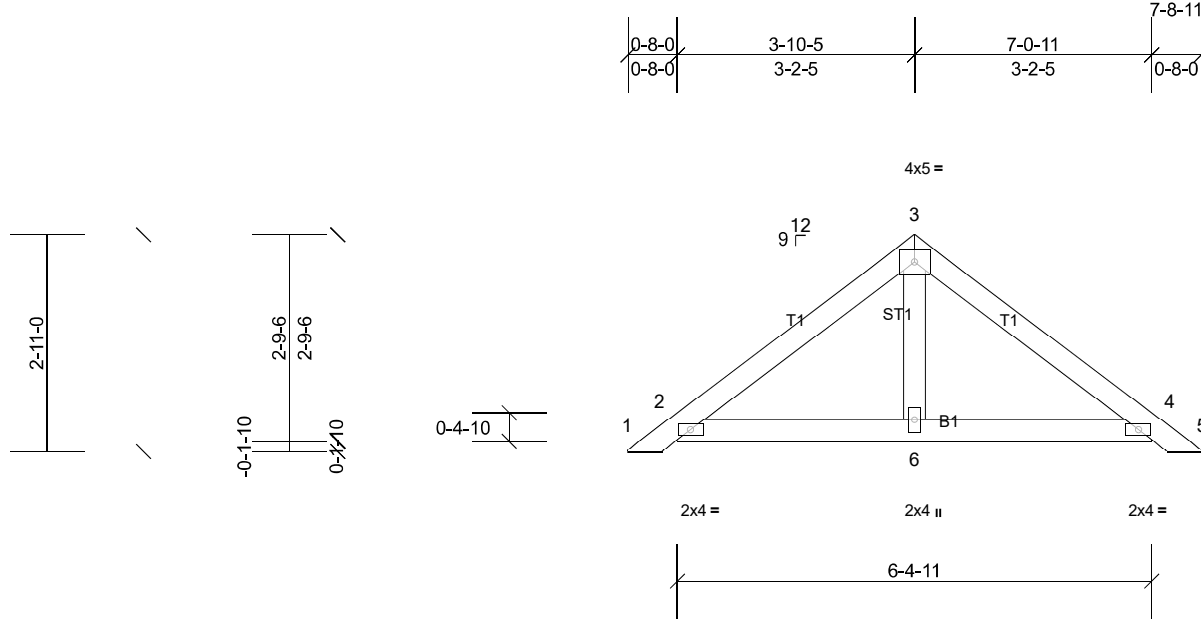
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	PB6	Piggyback	3	1	

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Scale = 1:31

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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
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.

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

REACTIONS

All bearings 6-4-11.
(lb) - Max Horiz 2=51 (LC 12), 7=51 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 11

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 3-10-11, Exterior(2R) 3-10-11 to 6-8-11, Interior (1) 6-8-11 to 7-6-4 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=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

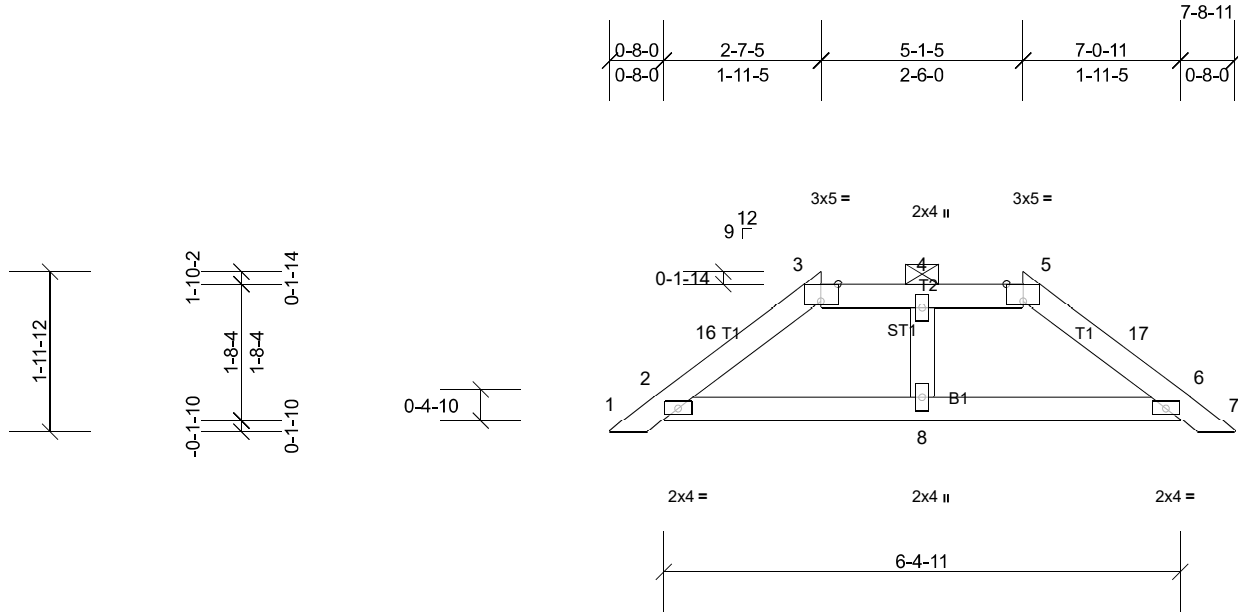
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	PB7	Piggyback	1	1	

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Scale = 1:28.5

Plate Offsets (X, Y): [3:0-2-8,Edge], [5:0-2-8,Edge]

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	13	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
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 6-4-11.
(lb) - Max Horiz 2=32 (LC 14), 9=32 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 9, 13
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 8, 9, 13

FORCES

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

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- 3) 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.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.

- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 4-0-0 oc.
- 10) * 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.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

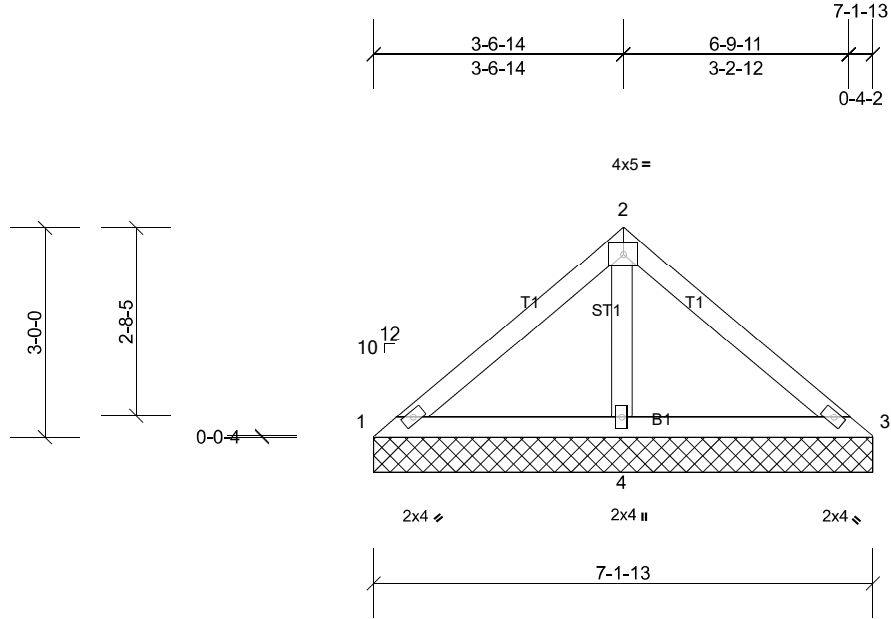
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
23090033 - Elev B	VL1	Valley	1	1	

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Scale = 1:33

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	9	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 7'-1-13 oc purlins.
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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 3, 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS

All bearings 7'-1-13.
(lb) - Max Horiz 1=53 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 3, 9
Max Grav All reactions 250 (lb) or less at joint (s) 1, 3, 9 except 4=577 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-75/268, 2-3=-76/272
WEBS 2-4=-445/181

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 3-7-3, Exterior(2R) 3-7-3 to 6-4-12, Interior (1) 6-4-12 to 7-2-2 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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.

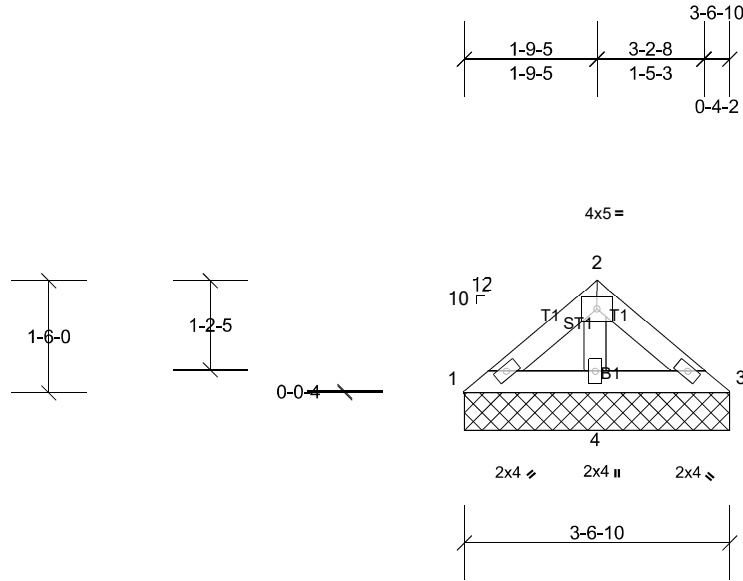
Job	Truss	Truss Type	Qty	Ply	
23090033 - Elev B	VL2	Valley	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:30.8

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER

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

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins.
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 (lb/size) 1=37/3-6-10, (min. 0-1-8),
3=39/3-6-10, (min. 0-1-8),
4=164/3-6-10, (min. 0-1-8)
Max Horiz 1=-25 (LC 11)
Max Uplift 3=-1 (LC 14)
Max Grav 1=50 (LC 30), 3=52 (LC 31), 4=194 (LC 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 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1 lb uplift at joint 3.