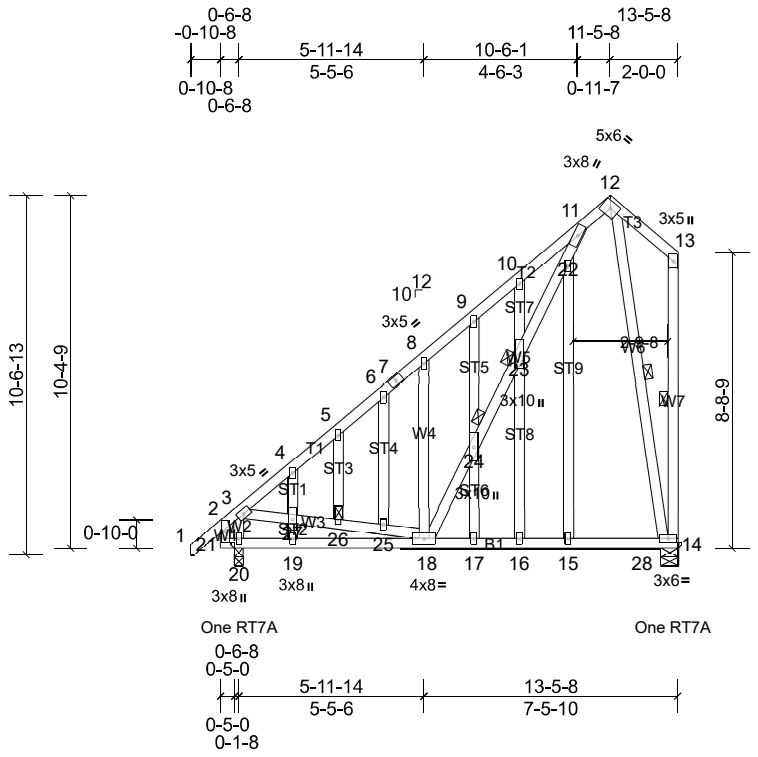
Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A1E	Common Structural Gable	1	1	Job Reference (optional)



Scale = 1:67.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.06	16	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 153 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* W1,W2:2x4 SP No.3
OTHERS	2x4 SP No.3 *Except* ST9,ST8:2x4 SP No.2

REACTIONS (lb/size) 14=429/0-6-0, (min. 0-1-8), 20=509/0-3-0, (min. 0-1-8)
Max Horiz 20=300 (LC 10)
Max Uplift 14=-47 (LC 13)
Max Grav 14=530 (LC 25), 20=605 (LC 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: 8-2-5 oc bracing: 19-20 8-2-15 oc bracing: 18-19.
WEBS	1 Row at midpt 13-14, 12-14
JOINTS	1 Brace at Jt(s): 23, 24, 26

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

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

TOP CHORD	3-4=-505/53, 4-5=-471/112, 5-6=-458/154, 6-7=-409/155, 7-8=-395/163, 8-9=-614/299, 9-10=-591/316, 10-11=-695/416, 12-13=-191/282
BOT CHORD	19-20=-505/603, 18-19=-505/603, 17-18=-155/262, 16-17=-155/262, 15-16=-155/262, 15-28=-155/262, 14-28=-155/262
WEBS	12-14=-743/355, 3-20=-320/7, 8-18=-351/198, 3-27=-45/253, 26-27=-43/256, 25-26=-51/250, 18-25=-50/258, 18-24=-316/655, 23-24=-299/622, 22-23=-342/675, 11-22=-361/803

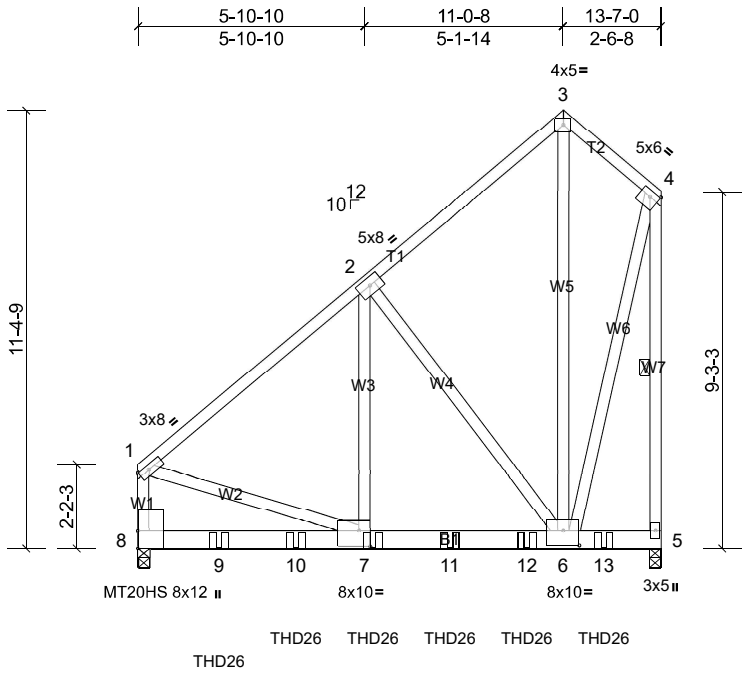
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (3) -0-9-14 to 2-1-8, Exterior (2) 2-1-8 to 11-5-8, Corner (3) 11-5-8 to 13-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 1-4-0 oc.
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 RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 20. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A1G-2	Common Girder	1	**2**	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:20 Page: 1
ID:ftlPl5XbZiowOOZ?uO5Qw5yDSm0-DVijCVS0ZmeXWZFT3LPivJkDKrqjb1SreOR25HznF6P



Scale = 1:59.9

Plate Offsets (X, Y): [4:0-2-12,0-2-0], [6:0-5-0,0-4-8], [7:0-3-8,0-4-12]

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.17	7-8	>935	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 266 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

REACTIONS (lb/size) 5=5781/0-3-8, (min. 0-2-6), 8=5345/0-3-8, (min. 0-2-3)
Max Horiz 8=310 (LC 6)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4468/0, 2-3=-1609/0, 3-4=-1552/0, 1-8=-3941/0, 4-5=-5359/0
BOT CHORD 8-9=-229/445, 9-10=-229/445, 7-10=-229/445, 7-11=0/3367, 11-12=0/3367, 6-12=0/3367
WEBS 1-7=0/3214, 4-6=0/4488, 3-6=0/1774, 2-7=0/4395, 2-6=-3592/0

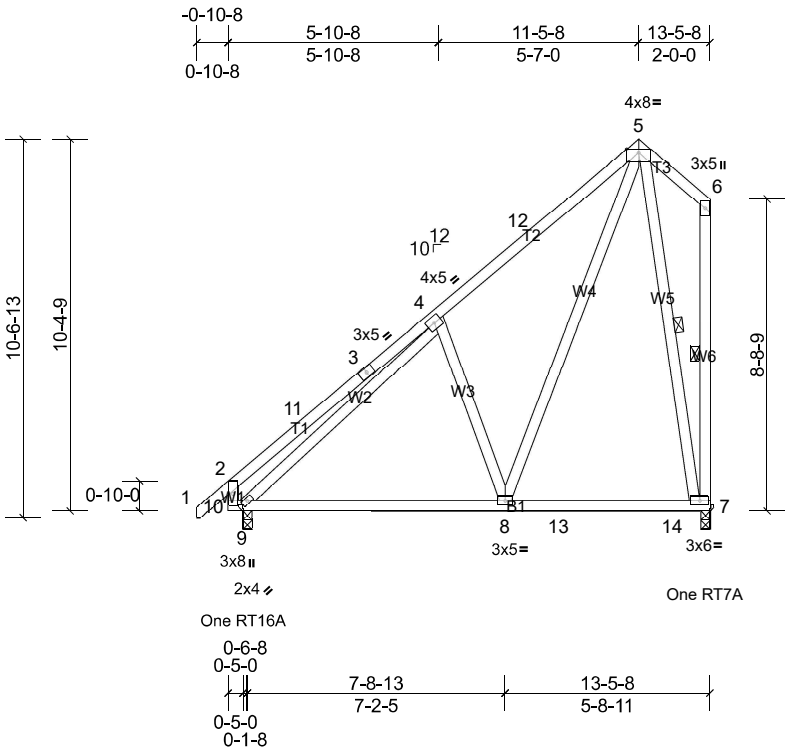
NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
6) All plates are MT20 plates 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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 3-3-10 from the left end to 13-3-10 to connect truss(es) B6 (1 ply 2x4 SP), B7 (1 ply 2x4 SP), C1 (1 ply 2x4 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-48, 3-4=-48, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-1713 (B), 9=-1748 (B), 10=-1628 (B), 11=-1713 (B), 12=-1713 (B), 13=-1713 (B)

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A1G-2	Common Girder	1	**2**	Job Reference (optional)

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A2	Common	3	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:21 Page: 1
ID:grkRbufFD97ZHaqh3nbJmoyE1Lx-hiG5QrSeK4mO8jqgd2wxRWHVHFFFKd7_s2AcdkznF6O



Scale = 1:64.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.06	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 110 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

REACTIONS (lb/size) 7=435/0-3-0, (min. 0-1-8), 9=503/0-3-0, (min. 0-1-8)
Max Horiz 9=300 (LC 10)
Max Uplift 7=-47 (LC 13)
Max Grav 7=613 (LC 25), 9=598 (LC 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.
WEBS 1 Row at midpt 6-7, 5-7

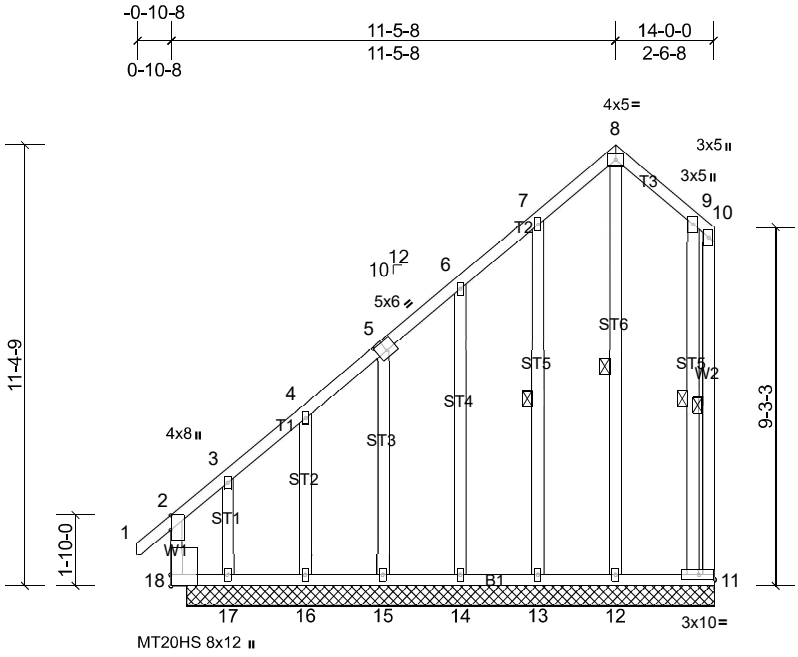
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-369/75, 3-11=-337/78, 3-4=-305/102, 4-12=-500/219, 5-12=-458/242, 5-6=-240/270, 2-10=-381/152
BOT CHORD 8-9=-281/539
WEBS 5-8=-143/535, 4-8=-380/241, 4-9=-349/135, 5-7=-669/341

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 11-5-8, Exterior (2) 11-5-8 to 13-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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, with BCDL = 10.0psf.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A3	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:59.5

14-0-0

Plate Offsets (X, Y): [2:0-4-9,Edge], [5:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	n/a	-	n/a	999	MT20HS	187/143
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2
OTHERS	2x4 SP No.2 *Except* ST2,ST1:2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 10-11, 8-12, 7-13, 9-11

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

REACTIONS All bearings 13-7-0.
(lb) - Max Horiz 17=324 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 14, 15 except 11=-104 (LC 13), 16=-497 (LC 10), 17=-220 (LC 9)
Max Grav All reactions 250 (lb) or less at joint(s) 11, 12, 13, 14, 15 except 16=395 (LC 11), 17=601 (LC 26)

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

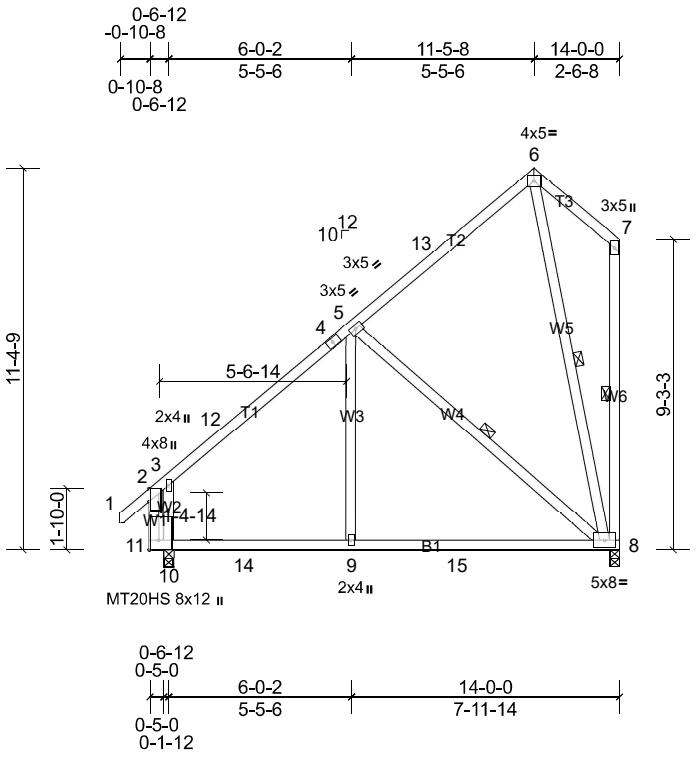
TOP CHORD	2-3=-400/401, 3-4=-499/483, 4-5=-237/260, 7-8=-252/303, 8-9=-272/334, 9-10=-399/457, 10-11=-522/560
BOT CHORD	17-18=-396/429
WEBS	8-12=-380/239, 4-16=-389/385, 9-11=-641/622

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (3) -0-0-7 to 2-11-9, Exterior (2) 2-11-9 to 12-2-14, Corner (3) 12-2-14 to 14-7-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 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 RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11, 12, 13, 14, 15, 16, and 17. This connection is for uplift only and does not consider lateral forces.
12) Non Standard bearing condition. Review required.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	A4	Common	2	1	Job Reference (optional)



Scale = 1:68.7

Plate Offsets (X, Y): [2:0-4-9,Edge], [11:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.33	8-9	>485	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 108 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1,W2:2x4 SP No.3

REACTIONS (lb/size) 8=446/0-3-8, (min. 0-1-8), 10=528/0-3-8, (min. 0-1-8)
Max Horiz 10=324 (LC 12)
Max Uplift 8=-48 (LC 13)
Max Grav 8=632 (LC 25), 10=705 (LC 26)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.
WEBS 1 Row at midpt 7-8, 6-8, 5-8

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

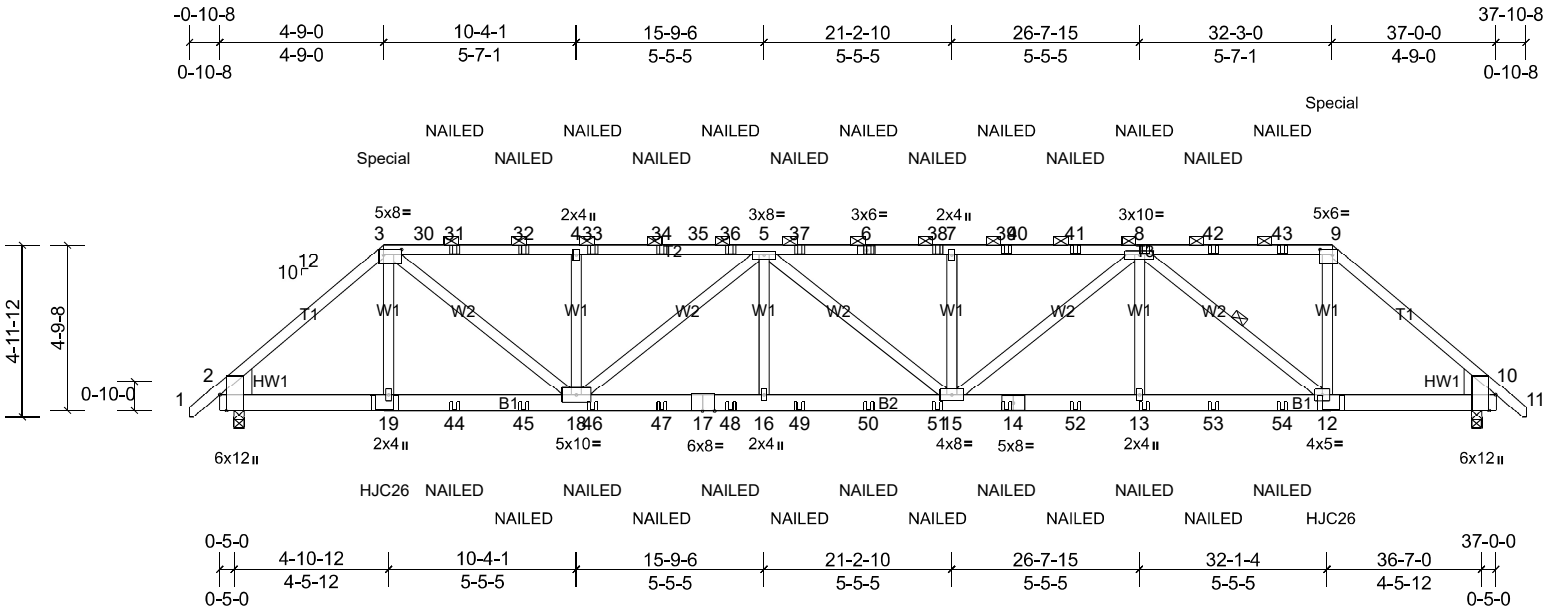
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-415/0, 3-12=-600/97, 4-12=-548/122, 4-5=-443/127, 6-7=-269/293
BOT CHORD 10-11=0/388, 10-14=-299/532, 9-14=-299/532, 9-15=-299/532, 8-15=-299/532
WEBS 6-8=-347/225, 3-10=-454/259, 5-9=0/307, 5-8=-452/211

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-0-7 to 2-11-9, Interior (1) 2-11-9 to 12-2-14, Exterior (2) 12-2-14 to 14-7-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) All plates are MT20 plates unless otherwise indicated.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 10. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	B1G	Hip Girder	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:23 Page: 1
ID:z3gzKNys5LuB2c2zlXq7voyE3zO-hiG5QrSeK4mO8jqgd2wxRWHS3FA5KVR_s2AcdkznF6O



Scale = 1:66.8

Plate Offsets (X, Y): [2:0-5-8,Edge], [3:0-6-4,0-2-0], [9:0-4-4,0-2-0], [10:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	0.22	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.40	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.09	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 242 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1 *Except* T2:2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2
WEDGE	Left: 2x10 SP 2400F 2.0E Right: 2x10 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-6-11 oc purlins, except 2-0-0 oc purlins (2-6-11 max.): 3-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 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=1897/0-3-8, (min. 0-1-13), 10=1908/0-3-8, (min. 0-1-14)
Max Horiz 2=-93 (LC 9)
Max Uplift 2=-425 (LC 8), 10=-435 (LC 7)
Max Grav 2=2212 (LC 25), 10=2237 (LC 26)

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

TOP CHORD 2-3=-2587/580, 3-30=-3724/839, 30-31=-3724/839, 31-32=-3724/839, 4-32=-3724/839, 4-33=-3724/839, 33-34=-3724/839, 34-35=-3724/839, 35-36=-3724/839, 5-36=-3724/839, 5-37=-4454/998, 6-37=-4454/998, 6-38=-4454/998, 7-38=-4454/998, 7-39=-4454/998, 39-40=-4454/998, 40-41=-4454/998, 8-41=-4454/998, 8-42=-1957/472, 42-43=-1957/472, 9-43=-1957/472, 9-10=-2604/588

BOT CHORD 2-19=-454/1959, 19-44=-451/1955, 44-45=-451/1955, 18-45=-451/1955, 18-46=-999/4526, 46-47=-999/4526, 17-47=-999/4526, 17-48=-999/4526, 16-48=-999/4526, 16-49=-999/4526, 49-50=-999/4526, 50-51=-999/4526, 15-51=-999/4526, 14-15=-821/3799, 14-52=-821/3799, 13-52=-821/3799, 13-53=-821/3799, 53-54=-821/3799, 12-54=-821/3799, 10-12=-407/1953

WEBS 3-18=-527/2343, 4-18=-633/261, 5-18=-1021/233, 7-15=-454/228, 8-15=-209/960, 8-13=0/295, 8-12=-2327/526, 9-12=-193/1303

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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) One RT7A MiTek 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.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

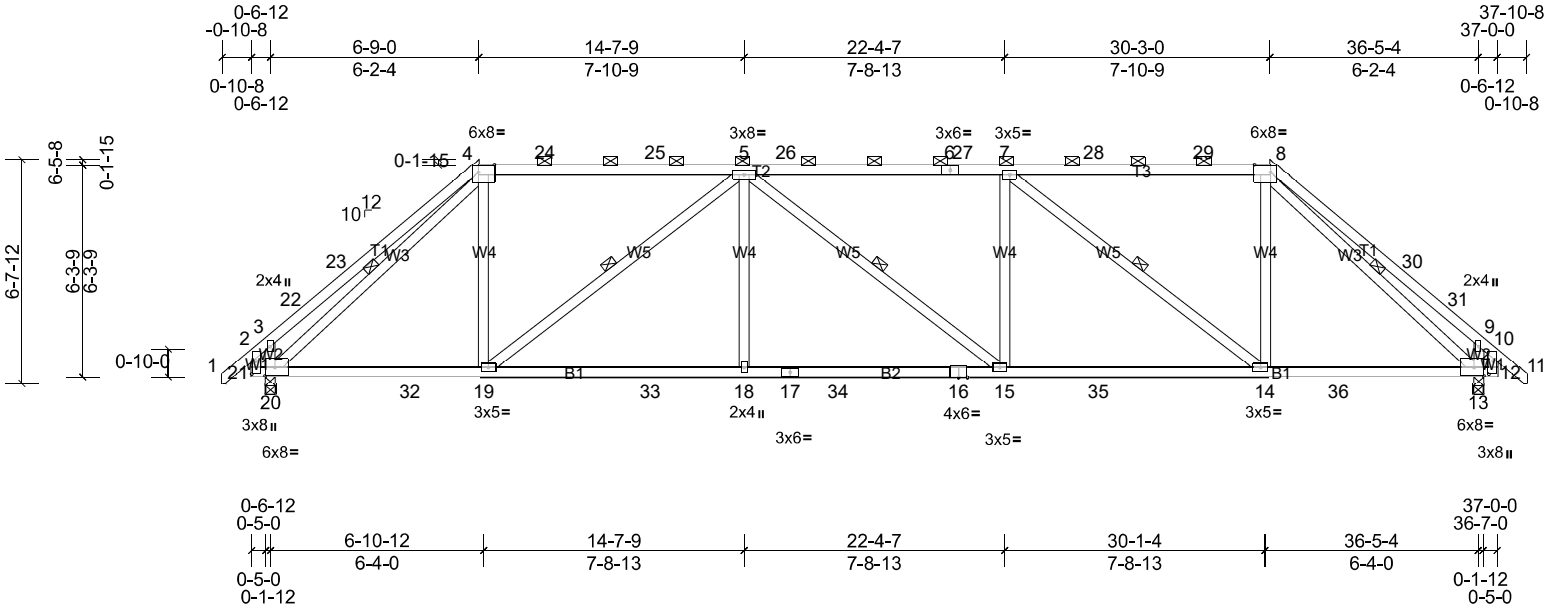
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 27-5-4 oc max. starting at 4-9-6 from the left end to 32-2-10 to connect truss (es) J1 (1 ply 2x4 SP), J1G (1 ply 2x4 SP), J1 (1 ply 2x4 SP), J1G (1 ply 2x4 SP) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 159 lb down and 100 lb up at 4-9-0, and 159 lb down and 100 lb up at 32-3-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
15) 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: 1-3=-48, 3-9=-58, 9-11=-48, 20-25=-20
   Concentrated Loads (lb)
   Vert: 3=-37 (F), 6=-33 (F), 9=-37 (F), 19=-107 (F), 13=-18 (F), 12=-107 (F), 8=-33 (F), 14=-18 (F), 31=-33 (F), 32=-33 (F), 33=-33 (F), 34=-33 (F), 36=-33 (F), 37=-33 (F), 38=-33 (F), 39=-33 (F), 41=-33 (F), 42=-33 (F), 43=-33 (F), 44=-18 (F), 45=-18 (F), 46=-18 (F), 47=-18 (F), 48=-18 (F), 49=-18 (F), 50=-18 (F), 51=-18 (F), 52=-18 (F), 53=-18 (F), 54=-18 (F)

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	B2	Hip	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:25 Page: 1
ID:9IoiiCqgnUFMFehY2cJtGnyE1tH-aTVcFDW9OJHqdK7Rsu?tcMS7FsTEGNyanf8pnVznF6K



Scale = 1:68.4

Plate Offsets (X, Y): [4:0-5-11,Edge], [8:0-5-11,Edge], [12:0-4-12,0-1-8], [13:0-3-8,0-3-0], [20:0-3-8,0-3-0], [21:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.16	15-18	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.30	15-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.13	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 224 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* T2,T3:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W2,W1:2x4 SP No.3

REACTIONS (lb/size) 13=1407/0-3-8, (min. 0-1-14), 20=1407/0-3-8, (min. 0-1-14)
Max Horiz 20=-141 (LC 13)
Max Grav 13=1574 (LC 37), 20=1574 (LC 37)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-8 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 5-15, 7-14, 4-20, 8-13

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

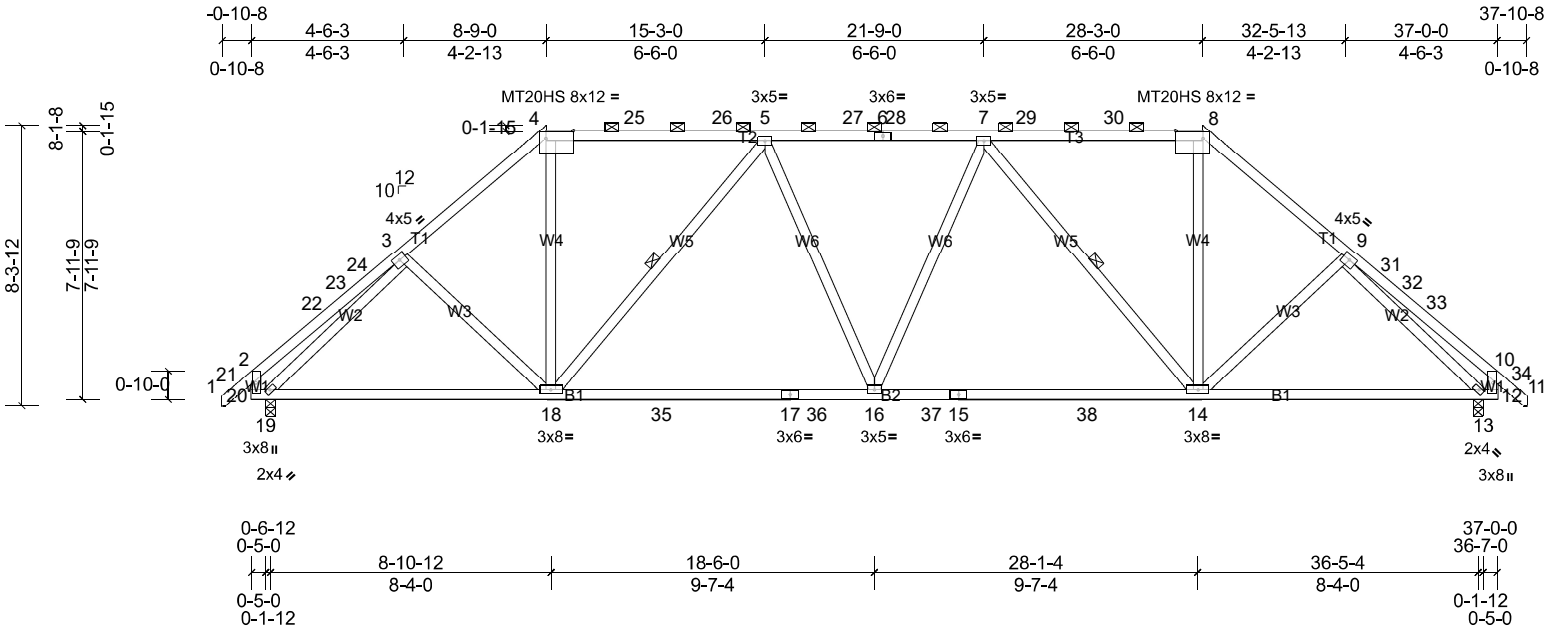
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-22=-662/261, 22-23=-550/274, 4-23=-513/303, 4-24=-1464/266, 24-25=-1464/266, 5-25=-1466/266, 5-26=-2515/375, 6-26=-2515/375, 6-27=-2515/375, 7-27=-2515/375, 7-28=-1466/266, 28-29=-1464/266, 8-29=-1464/266, 8-30=-514/303, 30-31=-547/274, 9-31=-659/261
BOT CHORD 20-21=-72/336, 20-32=-56/1442, 19-32=-56/1442, 19-33=-157/2514, 18-33=-157/2514, 17-18=-157/2514, 17-34=-157/2514, 16-34=-157/2514, 15-16=-157/2514, 15-35=-163/2515, 14-35=-163/2515, 14-36=-48/1441, 13-36=-48/1441, 12-13=-72/334
WEBS 4-19=-5/1012, 5-19=-1328/147, 5-18=0/347, 7-15=0/297, 7-14=-1330/146, 8-14=-5/1003, 4-20=-1755/66, 3-20=-864/465, 8-13=-1754/66, 9-13=-864/465

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-10-9, Interior (1) 2-10-9 to 6-9-0, Exterior (2) 6-9-0 to 11-11-13, Interior (1) 11-11-13 to 30-3-0, Exterior (2) 30-3-0 to 35-5-13, Interior (1) 35-5-13 to 37-9-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 13. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) 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	Lmaco - Jason Price Residence
21110096	B3	Hip	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:25 Page: 1
ID:Gn9dW8VMBtZDkMx_sSm9btyE1oX-aTVcFDW9OJHqdK7Rsu?tcMS55sSuGI7anf8pnVznF6K



Scale = 1:68.4

Plate Offsets (X, Y): [4:0-9-11,Edge], [8:0-9-11,Edge], [12:0-1-9,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.25	16-18	>999	240	MT20HS	187/143
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.44	16-18	>992	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.10	13	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 231 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

REACTIONS (lb/size) 13=1387/0-3-8, (min. 0-1-13), 19=1387/0-3-8, (min. 0-1-13)
Max Horiz 19=-174 (LC 13)
Max Grav 13=1535 (LC 37), 19=1535 (LC 37)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-14

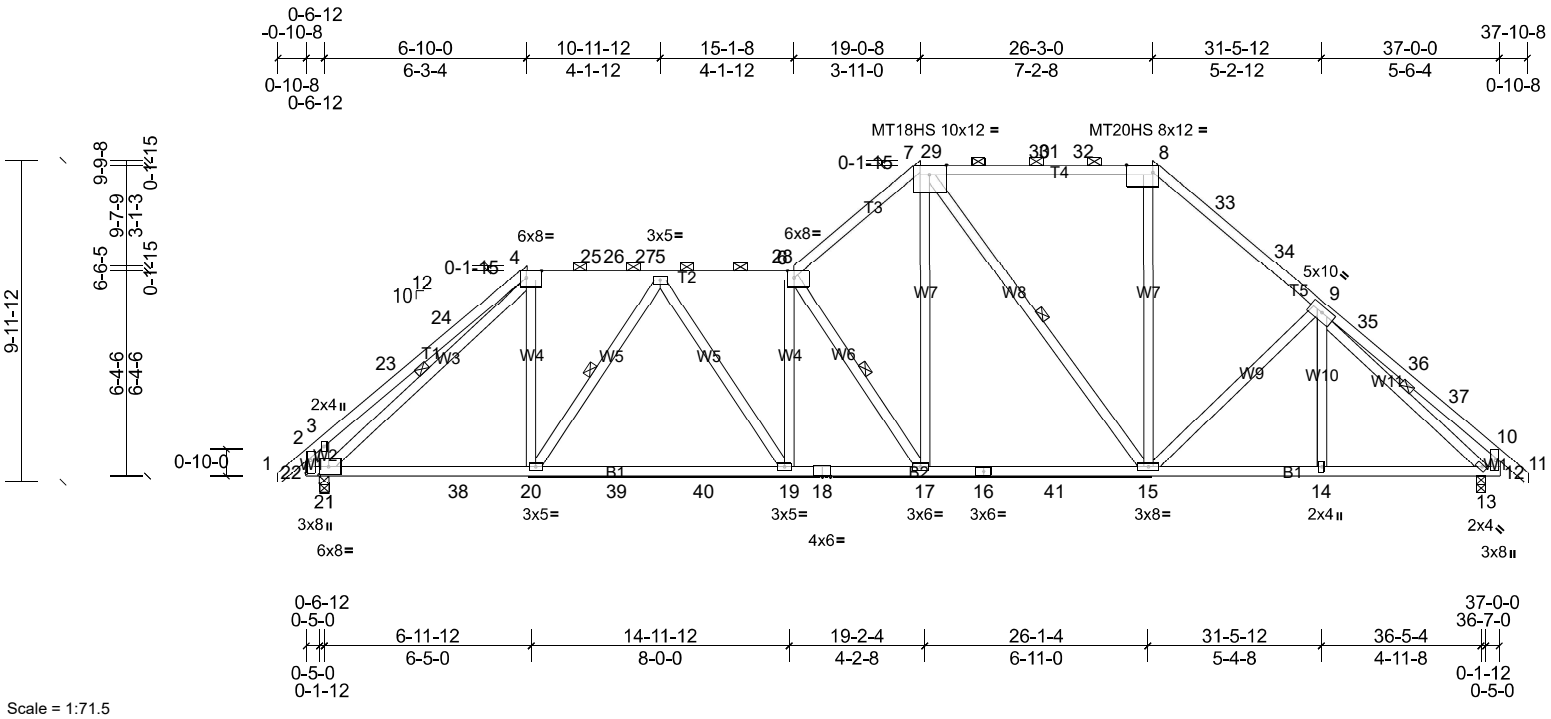
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-411/26, 22-23=-346/26, 23-24=-338/32, 3-24=-324/43, 3-4=-1856/304, 4-25=-1444/282, 25-26=-1444/282, 5-26=-1446/282, 5-27=-2091/331, 6-27=-2091/331, 6-28=-2091/331, 7-28=-2091/331, 7-29=-1446/282, 29-30=-1444/282, 8-30=-1444/282, 8-9=-1856/304, 9-31=-324/43, 31-32=-338/32, 32-33=-346/26, 10-33=-411/26, 2-20=-452/109, 10-12=-452/109
BOT CHORD 18-19=-119/1321, 18-35=-92/2049, 17-35=-92/2049, 17-36=-92/2049, 16-36=-92/2049, 16-37=-96/2049, 15-37=-96/2049, 15-38=-96/2049, 14-38=-96/2049, 13-14=-102/1321
WEBS 4-18=-69/835, 5-18=-948/132, 5-16=0/252, 7-16=0/252, 7-14=-948/132, 8-14=-69/835, 3-19=-1587/246, 9-13=-1587/246

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-10-9, Interior (1) 2-10-9 to 8-9-0, Exterior (2) 8-9-0 to 13-11-13, Interior (1) 13-11-13 to 28-3-0, Exterior (2) 28-3-0 to 33-5-13, Interior (1) 33-5-13 to 37-9-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 13. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	B4	Roof Special	1	1	Job Reference (optional)



Scale = 1:71.5

Plate Offsets (X, Y): [4:0-5-11,Edge], [6:0-2-5,Edge], [7:0-6-3,Edge], [8:0-9-11,Edge], [21:0-3-8,0-3-0], [22:0-4-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.17	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.33	19-20	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.08	13	n/a	n/a	MT20HS	187/143
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 259 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* T4:2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W10,W2,W1:2x4 SP No.3

REACTIONS (lb/size) 13=1352/0-3-8, (min. 0-1-15), 21=1382/0-3-8, (min. 0-1-15)
Max Horiz 21=207 (LC 14)
Max Uplift 21=-8 (LC 15)
Max Grav 13=1623 (LC 42), 21=1633 (LC 42)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-0 max.): 4-6, 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-17, 7-15, 4-21, 9-13

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-23=-689/270, 23-24=-539/279, 4-24=-533/300, 4-25=-1373/260, 25-26=-1373/260, 26-27=-1374/260, 5-27=-1375/260, 5-28=-2243/357, 6-28=-2240/357, 6-7=-1966/373, 7-29=-1219/302, 29-30=-1219/302, 30-31=-1219/302, 31-32=-1219/302, 8-32=-1219/302, 8-33=-1507/323, 33-34=-1531/304, 9-34=-1642/287, 9-35=-372/160, 35-36=-399/140, 36-37=-400/138, 10-37=-500/130, 10-12=-476/191
BOT CHORD 21-22=-72/366, 21-38=-65/1371, 20-38=-65/1371, 20-39=-139/1972, 39-40=-139/1972, 19-40=-139/1972, 18-19=-159/2248, 17-18=-159/2248, 16-17=-24/1524, 16-41=-24/1524, 15-41=-24/1524, 14-15=-70/1360, 13-14=-70/1360, 12-13=0/292
WEBS 4-20=-38/1081, 5-20=-1089/154, 5-19=-33/598, 6-19=-374/104, 6-17=-1342/249, 7-17=-146/1272, 7-15=-530/70, 8-15=-56/632, 9-15=-307/124, 4-21=-1568/0, 3-21=-911/458, 9-13=-1508/100

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-10-9, Interior (1) 2-10-9 to 6-10-0, Exterior (2) 6-10-0 to 10-6-6, Interior (1) 10-6-6 to 19-0-8, Exterior (2) 19-0-8 to 22-8-14, Interior (1) 22-8-14 to 26-3-0, Exterior (2) 26-3-0 to 29-11-6, Interior (1) 29-11-6 to 37-9-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. This connection is for uplift only and does not consider lateral forces.
10) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

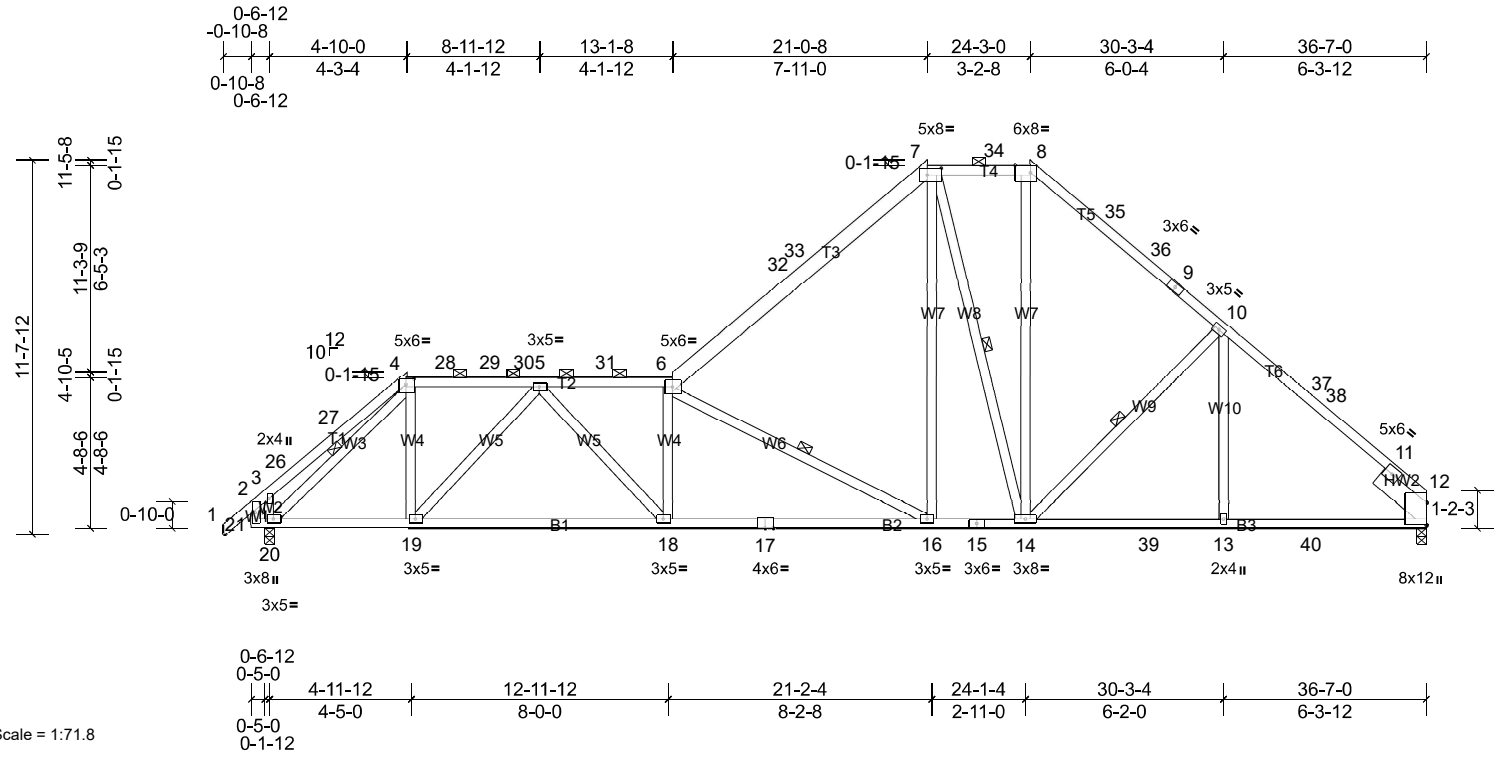
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	B4	Roof Special	1	1	Job Reference (optional)

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	B5	Roof Special	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:26 Page: 1
ID:ei7RQv0RA0BL5UUPnVTo9fyDZrt-2f3_TZWn8cPhEUidQbW68a_GeGo4?nQk0JuNJxznF6J



Scale = 1:71.8

Plate Offsets (X, Y): [4:0-3-0,0-2-1], [7:0-5-4,0-2-8], [8:0-5-11,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.19	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.42	16-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.18	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 260 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x6 SP No.2, T5:2x4 SP No.1, T6:2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2 *Except* B3:2x4 SP No.1
WEBS	2x4 SP No.2 *Except* W4,W2,W1:2x4 SP No.3
SLIDER	Right 2x8 SP 2400F 2.0E -- 2-0-0

REACTIONS (lb/size) 12=1257/0-3-8, (min. 0-1-15), 20=1371/0-3-8, (min. 0-2-0)
Max Horiz 20=228 (LC 12)
Max Uplift 20=-13 (LC 15)
Max Grav 12=1663 (LC 42), 20=1701 (LC 42)

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-5 max.): 4-6, 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 16-18.
WEBS	1 Row at midpt 6-16, 7-14, 10-14, 4-20

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

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

TOP CHORD	3-26=-368/160, 26-27=-306/174, 4-27=-303/190, 4-28=-1301/221, 28-29=-1302/221, 29-30=-1302/221, 5-30=-1302/220, 5-31=-2920/388, 6-31=-2920/388, 6-32=-1955/277, 32-33=-1716/279, 7-33=-1696/309, 7-34=-1239/308, 8-34=-1238/308, 8-35=-1545/332, 35-36=-1586/314, 9-36=-1631/305, 9-10=-1776/292, 10-37=-1851/259, 37-38=-2003/235, 11-38=-2068/234
BOT CHORD	19-20=-110/1267, 18-19=-223/2149, 17-18=-273/2942, 16-17=-273/2942, 15-16=0/1331, 14-15=0/1331, 14-39=-89/1475, 13-39=-89/1475, 13-40=-89/1475, 12-40=-89/1475
WEBS	4-19=-57/1057, 5-19=-1270/185, 5-18=-67/1147, 6-18=-676/155, 6-16=-1851/317, 7-16=-81/983, 7-14=-455/66, 8-14=-127/706, 10-14=-467/156, 4-20=-1611/88, 3-20=-512/247

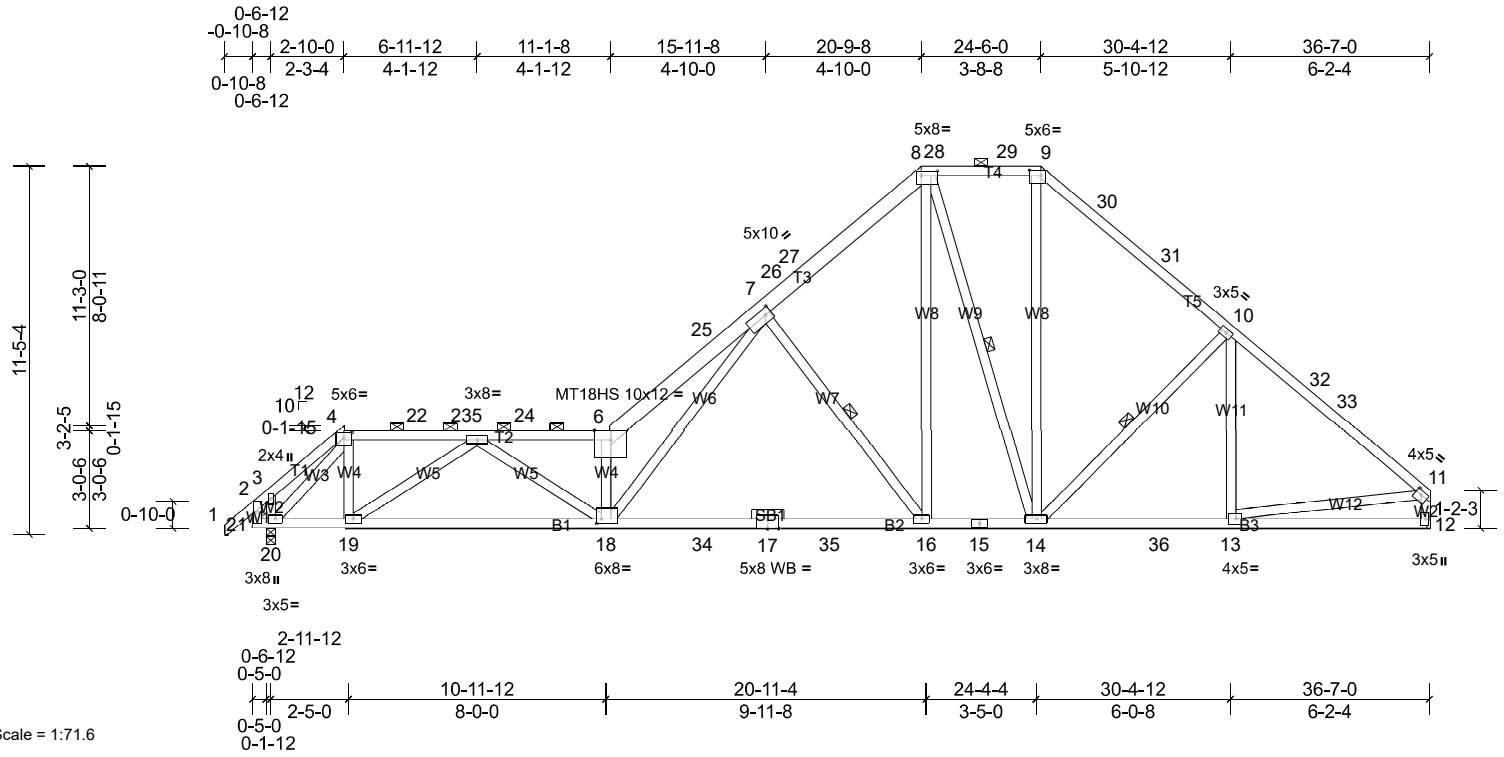
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-10-1, Interior (1) 2-10-1 to 4-10-0, Exterior (2) 4-10-0 to 8-5-14, Interior (1) 8-5-14 to 21-0-8, Exterior (2) 21-0-8 to 27-10-14, Interior (1) 27-10-14 to 36-7-0 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 12. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) 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	Lmaco - Jason Price Residence
21110096	B6	Piggyback Base	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:27 Page: 1
ID:DS0vvZqADjoG3nsZKfRRJVyDXpi-WsdMguXPvwXYseHpzJ1LhnXT_g8dkBJtFzdwrNznF6I



Scale = 1:71.6

Plate Offsets (X, Y): [4:0-3-0,0-2-1], [7:0-2-4,0-2-8], [8:0-6-0,0-1-12], [9:0-4-4,0-2-0], [11:0-2-0,0-1-12], [18:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.49	16-18	>874	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.96	16-18	>447	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.09	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T3:2x6 SP No.2
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3 *Except* W6,W7,W8,W9,W10,W11,W12:2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-3 max.): 4-6, 8-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-16, 8-14, 10-14

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

REACTIONS (lb/size) 12=1338/ Mechanical, (min. 0-1-8), 20=1440/0-3-8, (min. 0-2-0)
Max Horiz 20=237 (LC 12)
Max Grav 12=1768 (LC 42), 20=1719 (LC 42)

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

TOP CHORD 4-22=-1243/153, 22-23=-1244/153, 5-23=-1244/152, 5-24=-4417/362, 6-24=-4417/362, 6-25=-6104/563, 7-25=-5854/593, 7-26=-2041/264, 26-27=-1999/265, 8-27=-1836/309, 8-28=-1286/274, 28-29=-1286/274, 9-29=-1286/274, 9-30=-1609/293, 30-31=-1667/269, 10-31=-1884/240, 10-32=-1896/192, 32-33=-2058/159, 11-33=-2163/157, 11-12=-1708/155

BOT CHORD 19-20=-101/1178, 18-19=-274/2954, 18-34=-121/2268, 17-34=-121/2268, 17-35=-121/2268, 16-35=-121/2268, 15-16=0/1407, 14-15=0/1407, 14-36=-57/1581, 13-36=-57/1581

WEBS 4-19=-52/1285, 5-19=-2088/229, 5-18=-26/1773, 6-18=-4052/425, 7-18=-362/3994, 7-16=-1485/259, 8-16=-112/1396, 8-14=-494/34, 9-14=-83/735, 10-14=-489/136, 4-20=-1736/114, 11-13=0/1441

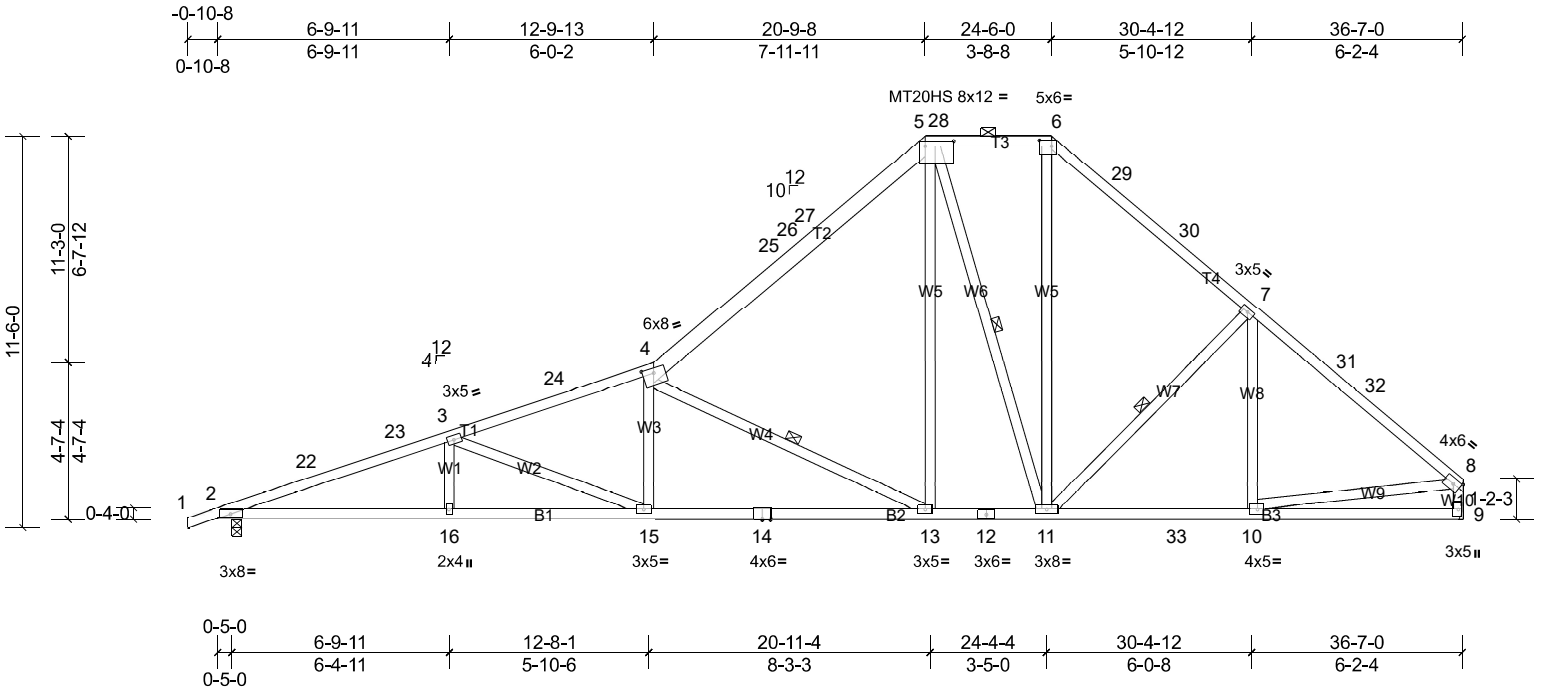
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-9-14 to 6-5-14, Interior (1) 6-5-14 to 20-9-8, Exterior (2) 20-9-8 to 28-1-14, Interior (1) 28-1-14 to 36-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) 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	Lmaco - Jason Price Residence
21110096	B7	Piggyback Base	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:27 Page: 1
ID:zC_3Y3REDgqcKoZ9qQgeVxyDXdI-WsdMguXPvwXYseHpzJ1LhnXR7g9TkFttFzdwrNznF6I



Scale = 1:67.7

Plate Offsets (X, Y): [4:0-4-0,0-1-12], [5:0-10-0,0-1-12], [6:0-4-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.48	13-15	>913	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.11	9	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 240 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10:2x4 SP No.3

REACTIONS (lb/size) 2=1304/0-3-8, (min. 0-1-13), 9=1241/ Mechanical, (min. 0-1-8)
Max Horiz 2=236 (LC 14)
Max Uplift 2=-11 (LC 15)
Max Grav 2=1527 (LC 2), 9=1648 (LC 40)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-1 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 5-11, 7-11

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

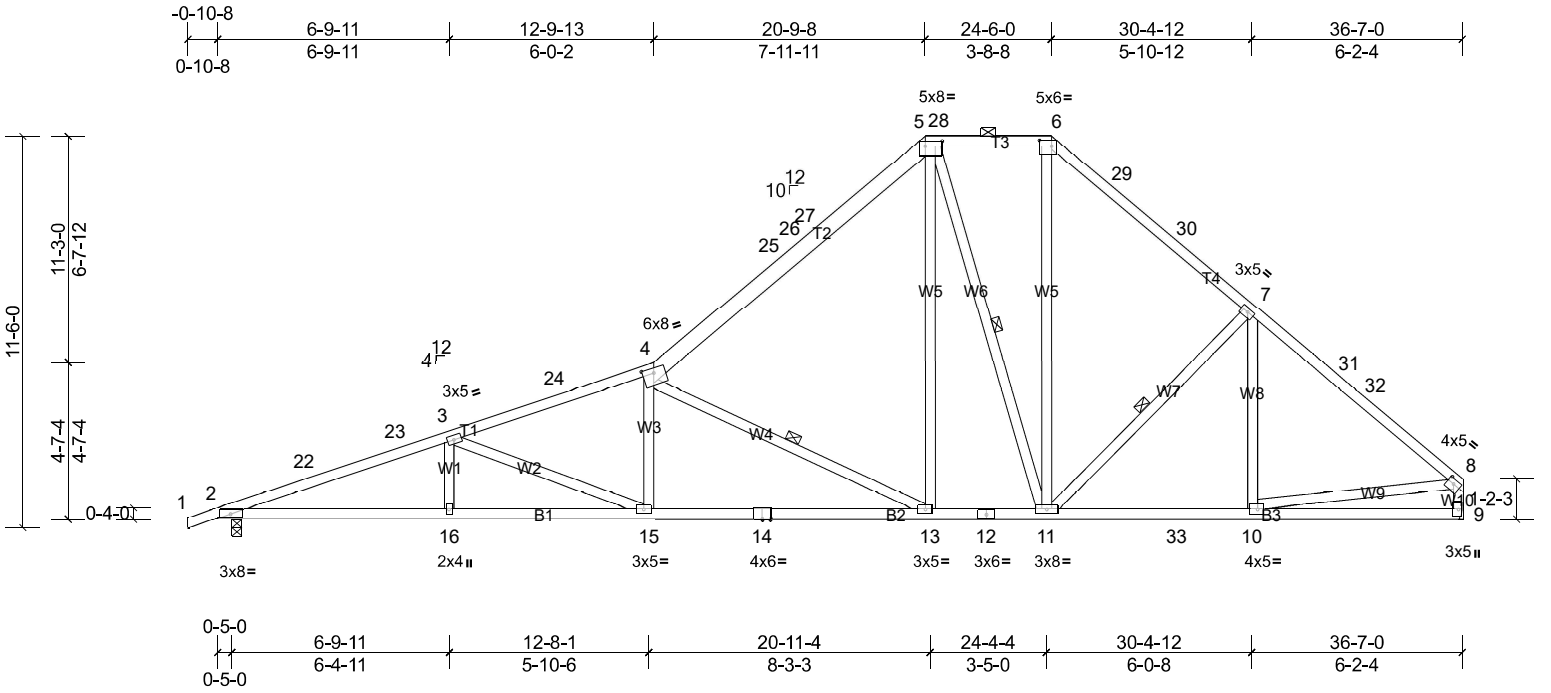
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-3543/349, 22-23=-3477/359, 3-23=-3455/370, 3-24=-3073/338, 4-24=-3030/349, 4-25=-1925/263, 25-26=-1683/264, 26-27=-1662/267, 5-27=-1630/295, 5-28=-1193/300, 6-28=-1193/300, 6-29=-1493/323, 29-30=-1546/305, 7-30=-1751/282, 7-31=-1769/234, 31-32=-1920/209, 8-32=-2014/208, 8-9=-1589/202
BOT CHORD 2-16=-332/3298, 15-16=-332/3298, 14-15=-258/2895, 13-14=-258/2895, 12-13=-5/1305, 11-12=-5/1305, 11-33=-96/1475, 10-33=-96/1475
WEBS 3-15=-641/99, 4-15=0/404, 4-13=-1814/287, 5-13=-54/974, 5-11=-473/65, 6-11=-114/718, 7-11=-471/153, 8-10=-34/1347

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-9-11, Interior (1) 2-9-11 to 20-9-8, Exterior (2) 20-9-8 to 28-1-14, Interior (1) 28-1-14 to 36-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) One RT7A MiTek 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.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) 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	Lmaco - Jason Price Residence
21110096	C1	Piggyback Base	4	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:28 Page: 1
ID:Z7vwOhkOr2g26zUa2pknc5yDT9a-_2BkuEY1gEfPUos0X0YaD?4dN3V8Tih0TdNTNqznF6H



Scale = 1:67.7

Plate Offsets (X, Y): [4:0-4-0,0-1-12], [5:0-6-0,0-1-12], [6:0-4-4,0-2-0], [8:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.49	13-15	>892	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 240 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10:2x4 SP No.3

REACTIONS (lb/size) 2=1355/0-3-8, (min. 0-1-14), 9=1326/ Mechanical, (min. 0-1-8)
Max Horiz 2=236 (LC 14)
Max Grav 2=1577 (LC 2), 9=1733 (LC 40)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-15 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 5-11, 7-11

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

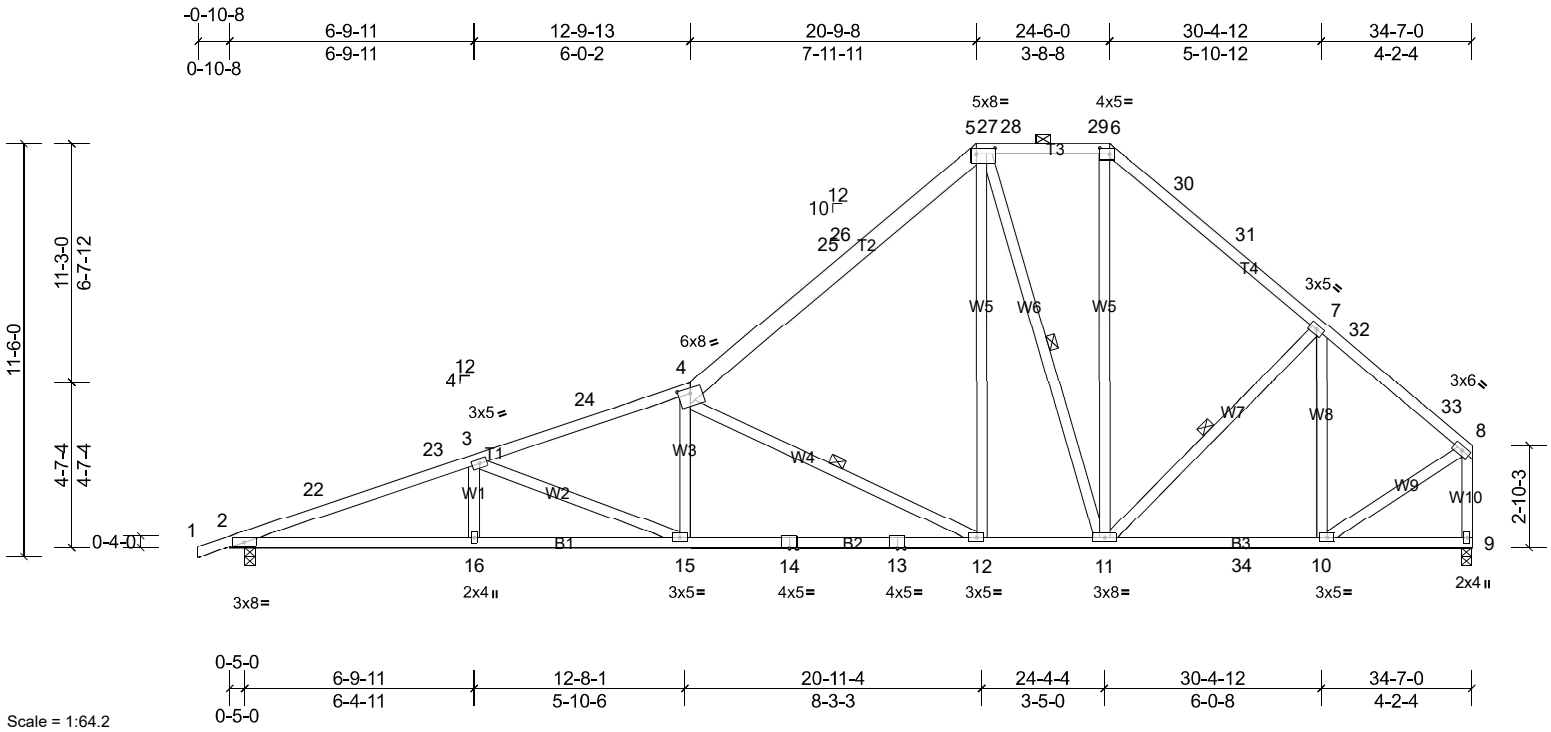
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-3677/269, 22-23=-3609/278, 3-23=-3588/290, 3-24=-3201/257, 4-24=-3156/269, 4-25=-1960/216, 25-26=-1754/218, 26-27=-1728/222, 5-27=-1699/258, 5-28=-1246/267, 6-28=-1246/267, 6-29=-1560/287, 29-30=-1616/262, 7-30=-1834/233, 7-31=-1850/186, 31-32=-2012/154, 8-32=-2116/152, 8-9=-1673/151
BOT CHORD 2-16=-257/3424, 15-16=-257/3424, 14-15=-181/3014, 13-14=-181/3014, 12-13=0/1360, 11-12=0/1360, 11-33=-54/1546, 10-33=-54/1546
WEBS 3-15=-641/97, 4-15=0/405, 4-13=-1888/240, 5-13=-33/1008, 5-11=-482/56, 6-11=-91/739, 7-11=-496/138, 8-10=0/1408

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-8-14, Interior (1) 2-8-14 to 20-9-8, Exterior (2) 20-9-8 to 28-1-2, Interior (1) 28-1-2 to 36-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) One RT7A MiTek 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 2015 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	Lmaco - Jason Price Residence
21110096	C2	Piggyback Base	4	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:28 Page: 1
ID:6q1X91AP3IYIG6WFzbsSOzyDT7k-_2BkuEY1gEfPUos0X0YaD?4bR3WFTjH0TdNTNqznF6H



Scale = 1:64.2

Plate Offsets (X, Y): [4:0-4-0,0-1-12], [5:0-6-4,0-2-0], [6:0-3-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.19	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.44	12-15	>949	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.10	9	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 234 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10,W9:2x4 SP No.3

REACTIONS (lb/size) 2=1281/0-3-8, (min. 0-1-12), 9=1252/0-3-8, (min. 0-2-0)
Max Horiz 2=254 (LC 14)
Max Grav 2=1493 (LC 2), 9=1683 (LC 40)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-10 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-12, 5-11, 7-11

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-3435/247, 22-23=-3369/257, 3-23=-3331/269, 3-24=-2910/237, 4-24=-2865/250, 4-25=-1779/203, 25-26=-1505/206, 5-26=-1483/243, 5-27=-1034/253, 27-28=-1034/253, 28-29=-1034/253, 6-29=-1034/253, 6-30=-1279/254, 30-31=-1342/228, 7-31=-1554/220, 7-32=-1220/150, 32-33=-1236/143, 8-33=-1430/117, 8-9=-1650/135
BOT CHORD 2-16=-307/3196, 15-16=-307/3196, 14-15=-231/2739, 13-14=-231/2739, 12-13=-231/2739, 11-12=-30/1181, 11-34=-82/1049, 10-34=-82/1049
WEBS 3-15=-631/97, 4-15=0/400, 4-12=-1789/230, 5-12=-30/961, 5-11=-551/47, 6-11=-68/560, 7-10=-565/110, 8-10=-66/1234

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-6-8, Interior (1) 2-6-8 to 20-9-8, Exterior (2) 20-9-8 to 24-2-3, Interior (1) 24-2-3 to 24-6-0, Exterior (2) 24-6-0 to 27-10-11, Interior (1) 27-10-11 to 34-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) 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	Lmaco - Jason Price Residence
21110096	D1	Piggyback Base	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:29 Page: 1
ID:zXBuN_R8Krc1m_8YH6J50HyDSd6-SEk65aZfRXnF5xRC5k3pmCcoGTrVC9?AiH61wGznF6G

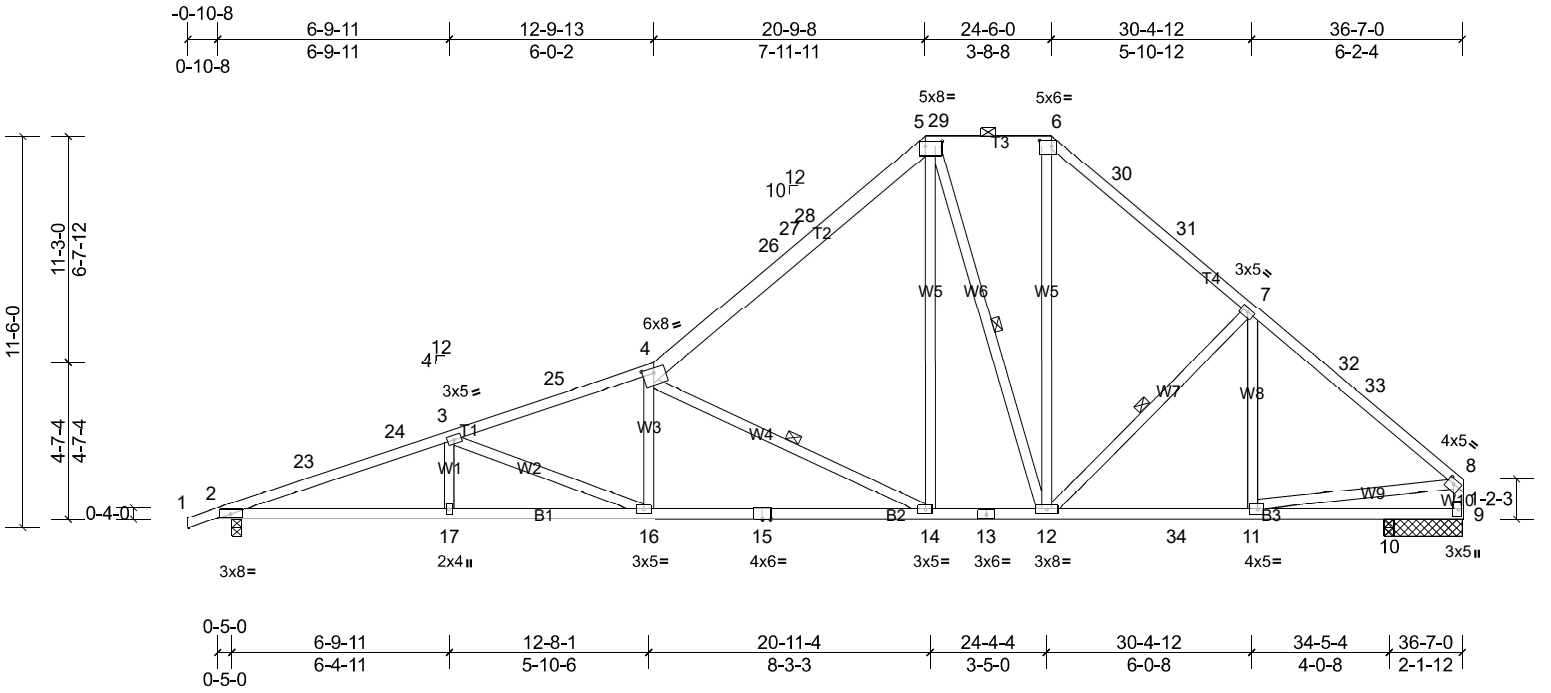


Plate Offsets (X, Y): [4:0-4-0,0-1-12], [5:0-6-0,0-1-12], [6:0-4-4,0-2-0], [8:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.21	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.49	14-16	>847	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.12	9	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 240 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10:2x4 SP No.3

REACTIONS (lb/size) 2=1346/0-3-8, (min. 0-1-14), 9=1178/2-3-8, (min. 0-1-14), 10=156/0-3-8, (min. 0-1-8)
Max Horiz 2=236 (LC 14)
Max Grav 2=1568 (LC 2), 9=1563 (LC 40), 10=179 (LC 40)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 5-12, 7-12

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

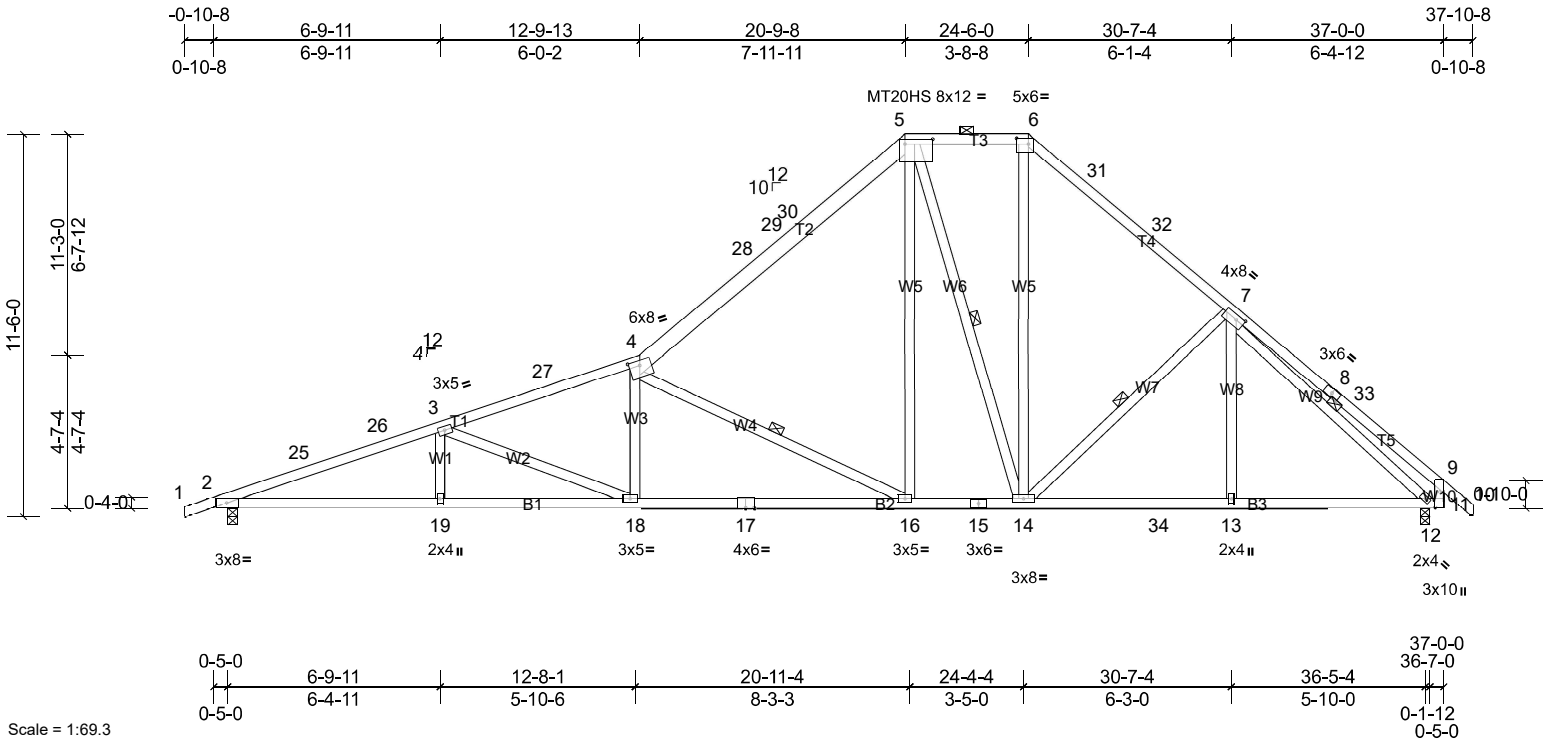
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3650/272, 23-24=-3582/282, 3-24=-3560/294, 3-25=-3171/261, 4-25=-3126/273, 4-26=-1936/219, 26-27=-1729/221, 27-28=-1704/225, 5-28=-1674/261, 5-29=-1227/270, 6-29=-1227/270, 6-30=-1534/290, 30-31=-1590/265, 7-31=-1808/236, 7-32=-1772/196, 32-33=-1934/164, 8-33=-2038/162, 8-9=-1629/157
BOT CHORD 2-17=-261/3398, 16-17=-261/3398, 15-16=-184/2986, 14-15=-184/2986, 13-14=0/1341, 12-13=0/1341, 12-34=-61/1486, 11-34=-61/1486
WEBS 3-16=-642/96, 4-16=0/406, 4-14=-1877/241, 5-14=-34/996, 5-12=-485/55, 6-12=-93/723, 7-12=-449/145, 8-11=0/1446

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-8-14, Interior (1) 2-8-14 to 20-9-8, Exterior (2) 20-9-8 to 28-1-2, Interior (1) 28-1-2 to 36-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	D2	Piggyback Base	5	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:29 Page: 1
ID:maXSRICnPCTYIA8ZCiwooayDSZX-SEk65aZfRXnF5xRC5k3pmCcnsTs8C9KAiH61wGznF6G



Scale = 1:69.3

Plate Offsets (X, Y): [4:0-4-0,0-1-12], [5:0-10-0,0-1-12], [6:0-4-4,0-2-0], [7:0-3-0,0-1-12], [11:0-5-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.21	18-19	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.45	16-18	>970	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.12	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 246 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* T2:2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10:2x4 SP No.3

REACTIONS (lb/size) 2=1308/0-3-8, (min. 0-1-13), 12=1311/0-3-8, (min. 0-2-0)
Max Horiz 2=238 (LC 14)
Max Uplift 2=-11 (LC 15)
Max Grav 2=1532 (LC 2), 12=1716 (LC 40)

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-3-4 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-16, 5-14, 7-14, 7-12

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

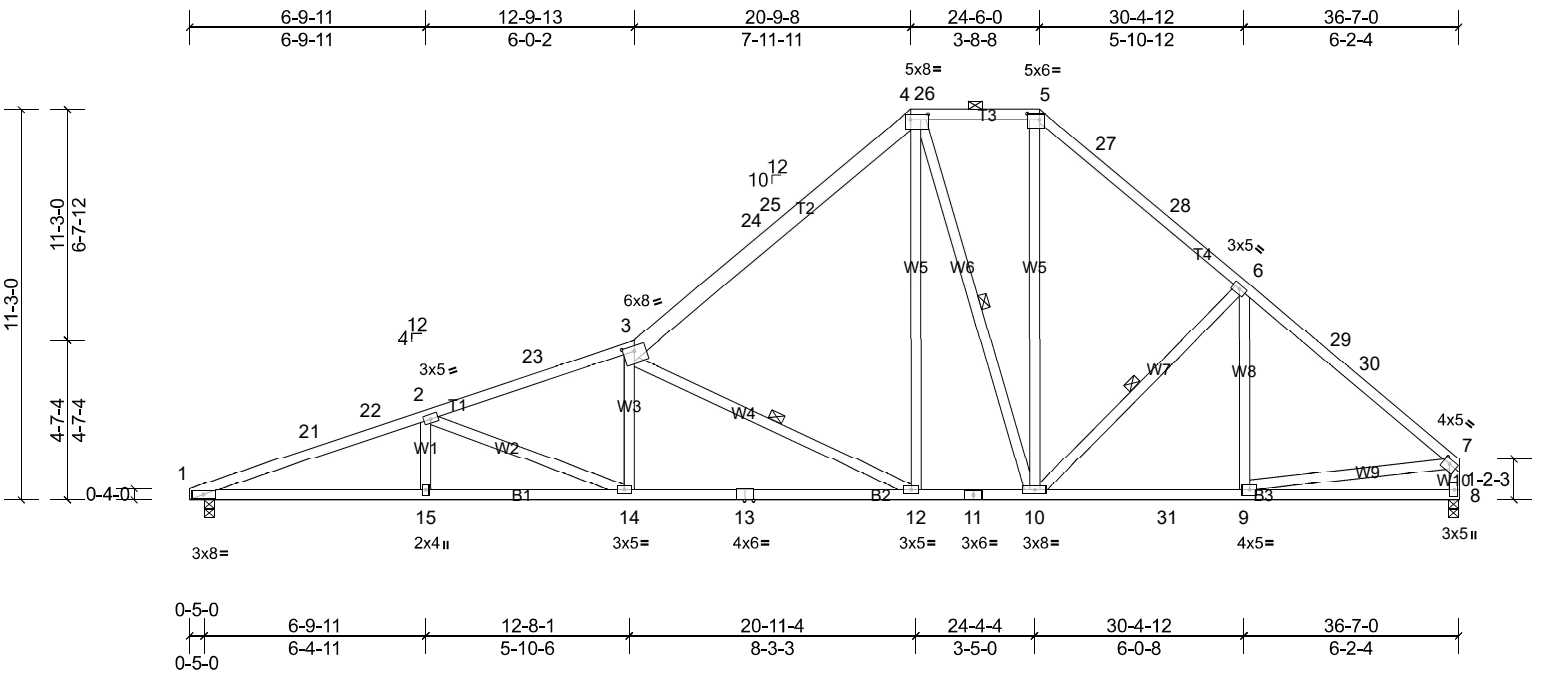
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-25=-3558/349, 25-26=-3491/359, 3-26=-3475/370, 3-27=-3093/339, 4-27=-3050/351, 4-28=-1941/262, 28-29=-1699/265, 29-30=-1676/268, 5-30=-1646/296, 5-6=-1209/301, 6-31=-1503/316, 31-32=-1568/296, 7-32=-1776/280, 7-8=-444/190, 8-33=-478/163, 9-33=-516/163, 9-11=-490/214
BOT CHORD 2-19=-273/3312, 18-19=-273/3312, 17-18=-201/2915, 16-17=-201/2915, 15-16=0/1317, 14-15=0/1317, 14-34=-42/1507, 13-34=-42/1507, 12-13=-43/1507, 11-12=-10/324
WEBS 3-18=-655/99, 4-18=0/408, 4-16=-1823/287, 5-16=-55/973, 5-14=-465/69, 6-14=-104/712, 7-14=-478/154, 7-12=-1666/46

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-9-3, Interior (1) 2-9-3 to 20-9-8, Exterior (2) 20-9-8 to 28-1-6, Interior (1) 28-1-6 to 37-9-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) One RT7A MiTek 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) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) 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	Lmaco - Jason Price Residence
21110096	D2A	Piggyback Base	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:29 Page: 1
ID:ui_xacbwJXyE2rRgRLUmzqyDSXk-SEk65aZfRXnF5xRC5k3pmCcspTrsC9vAiH61wGznF6G



Scale = 1:66.4

Plate Offsets (X, Y): [3:0-4-0,0-1-12], [4:0-6-0,0-1-12], [5:0-4-4,0-2-0], [7:0-2-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.20	14-15	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.46	12-14	>955	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.11	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 239 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* T2:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W1,W3,W10:2x4 SP No.3

REACTIONS (lb/size) 1=1312/0-3-8, (min. 0-1-13), 8=1327/0-3-8, (min. 0-2-1)
Max Horiz 1=232 (LC 14)
Max Grav 1=1524 (LC 2), 8=1733 (LC 39)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-4 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12, 4-10, 6-10

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

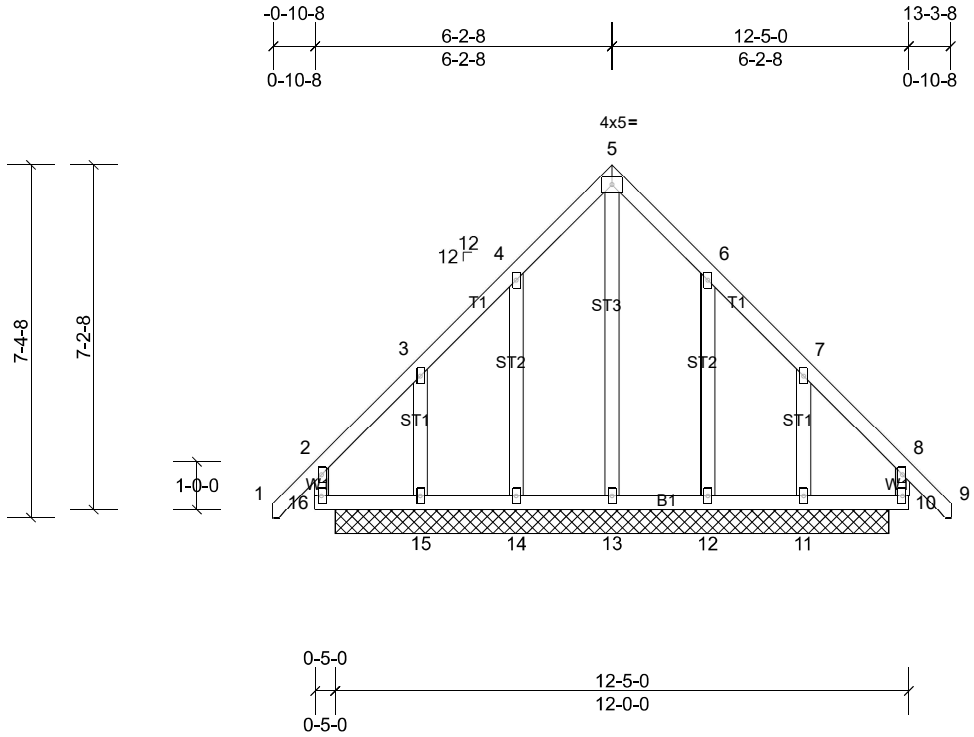
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-3697/312, 21-22=-3630/312, 2-22=-3608/325, 2-23=-3205/261, 3-23=-3160/283, 3-24=-1962/220, 24-25=-1756/222, 4-25=-1734/262, 4-26=-1247/270, 5-26=-1247/270, 5-27=-1551/288, 27-28=-1617/263, 6-28=-1835/234, 6-29=-1850/187, 29-30=-2012/155, 7-30=-2117/153, 7-8=-1673/151
BOT CHORD 1-15=-262/3444, 14-15=-262/3444, 13-14=-184/3019, 12-13=-184/3019, 11-12=0/1362, 10-11=0/1362, 10-31=-54/1546, 9-31=-54/1546
WEBS 2-14=-653/111, 3-14=0/406, 3-12=-1891/247, 4-12=-36/1010, 4-10=-484/56, 5-10=-93/743, 6-10=-495/138, 7-9=0/1406

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-0 to 3-7-14, Interior (1) 3-7-14 to 20-9-8, Exterior (2) 20-9-8 to 28-1-14, Interior (1) 28-1-14 to 36-5-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) 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	Lmaco - Jason Price Residence
21110096	G1E	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:30 Page: 1
ID:h5vR66GSCH?AP?04zbwoVTyDRI6-wRIVJwZHCrv6j50OfRa2JQ98KtLOxjdJxxsaSiznF6F



Scale = 1:48.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 82 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 *Except* ST3:2x4 SP No.2

BRACING

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

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

REACTIONS All bearings 11-7-0.
(lb) - Max Horiz 15=-162 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 11, 15 except 12=-126 (LC 9), 14=-127 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 12, 14 except 11=340 (LC 30), 13=368 (LC 2), 15=340 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-13=-314/43

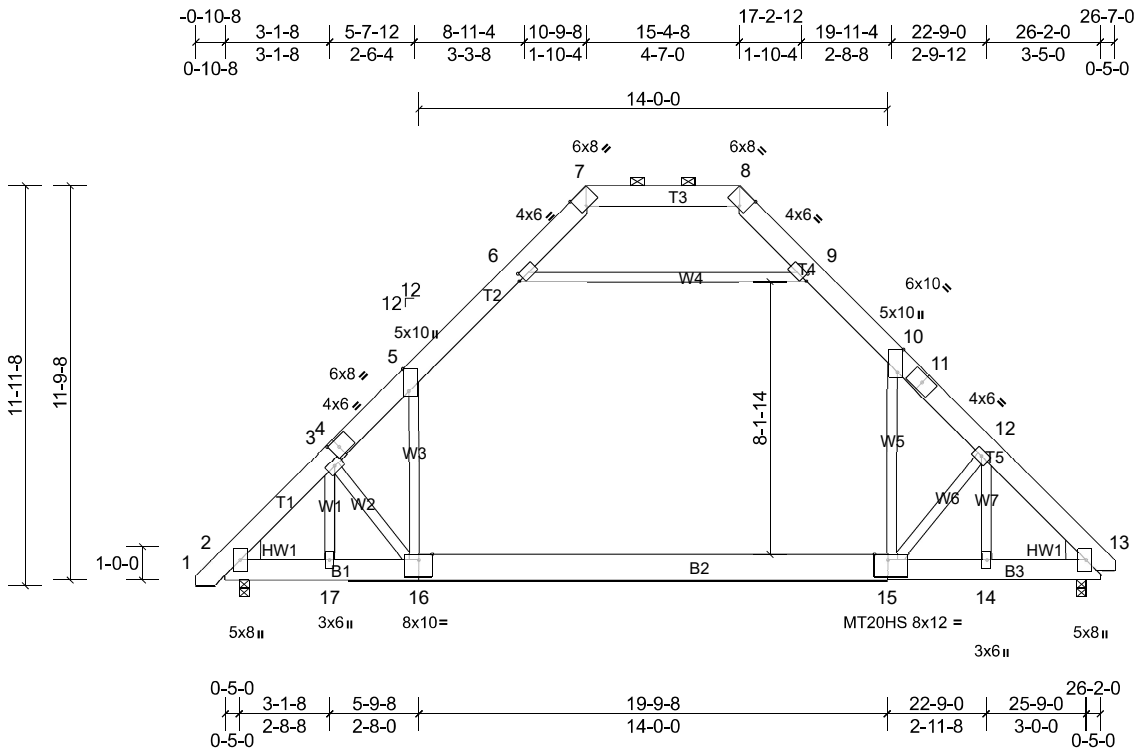
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (3) -0-9-12 to 2-2-8, Exterior (2) 2-2-8 to 6-2-8, Corner (3) 6-2-8 to 9-2-8, Exterior (2) 9-2-8 to 13-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) All plates are 2x4 MT20 unless otherwise indicated.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
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.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13, 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
11) Non Standard bearing condition. Review required.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G1G-3	Attic Girder	1	3	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:30 Page: 1
ID:s_fSXdPsBa0rLc03cyEIuPyDRPg-wRIVJwZHCrv6j50OfRa2JQ91ItFlxdlJxxsaSiznF6F



Scale = 1:68.9

Plate Offsets (X, Y): [4:0-3-1,0-3-0], [5:0-8-2,Edge], [6:0-1-9,0-2-4], [7:0-2-14,Edge], [8:0-2-14,Edge], [9:0-1-9,0-2-4], [10:0-8-2,Edge], [15:0-4-12,Edge], [16:0-4-12,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.30	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.43	15-16	>739	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.02	13	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.19	15-16	>889	360		
BCDL	10.0										Weight: 782 lb	FT = 20%

LUMBER

TOP CHORD	2x8 SP 2400F 2.0E
BOT CHORD	2x8 SP 2400F 2.0E *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* W3,W5,W4:2x4 SP No.2
WEDGE	Left: 2x8 SP 2400F 2.0E Right: 2x8 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2836/0-3-8, (min. 0-1-8), 13=2266/0-3-8, (min. 0-1-8)
Max Horiz 2=224 (LC 8)
Max Grav 2=5136 (LC 22), 13=4597 (LC 16)

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

TOP CHORD	2-3=-5501/0, 3-4=-6835/0, 4-5=-6791/0, 5-6=-2931/0, 6-7=0/1179, 7-8=0/1777, 8-9=0/1193, 9-10=-2938/0, 10-11=-6156/0, 11-12=-6205/0, 12-13=-4549/0
BOT CHORD	2-17=0/3931, 16-17=0/3931, 15-16=0/3692, 14-15=0/3187, 13-14=0/3187
WEBS	3-17=-2200/0, 3-16=-783/418, 5-16=0/5741, 10-15=0/4838, 12-15=-233/771, 12-14=-2550/0, 6-9=-5469/0

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
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) All plates are MT20 plates unless otherwise indicated.
9) The Fabrication Tolerance at joint 15 = 16%
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) Ceiling dead load (10.0 psf) on member(s). 5-6, 9-10, 6-9
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-16
13) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G1G-3	Attic Girder	1	**3**	Job Reference (optional)

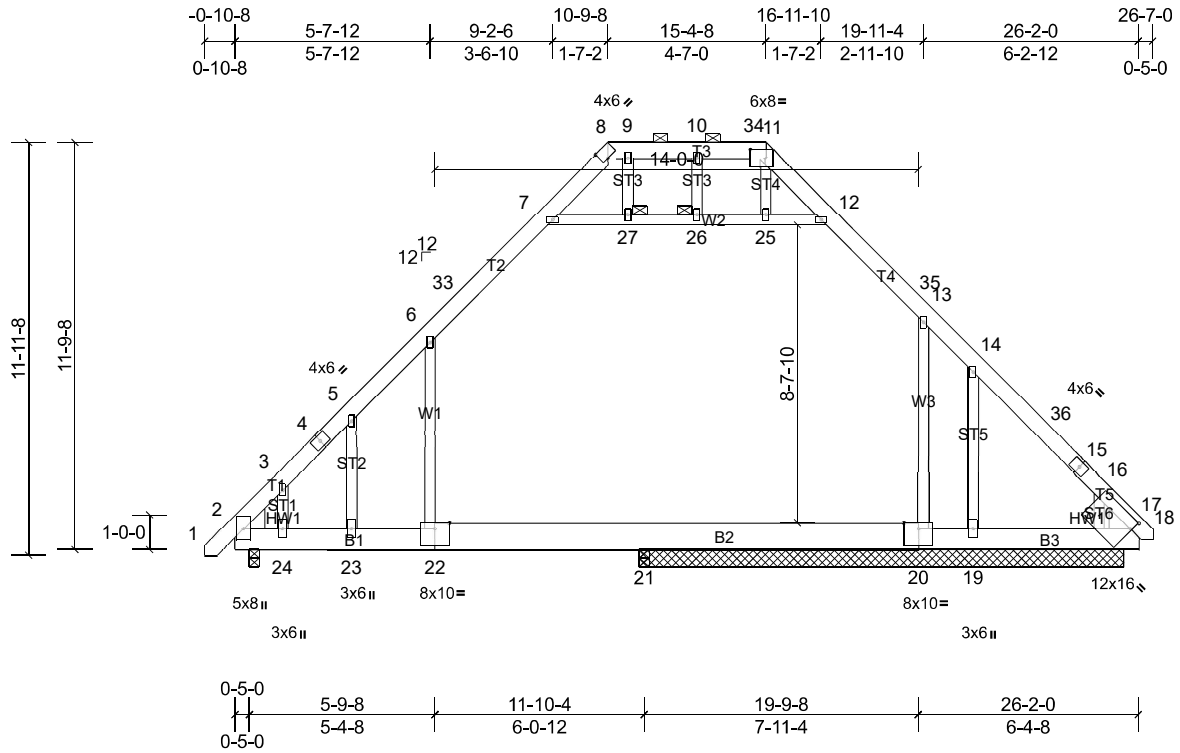
14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2362 lb down and 49 lb up at 5-7-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-5=-56, 5-6=-84, 6-7=-57, 7-8=-58, 8-9=-57, 9-10=-84, 10-13=-56, 16-18=-20, 15-16=-96, 15-27=-86, 23-27=-20, 6-9=-20
   Concentrated Loads (lb)
   Vert: 16=-1320
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-5=-58, 5-6=-87, 6-7=-59, 7-8=-50, 8-9=-59, 9-10=-87, 10-13=-58, 16-18=-20, 15-16=-288, 15-27=-218, 23-27=-20, 6-9=-20
   Concentrated Loads (lb)
   Vert: 16=-2208

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G2E	Attic Structural Gable	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:30 Page: 1
ID:oEYC?VPI99wNnxVElUdvaIyDRJE-wRIVJwZHCrv6j50OfRa2JQ95VtLOxi2JxxsaSiznF6F



Scale = 1:66.7

Plate Offsets (X, Y): [8:0-2-2,Edge], [11:0-5-8,0-3-0], [17:0-0-12,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.05	22-23	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.09	22-23	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.05	21-22	>999	360		
BCDL	10.0										Weight: 235 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.3
WEDGE	Left: 2x8 SP 2400F 2.0E Right: 2x8 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 8-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 26, 27

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

REACTIONS All bearings 14-0-8. except 2=0-3-8, 21=0-3-8
(lb) - Max Horiz 2=218 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 17 except 19=-369 (LC 14), 20=-279 (LC 30)
Max Grav All reactions 250 (lb) or less at joint(s) except 2=990 (LC 2), 17=669 (LC 26), 19=644 (LC 2), 20=385 (LC 13), 21=1140 (LC 20)

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

TOP CHORD	2-3=-795/0, 3-4=-804/0, 4-5=-727/0, 5-6=-757/49, 6-33=-762/109, 7-33=-720/151, 7-8=-391/56, 8-9=-255/42, 9-10=-255/42, 10-34=-255/42, 11-34=-258/41, 11-12=-404/46, 12-35=-614/158, 13-35=-735/118, 13-14=-980/318, 14-36=-666/72, 15-36=-724/55, 15-16=-769/46
BOT CHORD	2-24=-119/568, 23-24=-31/568, 22-23=-31/568, 21-22=-29/572, 20-21=-29/569, 19-20=-25/555, 17-19=-28/563
WEBS	13-20=-297/368, 7-27=-443/198, 26-27=-442/198, 25-26=-442/198, 12-25=-443/198, 16-17=-782/41, 14-19=-797/549

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-8-6 to 2-3-10, Interior (1) 2-3-10 to 10-9-8, Exterior (2) 10-9-8 to 15-0-7, Interior (1) 15-0-7 to 15-4-8, Exterior (2) 15-4-8 to 19-7-7, Interior (1) 19-7-7 to 26-4-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) 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) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
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.
10) Ceiling dead load (10.0 psf) on member(s). 6-7, 12-13, 7-27, 26-27, 25-26, 12-25

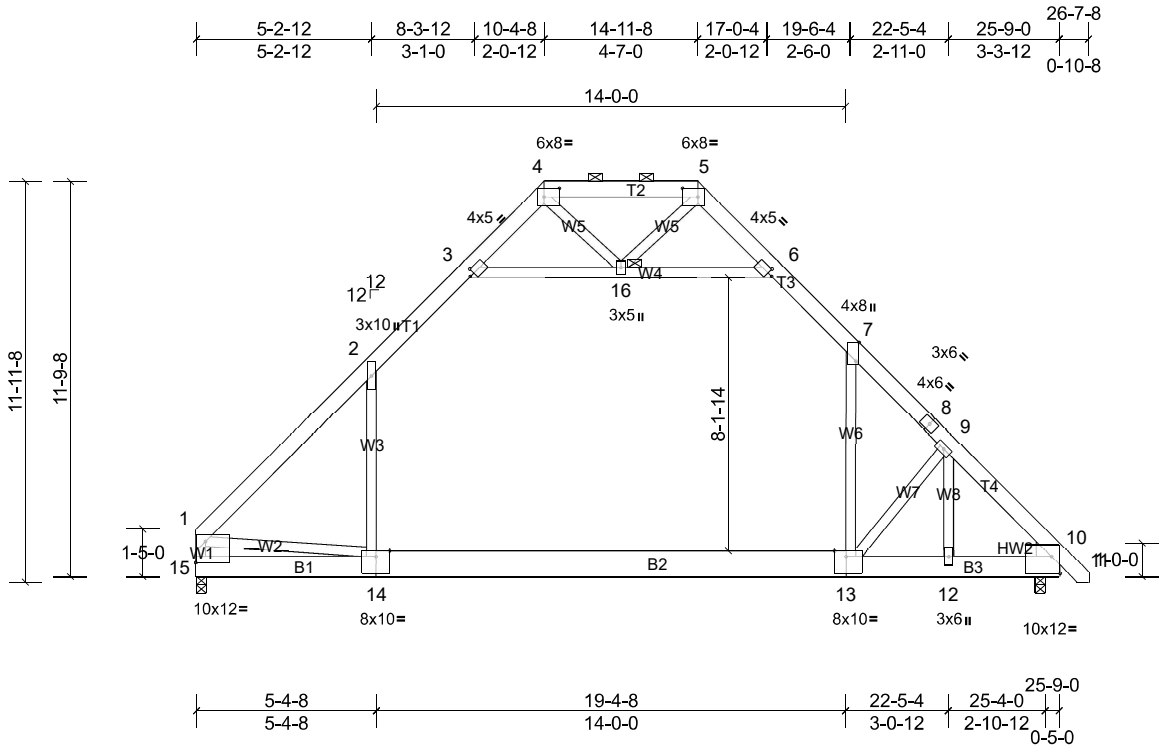
Continued on page 2

11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 21-22, 20-21
12) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20, 17, 19, 2, and 21. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G2G-3	Attic Girder	1	3	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:31 Page: 1
ID:Cu5WMSB3EIyiC6nVapZtVvyE68X-PdstWGawz91zLFbbC95Hrdh7fHbTg7vTAbb7_9znF6E



Scale = 1:68.8

Plate Offsets (X, Y): [3:0-1-13,0-2-0], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [6:0-1-13,0-2-0], [7:0-6-10,Edge], [10:Edge,0-6-0], [13:0-4-0,Edge], [14:0-4-12,Edge], [15:Edge,0-7-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.42	13-14	>728	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.60	13-14	>509	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.24	13-14	>712	360		
BCDL	10.0										Weight: 708 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T2,T4:2x6 SP No.2
BOT CHORD	2x8 SP 2400F 2.0E *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.3 *Except* W3,W6,W4,W1:2x4 SP No.2
WEDGE	Right: 2x6 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 16

REACTIONS (lb/size) 10=2311/0-3-8, (min. 0-1-8), 15=2771/0-3-8, (min. 0-1-8)
Max Horiz 15=-239 (LC 7)
Max Grav 10=4670 (LC 16), 15=5074 (LC 22)

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

TOP CHORD	1-2=-5642/0, 2-3=-2912/0, 3-4=0/970, 4-5=0/1451, 5-6=0/957, 6-7=-2767/0, 7-8=-5966/0, 8-9=-6018/0, 9-10=-4256/0, 1-15=-4949/0
BOT CHORD	14-15=-137/1420, 13-14=0/3552, 12-13=0/3058, 10-12=0/3058
WEBS	2-14=0/3912, 7-13=0/4776, 9-13=-239/835, 9-12=-2786/0, 3-16=-5229/0, 6-16=-4972/0, 1-14=0/2362, 4-16=0/332

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
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) * 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) Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-16, 6-16
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 10. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

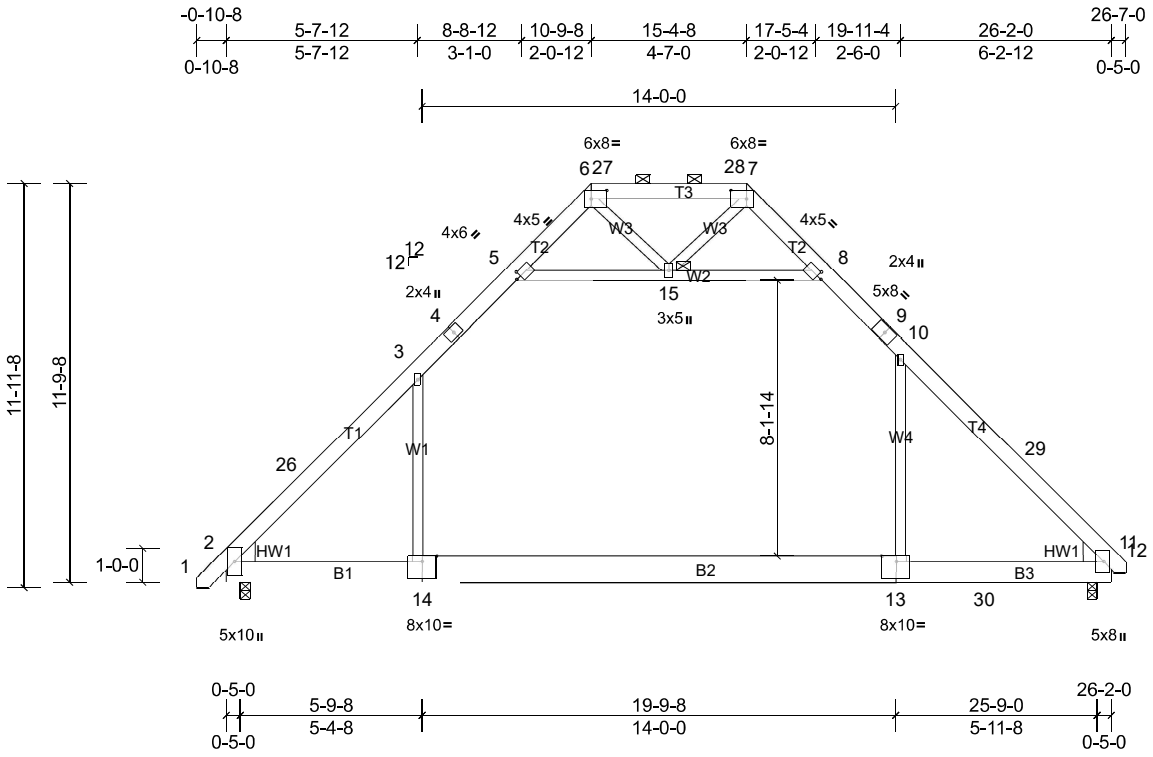
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2436 lb down and 49 lb up at 5-2-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-56, 2-3=-84, 3-4=-57, 4-5=-58, 5-6=-57, 6-7=-84, 7-11=-56, 14-15=-20, 13-14=-96 (F=-66), 13-21=-86 (F=-66), 17-21=-20, 3-16=-20, 6-16=-20
   Concentrated Loads (lb)
   Vert: 14=-1320
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-58, 2-3=-87, 3-4=-59, 4-5=-50, 5-6=-59, 6-7=-87, 7-11=-58, 14-15=-20, 13-14=-288 (F=-198), 13-21=-218 (F=-198), 17-21=-20, 3-16=-20, 6-16=-20
   Concentrated Loads (lb)
   Vert: 14=-2208

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G3	Attic	3	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:31 Page: 1
ID:5t2923nVBVGZOXJ7crz9m2yDRdP-PdstWGawz91zLFbbC95HrdhCfHdsg7zTAbb7_9znF6E



Scale = 1:68.1

Plate Offsets (X, Y): [5:0-1-13,0-2-0], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [8:0-1-13,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.35	13-14	>897	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.53	13-14	>595	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.22	13-14	>772	360		
BCDL	10.0										Weight: 223 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E
BOT CHORD	2x8 SP 2400F 2.0E *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* W3:2x4 SP No.3
WEDGE	Left: 2x8 SP 2400F 2.0E Right: 2x8 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 15

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

REACTIONS (lb/size) 2=1280/0-3-8, (min. 0-1-8), 11=1240/0-3-8, (min. 0-1-8)
Max Horiz 2=226 (LC 12)
Max Grav 2=1738 (LC 26), 11=1718 (LC 27)

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

TOP CHORD	2-26=-2099/0, 3-26=-1922/0, 3-4=-1294/35, 4-5=-1139/96, 5-6=-314/130, 7-8=-309/126, 8-9=-1106/100, 9-10=-1229/52, 10-29=-1865/0, 11-29=-2064/0
BOT CHORD	2-14=-23/1264, 13-14=0/1283, 13-30=0/1261, 11-30=0/1261
WEBS	3-14=0/991, 10-13=0/1003, 5-15=-1484/100, 8-15=-1427/107

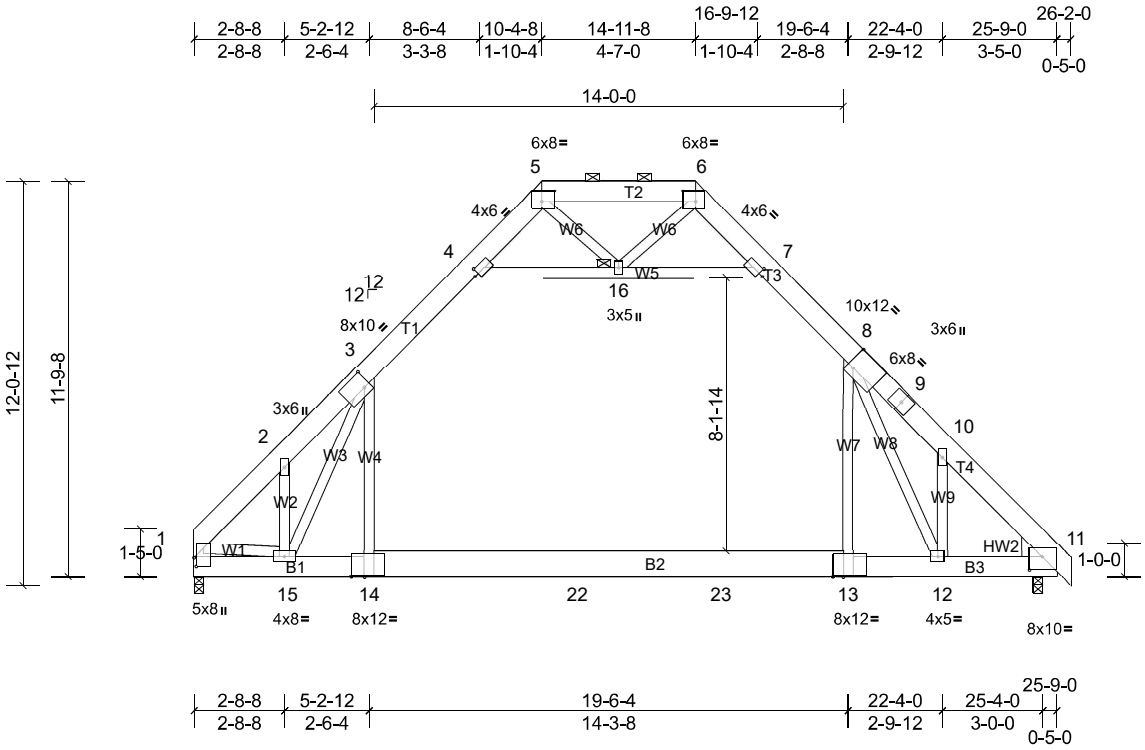
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-8-6 to 2-3-10, Interior (1) 2-3-10 to 10-9-8, Exterior (2) 10-9-8 to 15-0-7, Interior (1) 15-0-7 to 15-4-8, Exterior (2) 15-4-8 to 19-7-7, Interior (1) 19-7-7 to 26-4-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Provide adequate drainage to prevent water ponding.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Ceiling dead load (10.0 psf) on member(s). 3-5, 8-10, 5-15, 8-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G3G-2	Attic Girder	1	2	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:31 Page: 1
ID:cw2LTgPwCsdQ_oJseV3XV5yDRE3-PdstWGawz91zLFbbC95HrdhCfHUyg5OTAbb7_9znF6E



Scale = 1:68.8

Plate Offsets (X, Y): [1:0-3-0,0-1-0], [3:0-2-4,0-5-8], [4:0-1-9,0-2-4], [5:0-4-8,0-3-12], [6:0-4-8,0-3-12], [7:0-1-9,0-2-4], [8:0-2-3,Edge], [11:0-4-8,0-4-12], [13:0-3-12,0-0-2], [14:0-4-12,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.59	13-14	>535	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.87	13-14	>363	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.01	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH		Attic	-0.47	13-14	>363	360		
BCDL	10.0										Weight: 546 lb	FT = 20%

LUMBER

TOP CHORD	2x8 SP 2400F 2.0E
BOT CHORD	2x8 SP 2400F 2.0E *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2 *Except* W9,W6,W2,W1:2x4 SP No.3
WEDGE	Right: 2x8 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 16

REACTIONS (lb/size) 1=2245/0-3-8, (min. 0-1-8), 11=2467/0-3-8, (min. 0-1-10)
Max Horiz 1=-216 (LC 5)
Max Grav 1=3495 (LC 22), 11=3864 (LC 23)

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

TOP CHORD	1-2=-4270/0, 2-3=-5591/0, 3-4=-2736/0, 4-5=-34/618, 5-6=-15/981, 6-7=-34/599, 7-8=-2518/0, 8-9=-5285/0, 9-10=-5392/0, 10-11=-4147/0
BOT CHORD	1-15=0/3286, 14-15=0/3256, 14-22=0/3196, 22-23=0/3196, 13-23=0/3196, 12-13=0/3245, 11-12=0/2929
WEBS	3-14=0/4308, 8-13=0/4685, 8-12=-755/176, 10-12=-1930/148, 4-16=-4454/30, 7-16=-4152/23, 5-16=-48/489, 3-15=-454/254, 2-15=-2185/94

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x10 - 3 rows staggered at 0-8-0 oc.
   Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
6) Provide adequate drainage to prevent water ponding.
7) The Fabrication Tolerance at joint 14 = 16%
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) Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-16, 7-16
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
11) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 11. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

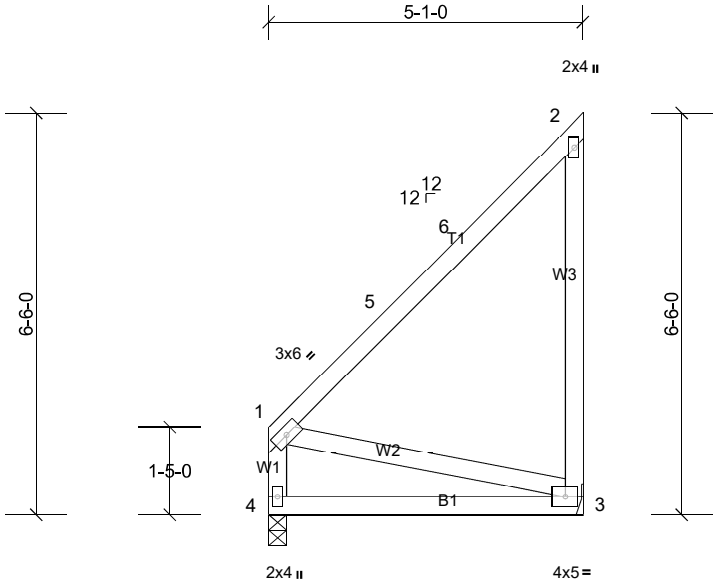
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2004 lb down and 42 lb up at 11-5-4, and 2004 lb down and 42 lb up at 15-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-56, 3-4=-84, 4-5=-57, 5-6=-58, 6-7=-57, 7-8=-84, 8-11=-56, 1-15=-20, 14-15=-20, 13-14=-30, 13-17=-20, 4-16=-20, 7-16=-20
Concentrated Loads (lb)
Vert: 22=-1120, 23=-1120

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G4	Monopitch	4	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:32 Page: 1
ID:0MTwU2M6lYX9sYseGnMjWNyDRfE-tpQFjcbYkS9qyPAnmsdWOrENfh0hPf9cOFLhWbznF6D



Scale = 1:37.3

5-1-0

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-6-13 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=162/ Mechanical, (min. 0-1-8), 4=162/0-3-8, (min. 0-1-8)
Max Horiz 4=181 (LC 10)
Max Uplift 3=-102 (LC 10), 4=-9 (LC 9)
Max Grav 3=241 (LC 24), 4=240 (LC 25)

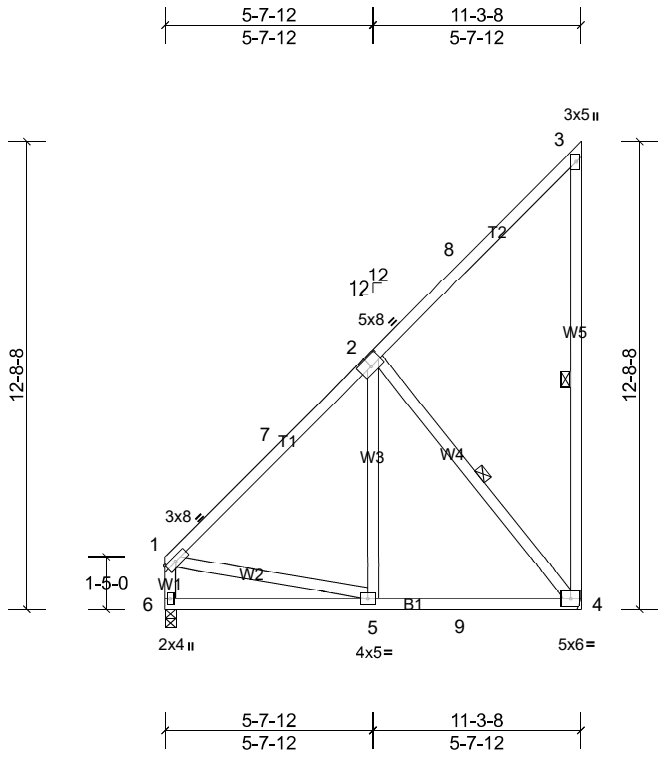
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-265/225, 2-6=-244/261, 2-3=-293/247
BOT CHORD 3-4=-369/352
WEBS 1-3=-276/302

NOTES
1) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 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
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G5	Monopitch	2	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:32 Page: 1
ID:IMmR7NQB6aiEVZvehOzRMwyDRgS-tpQFjcbYkS9qyPAnmsdWOrENth_BPfWcOFLhWbznF6D



Scale = 1:62.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.05	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.07	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W5:2x4 SP 2400F 2.0E, W1:2x4 SP No.3

REACTIONS (lb/size) 4=372/ Mechanical, (min. 0-1-8), 6=372/0-3-8, (min. 0-1-8)
Max Horiz 6=371 (LC 10)
Max Uplift 4=-179 (LC 10)
Max Grav 4=570 (LC 24), 6=536 (LC 25)

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.
WEBS 1 Row at midpt 3-4, 2-4

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

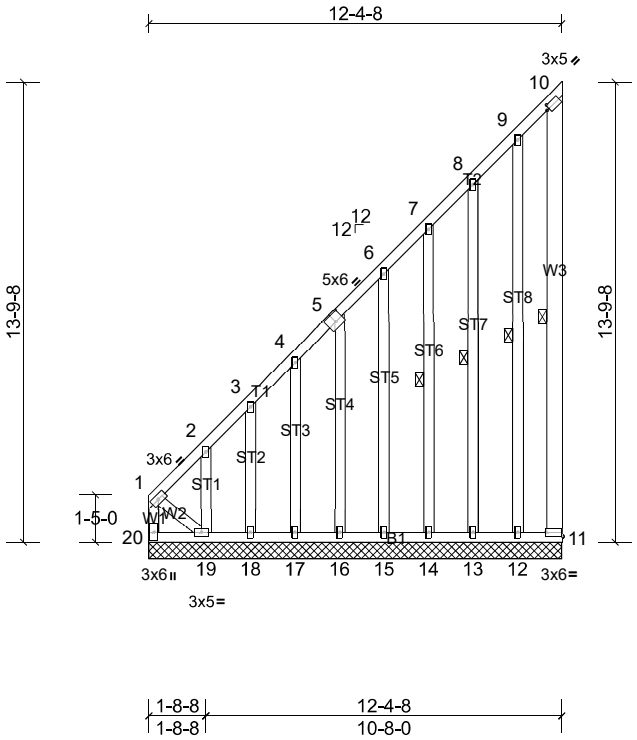
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-549/137, 2-7=-443/183, 2-8=-319/280, 3-8=-288/314, 3-4=-311/255, 1-6=-499/125
BOT CHORD 5-6=-683/743, 5-9=-305/492, 4-9=-305/492
WEBS 2-4=-507/253, 1-5=-260/387

NOTES
1) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 4.
6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G5E	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:32 Page: 1
ID:jr96OxxaaGCaJ1IhvzmiWTyDR6w-tpQFjcbYkS9qyPAnmsdWOrEL8hx3PeacOFLhWbznF6D



Scale = 1:69.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	11	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 165 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Except* W3:2x6 SP No.2, W2:2x4 SP No.3
OTHERS	2x4 SP No.2 *Except* ST2,ST1:2x4 SP No.3

REACTIONS All bearings 12-4-8.

(lb) - Max Horiz 20=402 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18 except 11=-196 (LC 12), 19=-266 (LC 10), 20=-291 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 11, 12, 13, 14, 15, 16, 17, 18 except 19=257 (LC 11), 20=535 (LC 10)

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: 6-10-1 oc bracing: 19-20.
WEBS	1 Row at midpt 10-11, 9-12, 8-13, 7-14

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

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

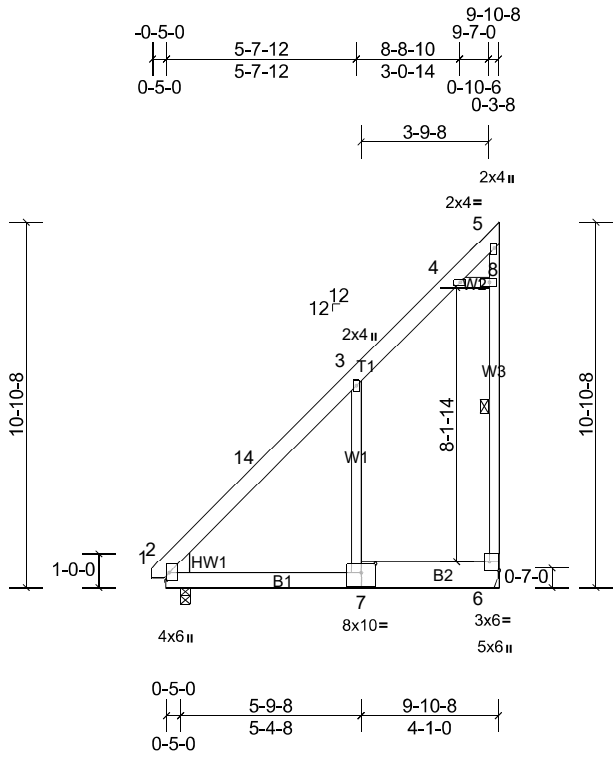
TOP CHORD	1-20=-1020/953, 1-2=-810/782, 2-3=-727/709, 3-4=-653/649, 4-5=-593/601, 5-6=-520/543, 6-7=-442/479, 7-8=-373/425, 8-9=-300/365
BOT CHORD	19-20=-752/778, 18-19=-214/272, 17-18=-214/272, 16-17=-214/272, 15-16=-218/275, 14-15=-218/275, 13-14=-218/275, 12-13=-218/275, 11-12=-218/275
WEBS	9-12=-305/224, 1-19=-724/764

NOTES

1) Wind: ASCE 7-10; 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 (3) 0-1-12 to 3-0-8, Exterior (2) 3-0-8 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.
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 RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20, 11, 12, 13, 14, 15, 16, 17, 18, and 19. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	G6	Roof Special	4	1	Job Reference (optional)



Scale = 1:68.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.16	7-13	>712	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.28	7-13	>425	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E
WEBS	2x4 SP No.2
WEDGE	Left: 2x8 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-2-13 oc bracing.
WEBS	1 Row at midpt 5-6

REACTIONS (lb/size) 2=400/0-3-8, (min. 0-1-8), 6=352/ Mechanical, (min. 0-1-8)
Max Horiz 2=304 (LC 12)
Max Uplift 6=-123 (LC 10)
Max Grav 2=528 (LC 27), 6=573 (LC 26)

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

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

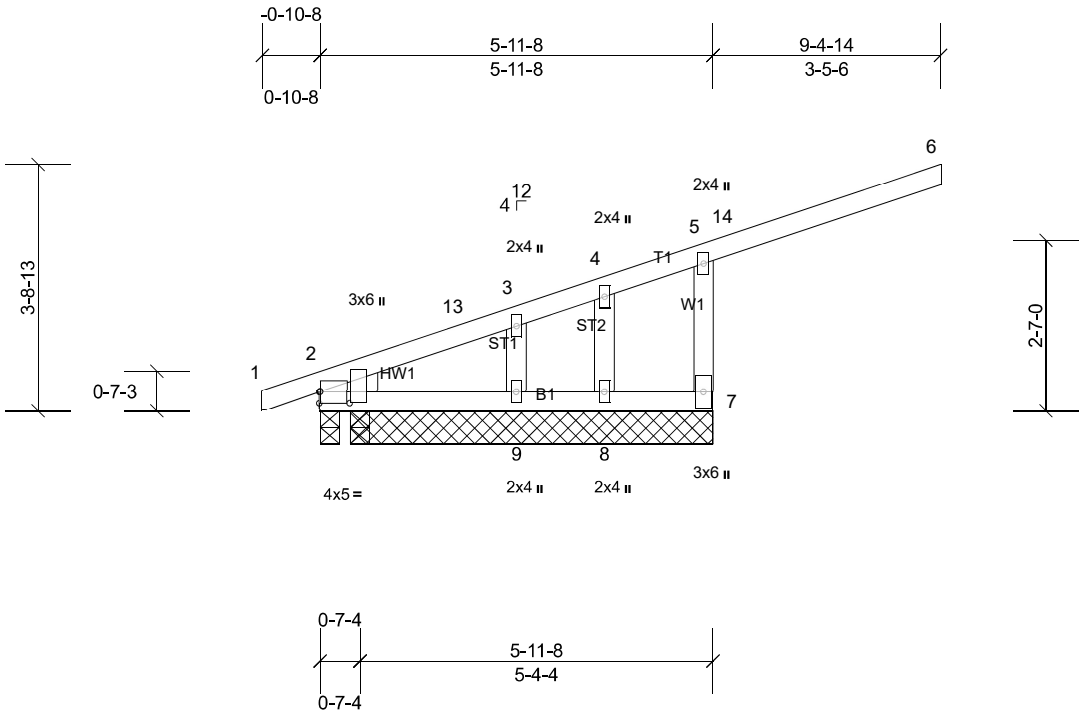
TOP CHORD	2-14=-500/431, 3-14=-481/478, 3-4=-256/277, 4-5=-183/325, 6-8=-329/184, 5-8=-329/186
BOT CHORD	2-7=-357/391
WEBS	3-7=-380/273, 4-8=-532/448

NOTES

1) Wind: ASCE 7-10; 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 (2) -0-2-14 to 2-9-2, Interior (1) 2-9-2 to 9-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; 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.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 6.
6) One RT7A MiTek 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.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	H1E	Monopitch Structural Gable	2	1	Job Reference (optional)



Scale = 1:34.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	0.00	9-12	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	9-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 5-6-0. except 2=0-3-8
(lb) - Max Horiz 2=109 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 9 except 7=-222 (LC 12), 8=-438 (LC 21)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 8 except 7=694 (LC 21), 9=294 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-7=-680/565
WEBS 4-8=-387/462

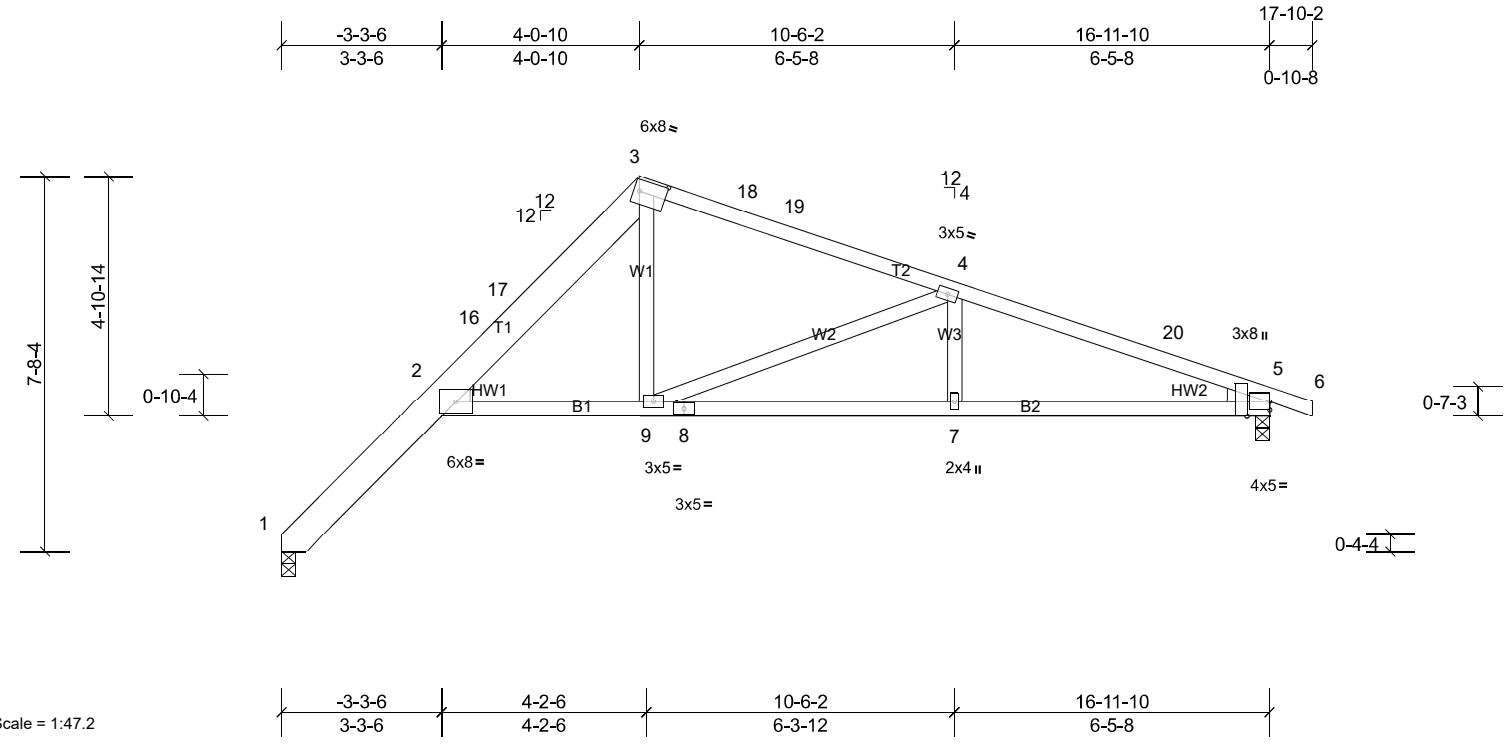
NOTES

1) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-1-13, Interior (1) 2-1-13 to 9-4-14 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
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 studs spaced at 1-4-0 oc.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 2, 9, and 8. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	H2	Roof Special	4	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:32 Page: 1
ID:sXWf8GrZfli_a0wTFLvC?wyE6a5-tpQFjcbYkS9qyPAnmsdWOrENVhyoPZacOFLhWbznF6D



Scale = 1:47.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.18	9-12	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.37	9-12	>657	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.34	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER
TOP CHORD 2x8 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

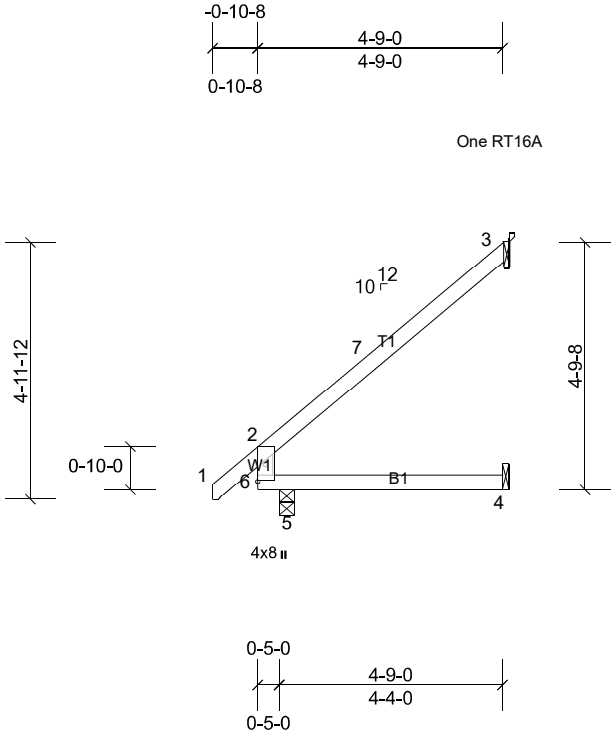
REACTIONS (lb/size) 1=718/0-3-8, (min. 0-3-3), 5=727/0-3-8, (min. 0-1-8)
Max Horiz 1=-132 (LC 13)
Max Uplift 5=-34 (LC 12)
Max Grav 1=841 (LC 2), 5=861 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-575/51, 2-16=-1499/198, 16-17=-1004/129, 3-17=-979/155, 3-18=-920/175, 18-19=-938/164, 4-19=-1004/164, 4-20=-1555/204, 5-20=-1651/185
BOT CHORD 2-9=-165/1247, 8-9=-142/1517, 7-8=-142/1517, 5-7=-142/1517
WEBS 3-9=0/484, 4-9=-697/103

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-3-6, Interior (1) 3-3-6 to 7-4-0, Exterior (2) 7-4-0 to 10-4-0, Interior (1) 10-4-0 to 21-1-3 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	J1	Jack-Open	15	1	Job Reference (optional)



Scale = 1:44.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 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 4-9-0 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=91/ Mechanical, (min. 0-1-8), 4=38/ Mechanical, (min. 0-1-8), 5=226/0-3-8, (min. 0-1-8)
Max Horiz 5=115 (LC 13)
Max Uplift 3=-72 (LC 13)
Max Grav 3=127 (LC 25), 4=47 (LC 11), 5=271 (LC 2)

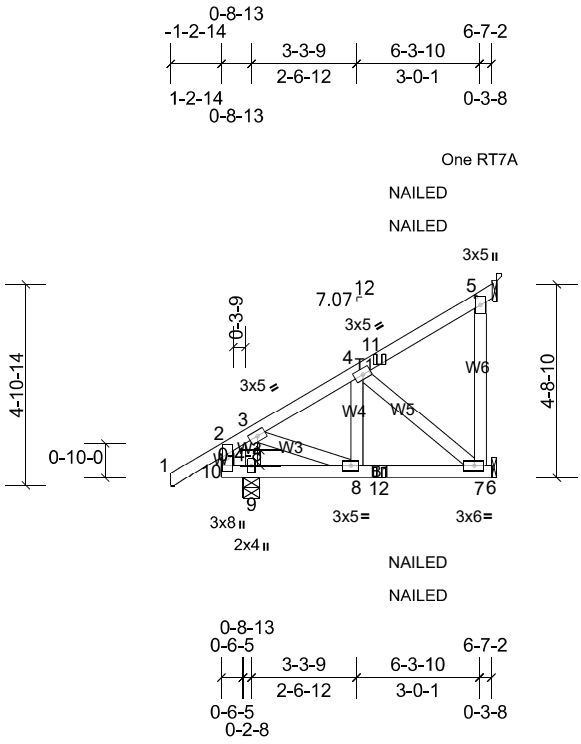
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 4-8-4 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
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	J1G	Diagonal Hip Girder	2	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:33 Page: 1
ID:Sk5UKb1dOo39ApGimU?9nTyE42S-L0_dxycAVmHhaZkzKZ8lw2nej4Mx88Zmdv4E31znF6C



Scale = 1:56.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.00	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 43 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 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) 5=60/ Mechanical, (min. 0-1-8), 7=110/ Mechanical, (min. 0-1-8), 9=303/0-4-15, (min. 0-1-8)
Max Horiz 9=110 (LC 9)
Max Uplift 5=-33 (LC 9), 7=-38 (LC 9), 9=-4 (LC 9)
Max Grav 5=80 (LC 21), 7=153 (LC 21), 9=362 (LC 2)

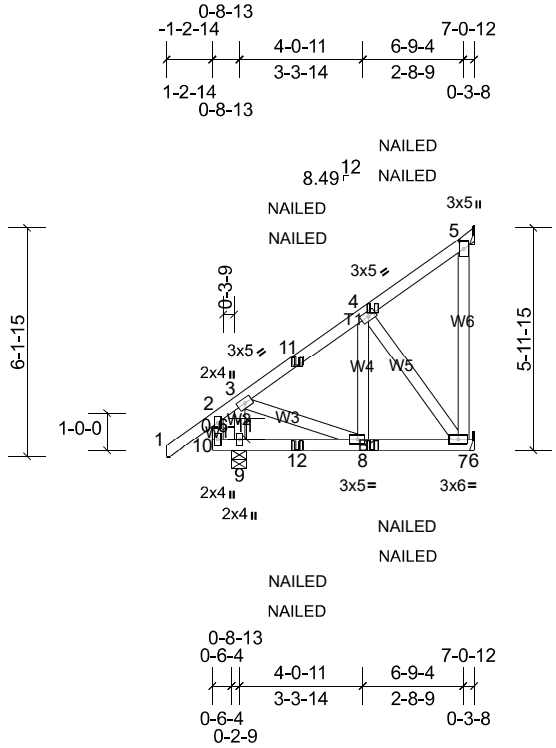
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; 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) * 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 33 lb uplift at joint 5.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 9. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
12) 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, 2-5=-48, 6-10=-20
Concentrated Loads (lb)
Vert: 12=13 (F=7, B=7)

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	J1KG	Diagonal Hip Girder	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:33 Page: 1
ID:f1yUx48e3kkh85VTSbELSuyDRtj-L0_dxycAVmHhaZkzKZ8lw2nc?4MS87Amdv4E31znF6C



Scale = 1:62.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.01	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.01	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 52 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W6:2x4 SP No.2

REACTIONS (lb/size) 5=59/ Mechanical, (min. 0-1-8), 7=109/ Mechanical, (min. 0-1-8), 9=249/0-4-15, (min. 0-1-8)
Max Horiz 9=141 (LC 9)
Max Uplift 5=-37 (LC 40), 7=-142 (LC 9), 9=-149 (LC 5)
Max Grav 5=84 (LC 30), 7=190 (LC 21), 9=340 (LC 23)

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: 7-8.

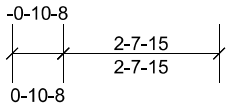
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

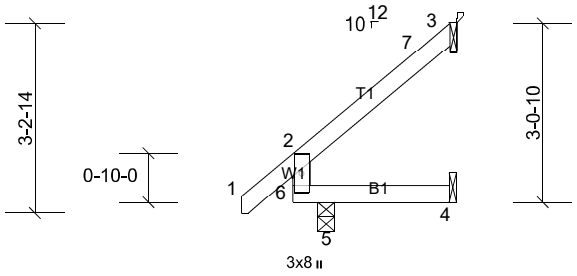
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; 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) * 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 37 lb uplift at joint 5 and 142 lb uplift at joint 7.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

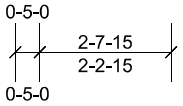
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-5=-48, 6-10=-20
Concentrated Loads (lb)
Vert: 8=4, 11=98

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	J2	Jack-Open	4	1	Job Reference (optional)



One RT16A





Scale = 1:39.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-5	>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	IRC2015/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 2-7-15 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.

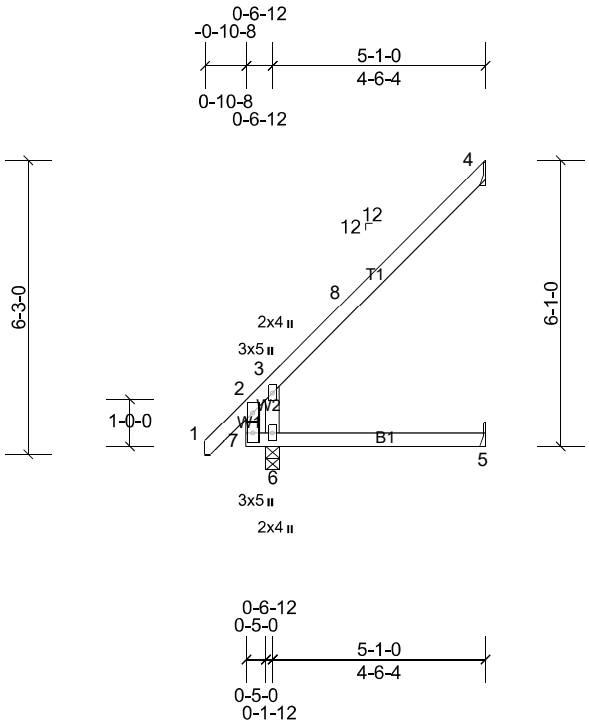
REACTIONS (lb/size) 3=42/ Mechanical, (min. 0-1-8), 4=3/ Mechanical, (min. 0-1-8), 5=167/0-3-8, (min. 0-1-8)
Max Horiz 5=68 (LC 13)
Max Uplift 3=-42 (LC 13), 4=-2 (LC 13)
Max Grav 3=63 (LC 25), 4=19 (LC 11), 5=202 (LC 2)

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

NOTES
1) Wind: ASCE 7-10; 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 (2) -0-9-14 to 2-2-2, Interior (1) 2-2-2 to 2-7-3 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
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JK1	Jack-Open	4	1	Job Reference (optional)



Scale = 1:49

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.05	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.06	5-6	>849	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.09	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 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 5-1-0 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) 4=92/ Mechanical, (min. 0-1-8), 5=48/ Mechanical, (min. 0-1-8), 6=236/0-3-8, (min. 0-1-8)
Max Horiz 6=146 (LC 13)
Max Uplift 4=-93 (LC 13), 5=-8 (LC 13)
Max Grav 4=137 (LC 25), 5=61 (LC 25), 6=282 (LC 2)

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

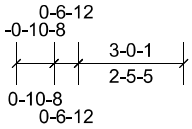
TOP CHORD	2-7=-362/344, 2-3=-414/359
BOT CHORD	6-7=-218/266
WEBS	3-6=-408/364

NOTES

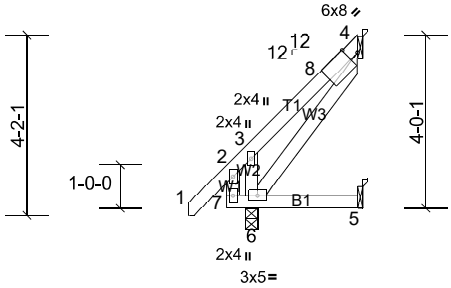
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -0-9-12 to 2-2-4, Interior (1) 2-2-4 to 5-0-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 4 and 8 lb uplift at joint 5.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

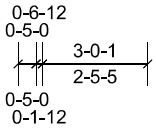
Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JK2	Jack-Open	2	1	Job Reference (optional)



One RT7A



One RT16A



Scale = 1:53.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 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 3-0-1 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.

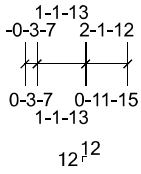
REACTIONS (lb/size) 4=46/ Mechanical, (min. 0-1-8), 5=17/ Mechanical, (min. 0-1-8), 6=176/0-3-8, (min. 0-1-8)
Max Horiz 6=92 (LC 13)
Max Uplift 4=-86 (LC 13)
Max Grav 4=84 (LC 25), 5=24 (LC 17), 6=212 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-6=-312/246

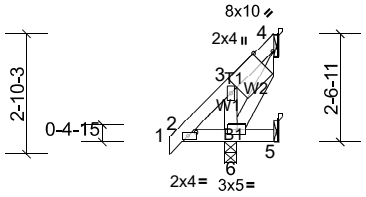
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) -0-9-12 to 2-2-4, Interior (1) 2-2-4 to 3-0-1 zone; cantilever left 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
6) Refer to girder(s) for truss to truss connections.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 6. This connection is for uplift only and does not consider lateral forces.
8) One RT16A MiTek 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 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

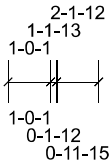
Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JK3	Jack-Open	4	1	Job Reference (optional)



One RT7A



One RT16A



Scale = 1:54.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 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 2-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

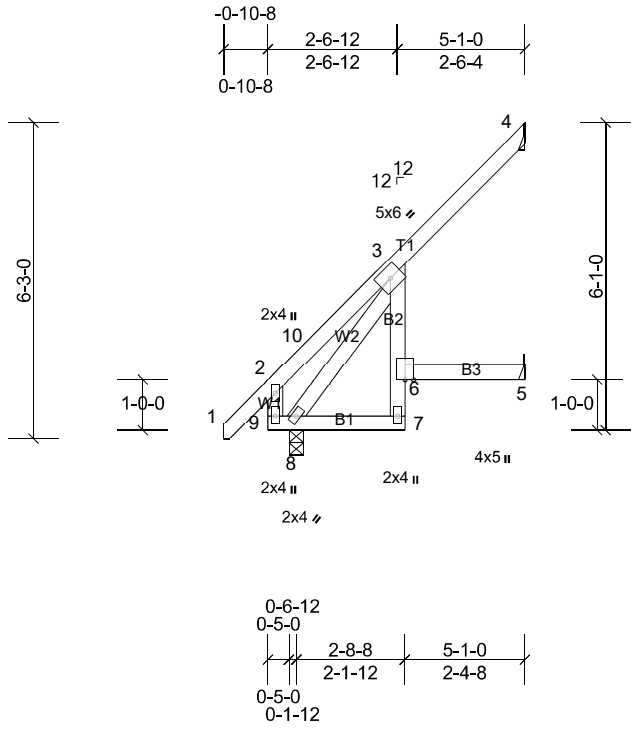
REACTIONS (lb/size) 4=-31/ Mechanical, (min. 0-1-8), 5=-4/ Mechanical, (min. 0-1-8), 6=213/0-3-8, (min. 0-1-8)
Max Horiz 6=64 (LC 13)
Max Uplift 4=-65 (LC 13), 5=-4 (LC 2)
Max Grav 4=14 (LC 11), 5=4 (LC 11), 6=223 (LC 2)

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

NOTES
1) Wind: ASCE 7-10; 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 (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
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 6. This connection is for uplift only and does not consider lateral forces.
6) One RT16A MiTek 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.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JK4	Jack-Open	5	1	Job Reference (optional)



Scale = 1:45.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.06	5-6	>899	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	7	>741	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.04	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 31 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS (lb/size) 4=84/ Mechanical, (min. 0-1-8), 5=62/ Mechanical, (min. 0-1-8), 8=230/0-3-8, (min. 0-1-8)
Max Horiz 8=146 (LC 13)
Max Uplift 4=-75 (LC 13), 5=-24 (LC 13)
Max Grav 4=122 (LC 25), 5=81 (LC 25), 8=276 (LC 2)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.

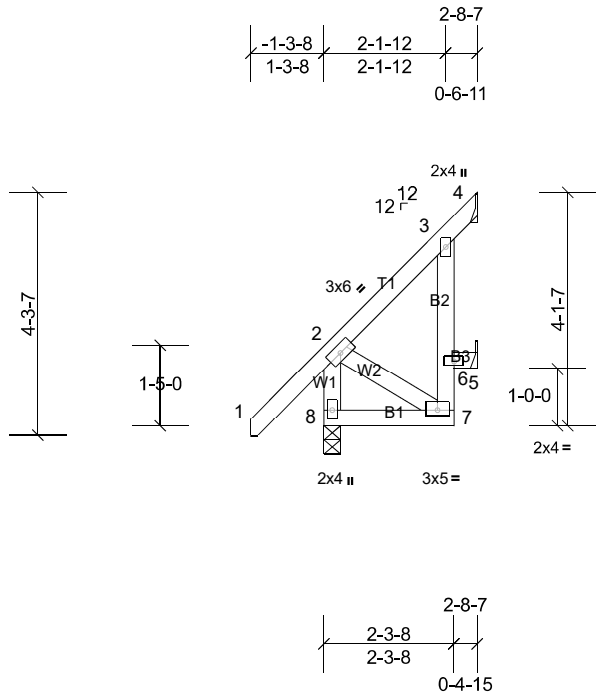
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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

NOTES
1) Wind: ASCE 7-10; Vult=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 (2) -0-9-12 to 2-5-8, Interior (1) 2-5-8 to 5-0-4 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
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 4 and 24 lb uplift at joint 5.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JK5	Jack-Open	2	1	Job Reference (optional)



Scale = 1:40.7

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.01	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3

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

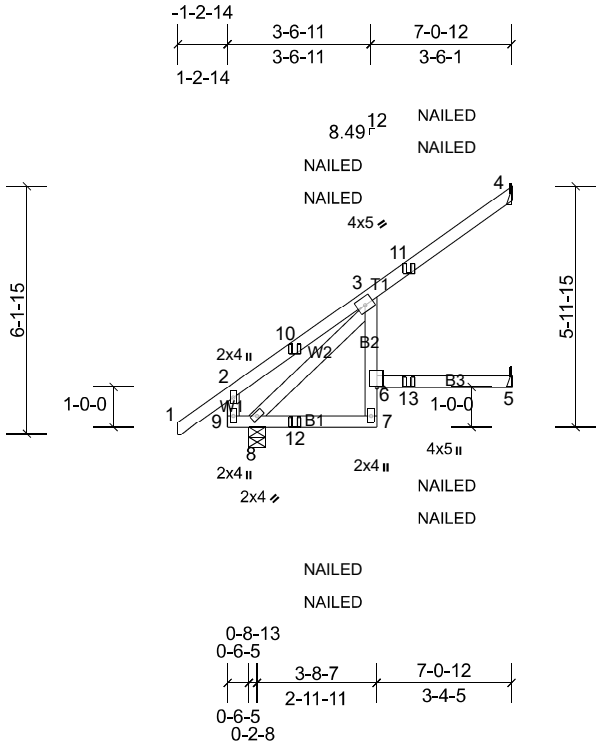
REACTIONS (lb/size) 4=59/ Mechanical, (min. 0-1-8), 5=5/ Mechanical, (min. 0-1-8), 8=163/0-3-8, (min. 0-1-8)
Max Horiz 8=85 (LC 13)
Max Uplift 4=-71 (LC 13)
Max Grav 4=98 (LC 25), 5=5 (LC 1), 8=199 (LC 2)

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

NOTES
1) Wind: ASCE 7-10; 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 (2) -1-2-12 to 2-0-8, Interior (1) 2-0-8 to 2-7-11 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	JKG	Diagonal Hip Girder	1	1	Job Reference (optional)



Scale = 1:57.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	0.20	5-6	>385	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.19	5-6	>416	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.07	Horz(CT)	-0.07	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.3

REACTIONS (lb/size) 4=123/ Mechanical, (min. 0-1-8), 5=77/ Mechanical, (min. 0-1-8), 8=249/0-4-15, (min. 0-1-8)
Max Horiz 8=145 (LC 9)
Max Uplift 4=-112 (LC 9), 5=-40 (LC 9), 8=-140 (LC 5)
Max Grav 4=186 (LC 21), 5=109 (LC 21), 8=337 (LC 23)

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: 8-9.

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

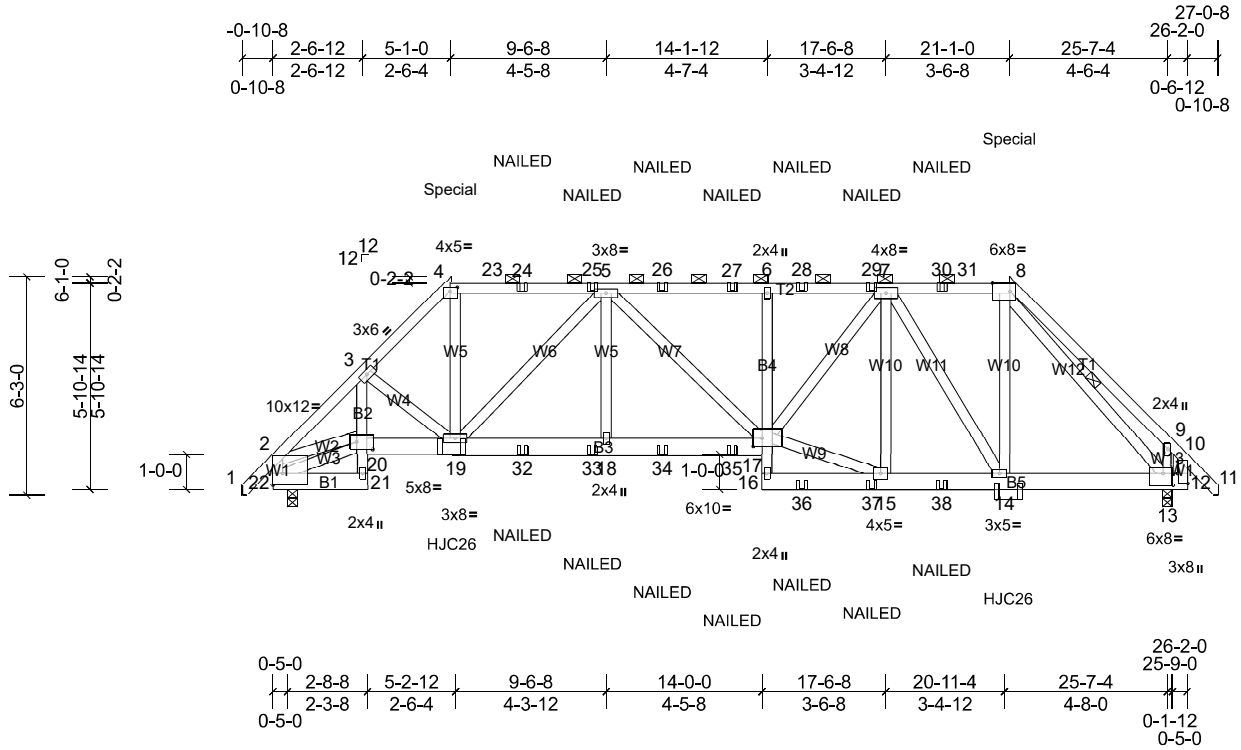
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Wind: ASCE 7-10; Vult=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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; 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.
3) 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.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 4 and 40 lb uplift at joint 5.
7) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-48, 7-9=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 10=98, 11=-18

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	K1G	Hip Girder	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:35 Page: 1
ID:sVmn4vIrSDq3frrw4lysL7yDRsD-HO6OMddQ1NXPqsuMR_AD0Tsteuzmcqo25DZL7wznF6A



Scale = 1:66

Plate Offsets (X, Y): [2:Edge,0-4-0], [4:0-2-8,0-1-7], [8:0-5-14,Edge], [12:0-4-8,Edge], [13:0-3-8,0-4-0], [17:0-3-0,0-2-12], [20:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.12	17-18	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.18	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.09	13	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 213 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.3, B4:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W6,W7,W8,W10,W11,W12:2x4 SP No.2

REACTIONS (lb/size) 13=1407/0-3-8, (min. 0-2-1), 22=1378/0-3-8, (min. 0-2-0)
Max Horiz 22=-135 (LC 9)
Max Uplift 13=-624 (LC 12), 22=-582 (LC 11)
Max Grav 13=1747 (LC 26), 22=1708 (LC 25)

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-8 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 7-5-4 oc bracing.
WEBS 1 Row at midpt 8-13

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2533/962, 3-4=-2325/937, 4-23=-1728/708, 23-24=-1729/708, 24-25=-1730/709, 5-25=-1731/709, 5-26=-2656/1020, 26-27=-2656/1020, 6-27=-2656/1020, 6-28=-2637/1013, 28-29=-2637/1013, 7-29=-2637/1013, 7-30=-1308/576, 30-31=-1306/575, 8-31=-1305/575, 8-9=-538/259, 9-10=-417/156, 2-22=-1704/619, 10-12=-359/150
BOT CHORD 19-20=-745/1847, 19-32=-989/2614, 32-33=-989/2614, 18-33=-989/2614, 18-34=-989/2614, 34-35=-989/2614, 17-35=-989/2614, 6-17=-422/187, 15-38=-747/1961, 14-38=-747/1961, 13-14=-503/1292, 12-13=-79/258
WEBS 3-19=-264/75, 4-19=-415/1232, 5-19=-1245/453, 5-18=-38/265, 15-17=-701/1849, 7-17=-448/1232, 7-15=-365/192, 7-14=-1218/442, 8-14=-464/1230, 8-13=-1656/698, 9-13=-513/324, 2-20=-593/1621

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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) One RT8A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 22. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 15-11-3 oc max. starting at 5-1-6 from the left end to 21-0-9 to connect truss (es) JK4 (1 ply 2x4 SP), JKG (1 ply 2x4 SP), JK1 (1 ply 2x4 SP), J1KG (1 ply 2x4 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

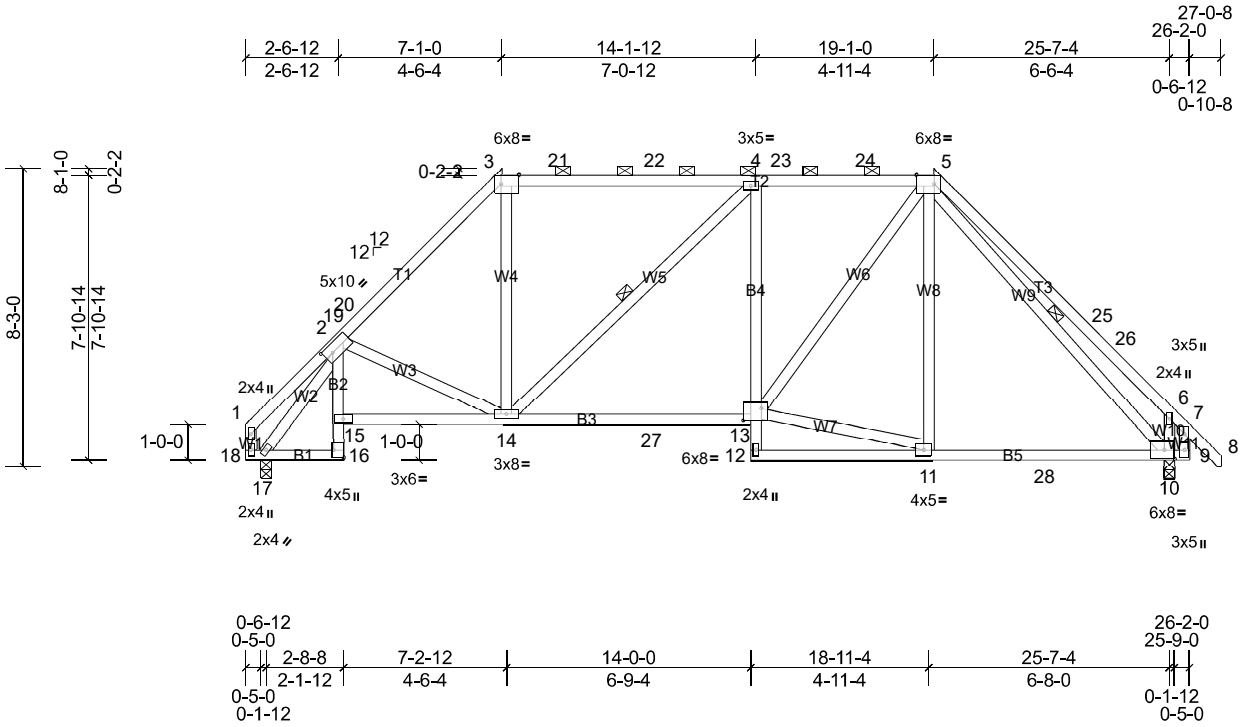
Continued on page 2

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 184 lb up at 5-1-0, and 177 lb down and 127 lb up at 21-1-0 on top 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: 1-2=-48, 2-4=-48, 4-8=-58, 8-10=-48, 10-11=-48, 21-22=-20, 17-20=-20, 12-16=-20
   Concentrated Loads (lb)
   Vert: 4=-80, 8=-41, 19=-90, 14=-108, 24=-27, 25=-27, 26=-27, 27=-27, 28=-35, 29=-35, 30=-35, 32=-42, 33=-42, 34=-42, 35=-42, 36=-28, 37=-28, 38=-28

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	K2	Hip	1	1	Job Reference (optional)



Scale = 1:63.9

Plate Offsets (X, Y): [2:0-3-0,0-2-8], [3:0-5-14,Edge], [5:0-5-14,Edge], [10:0-3-8,0-3-0], [13:0-6-0,0-4-0], [16:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.09	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.18	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.13	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 187 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W3,W7,W2,W1,W10:2x4 SP No.3

REACTIONS (lb/size) 10=988/0-3-8, (min. 0-1-8), 17=930/0-3-8, (min. 0-1-8)
Max Horiz 17=-171 (LC 11)
Max Grav 10=1223 (LC 38), 17=1111 (LC 38)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 4-14, 5-10

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

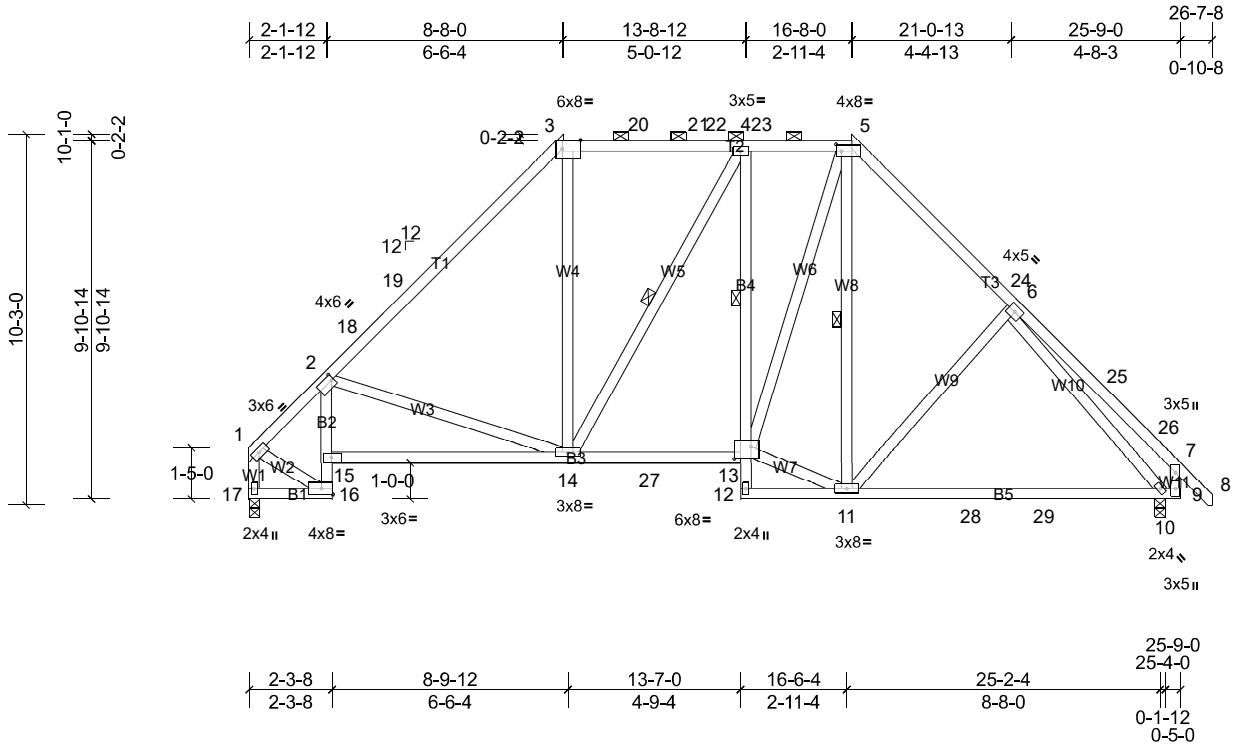
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-1283/171, 19-20=-1280/174, 3-20=-1207/209, 3-21=-913/209, 21-22=-914/209, 4-22=-915/209, 4-23=-1273/238, 23-24=-1273/238, 5-24=-1272/238, 5-25=-552/374, 25-26=-592/338, 6-26=-719/324, 7-9=-272/208
BOT CHORD 16-17=-98/707, 14-15=-136/998, 14-27=-22/1290, 13-27=-21/1291, 4-13=-363/134, 11-28=0/760, 10-28=0/760, 9-10=-68/312
WEBS 2-14=-308/145, 3-14=-10/500, 4-14=-520/83, 11-13=0/763, 5-13=-81/845, 2-17=-1173/135, 5-10=-932/66, 6-10=-987/614

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-1-0, Exterior (2) 7-1-0 to 11-3-15, Interior (1) 11-3-15 to 19-1-0, Exterior (2) 19-1-0 to 23-3-15, Interior (1) 23-3-15 to 26-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	K3	Hip	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:37 Page: 1
ID:?WvEBw8dL7Jtkpkuou9kqUyDRoZ-DnD8nJfgZ?n73A2kZPCh5ux8IicV4mhLYX2SCoznF68



Scale = 1:63.7

Plate Offsets (X, Y): [2:0-0-8,0-2-0], [3:0-5-14,Edge], [5:0-1-12,0-2-4], [13:0-5-8,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.09	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.21	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W7,W1,W2,W11:2x4 SP No.3

REACTIONS (lb/size) 10=959/0-3-8, (min. 0-1-8), 17=891/0-3-8, (min. 0-1-8)
Max Horiz 17=-215 (LC 11)
Max Grav 10=1271 (LC 38), 17=1216 (LC 38)

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-9 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 4-13
WEBS 1 Row at midpt 4-14, 5-11

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

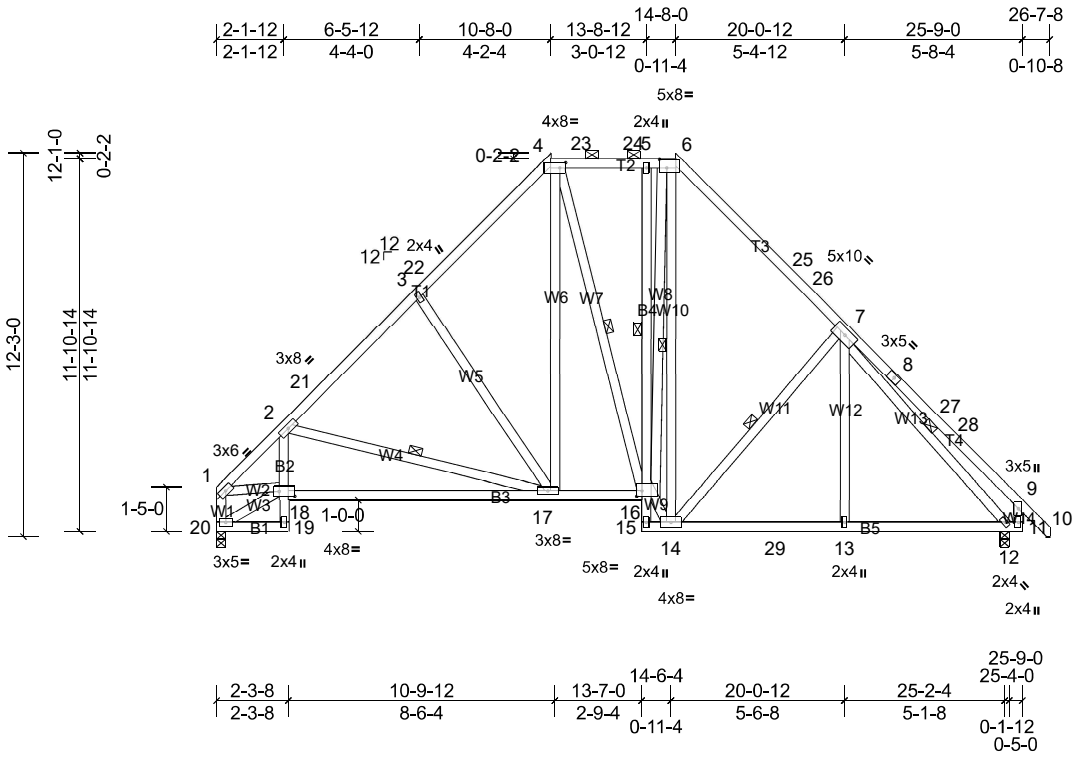
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1125/137, 2-18=-1267/166, 18-19=-1108/180, 3-19=-1012/216, 3-20=-725/232, 20-21=-726/232, 21-22=-726/232, 4-22=-726/232, 4-23=-825/236, 5-23=-825/236, 5-24=-1054/251, 6-24=-1075/212, 6-25=-297/55, 25-26=-365/34, 7-26=-463/22, 1-17=-1294/146, 7-9=-461/113
BOT CHORD 15-16=-350/79, 2-15=-301/115, 14-15=-175/1233, 14-27=0/827, 13-27=0/831, 4-13=-265/124, 11-28=-9/788, 28-29=-9/788, 10-29=-9/788
WEBS 2-14=-516/215, 3-14=-6/387, 4-14=-279/94, 11-13=0/715, 5-13=-95/616, 1-16=-121/902, 6-10=-975/152

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-8-0, Exterior (2) 8-8-0 to 12-10-15, Interior (1) 12-10-15 to 16-8-0, Exterior (2) 16-8-0 to 20-10-15, Interior (1) 20-10-15 to 26-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	K4	Hip	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:37 Page: 1
ID:0b0xTAyHK0tDuFwzmANgapyDRnV-DnD8nJfgZ?n73A2kZPCh5uxDTie44qSLYX2SCoznF68



Scale = 1:73.6

Plate Offsets (X, Y): [4:0-2-4,0-2-0], [6:0-2-12,0-3-4], [16:0-2-0,0-2-0], [18:0-6-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.05	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.19	17-18	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.09	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 244 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.3
WEBS 2x4 SP No.2 *Except* W9,W1,W14,W3,W2:2x4 SP No.3

REACTIONS (lb/size) 12=939/0-3-8, (min. 0-1-9), 20=871/0-3-8, (min. 0-1-8)
Max Horiz 20=-255 (LC 11)
Max Grav 12=1311 (LC 38), 20=1255 (LC 38)

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,15-16.
1 Row at midpt 5-16
WEBS 1 Row at midpt 2-17, 4-16, 6-14, 7-14, 7-12

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

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1765/130, 2-21=-1427/168, 3-21=-1157/201, 3-22=-1201/236, 4-22=-1175/272, 4-23=-713/250, 23-24=-713/250, 5-24=-714/250, 5-6=-705/250, 6-25=-935/275, 25-26=-1013/245, 7-26=-1142/234, 7-8=-293/188, 8-27=-326/163, 27-28=-326/162, 9-28=-363/158, 1-20=-1224/94, 9-11=-404/214
BOT CHORD 2-18=-68/303, 17-18=-176/1401, 16-17=-7/729, 14-29=0/889, 13-29=0/889, 12-13=0/888
WEBS 2-17=-499/124, 3-17=-333/184, 4-17=-72/534, 14-16=0/923, 6-16=-101/554, 6-14=-297/129, 7-14=-400/177, 7-12=-1142/0, 18-20=-241/291, 1-18=-55/1229

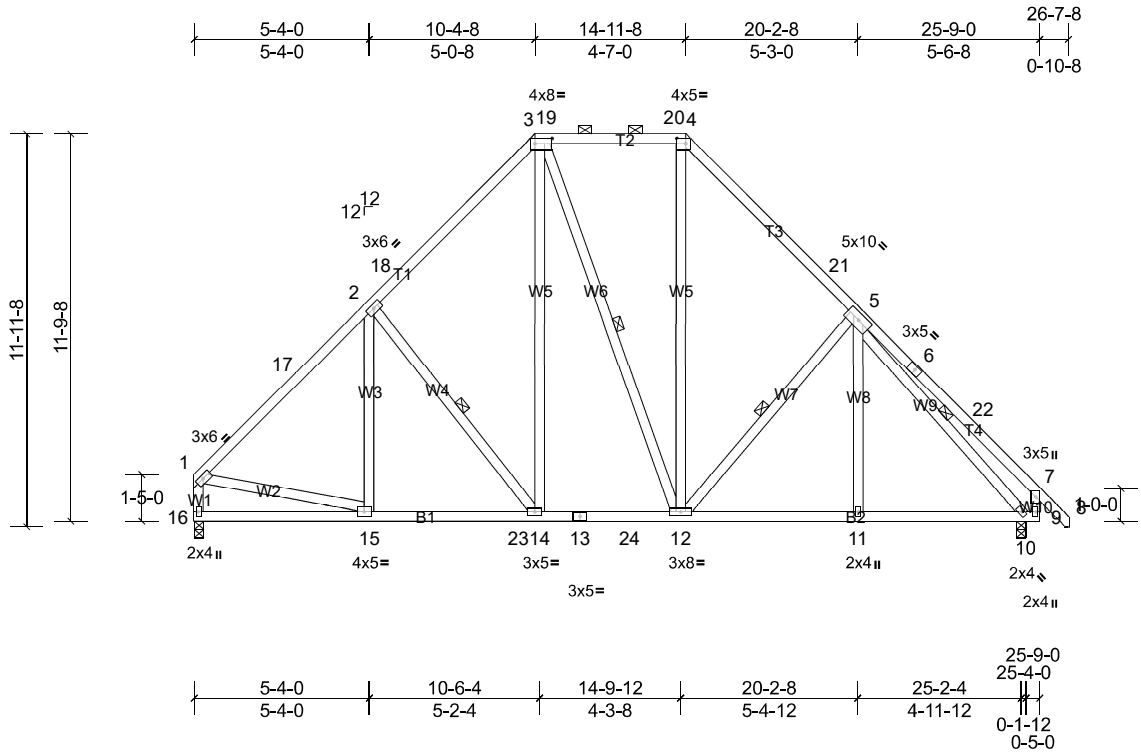
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-8-0, Exterior (2) 10-8-0 to 18-10-15, Interior (1) 18-10-15 to 26-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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) Unbalanced snow loads have been considered for this design.
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) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20. This connection is for uplift only and does not consider lateral forces.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	K4	Hip	1	1	Job Reference (optional)

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	K5	Piggyback Base	7	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:38 Page: 1
ID:mkkYdHppuDPKVt41mu3iKNyDRhE-iznW_fgJKlv_hKdx77kwd6URY51QpK8VnBo?kFznF67



Scale = 1:70.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	12-14	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.07	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1,W2,W10:2x4 SP No.3

REACTIONS (lb/size) 10=1039/0-3-8, (min. 0-1-8), 16=977/0-3-8, (min. 0-1-8)
Max Horiz 16=-252 (LC 9)
Max Grav 10=1186 (LC 2), 16=1108 (LC 2)

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-14, 3-12, 5-12, 5-10

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

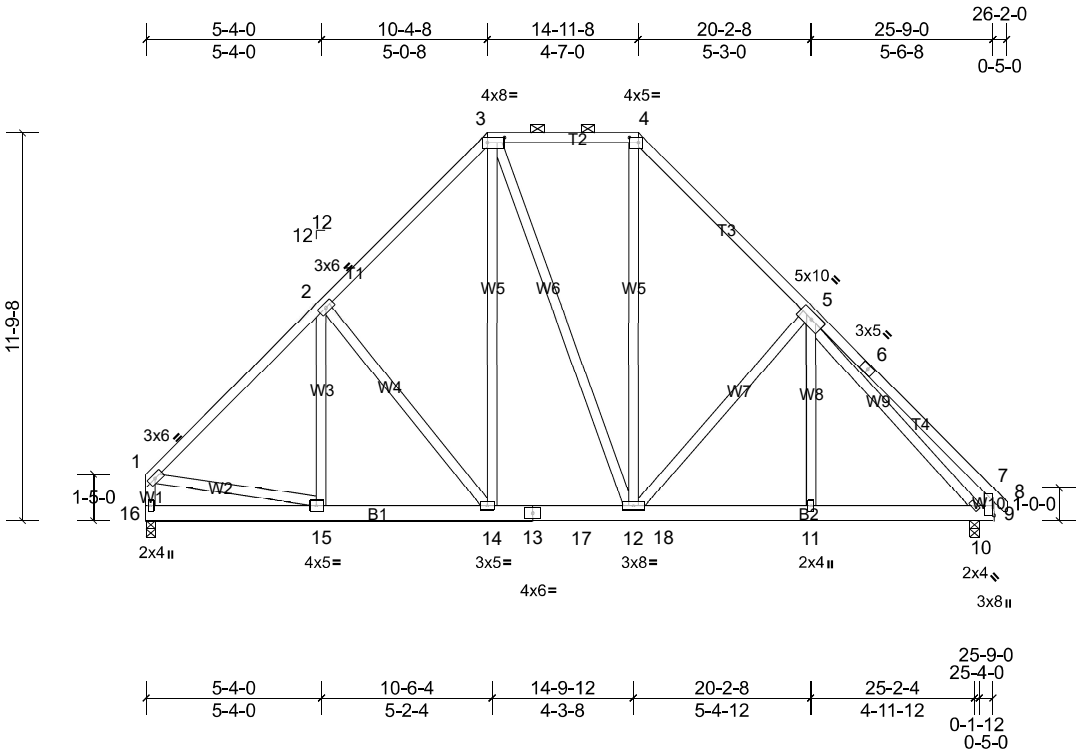
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-17=-1177/32, 2-17=-1049/57, 2-18=-1009/122, 3-18=-896/161, 3-19=-703/174, 19-20=-703/174, 4-20=-703/174, 4-21=-891/155, 5-21=-1014/115, 5-6=-287/169, 6-22=-319/144, 7-22=-355/141, 1-16=-1061/56, 7-9=-395/199
BOT CHORD 15-16=-219/290, 15-23=0/850, 14-23=0/850, 13-14=0/686, 13-24=0/686, 12-24=0/686, 11-12=0/766, 10-11=0/766
WEBS 2-14=-345/183, 3-14=0/458, 4-12=0/442, 5-12=-339/188, 1-15=0/706, 5-10=-1000/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 10-4-8, Exterior (2) 10-4-8 to 14-7-7, Interior (1) 14-7-7 to 14-11-8, Exterior (2) 14-11-8 to 19-2-7, Interior (1) 19-2-7 to 26-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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, 12-4-8 from left end, supported at two points, 5-0-0 apart.
6) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
9) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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	Lmaco - Jason Price Residence
21110096	K6G-2	Piggyback Base Girder	1	**2**	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:38 Page: 1
ID:f8A9XN8B7_uxOui?26aDrYyDR7y-iznW_fgJKlv_hKdx77kwd6UTa51lpK8VnBo?kFznF67



Scale = 1:70.1

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

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.03	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.06	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 449 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W1,W2,W10:2x4 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.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 10=1441/0-3-8, (min. 0-1-8), 16=1202/0-3-8, (min. 0-1-8)
Max Horiz 16=-243 (LC 5)
Max Grav 10=1598 (LC 2), 16=1344 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1460/23, 2-3=-1312/112, 3-4=-1009/126, 4-5=-1544/116, 5-6=-377/142, 6-7=-547/117, 1-16=-1289/6, 7-9=-504/123
BOT CHORD 15-16=-225/294, 14-15=-81/1068, 13-14=-28/916, 13-17=-28/916, 12-17=-28/916, 12-18=0/1177, 11-18=0/1177, 10-11=0/1176, 9-10=-13/305
WEBS 3-12=-117/560, 4-12=-49/817, 5-12=-315/148, 1-15=0/883, 5-10=-1378/0

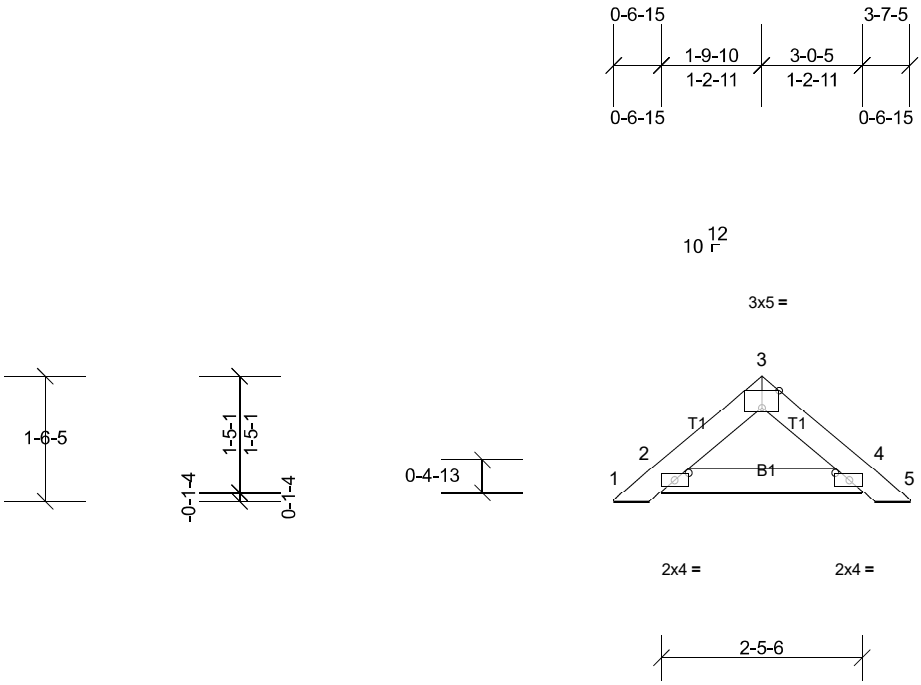
NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
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) * 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.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 953 lb down and 32 lb up at 15-8-12 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

Continued on page 2

Uniform Loads (lb/ft)
Vert: 1-3=-48, 3-4=-58, 4-7=-48, 7-8=-48, 9-16=-20
Concentrated Loads (lb)
Vert: 18=-850

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	PB3	Piggyback	17	1	Job Reference (optional)



Scale = 1:28.1

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)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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)	0.00	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/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 3-8-8 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.

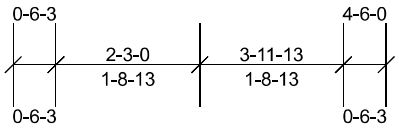
REACTIONS All bearings 2-5-6.
(lb) - Max Horiz 2=-26 (LC 11), 6=-26 (LC 11)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 10

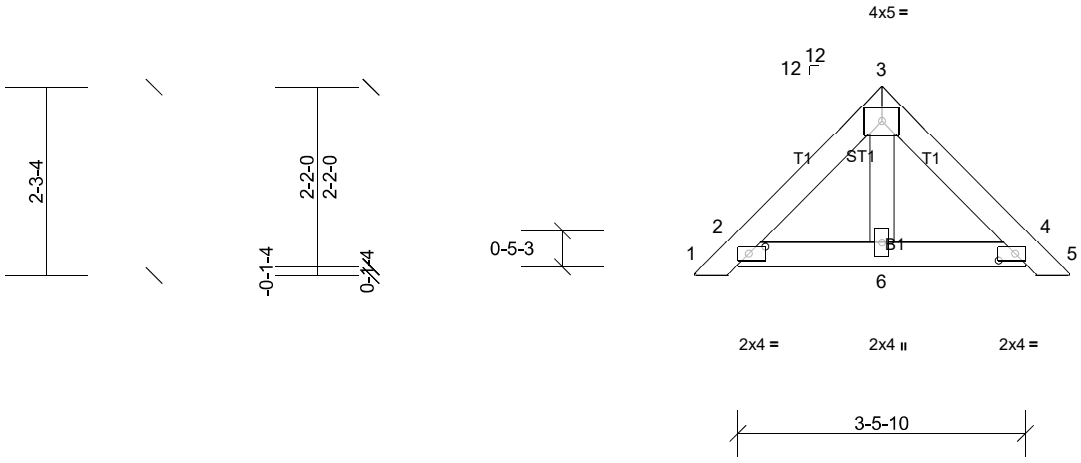
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
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 RT7A MiTek 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.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	PG1	Piggyback	14	1	Job Reference (optional)





Scale = 1:27.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	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(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 17 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 4-7-0 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 3-5-10.
(lb) - Max Horiz 2=-41 (LC 11), 7=-41 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

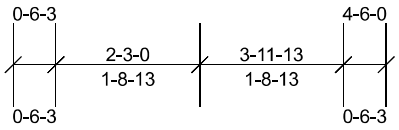
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

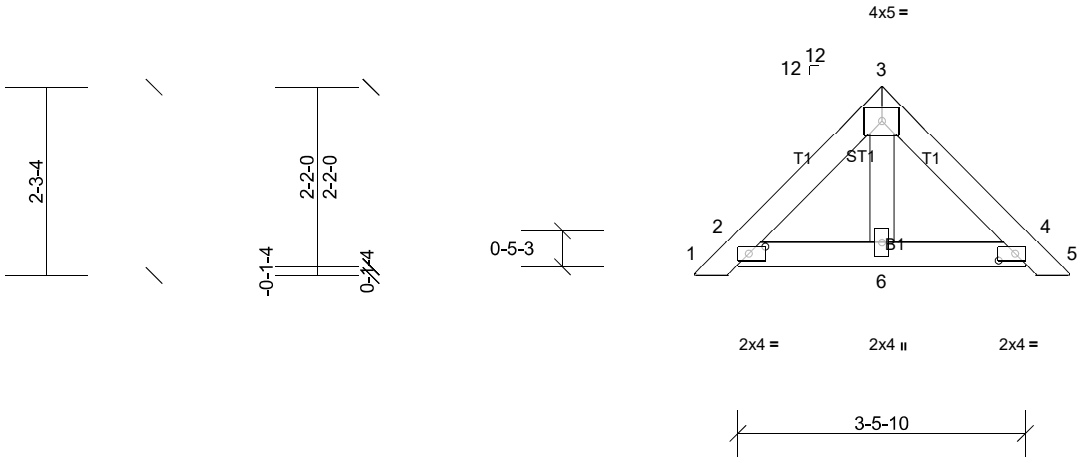
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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.
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 RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, and 6. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	PG2	Piggyback	1	**2**	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:39 Page: 1
ID:BycnK17ZMhm4nk7pUP3_IKyDR7z-A9LuB?gx5c2rIUC7gqF9AJ1iiVS8Yrve?rXZGhznF66





Scale = 1:27.8

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

Loading	(psf)	**Spacing**	2-0-0	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	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	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 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 4-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

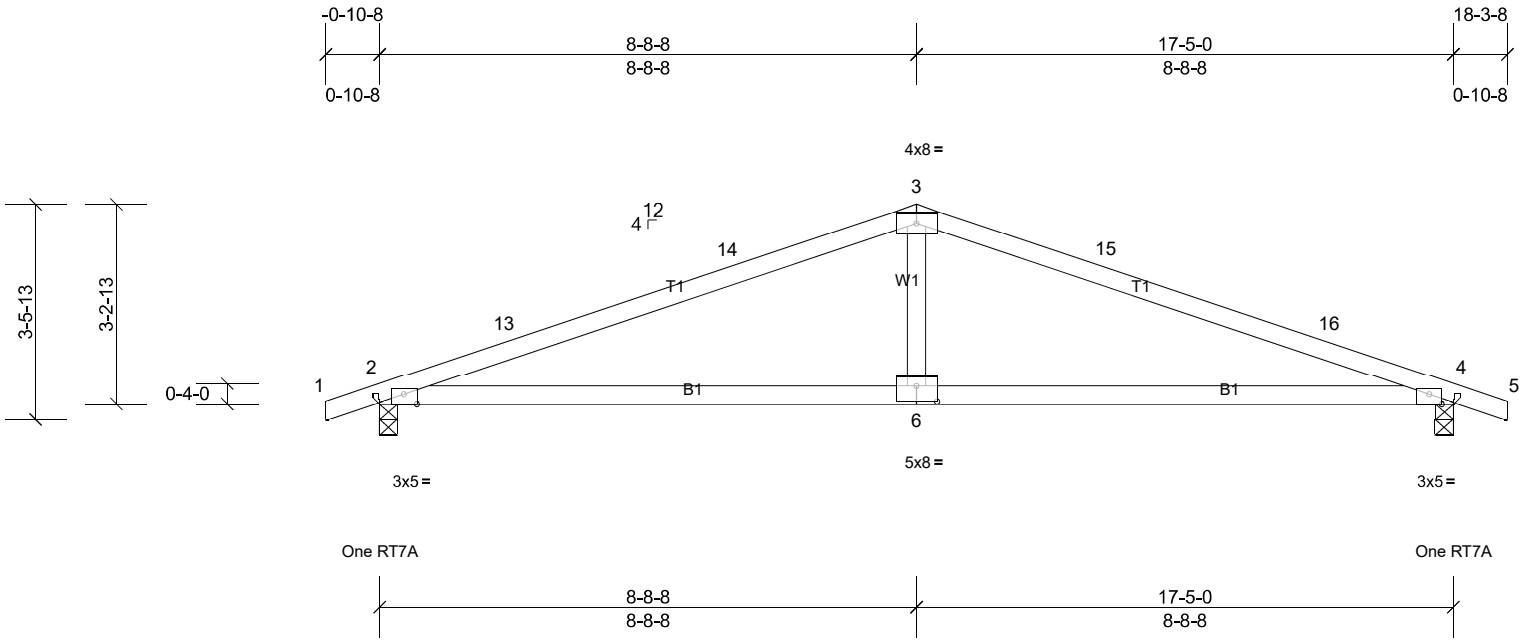
REACTIONS All bearings 3-5-10.
(lb) - Max Horiz 2=-41 (LC 11), 7=-41 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 10

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

NOTES
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; 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 (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
5) 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.
6) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
7) 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.
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 RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, and 6. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) 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	Lmaco - Jason Price Residence
21110096	SP1	Common	3	1	Job Reference (optional)



Scale = 1:37.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.19	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.37	6-9	>568	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.03	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 60 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 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=641/0-3-8, (min. 0-1-8), 4=641/0-3-8, (min. 0-1-8)
Max Horiz 2=32 (LC 15)
Max Uplift 2=-27 (LC 11), 4=-27 (LC 12)
Max Grav 2=758 (LC 2), 4=758 (LC 2)

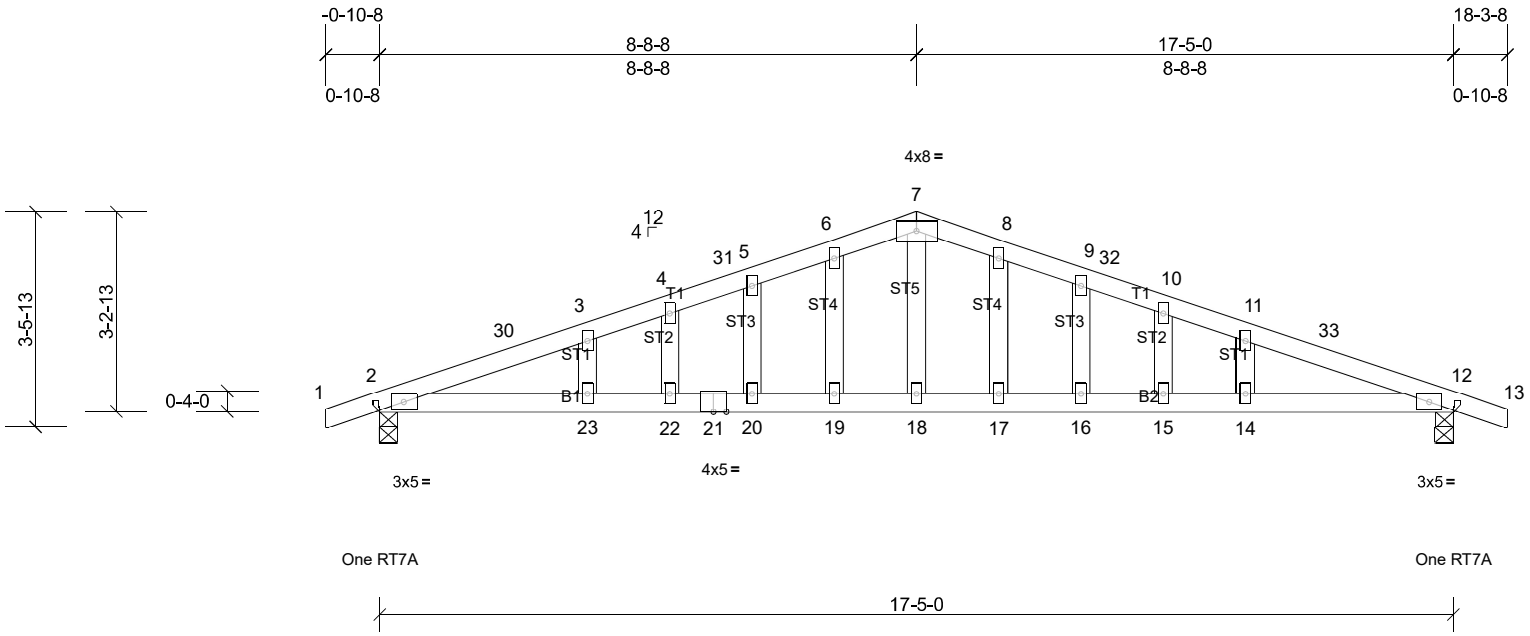
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-1341/139, 13-14=-1287/152, 3-14=-1260/168, 3-15=-1260/168, 15-16=-1287/152, 4-16=-1341/139
BOT CHORD 2-6=-77/1221, 4-6=-77/1221
WEBS 3-6=0/285

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) -0-10-3 to 2-1-13, Interior (1) 2-1-13 to 8-8-8, Exterior (2) 8-8-8 to 11-8-8, Interior (1) 11-8-8 to 18-3-3 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) One RT7A MiTek 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.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	SP2	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:39 Page: 1
ID:bxWJ7DmJbtAHcBzNe6?CSSznSSi-A9LuB?gx5c2rIUC7gqF9AJ1ZdVE3YoAe?rXZGhznF66



Scale = 1:37.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.25	22-23	>829	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.43	22-23	>487	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 79 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 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=641/0-3-8, (min. 0-1-8), 12=641/0-3-8, (min. 0-1-8)
Max Horiz 2=32 (LC 15)
Max Uplift 2=-27 (LC 11), 12=-27 (LC 12)
Max Grav 2=758 (LC 2), 12=758 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-30=-1379/413, 3-30=-1341/417, 3-4=-1346/441, 4-31=-1329/449, 5-31=-1310/453, 5-6=-1313/469, 6-7=-1322/494, 7-8=-1322/494, 8-9=-1313/469, 9-32=-1313/454, 10-32=-1332/450, 10-11=-1347/441, 11-33=-1341/417, 12-33=-1378/413

BOT CHORD 2-23=-325/1272, 22-23=-325/1272, 21-22=-325/1272, 20-21=-325/1272, 19-20=-325/1272, 18-19=-325/1272, 17-18=-325/1272, 16-17=-325/1272, 15-16=-325/1272, 14-15=-325/1272, 12-14=-325/1272

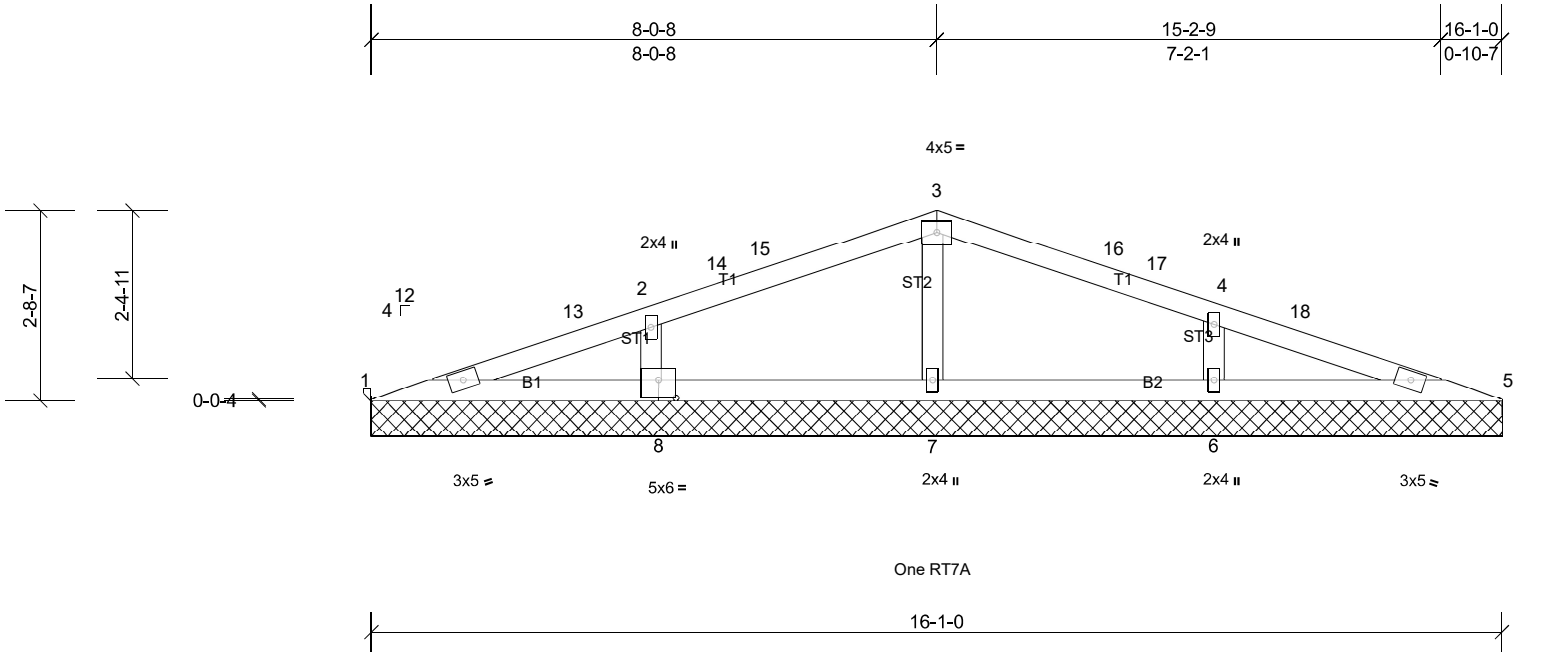
WEBS 7-18=-187/579

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (3) -0-10-3 to 2-1-13, Exterior (2) 2-1-13 to 8-8-8, Corner (3) 8-8-8 to 11-8-8, Exterior (2) 11-8-8 to 18-3-3 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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
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) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
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.
10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	V	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:39 Page: 1
ID:1Z6rGRu8r8ggZqhylIdiwsznSOg-A9LuB?gx5c2rIUC7gqF9AJ1fLVRZYrxe?rXZGhznF66



Scale = 1:32.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 52 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 10-0-0 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 All bearings 16-1-0.
(lb) - Max Horiz 1=25 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=381 (LC 33), 7=352 (LC 2), 8=371 (LC 32)

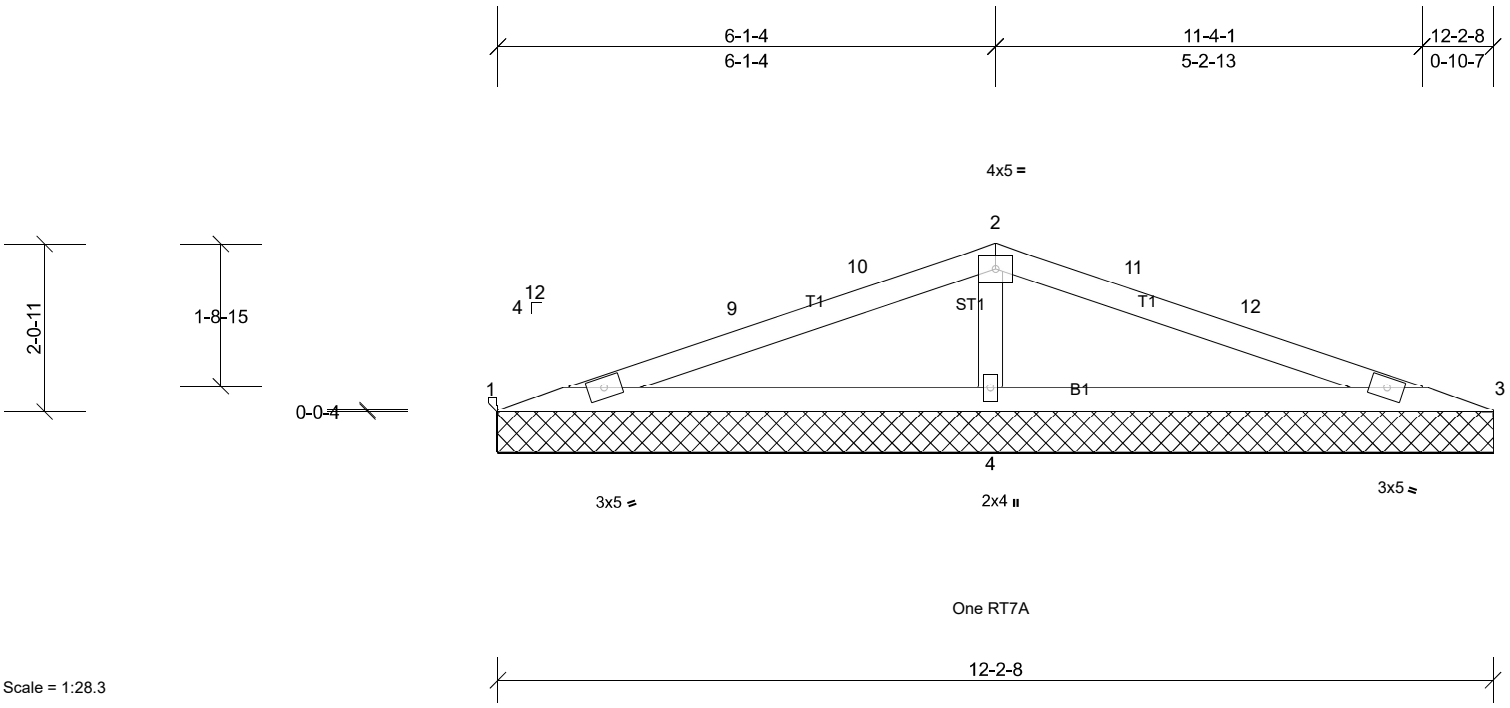
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-284/72, 2-8=-270/104, 4-6=-272/105

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 8-1-4, Exterior (2) 8-1-4 to 11-1-4, Interior (1) 11-1-4 to 16-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 8, and 6. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:VmgDUnvmcSoXA_G9J?8xS4znSOf-eMvHPLhZrwAiwenJEYmOiXZnGviMHG8nEVH6o7znF65



Scale = 1:28.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 37 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 10-0-0 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=58/12-2-8, (min. 0-1-8), 3=65/12-2-8, (min. 0-1-8), 4=715/12-2-8, (min. 0-1-8)
Max Horiz 1=19 (LC 15)
Max Uplift 1=-9 (LC 33), 3=-11 (LC 16)
Max Grav 1=112 (LC 32), 3=119 (LC 33), 4=843 (LC 2)

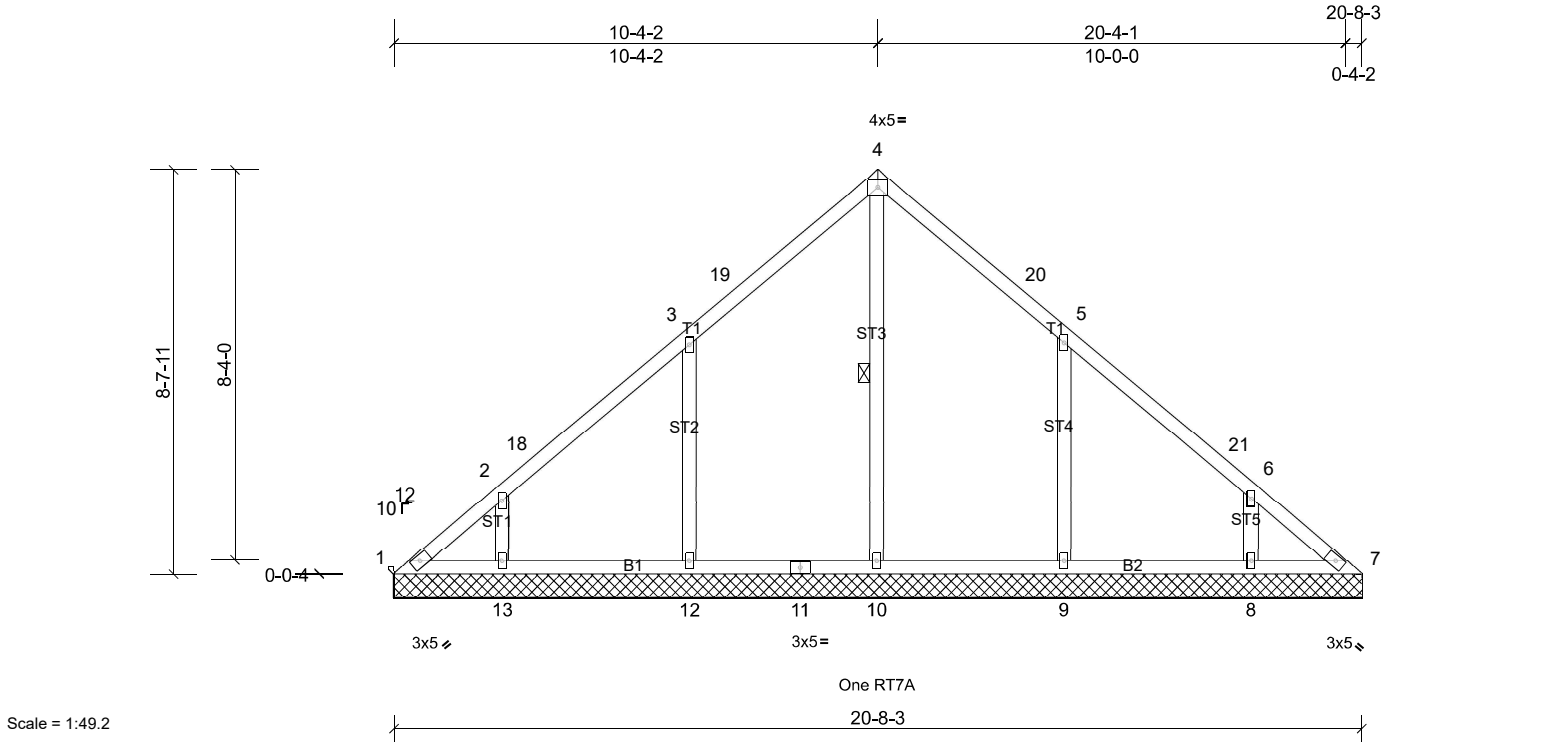
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-168/491, 9-10=-101/501, 2-10=-99/551, 2-11=-89/528, 11-12=-91/477, 3-12=-100/470
BOT CHORD 1-4=-475/154, 3-4=-452/130
WEBS 2-4=-629/182

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 6-2-0, Exterior (2) 6-2-0 to 9-2-0, Interior (1) 9-2-0 to 12-3-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 11 lb uplift at joint 3.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA1	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:G3u8Uupwh5YZqTjACFOzE4yDXpk-eMvHPLhZrwAiwenJEYmOiXZqavmlHGsnEVH6o7znF65



Scale = 1:49.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 100 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST3:2x4 SP No.2

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

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

REACTIONS All bearings 20-8-3.
(lb) - Max Horiz 1=-167 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 13 except 12=-101 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=286 (LC 2), 9=428 (LC 25), 10=389 (LC 27), 12=430 (LC 24), 13=286 (LC 24)

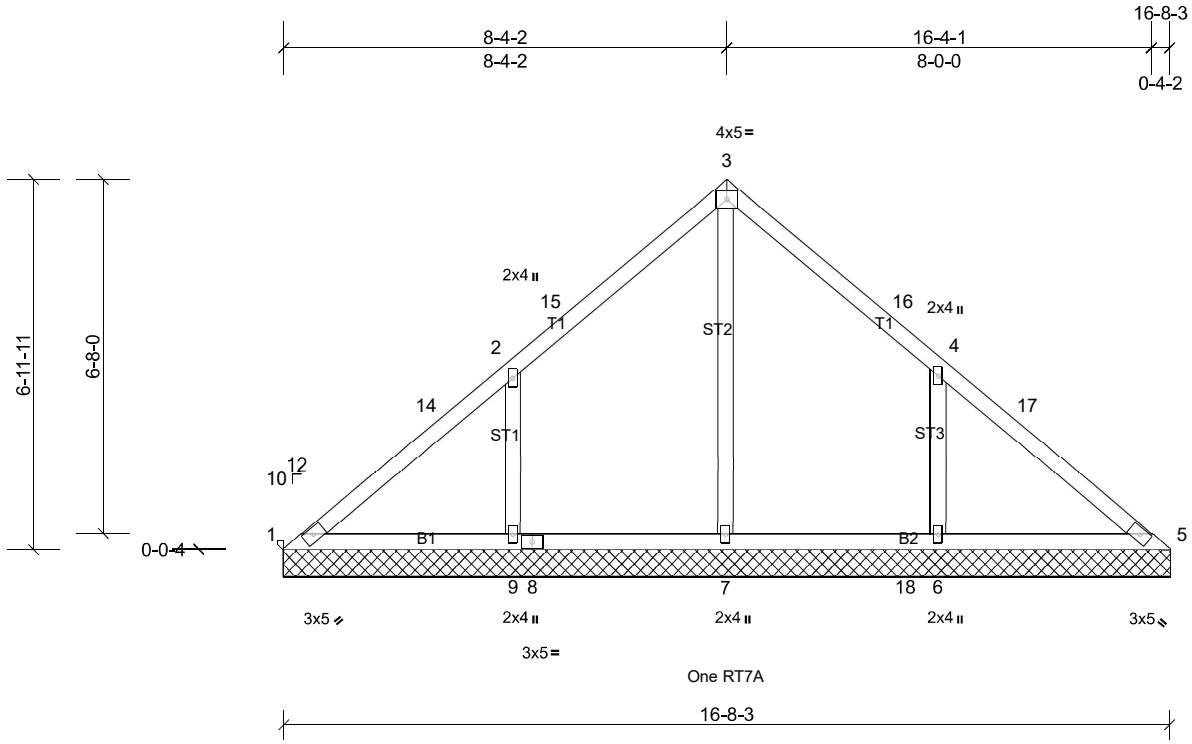
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-312/187, 5-9=-309/186

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 10-4-6, Exterior (2) 10-4-6 to 13-4-6, Interior (1) 13-4-6 to 20-8-8 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 12, 13, 9, and 8. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA2	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:YdJxw1PLxlS2TLqa9H7xtJyDXdL-eMvHPLhZrwAiwenJEYmOiXZpjvmzHFWnEVH6o7znF65



Scale = 1:43.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 74 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* ST2:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 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 All bearings 16-8-3.
(lb) - Max Horiz 1=134 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-102 (LC 14), 9=-104 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=455 (LC 25), 7=472 (LC 24), 9=464 (LC 24)

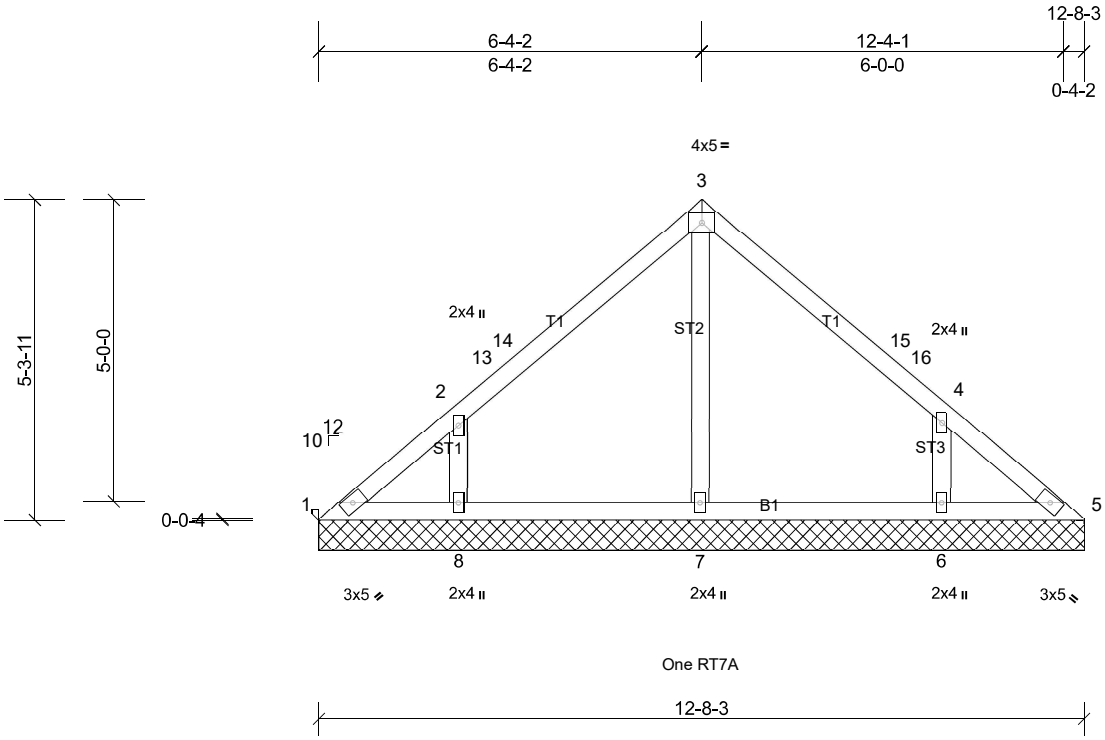
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-305/0, 2-9=-321/183, 4-6=-321/182

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 8-4-6, Exterior (2) 8-4-6 to 11-4-6, Interior (1) 11-4-6 to 16-8-8 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 9, and 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA3	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:5xLYALjm4kYBVpvOV5DY4tyDT9b-eMvHPLhZrwAiwenJEYmOiXZqkvnMHHsnEVH6o7znF65



One RT7A

Scale = 1:38.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 53 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.

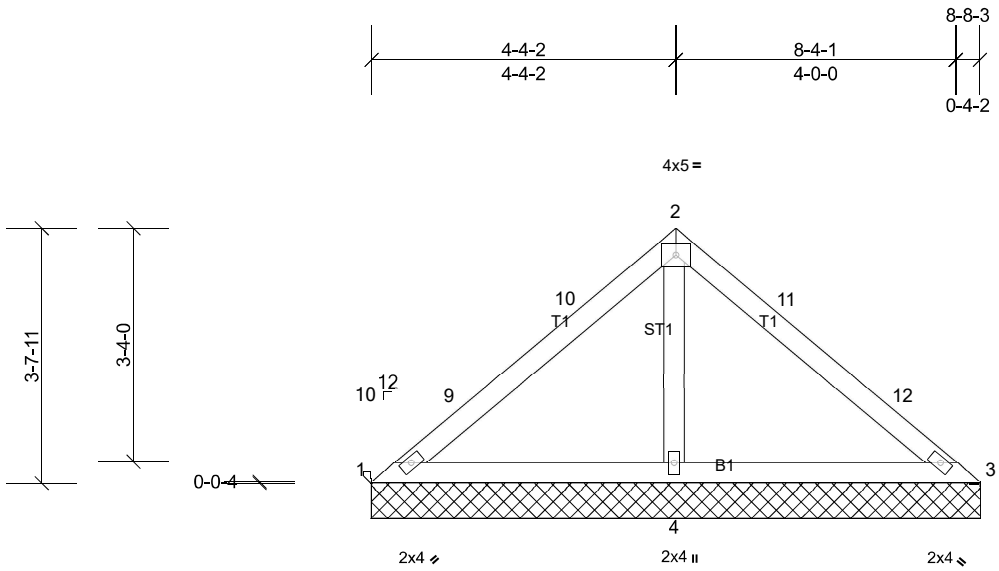
REACTIONS All bearings 12-8-3.
(lb) - Max Horiz 1=-101 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=324 (LC 25), 7=253 (LC 2), 8=328 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-279/179, 4-6=-275/176

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-4-6, Exterior (2) 6-4-6 to 9-4-6, Interior (1) 9-4-6 to 12-8-8 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 8, and 6. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

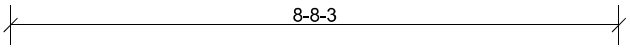
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA4	Valley	1	1	Job Reference (optional)



One RT7A

Scale = 1:32.9



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 33 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 8-8-3 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=18/8-8-3, (min. 0-1-8), 3=22/8-8-3, (min. 0-1-8), 4=548/8-8-3, (min. 0-1-8)
Max Horiz 1=-68 (LC 9)
Max Uplift 1=-27 (LC 29), 3=-24 (LC 28), 4=-34 (LC 13)
Max Grav 1=60 (LC 28), 3=63 (LC 29), 4=648 (LC 2)

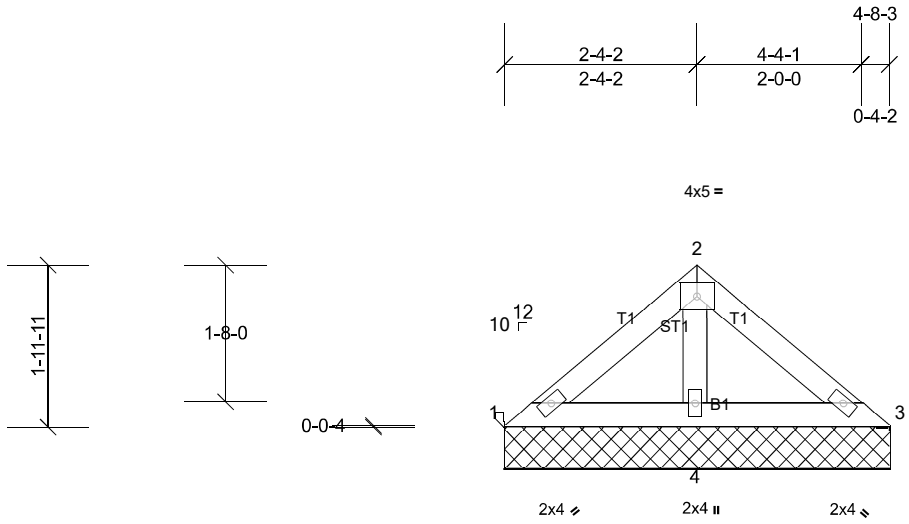
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-86/273, 2-11=-83/269
WEBS 2-4=-479/185

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-4-6, Exterior (2) 4-4-6 to 7-4-6, Interior (1) 7-4-6 to 8-8-8 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 24 lb uplift at joint 3.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VA5	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:n5WuvjU5WUIUvnFEfY0UlFyDSm4-eMvHPLhZrwAiwenJEYmOiXZsevndHIHnEVH6o7znF65



Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 17 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 4-8-3 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 All bearings 4-8-3.
(lb) - Max Horiz 1=-35 (LC 9), 7=-35 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 3, 7
Max Grav All reactions 250 (lb) or less at joint(s) 1, 3, 7 except 4=371 (LC 2)

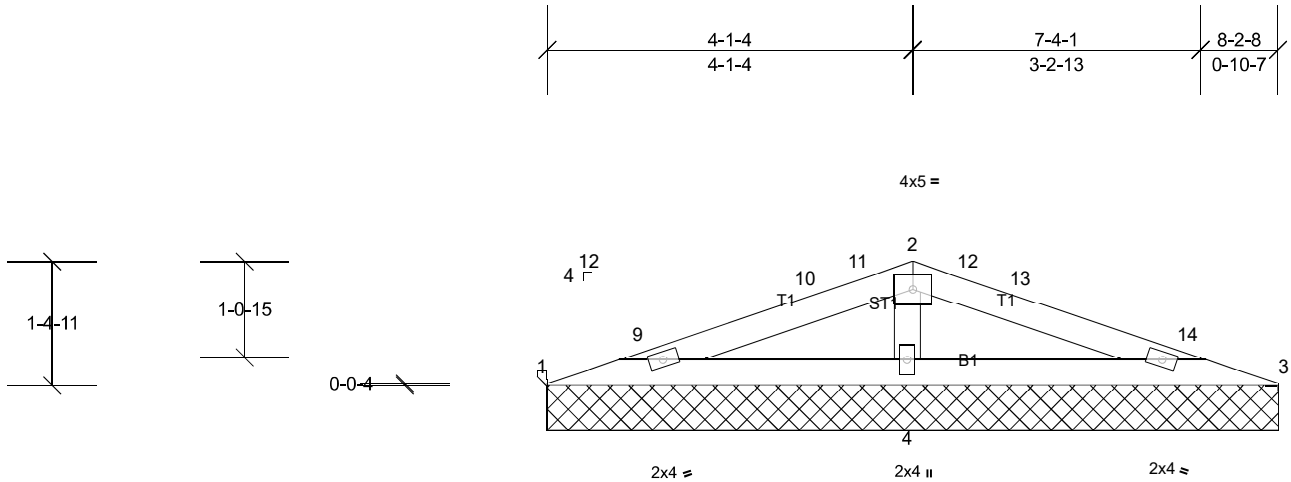
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-274/69

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3.
7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

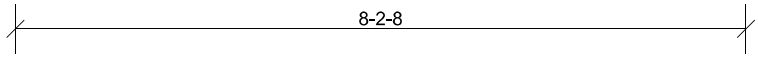
Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VB	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:40 Page: 1
ID:Kw1Ukr_XBIZgvvjJfGFLiLznSOZ-eMvHPLhZrwAiwenJEYmOiXZr?vlVHI9nEVH6o7znF65



One RT7A

Scale = 1:25.9



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 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 8-2-8 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=64/8-2-8, (min. 0-1-8), 3=71/8-2-8, (min. 0-1-8), 4=429/8-2-8, (min. 0-1-8)
Max Horiz 1=-12 (LC 16)
Max Uplift 1=-6 (LC 15), 3=-8 (LC 16)
Max Grav 1=98 (LC 32), 3=104 (LC 33), 4=506 (LC 2)

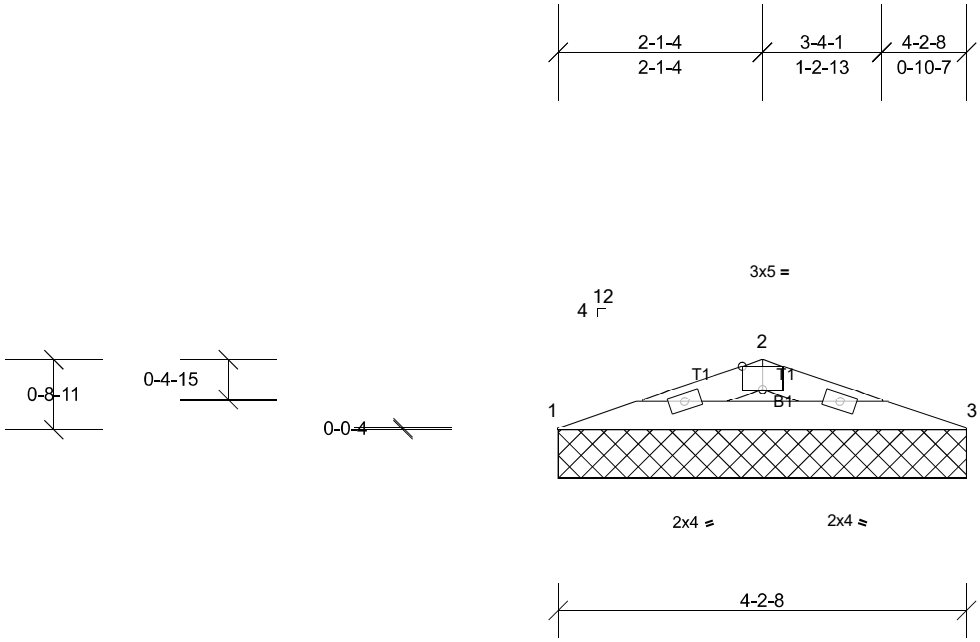
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-87/274, 10-11=-82/277, 2-11=-79/294, 2-12=-72/275, 12-13=-74/258, 3-13=-79/255
BOT CHORD 1-4=-260/120
WEBS 2-4=-323/121

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-2-0, Exterior (2) 4-2-0 to 7-2-0, Interior (1) 7-2-0 to 8-3-4 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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1 and 8 lb uplift at joint 3.
8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VC	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:41 Page: 1
ID:o6btyA_9ychXW3IVD_maEYznSOY-6YTfchiBcDIYYnMWoFHdFk617J6G0lOxT90fLaznF64



Scale = 1:23.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

REACTIONS (lb/size) 1=144/4-2-8, (min. 0-1-8), 3=144/4-2-8, (min. 0-1-8)
Max Horiz 1=6 (LC 19)
Max Uplift 1=-1 (LC 11), 3=-1 (LC 12)
Max Grav 1=170 (LC 2), 3=170 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-370/153, 2-3=-354/151
BOT CHORD 1-3=-133/365

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

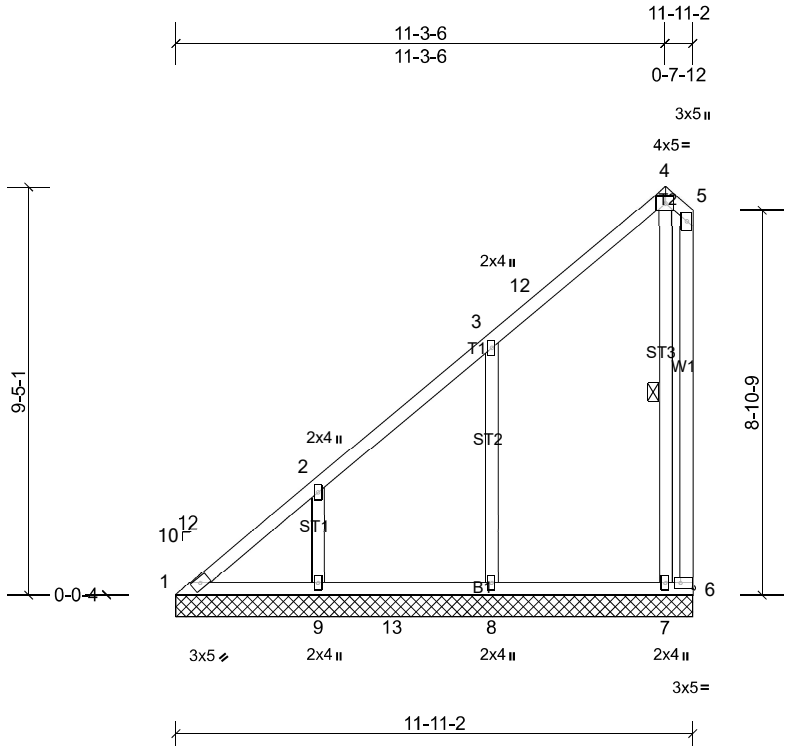
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (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
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1 and 1 lb uplift at joint 3.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VD1	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:41 Page: 1
ID:SYjJhthUagdazNB5Ke1mZ1yE3W1-6YTfchiBcDIYYnMWoFHdFk6vzJ4s0jRxT90fLaznF64



Scale = 1:53.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	6	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 78 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2 *Except* ST1:2x4 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.
WEBS	1 Row at midpt 4-7

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

REACTIONS All bearings 11-11-2.
(lb) - Max Horiz 1=276 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 9 except 6=-154 (LC 24)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 6 except 7=413 (LC 24), 8=486 (LC 24), 9=346 (LC 24)

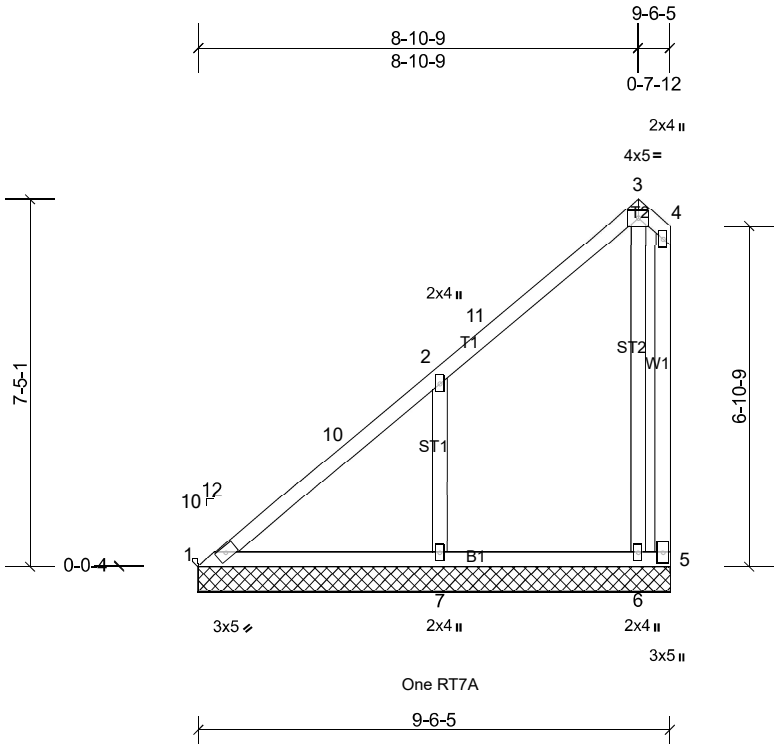
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-456/468, 2-3=-351/355, 4-5=-261/303, 5-6=-240/285
WEBS 4-7=-474/380, 3-8=-331/213, 2-9=-265/163

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-3-10, Interior (1) 3-3-10 to 11-3-10, Exterior (2) 11-3-10 to 11-9-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6, 7, 8, and 9. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VD2	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:41 Page: 1
ID:SYjJhthUagdazNB5Ke1mZ1yE3W1-6YTfchiBcDIYYnMWoFHdFk6_fJ5J0gExT90fLaznF64



One RT7A

Scale = 1:46.5

9-6-5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2 *Except* ST1:2x4 SP No.3

BRACING

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

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

REACTIONS All bearings 9-6-5.
(lb) - Max Horiz 1=215 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6 except 5=-156 (LC 19), 7=-108 (LC 13)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=372 (LC 24), 7=520 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-337/317, 2-10=-309/349
BOT CHORD 1-7=-152/269
WEBS 3-6=-381/313, 2-7=-368/223

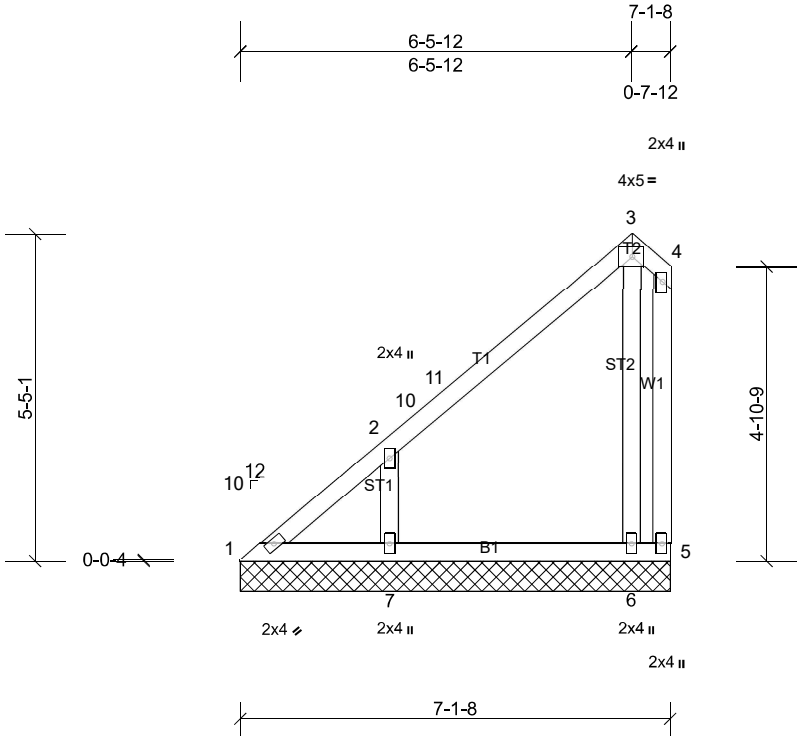
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 8-10-14, Exterior (2) 8-10-14 to 9-4-14 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VD3	Valley	1	1	Job Reference (optional)

Run: 8.5 S 0 Jan 6 2022 Print: 8.500 S Jan 6 2022 MiTek Industries, Inc. Tue Feb 08 10:08:41 Page: 1
ID:wlGhuDi6L_IRbXmItMY?6FyE3W0-6YTfchiBcDIYYnMWoFHdFk6yFJ7p0khxT90fLaznF64



Scale = 1:38.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 40 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 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 7-1-8.
(lb) - Max Horiz 1=154 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 6 except 7=345 (LC 24)

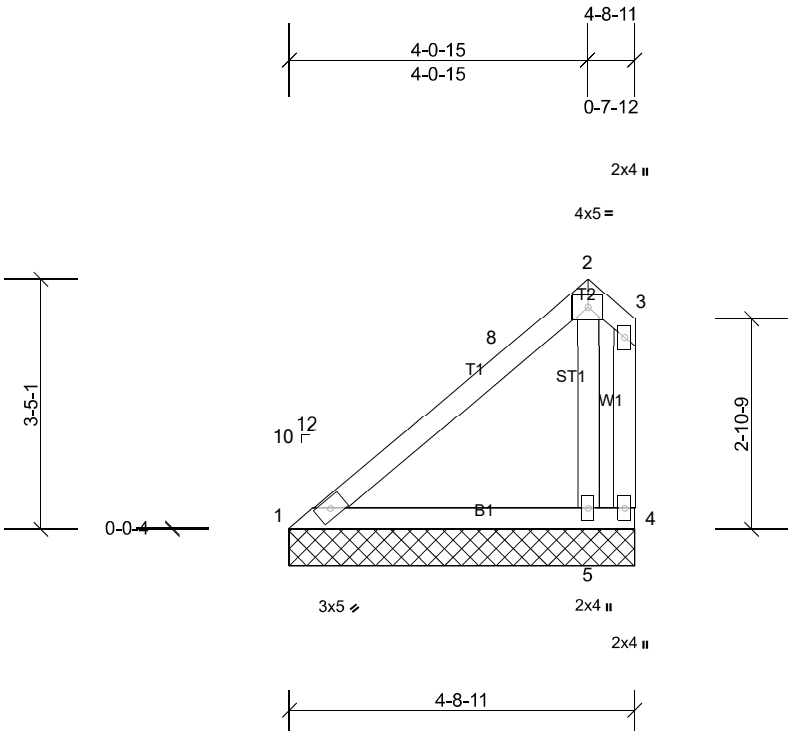
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-294/295
WEBS 2-7=-318/217

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-6-1, Exterior (2) 6-6-1 to 7-0-1 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VD4	Valley	1	1	Job Reference (optional)



Scale = 1:31.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 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 4-9-0 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) 1=121/4-8-11, (min. 0-1-8), 4=-125/4-8-11, (min. 0-1-8), 5=315/4-8-11, (min. 0-1-8)
Max Horiz 1=93 (LC 10)
Max Uplift 4=-160 (LC 24), 5=-26 (LC 10)
Max Grav 1=144 (LC 25), 4=12 (LC 10), 5=392 (LC 24)

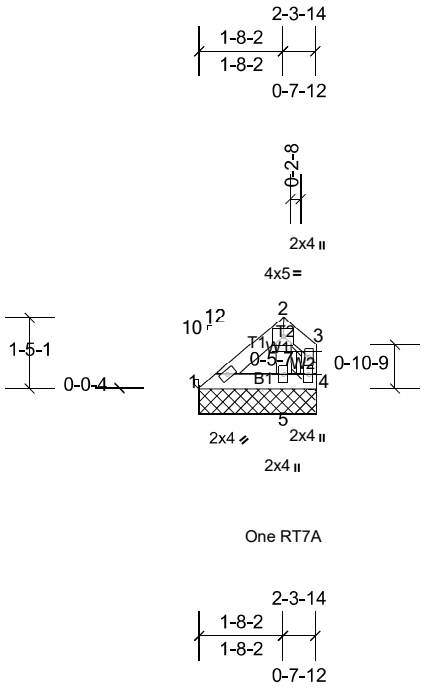
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-1-4, Exterior (2) 4-1-4 to 4-7-4 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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lmaco - Jason Price Residence
21110096	VD5	Valley	1	1	Job Reference (optional)



One RT7A

Scale = 1:46.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	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	0.01	Horiz(TL)	n/a	-	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=50/2-3-14, (min. 0-1-8), 4=-6/2-3-14, (min. 0-1-8), 5=103/2-3-14, (min. 0-1-8)
Max Horiz 1=31 (LC 10)
Max Uplift 4=-16 (LC 28), 5=-4 (LC 10)
Max Grav 1=59 (LC 28), 4=10 (LC 12), 5=127 (LC 24)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-4-3 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.

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 7-10; 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 (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
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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
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) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. This connection is for uplift only and does not consider lateral forces.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard