

TRUSS COMPANY JOB # 100
 JOB# 1008A
 USA# TRUSS10
 USA# TRUSS10
 USA# TRUSS10

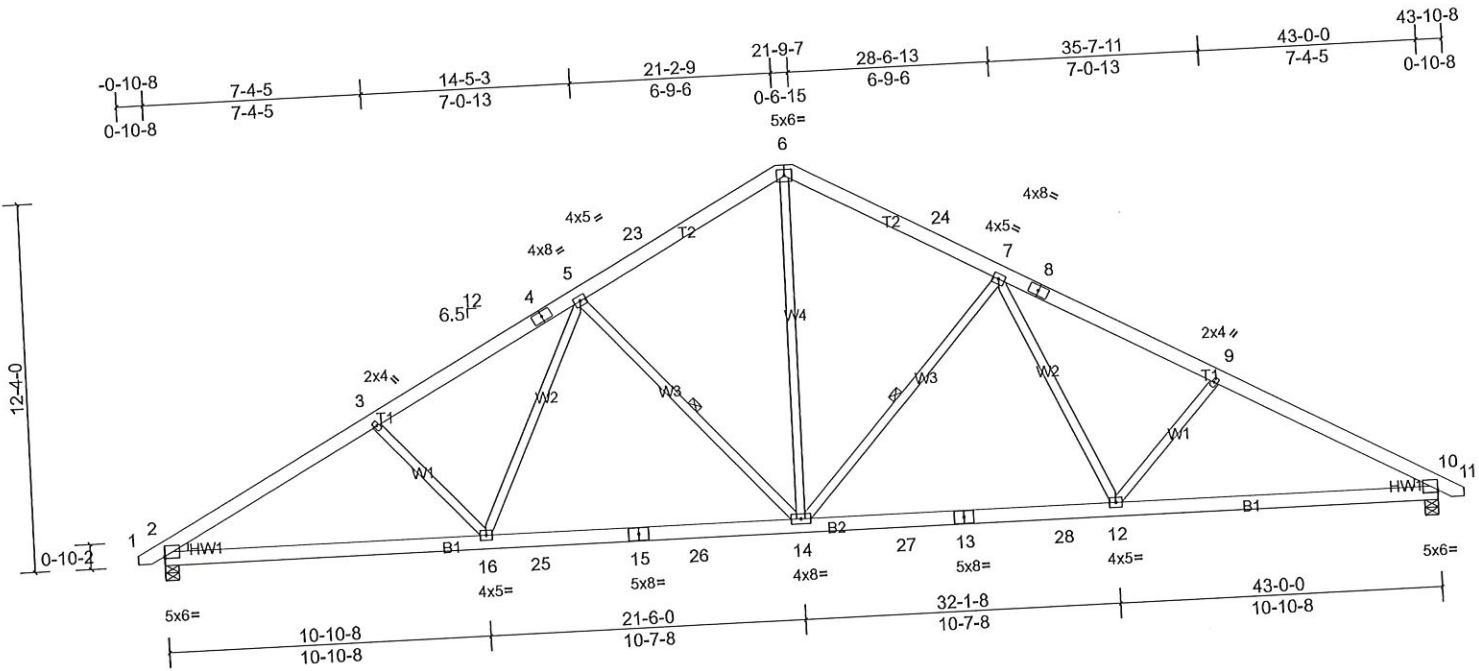
ROOF LAYOUT
 DRAWING SCALE : N

BLOCK SOLID UNDER ALL POST / POINT
 LOADS FROM
 ABOVE - TYPICAL AT ALL LOCATIONS

ONSITE
 HILLMON GROVE ROAD / JACKSON
 ROOF TRUSS LAYOUT

PROJECT NUMBER	REVISIONS	
20020001	DATE	BY
SHEET NUMBER	3-26-20	LEE ATKINS
1 / 1		





Scale = 1:74.5

Plate Offsets (X, Y): [2:Edge,0-0-15], [10:Edge,0-0-15]

Loading (psf)	20.0	Spacing	2-0-0	CSI	0.46	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	13.9/20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.21 14-16	>999	240	MT20	244/190
Snow (Pf/Pg)	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.37 14-16	>999	180		
TCDL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.10 10	n/a	n/a		
BCLL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 310 lb FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING
 TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 3-10-12 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 5-14, 7-14

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

REACTIONS (lb/size) 2=1488/0-5-8, (min. 0-2-1), 10=1488/0-5-8, (min. 0-2-1)
 Max Horiz 2=187 (LC 14)
 Max Grav 2=1760 (LC 2), 10=1760 (LC 2)

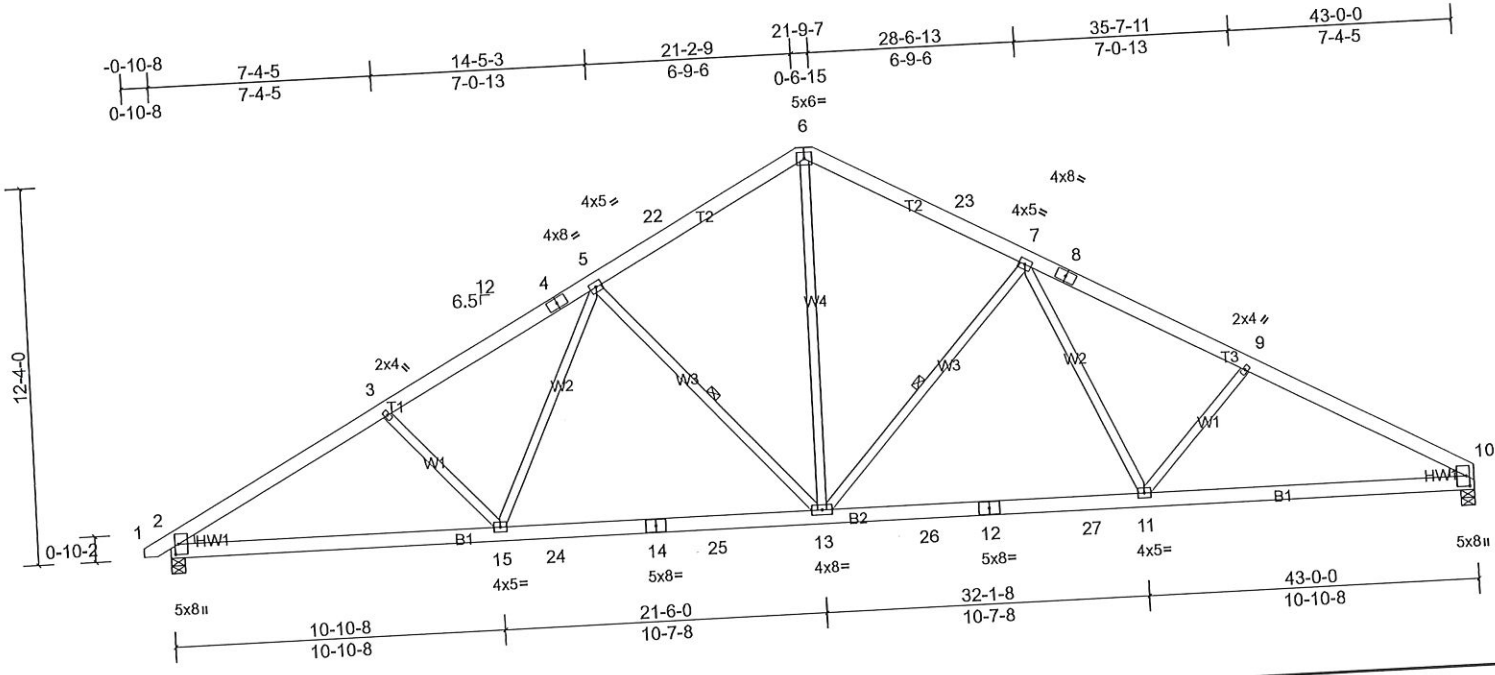
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2890/507, 3-4=-2661/481, 4-5=-2506/503, 5-23=-1921/430, 6-23=-1832/465, 6-24=-1832/465, 7-24=-1921/430,
 7-8=-2506/503, 8-9=-2661/481, 9-10=-2891/507

BOT CHORD 2-16=-339/2574, 16-25=-191/2163, 15-25=-191/2163, 15-26=-191/2163, 14-26=-191/2163, 14-27=-191/2057,
 13-27=-191/2057, 13-28=-191/2057, 12-28=-191/2057, 10-12=-340/2435

WEBS 5-16=-27/543, 3-16=-337/212, 5-14=-738/255, 6-14=-264/1389, 7-14=-738/255, 7-12=-27/543, 9-12=-337/212

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) TCCL: 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, with BCDL = 10.0psf.
 - 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



Scale = 1:72.8

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

Loading (psf)	20.0	Spacing	2-0-0	CSI	0.37	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	13.9/20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.20 13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.36 13-15	>999	180		
TCDL	0.0*	Rep Stress Incr	YES	WB		Horz(CT)	0.10 10	n/a	n/a		
BCLL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 308 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

REACTIONS (lb/size) 2=1488/0-5-8, (min. 0-2-1), 10=1456/0-5-8, (min. 0-2-0)
Max Horiz 2=186 (LC 14)
Max Grav 2=1760 (LC 2), 10=1720 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2879/506, 3-4=-2663/482, 4-5=-2508/503, 5-22=-1921/430, 6-22=-1832/465, 6-23=-1832/465, 7-23=-1921/430,
7-8=-2510/504, 8-9=-2665/482, 9-10=-2881/507

BOT CHORD 2-15=-349/2571, 15-24=-203/2161, 14-24=-203/2161, 14-25=-203/2161, 13-25=-203/2161, 13-26=-203/2054,
12-26=-203/2054, 12-27=-203/2054, 11-27=-203/2054, 10-11=-349/2438

WEBS 5-15=-28/545, 3-15=-337/207, 5-13=-739/257, 6-13=-264/1389, 7-13=-740/257, 7-11=-28/547, 9-11=-338/207

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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, with BCDL = 10.0psf.
 - 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

BRACING
TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 4-0-11 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 5-13, 7-13

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

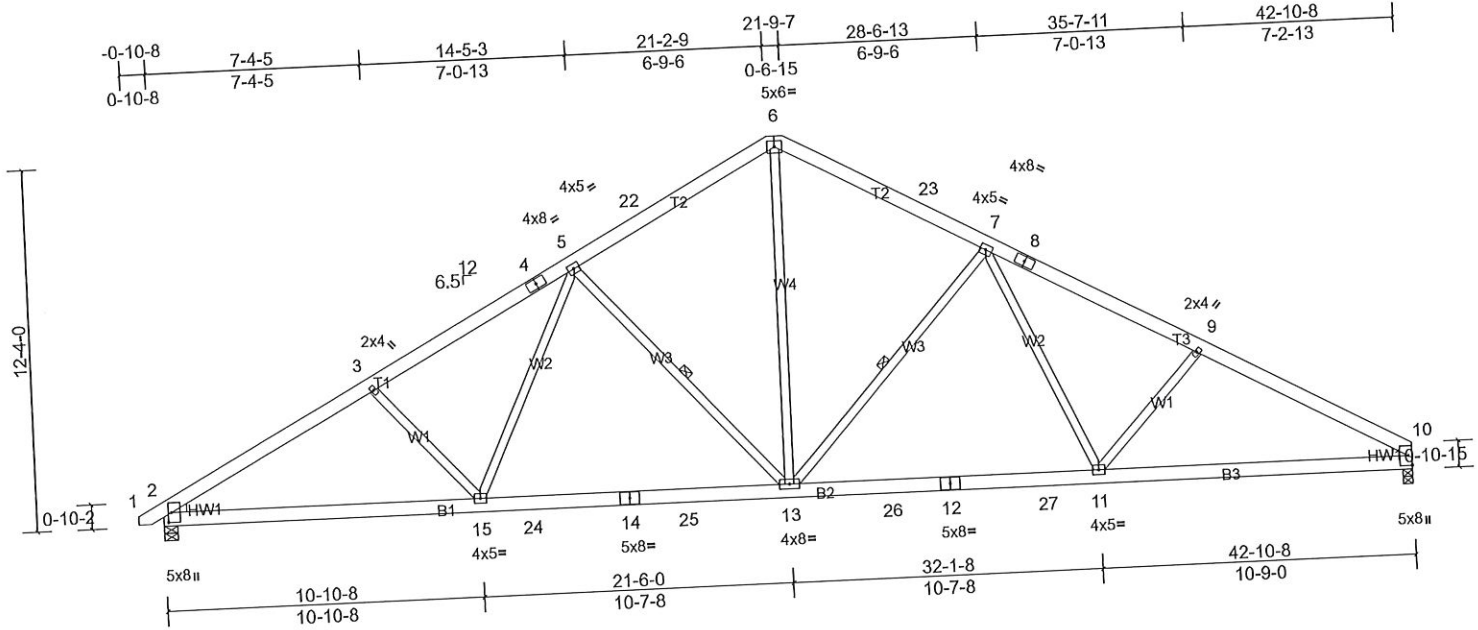


Plate Offsets (X, Y): [2:0-4-0,0-1-4]										PLATES MT20		GRIP 244/190	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d			
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.21	11-13	>999	240			
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.37	11-13	>999	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.10	10	n/a	n/a	Weight: 307 lb FT = 20%		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH									
BCDL	10.0												

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

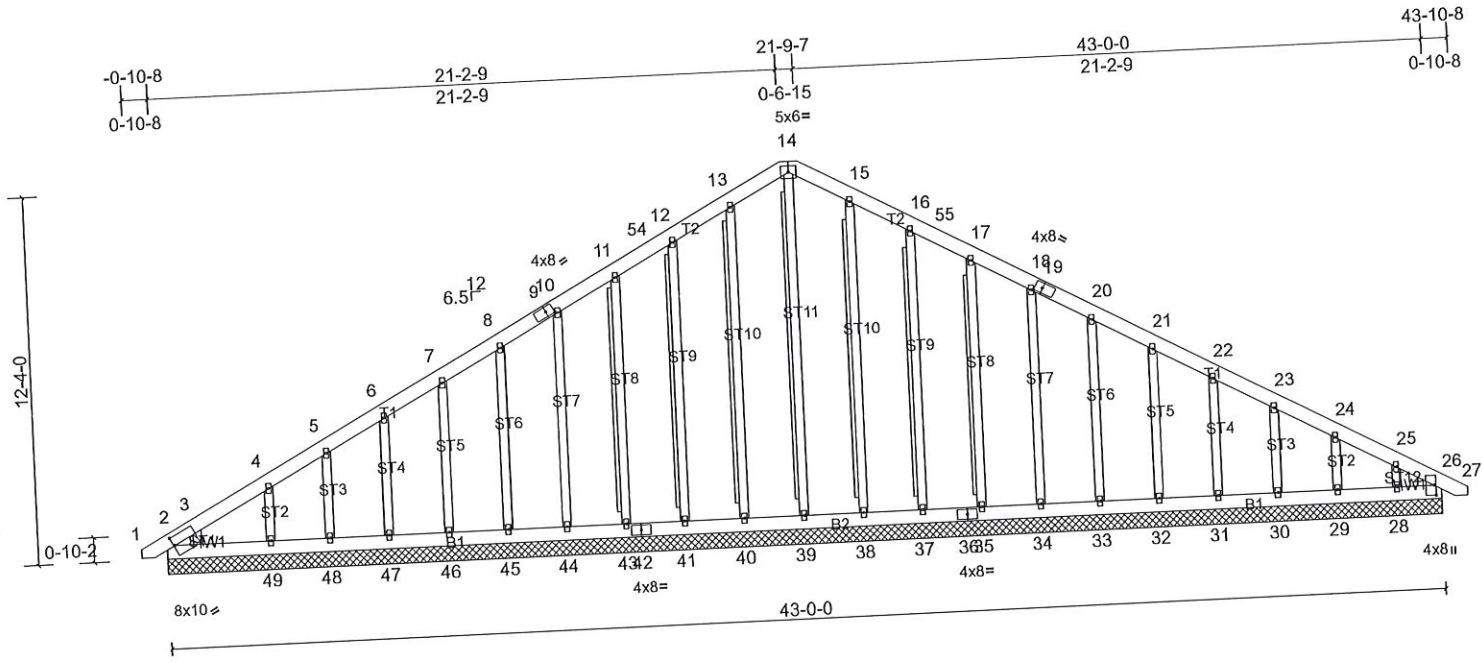
BRACING
 TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 3-11-3 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.
 1 Row at midpt 5-13, 7-13
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=1484/0-5-8, (min. 0-2-1), 10=1452/0-4-0, (min. 0-2-0)
 Max Horiz 2=187 (LC 12)
 Max Grav 2=1755 (LC 2), 10=1715 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2870/505, 3-4=-2654/480, 4-5=-2499/502, 5-22=-1911/428, 6-22=-1822/464, 6-23=-1823/464, 7-23=-1912/428,
 7-8=-2472/498, 8-9=-2627/476, 9-10=-2838/500
 BOT CHORD 2-15=-350/2563, 15-24=-204/2152, 14-24=-204/2152, 14-25=-204/2152, 13-25=-204/2152, 13-26=-202/2037,
 12-26=-202/2037, 12-27=-202/2037, 11-27=-202/2037, 10-11=-344/2392
 WEBS 5-15=-27/545, 3-15=-337/207, 5-13=-739/257, 6-13=-263/1381, 7-13=-726/255, 7-11=-23/514, 9-11=-317/203

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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



Scale = 1:74.5

Plate Offsets (X, Y): [3:0-0-7,0-3-9], [9:0-3-2,0-2-0], [19:0-3-2,0-2-0], [26:0-4-0,0-0-12]

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	Horz(CT)	0.01	26	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0										

Weight: 405 lb FT = 20%

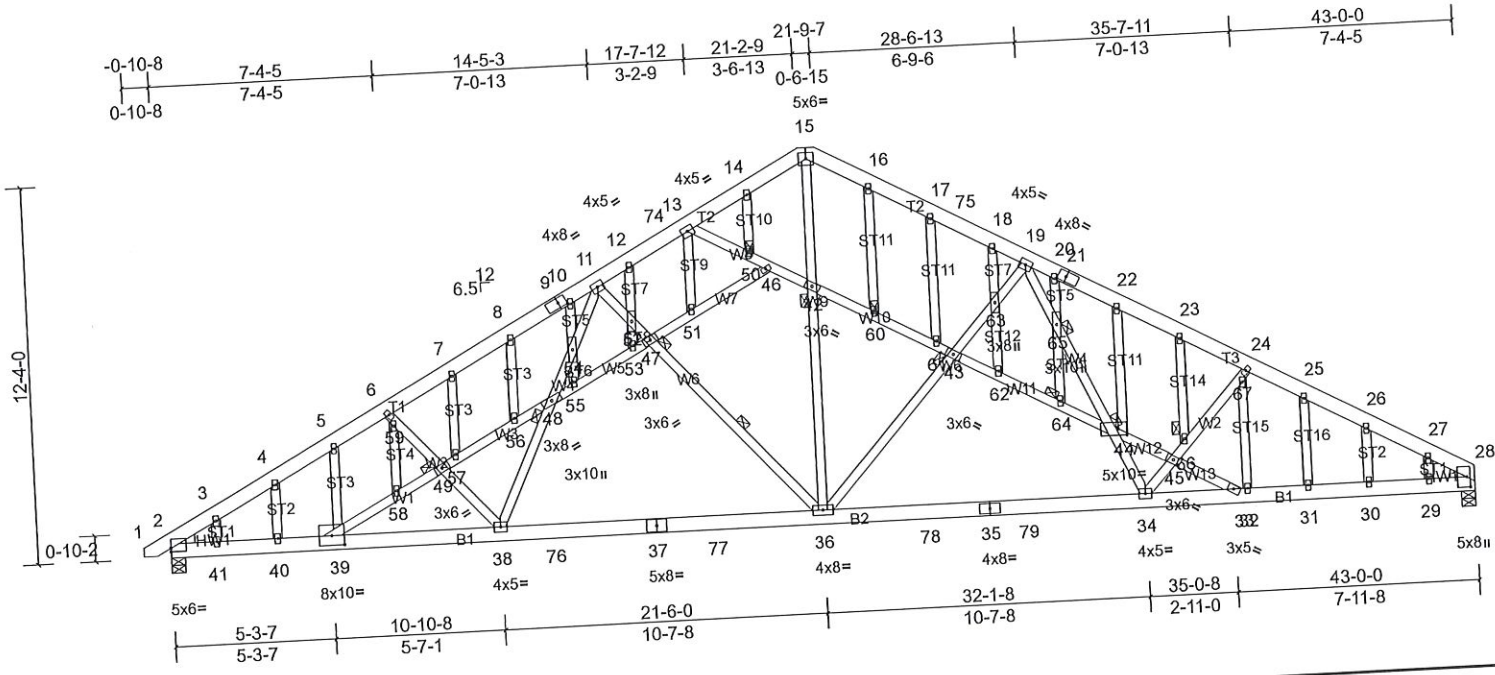
LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 OTHERS 2x4 SP No.2 *Except* ST1,ST4,ST3,ST2,ST12:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.
 WEBS 2x4 SPF No.2 - 14-39, 13-40, T-Brace: 12-41, 11-43, 15-38, 16-37, 17-35
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS All bearings 43'-0-0.
 (lb) - Max Horiz 2=186 (LC 14)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 26, 29, 30, 31, 32, 33, 34, 35, 37, 41, 43, 44, 45, 46, 47, 49, 53
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48 except 28=299 (LC 2), 49=357 (LC 2)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 12-13=-241/288, 13-14=-260/314, 14-15=-260/314, 15-16=-241/288
 WEBS 4-49=-305/179

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0" oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 26, 41, 43, 44, 45, 46, 47, 49, 37, 35, 34, 33, 32, 31, 30, 29, 2, and 26. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



Scale = 1:72.8

Plate Offsets (X, Y): [2:Edge,0-1-7], [9:0-3-2,0-2-0], [21:0-3-2,0-2-0], [28:0-4-0,0-1-4], [39:0-5-0,0-3-12], [44:0-3-3,0-2-7]

Loading	(psf)	Spacing	2-0-0	CSI	0.37	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.18	36-38	>999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.35	36-38	>999		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.09	28	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0										Weight: 445 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W8,W10,W12,W13,W7,W5,W3,W1:2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD
BOT CHORD
WEBS
JOINTS

Structural wood sheathing directly applied or 3-11-1 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 36-47
1 Brace at Jt(s): 42, 43, 44, 47, 48, 49, 50, 60, 64, 65, 66

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

REACTIONS (lb/size) 2=1488/0-5-8, (min. 0-2-1), 28=1456/0-5-8, (min. 0-2-0)
Max Horiz 2=186 (LC 14)
Max Grav 2=1760 (LC 2), 28=1720 (LC 2)

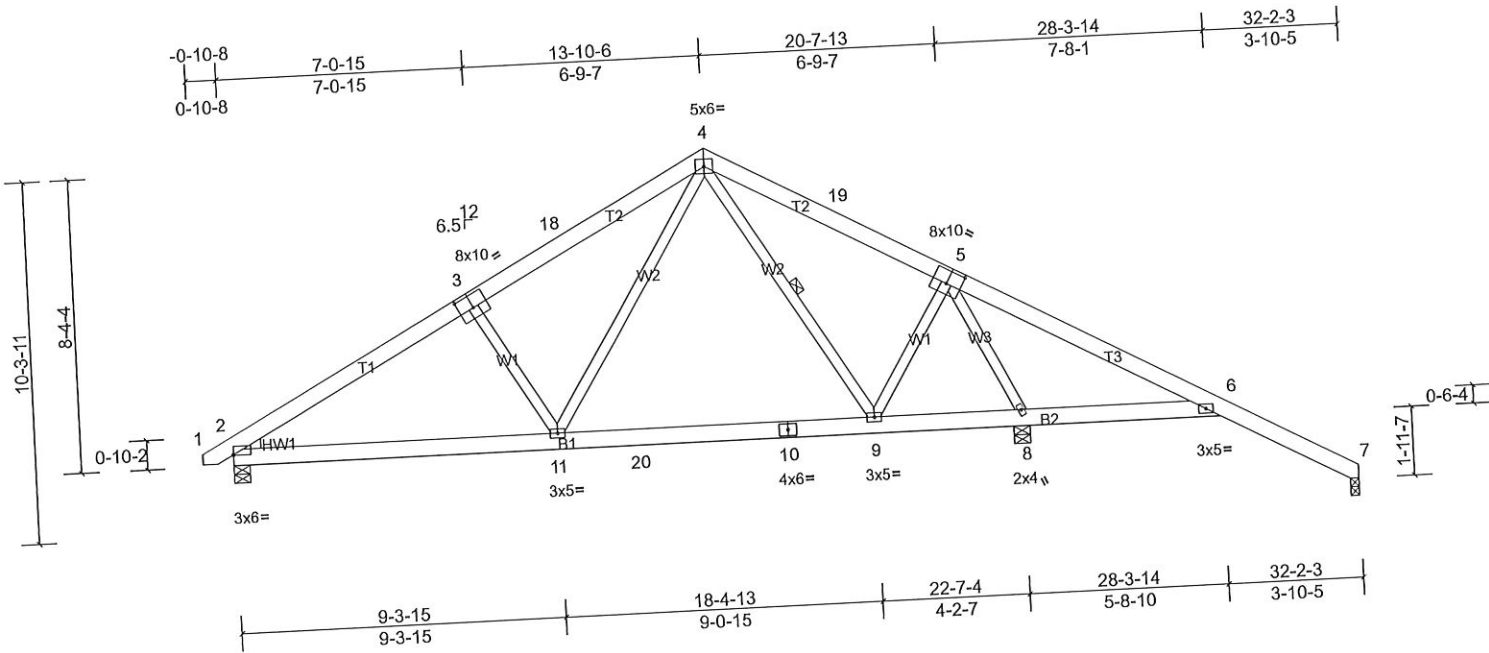
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2839/414, 3-4=-2820/444, 4-5=-2784/483, 5-6=-2737/508, 6-7=-2650/487, 7-8=-2678/534, 8-9=-2632/540,
9-10=-2594/550, 10-11=-2624/589, 11-12=-2020/460, 12-13=-1939/455, 13-14=-1892/463, 13-14=-1770/416,
14-15=-1694/420, 15-16=-1679/417, 16-17=-1734/413, 17-18=-1712/362, 18-19=-1741/358, 18-19=-1795/352,
19-20=-2576/548, 20-21=-2520/532, 21-22=-2567/521, 22-23=-2578/478, 23-24=-2622/456, 24-25=-2732/502,
25-26=-2786/480, 26-27=-2822/441, 27-28=-2817/412
BOT CHORD
2-41=-332/2504, 40-41=-332/2504, 39-40=-332/2504, 38-39=-312/2474, 38-76=-184/2074, 37-76=-184/2074,
37-77=-184/2074, 36-77=-184/2074, 36-78=-255/2111, 35-78=-255/2111, 35-79=-255/2111, 34-79=-255/2111,
33-34=-378/2383, 32-33=-329/2416, 31-32=-329/2416, 30-31=-329/2416, 29-30=-329/2416, 28-29=-329/2416
WEBS
38-48=-35/574, 48-54=-93/623, 11-54=-137/686, 38-49=-324/181, 11-52=-677/193, 47-52=-601/188, 36-47=-578/188,
36-42=-226/1268, 15-42=-235/1272, 36-43=-740/295, 43-63=-652/228, 19-63=-711/241, 19-65=-208/840,
44-65=-166/678, 34-44=-38/447, 34-45=-298/186, 45-66=-299/183, 66-67=-266/169, 24-67=-254/139, 13-50=-273/109,
46-50=-257/100

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) TCCL: 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 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, with BCDL = 10.0psf.
 - 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.

Job 20020001	Truss A5	Truss Type Common	Qty 1	Ply 1	ONSITE / HILLMON GROVE ROAD Job Reference (optional)
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Run: 8.33 S Mar 10 2020 Print: 8.330 S Mar 10 2020 MiTek Industries, Inc. Thu Apr 02 13:45:38 Page: 2
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LOAD CASE(S) Standard



Scale = 1:63.3

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

Loading	(psf)	Spacing	2-0-0	CSI	0.45	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.07	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.12	9-11	>999	180		
TCDL	10.0	Rep Stress Incr Code	YES	WB		Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	IRC2015/TPI2014		Matrix-MSH								
BCDL	10.0											
											Weight: 200 lb FT = 20%	

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3

REACTIONS (lb/size)
 2=713/0-5-8, (min. 0-1-8), 7=109/0-3-0, (min. 0-1-8),
 8=139/0-5-8, (min. 0-1-15)
 Max Horiz 2=-157 (LC 11)
 Max Uplift 2=-19 (LC 15), 7=-10 (LC 16)
 Max Grav 2=845 (LC 2), 7=131 (LC 34), 8=1642 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1158/231, 3-18=-987/242, 4-18=-897/266, 4-19=-358/187, 5-19=-433/168, 5-6=-112/944
 BOT CHORD 2-11=-116/1039, 11-20=0/522, 10-20=0/522, 9-10=0/522, 6-8=-741/233
 WEBS 3-11=-394/226, 4-11=-97/671, 4-9=-422/42, 5-9=0/593, 5-8=-1619/276

NOTES

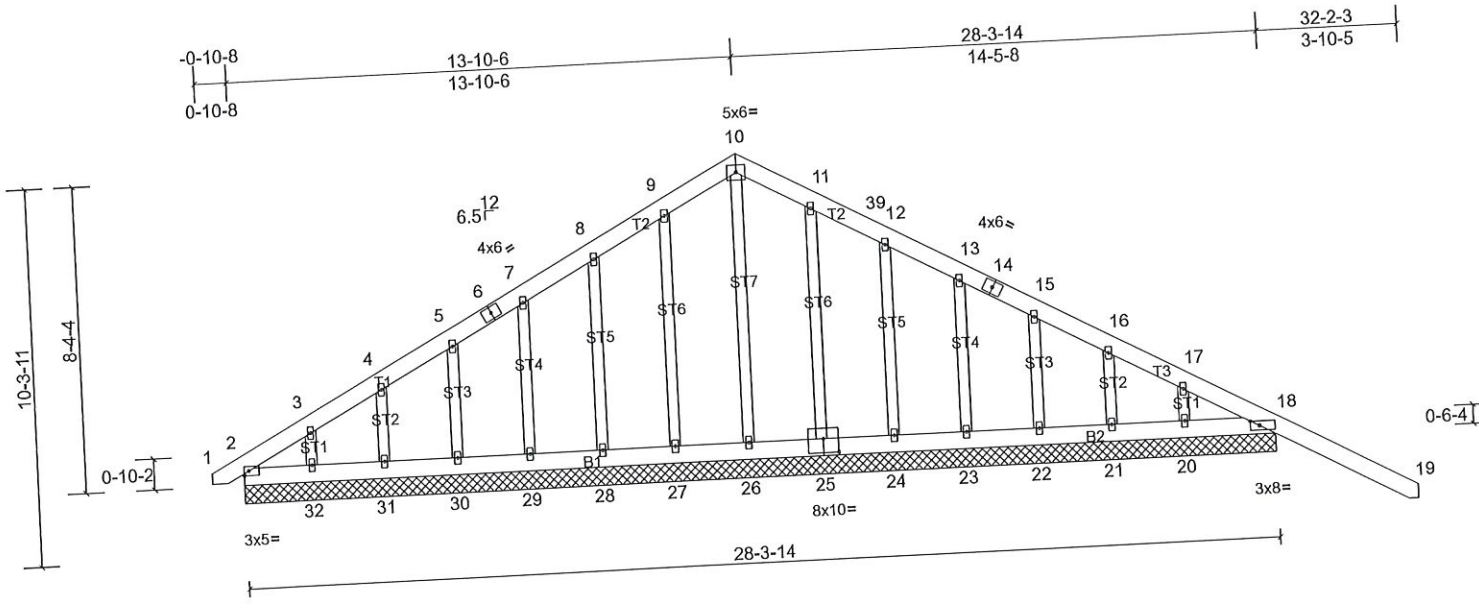
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- 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

BRACING
 TOP CHORD
 BOT CHORD
 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 1 Row at midpt 4-9

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



Scale = 1:60.6

Plate Offsets (X, Y): [18:0-2-15,0-1-8], [25:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI	0.55	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr Code	YES	WB		Horz(CT)	0.00	36	n/a	n/a		
BCLL	0.0*	IRC2015/TPI2014		Matrix-MSH								
BCDL	10.0											
											Weight: 231 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 OTHERS 2x4 SP No.3 *Except* ST7,ST6,ST5:2x4 SP No.2

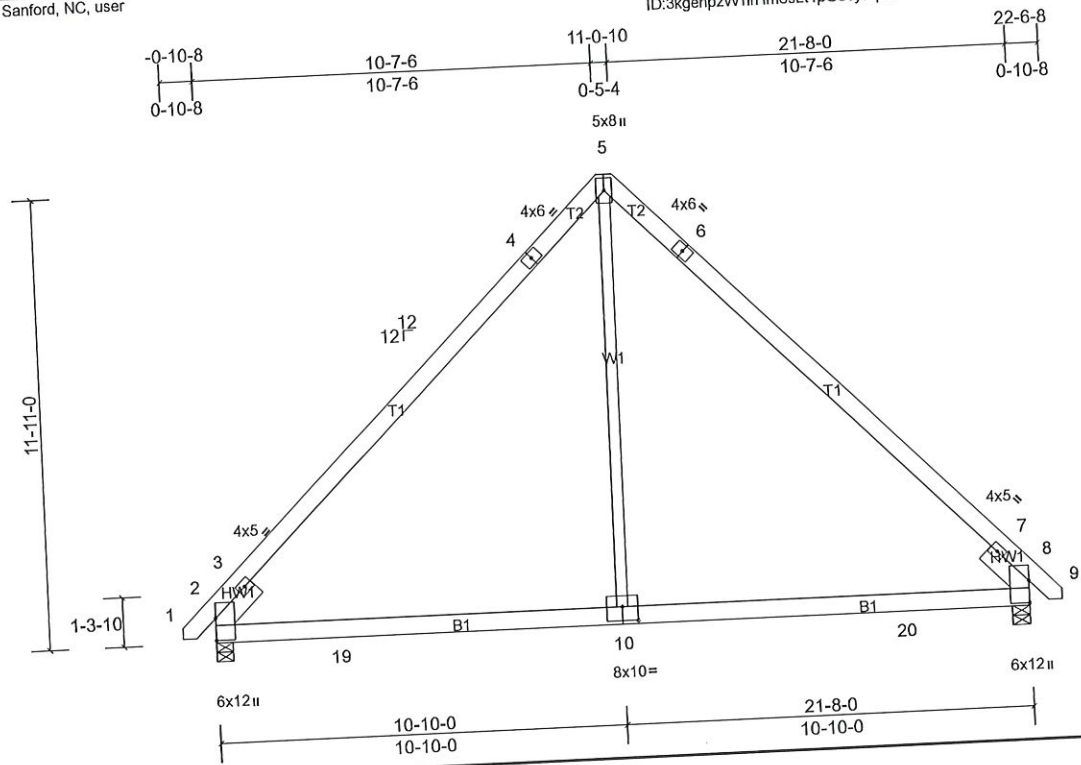
REACTIONS All bearings 28-3-14.
 (lb) - Max Horiz 2--144 (LC 13), 33--144 (LC 13)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 18, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 36 except 20--235 (LC 21)
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33 except 18=574 (LC 21), 36=574 (LC 21)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 18, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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



Scale = 1:58.8

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

Loading	(psf)	Spacing	2-0-0	CSI	0.69	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.14	10-17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.21	10-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.06	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											

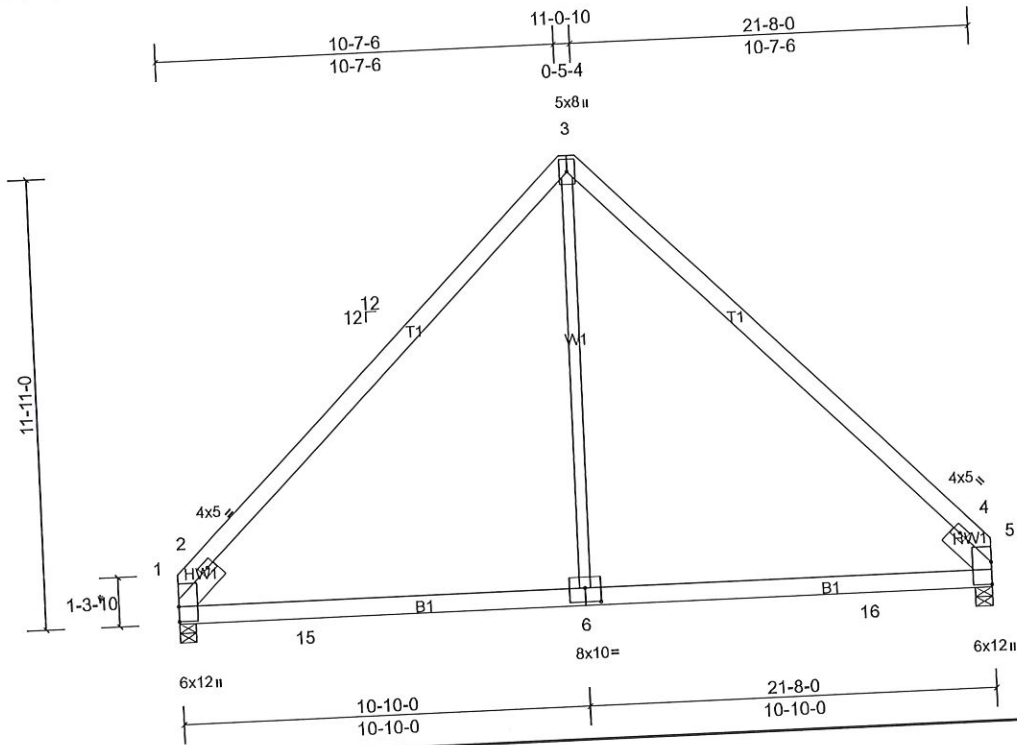
Weight: 152 lb FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
 - BOT CHORD 2x6 SP No.2
 - WEBS 2x4 SP No.2
 - SLIDER Left 2x6 SP No.2 - 1-6-0, Right 2x6 SP No.2 -- 1-6-0
- REACTIONS** (lb/size) 2=767/0-5-4, (min. 0-1-8), 8=767/0-5-8, (min. 0-1-8)
- Max Horiz 2=-226 (LC 11)
Max Grav 2=1035 (LC 25), 8=1035 (LC 26)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-755/427, 3-4=-1055/183, 4-5=-735/231, 5-6=-735/231, 6-7=-1054/183, 7-8=-593/275
BOT CHORD 2-19=-180/667, 10-19=0/667, 10-20=0/667, 8-20=0/667
WEBS 5-10=-3/684

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-3-8 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 DOL=1.15; Category II; Exp B; Fully Exp.; Ct=1.10
 - 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);
 - 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) 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



Scale = 1:58.8

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

Loading	(psf)	Spacing	2-0-0	CSI	0.71	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.14	6-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.22	6-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.06	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
												Weight: 147 lb FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=734/0-5-4, (min. 0-1-8), 5=734/0-5-8, (min. 0-1-8)
 Max Horiz 1=-212 (LC 9)
 Max Grav 1=1006 (LC 25), 5=1006 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-760/407, 2-3=-1058/225, 3-4=-1058/225, 4-5=-598/273
 BOT CHORD 1-15=-182/663, 6-15=0/663, 6-16=0/663, 5-16=0/663
 WEBS 3-6=-2/687

NOTES

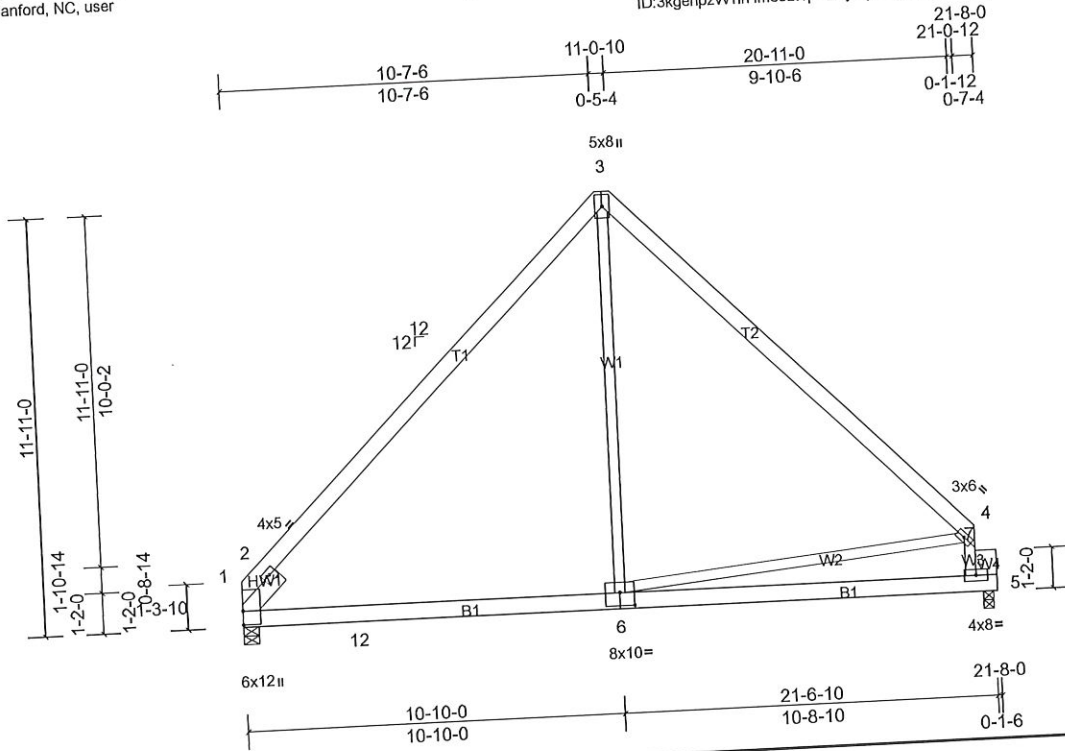
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33 DOL=1.15; Category II; Exp B; Fully Exp.; Ct=1.10
- 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
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-1-1 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

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



Scale = 1:63.4

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

Loading	(psf)	Spacing	2-0-0	CSI	0.71	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.18	6-10	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.28	6-10	>913	180		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.07	1	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
												Weight: 160 lb FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* W4:2x8 SP 2400F 2.0E
 SLIDER Left 2x6 SP No.2 - 1-6-0

REACTIONS (lb/size) 1=713/0-5-4, (min. 0-1-8), 5=706/0-3-8, (min. 0-1-8)
 Max Horiz 1=237 (LC 12)
 Max Grav 1=910 (LC 25), 5=834 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-725/382, 2-3=-892/204, 3-4=-903/202, 5-7=-797/216, 4-7=-779/201
 BOT CHORD 1-12=-205/562, 6-12=-5/562, 5-6=-136/327
 WEBS 3-6=0/438, 4-6=-123/383

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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 DOL=1.15; Category II; Exp B; Fully Exp.; Ct=1.10
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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.

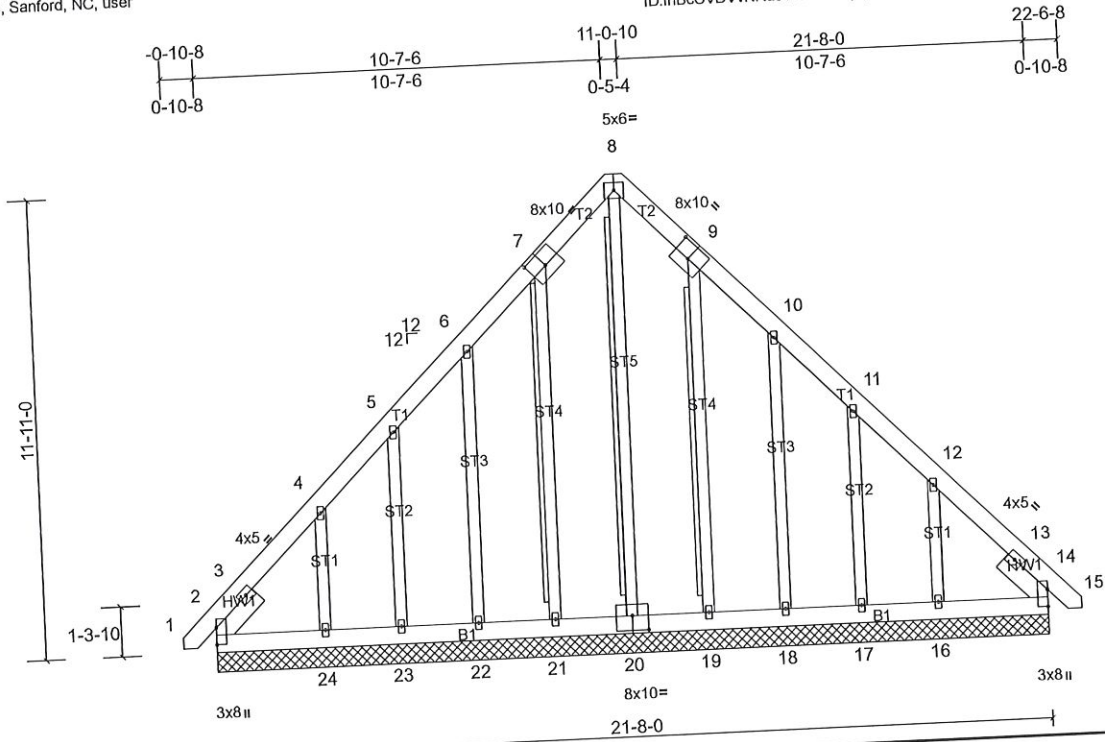
LOAD CASE(S) Standard

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals.
 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.

Carter Components - Sanford, Sanford, NC, user



Scale = 1:57.6

Plate Offsets (X, Y): [7:0-5-0,0-4-8], [9:0-5-0,0-4-8], [20:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI	0.06	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	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(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 225 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 OTHERS 2x4 SP No.2 *Except* ST1:2x4 SP No.3
 SLIDER Left 2x6 SP No.2 - 1-6-0, Right 2x6 SP No.2 - 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 8-20, 7-21, 9-19
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS

All bearings 21-8-0.
 (lb) - Max Horiz 2=221 (LC 12), 25=221 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 14, 17, 18, 19, 21, 22, 23,
 25, 29 except 16=152 (LC 14), 24=158 (LC 13)
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 14, 17, 18, 19, 20, 21,
 22, 23, 25, 29 except 16=259 (LC 26), 24=269 (LC 25)

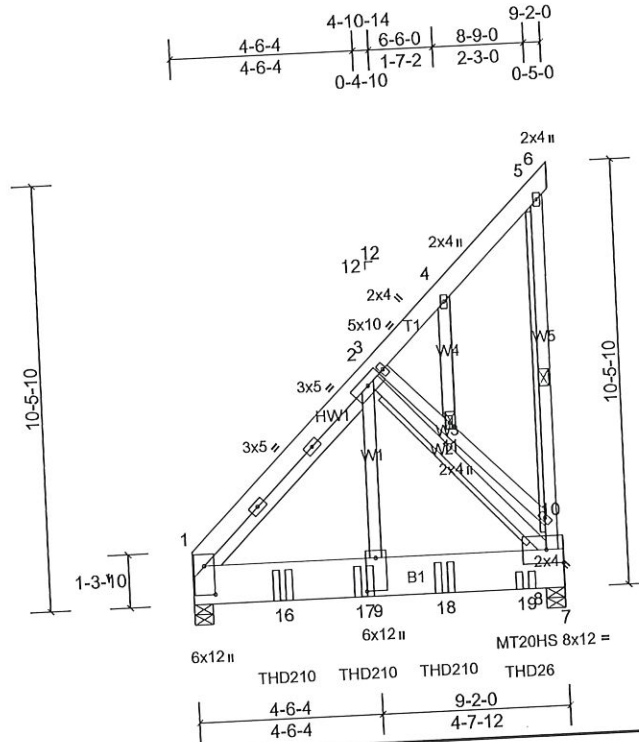
FORCES

WEBS (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 8-20=-255/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 14, 21, 22, 23, 24, 19, 18, 17, and 16. This connection is for uplift only and does not consider lateral forces.
- 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.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard



Scale = 1:54.7

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

Loading	(psf)	Spacing	2-0-0	CSI	0.80	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.03	8-9	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	8-9	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x12 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W4:2x4 SP No.3
SLIDER Left 2x4 SP No.2 - 5-9-7

REACTIONS (lb/size) 1=2730/0-5-8, (min. 0-2-11), 8=3602/0-5-8, (min. 0-3-8)
Max Horiz 1=239 (LC 9)
Max Grav 1=3231 (LC 2), 8=4253 (LC 2)

BRACING

TOP CHORD
BOT CHORD
WEBS
WEBS

Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 5-8
T-Brace: 2x4 SPF No.2 - 2-8
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.
1 Brace at Jt(s): 11

JOINTS

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=-1732/0, 8-10=-454/0
BOT CHORD 1-16=0/1712, 16-17=0/1712, 9-17=0/1712, 9-18=0/1677, 18-19=0/1677, 8-19=0/1677
WEBS 2-8=-2068/0, 2-9=0/3437, 3-11=-481/0, 10-11=-493/0

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); 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) All plates are MT20 plates unless otherwise indicated.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) 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.
- 6) Use USP THD210 (With 38-16d nails into Girder & 20-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-8 from the left end to 6-2-8 to connect truss(es) A3 (1 ply 2x6 SP) to back face of bottom chord.
- 7) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent at 8-2-8 from the left end to connect truss(es) A3 (1 ply 2x6 SP) to back face of bottom chord.
- 8) Fill all nail holes where hanger is in contact with lumber.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

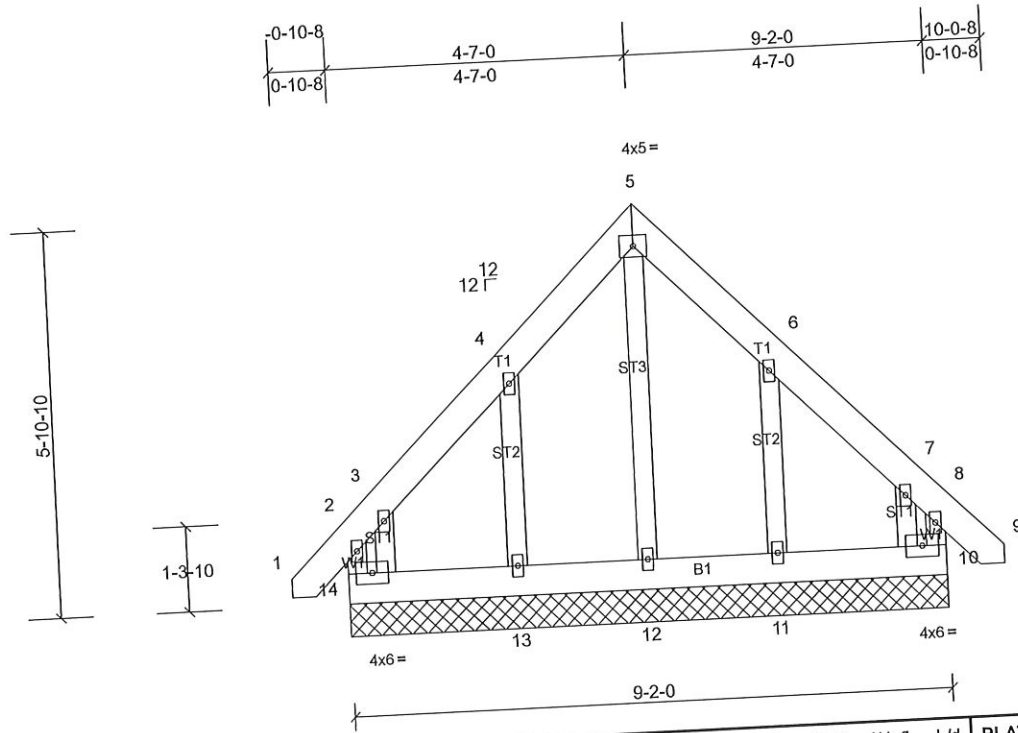
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job 20020001	Truss G1	Truss Type Monopitch Girder	Qty 1	Ply 1	ONSITE / HILLMON GROVE ROAD Job Reference (optional)
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Run: 8.33 S Mar 10 2020 Print: 8.330 S Mar 10 2020 MiTek Industries, Inc. Thu Apr 02 13:45:40 Page: 2
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Carter Components - Sanford, Sanford, NC, user

Uniform Loads (lb/ft)
 Vert: 1-5=-48, 5-6=-48, 7-12=-20
 Concentrated Loads (lb)
 Vert: 16=-1432 (B), 17=-1432 (B), 18=-1432 (B), 19=-1432 (B)



Scale = 1:33.9

Loading	(psf)	Spacing	1-11-4	CSI	0.09	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	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR							Weight: 78 lb	FT = 20%
BCDL	10.0											

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

REACTIONS All bearings 9-2-0.
(lb) - Max Horiz 14=126 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 13, 14
Max Grav All reactions 250 (lb) or less at joint(s) 10, 11, 12, 13, 14
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

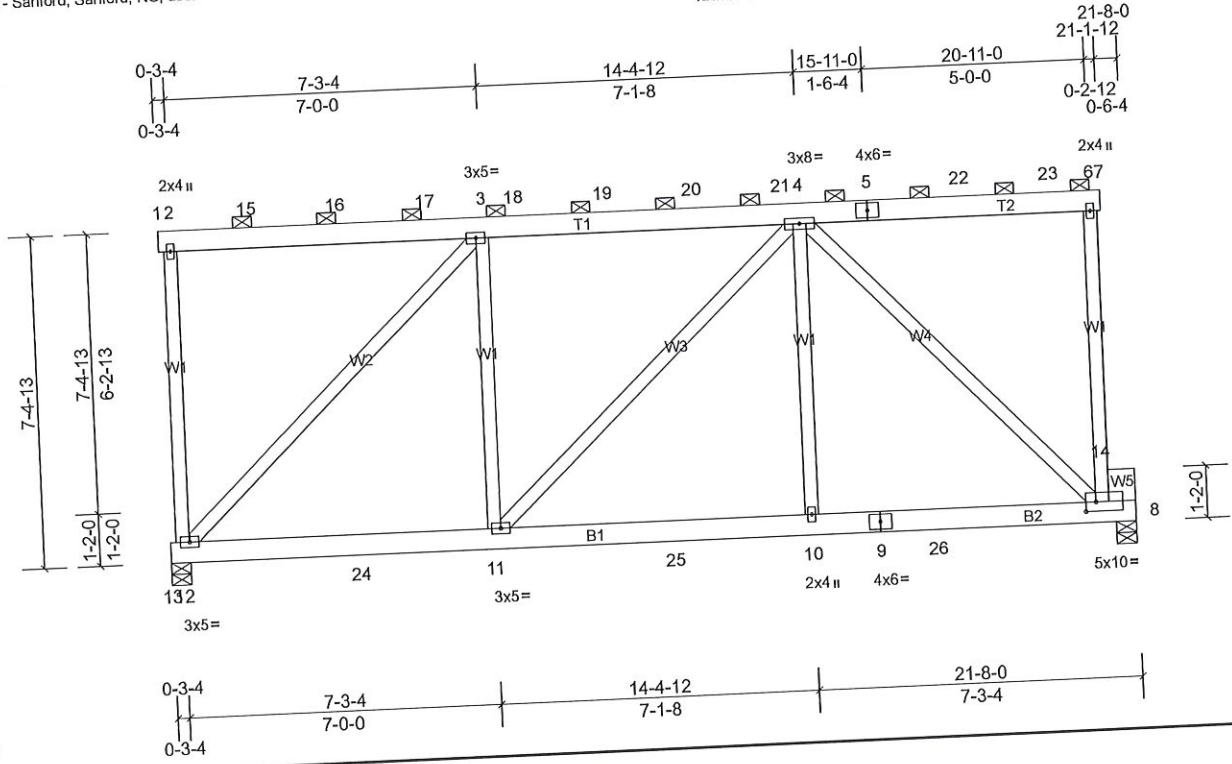
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 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 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 10, 13, 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.

LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

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



Scale = 1:49.5

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

LUMBER

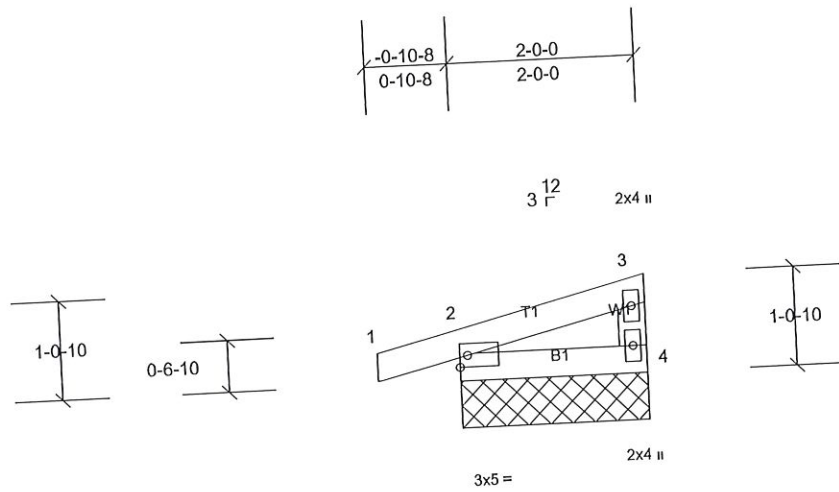
- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x6 SP No.2
- WEBS 2x4 SP No.2 *Except* W5:2x8 SP 2400F 2.0E

REACTIONS

- (lb/size) 8=1089/0-5-8, (min. 0-1-8), 12=1127/0-5-4, (min. 0-1-8)
- Max Horiz 12=159 (LC 8)
- Max Uplift 8=-16 (LC 6), 12=-51 (LC 5)
- Max Grav 8=1193 (LC 2), 12=1242 (LC 2)

BRACING
TOP CHORD
BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.



Scale = 1:23.6

Loading	(psf)	Spacing	1-11-4	CSI	0.06	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	0.00	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB		Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							Weight: 8 lb	FT = 20%
BCDL	10.0											

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

REACTIONS (lb/size)
2=110/2-0-0, (min. 0-1-8), 4=52/2-0-0, (min. 0-1-8),
5=110/2-0-0, (min. 0-1-8)
Max Horiz 2=22 (LC 14), 5=22 (LC 14)
Max Uplift 2=-29 (LC 11), 4=-2 (LC 15), 5=-29 (LC 11)
Max Grav 2=133 (LC 2), 4=60 (LC 2), 5=133 (LC 2)

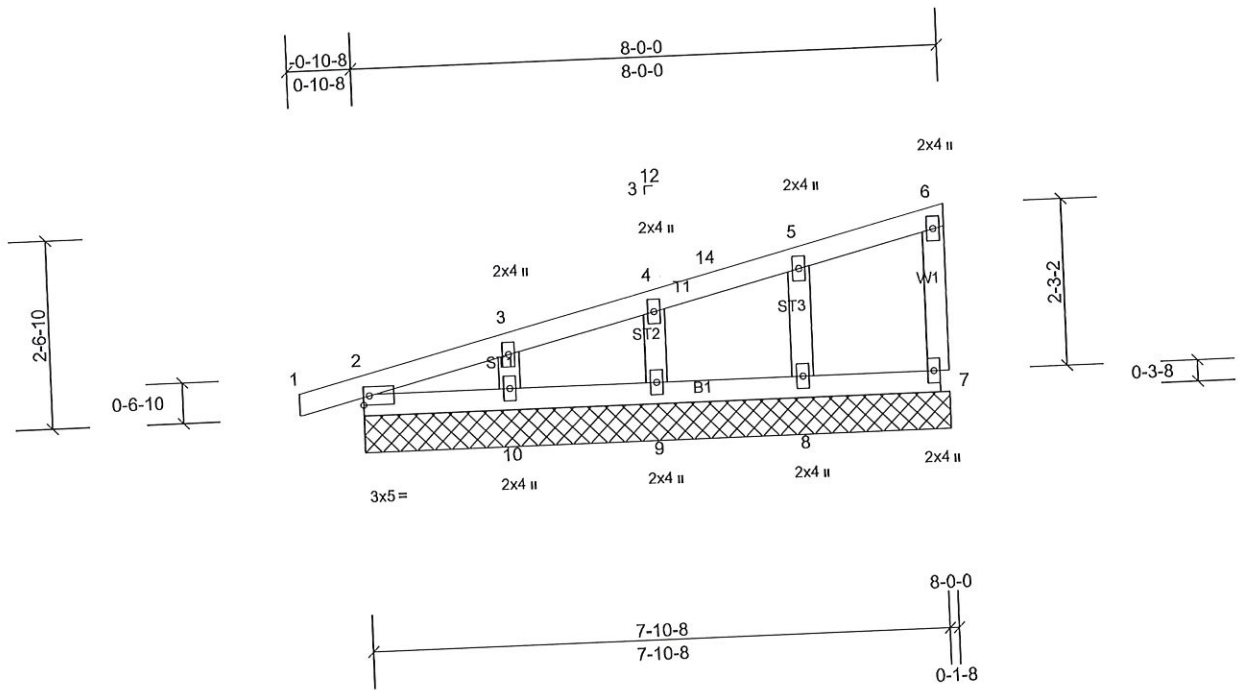
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) 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; Min. flat roof snow load governs.
- 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 requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 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 USP 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.

LOAD CASE(S) Standard

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



Scale = 1:30.1

Loading	(psf)	Spacing	1-11-4	CSI	0.06	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	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	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP							Weight: 33 lb	FT = 20%
BCDL	10.0											

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

REACTIONS All bearings 8-0-0.
 (lb) - Max Horiz 2=59 (LC 11), 11=59 (LC 11)
 Max Uplift All uplift 100 (lb) or less at joint(s) 2, 7, 8, 9, 10, 11
 Max Grav All reactions 250 (lb) or less at joint(s) 2, 7, 8, 9, 10, 11

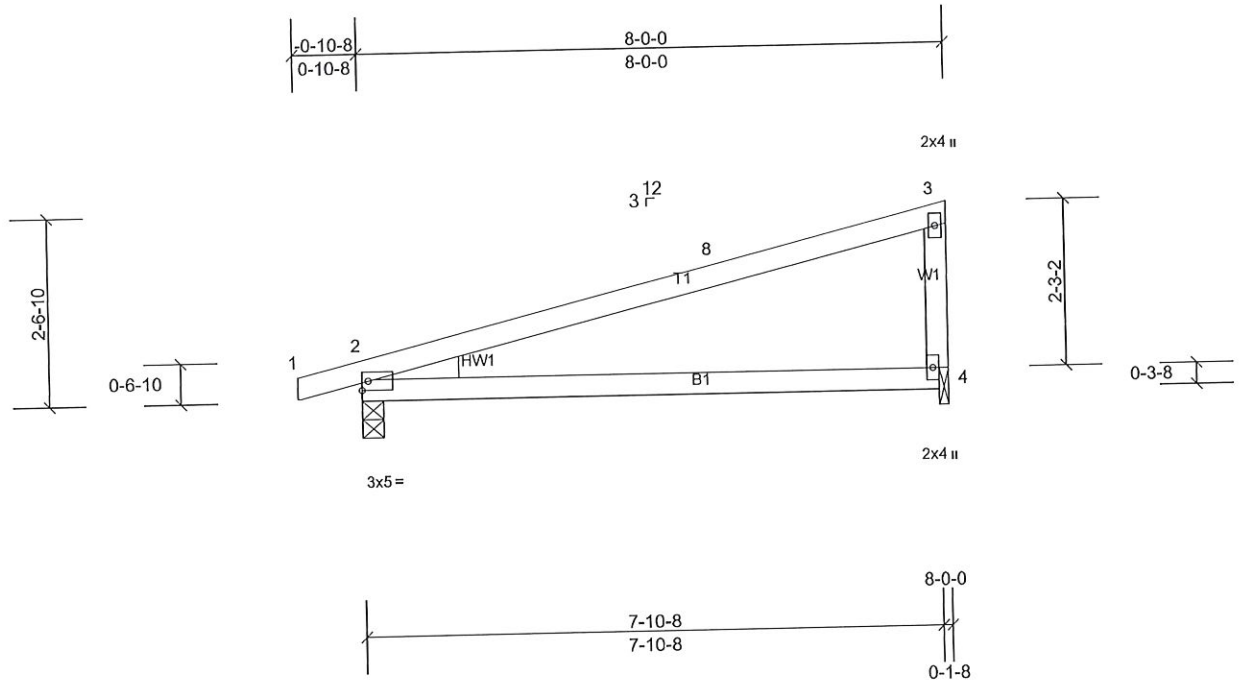
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.

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; 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; Min. flat roof snow load governs.
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 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 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7, 2, 8, 9, and 10. 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



Scale = 1:30.1

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	0.78	Vert(LL)	0.38	4-7	>250	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.32	4-7	>294	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 WEDGE Left: 2x4 SP No.3

REACTIONS (lb/size) 2=309/0-3-8, (min. 0-1-8), 4=264/0-1-8, (min. 0-1-8)
 Max Horiz 2=61 (LC 11)
 Max Uplift 2=-100 (LC 11), 4=-91 (LC 11)
 Max Grav 2=368 (LC 2), 4=311 (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; porch 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.
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) One RT7A USP 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.
- 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.

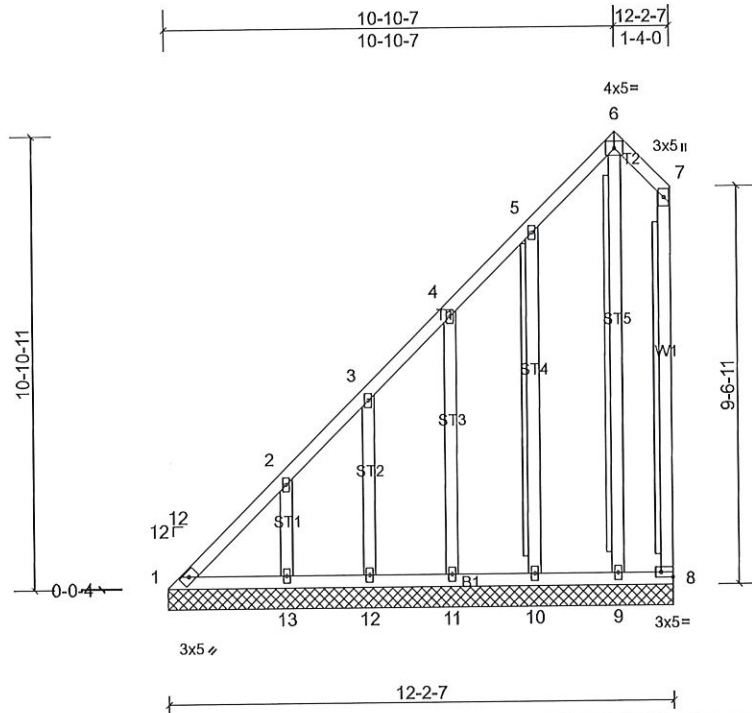
LOAD CASE(S) Standard

BRACING
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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.



Scale = 1:53.4

Plate Offsets (X, Y): [8: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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 104 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* 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 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 7-8, 6-9, 5-10
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS

All bearings 12-2-7.
 (lb) - Max Horiz 1=312 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 10, 11, 12, 13 except 9=-112 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint(s) 1, 8, 9, 10, 11, 12, 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 1-2=-577/534, 2-3=-463/426, 3-4=-355/343, 4-5=-249/258, 6-7=-311/340, 7-8=-289/303
 WEBS 6-9=-412/332

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
- 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8, 9, 10, 11, 12, and 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) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard