Job	Truss	Truss Type	Qty	Ply	
B5313-1	AT1A	Attic	14	1	Job Reference (optional)

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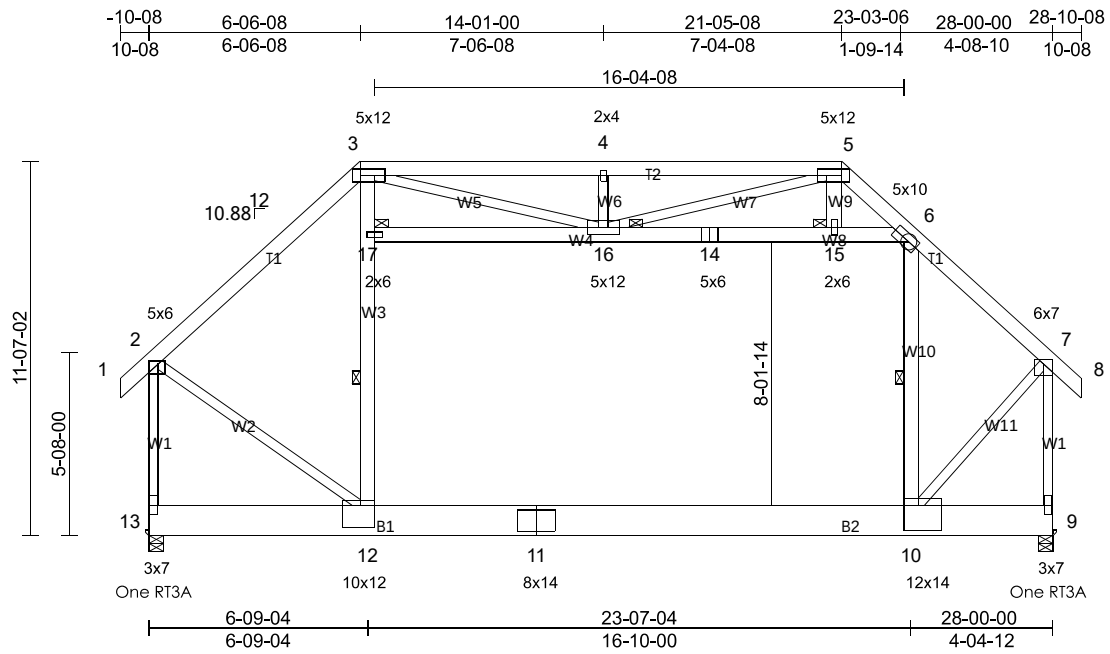

Scale = 1:71.4

Plate Offsets (X, Y): [2:Edge,3-12], [3:9-04,2-12], [5:9-00,2-12], [6:3-07,2-08], [7:Edge,4-04], [10:5-08,9-08], [12:5-08,8-04], [16:6-00,2-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.24	10-12	>999	240	MT20	197/144
Snow (Ps/Pg)	39.5/60.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.37	10-12	>904	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P		Attic	-0.22	10-12	>937	360		
BCDL	10.0										Weight: 275 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x12 SPF No.2
WEBS 2x4 SPF 1650F 1.5E *Except* W3,W10,W8,W9,W4:2x6 SPF No.2

BRACING
TOP CHORD Sheathed or 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-17, 6-10
JOINTS 1 Brace at Jt(s): 15, 16, 17

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

REACTIONS (size) 9=5-08, (min. 3-14), 13=5-08, (min. 3-10)
Max Horiz 13=199 (LC 10)
Max Uplift 9=-156 (LC 12), 13=-191 (LC 12)
Max Grav 9=2465 (LC 19), 13=2321 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1907/191, 3-18=-3073/429, 4-18=-3071/429, 4-19=-3070/429, 5-19=-3073/429, 5-6=-1710/190, 6-7=-1862/147, 2-13=-2513/232, 7-9=-2957/147
BOT CHORD 11-12=0/1332, 10-11=0/1332
WEBS 12-17=-363/638, 3-17=-281/707, 6-10=-558/407, 14-16=-483/134, 14-15=-483/134, 6-15=-501/110, 2-12=0/1667, 7-10=0/2066, 4-16=-971/250, 5-16=-292/1975, 3-16=-238/2149

JOINT STRESS INDEX
2 = 0.71, 3 = 0.72, 4 = 0.50, 5 = 0.71, 6 = 0.17, 7 = 0.67, 9 = 0.56, 10 = 0.68, 11 = 0.87, 12 = 0.64, 13 = 0.48, 14 = 0.20, 15 = 0.28, 16 = 0.62 and 17 = 0.28

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 10-9-6, Interior (1) 10-9-6 to 17-2-10, Exterior (2) 17-2-10 to 28-10-8 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=1.60
3) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
4) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
5) ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps= varies (min. roof snow=39.5 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=20-0-0
6) Roof design snow load has been reduced to account for slope.
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 46.2 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Plates checked for a plus or minus 5 degree rotation about its center.
10) Ceiling dead load (10.0 psf) on member(s). 16-17, 15-16, 6-15
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
12) All bearings are assumed to be SPF 1650F 1.5E .
13) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
14) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
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: 1-2=-99, 2-3=-99, 3-5=-112, 5-7=-99, 7-8=-99, 12-13=-20, 10-12=-40, 9-10=-20, 16-17=-20, 14-16=-20, 14-15=-20, 6-15=-20

Job	Truss	Truss Type	Qty	Ply	
B5313-1	FG1A	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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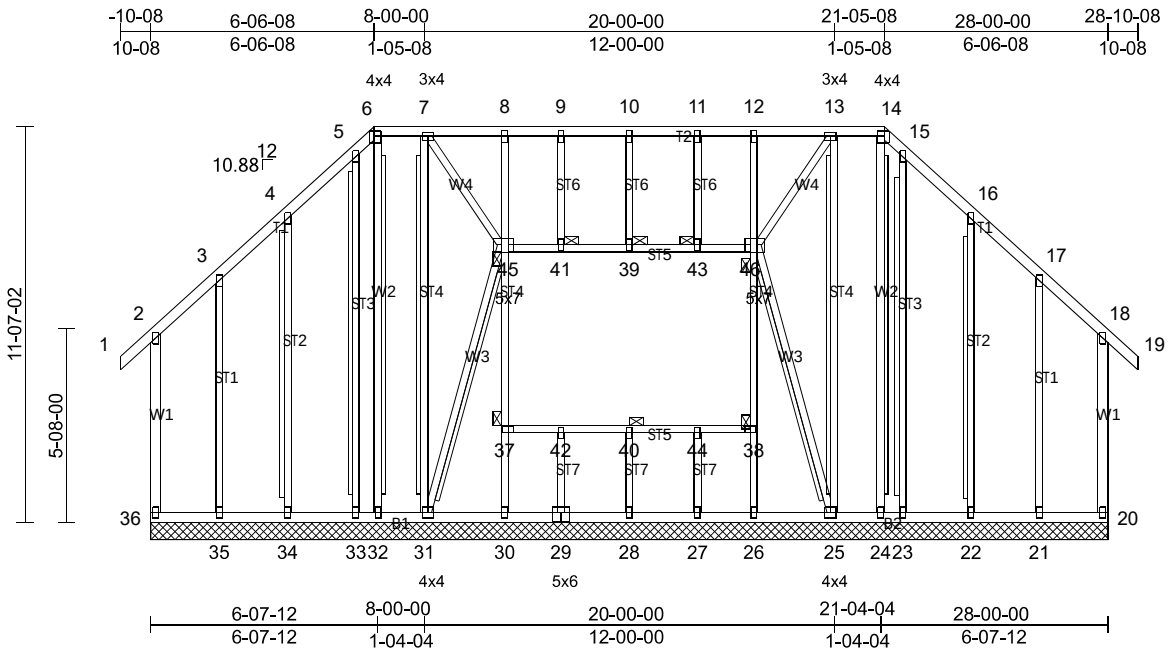

Scale = 1:67.4

Plate Offsets (X, Y): [6:2-04,1-12], [14:2-04,1-12], [29:3-00,3-00], [45:2-08,2-04], [46:2-08,2-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	39.5/60.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 225 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x3 SPF 1650F 1.5E *Except* W1:2x4 SPF No.2
OTHERS	2x3 SPF 1650F 1.5E

BRACING

TOP CHORD	Sheathed 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: 31-32,24-25.
WEBS	T-Brace: 2x3 SPF No.2 - 5-33, 4-34, 15-23, 16-22, 31-45, 25-46 2x4 SPF No.2 - 7-31, 13-25, 6-32, 14-24 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.
JOINTS	1 Brace at Jt(s): 37, 38, 39, 40, 41, 43, 45, 46

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

REACTIONS All bearings 28-00-00.

(lb) - Max Horiz 36=-206 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 21, 23, 24, 27, 29, 32, 33, 35 except 20=-127 (LC 12), 22=-114 (LC 12), 25=-278 (LC 8), 26=-285 (LC 7), 30=-295 (LC 8), 31=-288 (LC 7), 34=-114 (LC 12), 36=-127 (LC 12)

Max Grav All reactions 250 (lb) or less at joint (s) 21, 23, 24, 27, 28, 29, 32, 33, 35 except 20=307 (LC 15), 22=253 (LC 1), 25=625 (LC 17), 26=569 (LC 18), 30=579 (LC 17), 31=635 (LC 18), 34=253 (LC 1), 36=307 (LC 15)

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

TOP CHORD 2-36=-292/210, 4-5=-224/334, 5-6=-234/349, 6-7=-183/280, 7-8=-195/287, 8-9=-189/281, 9-10=-189/281, 10-11=-189/281, 11-12=-189/281, 12-13=-195/287, 13-14=-183/280, 14-15=-234/349, 15-16=-224/334, 18-20=-292/210

WEBS 30-37=-537/312, 37-45=-539/313, 8-45=-706/198, 26-38=-527/299, 38-46=-529/300, 12-46=-706/198, 31-45=-446/238, 25-46=-433/220

JOINT STRESS INDEX

2 = 0.50, 3 = 0.50, 4 = 0.50, 5 = 0.50, 6 = 0.51, 7 = 0.72, 8 = 0.44, 9 = 0.44, 10 = 0.44, 11 = 0.44, 12 = 0.44, 13 = 0.72, 14 = 0.51, 15 = 0.50, 16 = 0.50, 17 = 0.50, 18 = 0.50, 20 = 0.44, 21 = 0.44, 22 = 0.44, 23 = 0.44, 24 = 0.44, 25 = 0.57, 26 = 0.44, 27 = 0.44, 28 = 0.44, 29 = 0.35, 30 = 0.44, 31 = 0.57, 32 = 0.44, 33 = 0.44, 34 = 0.44, 35 = 0.44, 36 = 0.44, 37 = 0.44, 38 = 0.44, 39 = 0.44, 40 = 0.44, 41 = 0.44, 42 = 0.44, 43 = 0.44, 44 = 0.44, 45 = 0.38 and 46 = 0.38

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASC 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-0-0, Exterior (2) 2-0-0 to 3-6-8, Corner (3) 3-6-8 to 9-6-8, Exterior (2) 9-6-8 to 18-5-8, Corner (3) 18-5-8 to 24-5-8, Exterior (2) 24-5-8 to 28-5-10, Corner (3) 25-10-8 to 28-10-8 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=1.60
3) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
4) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
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=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps= varies (min. roof snow=39.5 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=20-0-0
7) Roof design snow load has been reduced to account for slope.
8) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
9) Provide adequate drainage to prevent water ponding.
10) All plates are 2x4 MT20 unless otherwise indicated.
11) Plates checked for a plus or minus 5 degree rotation about its center.
12) Gable requires continuous bottom chord bearing.
13) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
14) Vertical gable studs spaced at 2-0-0 oc and horizontal gable studs spaced at 5-3-8 oc.
15) All bearings are assumed to be SPF 1650F 1.5E .
16) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36, 20, 30, 26, 29, 31, 33, 34, 35, 27, 25, 23, 22, 21, 32, and 24. This connection is for uplift only and does not consider lateral forces.
17) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
18) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
B5313-1	FG1A	Piggyback Base Supported Gable	1	1	Job Reference (optional)

ID:rKL0t7c7VFkFq8x_uLluk_zkI3l-tdmdNUxvUEnTuYrszbymNrnGufhet?lCu58NJ6zeLmf

Vert: 1-2=-99, 2-6=-99, 6-14=-112, 14-18=-99,
18-19=-99, 20-36=-20

Job	Truss	Truss Type	Qty	Ply	
B5313-1	FG1B	Piggyback Base Supported Gable	1	1	Job Reference (optional)

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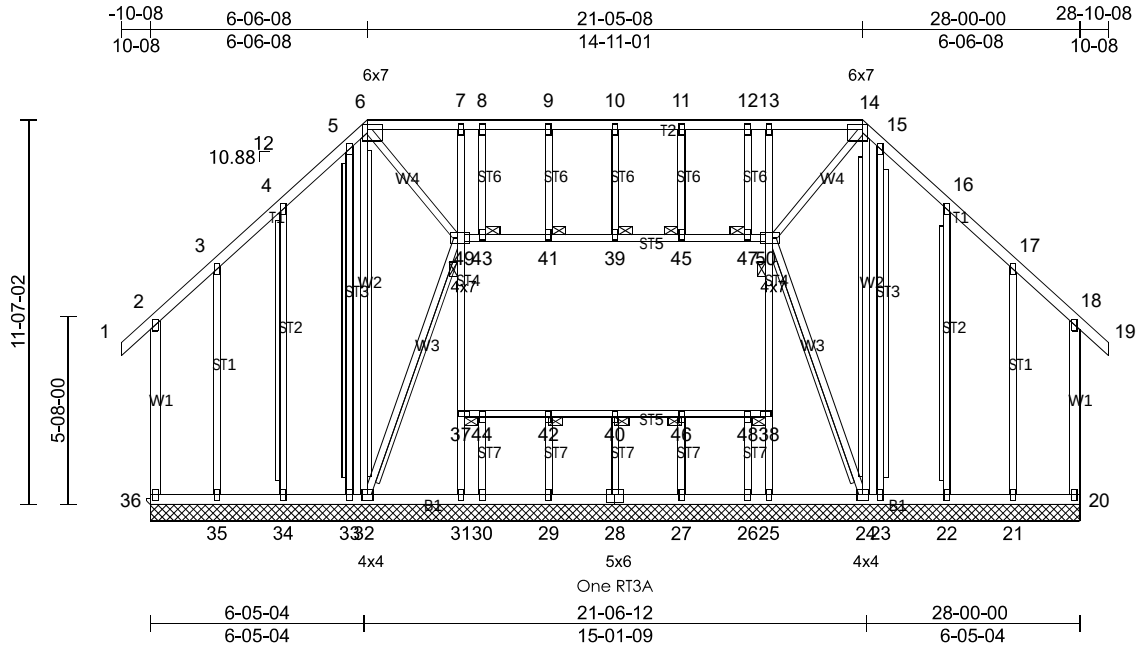


Scale = 1:69.4

Plate Offsets (X, Y): [6:5-04,1-12], [14:5-04,1-12], [28:3-00,3-00], [49:2-08,2-00], [50:2-08,2-00]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	39.5/60.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.00	20	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 220 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E *Except* T2:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x3 SPF 1650F 1.5E *Except* W1:2x4 SPF No.2
OTHERS 2x3 SPF 1650F 1.5E

BRACING

TOP CHORD Sheathed 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 7-37, 13-38
WEBS T-Brace: 2x3 SPF No.2 - 5-33, 4-34, 15-23, 16-22, 32-49, 24-50
2x4 SPF No.2 - 6-32, 14-24
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.
JOINTS 1 Brace at Jt(s): 37, 38, 39, 40, 41, 42, 43, 45, 46, 47

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

REACTIONS All bearings 28-00-00.
(lb) - Max Horiz 36=-206 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 21, 23, 26, 27, 28, 29, 30, 33, 35 except 20=-127 (LC 12), 22=-112 (LC 12), 24=-240 (LC 8), 25=-229 (LC 7), 31=-244 (LC 8), 32=-256 (LC 7), 34=-112 (LC 12), 36=-127 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 21, 23, 26, 27, 28, 29, 30, 33, 35 except 20=307 (LC 15), 22=253 (LC 1), 24=627 (LC 17), 25=578 (LC 18), 31=592 (LC 17), 32=642 (LC 18), 34=253 (LC 1), 36=307 (LC 15)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-36=-292/210, 4-5=-224/333, 5-6=-236/353, 6-7=-244/356, 7-8=-237/349, 8-9=-237/349, 9-10=-237/349, 10-11=-237/349, 11-12=-237/349, 12-13=-237/349, 13-14=-244/356, 14-15=-236/353, 15-16=-224/333, 18-20=-292/210
WEBS 31-37=-544/243, 37-49=-558/250, 7-49=-957/260, 25-38=-529/229, 38-50=-543/235, 13-50=-957/260, 6-49=-123/292, 32-49=-445/196, 14-50=-123/296, 24-50=-426/175

JOINT STRESS INDEX

2 = 0.50, 3 = 0.50, 4 = 0.50, 5 = 0.50, 6 = 0.49, 7 = 0.48, 8 = 0.44, 9 = 0.44, 10 = 0.44, 11 = 0.44, 12 = 0.44, 13 = 0.48, 14 = 0.49, 15 = 0.50, 16 = 0.50, 17 = 0.50, 18 = 0.50, 20 = 0.44, 21 = 0.44, 22 = 0.44, 23 = 0.44, 24 = 0.55, 25 = 0.44, 26 = 0.44, 27 = 0.44, 28 = 0.35, 29 = 0.44, 30 = 0.44, 31 = 0.44, 32 = 0.55, 33 = 0.44, 34 = 0.44, 35 = 0.44, 36 = 0.44, 37 = 0.44, 38 = 0.44, 39 = 0.44, 40 = 0.44, 41 = 0.44, 42 = 0.44, 43 = 0.44, 44 = 0.44, 45 = 0.44, 46 = 0.44, 47 = 0.44, 48 = 0.44, 49 = 0.54 and 50 = 0.54

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=28ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-0-0, Exterior (2) 2-0-0 to 3-6-8, Corner (3) 3-6-8 to 9-4-4, Exterior (2) 9-4-4 to 18-5-8, Corner (3) 18-5-8 to 24-5-8, Exterior (2) 24-5-8 to 25-10-8, Corner (3) 25-10-8 to 28-10-8 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=1.60
3) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
4) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
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=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps= varies (min. roof snow=39.5 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=20-0-0
7) Roof design snow load has been reduced to account for slope.
8) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
9) Provide adequate drainage to prevent water ponding.
10) All plates are 2x4 MT20 unless otherwise indicated.
11) Plates checked for a plus or minus 5 degree rotation about its center.
12) Gable requires continuous bottom chord bearing.
13) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
14) Vertical gable studs spaced at 2-0-0 oc and horizontal gable studs spaced at 5-3-8 oc.
15) All bearings are assumed to be SPF 1650F 1.5E .
16) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 36, 20, 31, 25, 28, 29, 30, 33, 34, 35, 27, 26, 23, 22, 21, 32, and 24. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	
B5313-1	FG1B	Piggyback Base Supported Gable	1	1	Job Reference (optional)

ID:UGM_uzbJoe5MfHN5bEQUs4zkIHz-tdmdNUxvUEnTuYrszbymNrnDTfhUtz6Cu58NJ6zeLmf

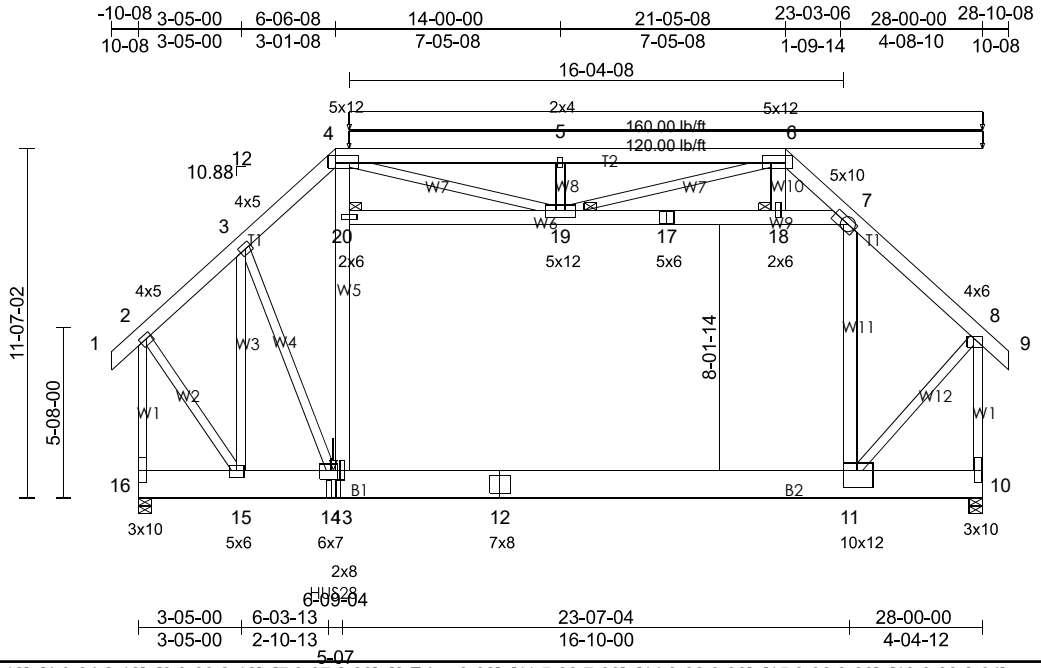
17) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
18) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-2=-99, 2-6=-99, 6-14=-112, 14-18=-99, 18-19=-99, 20-36=-20

Job	Truss	Truss Type	Qty	Ply	
B5313-1	G1A	Attic Girder	2	3	Job Reference (optional)

ID:AC7wfoChKlsteE6fp_80mszrs4X-OQDFA8wHjxfdGOGfQuRXqdF4DGFJ8Zb2fROqnfzeLmg



Scale = 1:76.4

Plate Offsets (X, Y): [2:2-00,1-12], [4:9-04,2-12], [6:9-00,2-12], [7:3-07,2-03], [8:Edge,3-08], [11:5-08,7-00], [14:3-08,3-08], [15:3-00,3-00], [19:6-00,2-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.10	11-13	>999	240	MT20	197/144
Snow (Ps/Pg)	39.5/60.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.17	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P		Attic	-0.08	11-13	>999	360		
BCDL	10.0										Weight: 870 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x12 SPF No.2
WEBS 2x4 SPF 1650F 1.5E *Except* W5,W11,W9,W10,W6:2x6 SPF No.2

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 18, 19, 20

REACTIONS (size) 10=5-08, (min. 3-00), 16=5-08, (min. 2-09)
Max Horiz 16=199 (LC 8)
Max Grav 10=5792 (LC 37), 16=4902 (LC 36)

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

TOP CHORD 2-3=-2722/0, 3-4=-3826/0, 4-21=-8170/0, 5-21=-8170/0, 5-6=-8170/0, 6-7=-4559/0, 7-8=-3984/0, 2-16=-4924/0, 8-10=-6367/0
BOT CHORD 14-15=0/2023, 13-14=0/2780, 12-13=0/2784, 11-12=0/2784
WEBS 3-15=-3333/0, 3-14=0/2481, 13-20=-527/39, 4-20=-454/127, 7-11=-1877/0, 19-20=-253/49, 17-19=0/686, 17-18=0/686, 7-18=0/646, 2-15=0/3560, 8-11=0/4322, 6-18=0/369, 5-19=-2868/0, 6-19=0/5334, 4-19=0/5985

JOINT STRESS INDEX

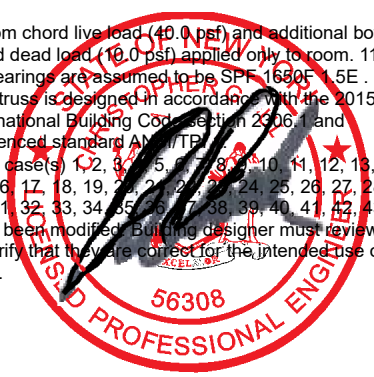
2 = 0.71, 3 = 0.65, 4 = 0.68, 5 = 0.51, 6 = 0.65, 7 = 0.15, 8 = 0.72, 10 = 0.41, 11 = 0.39, 12 = 0.47, 13 = 0.20, 14 = 0.51, 15 = 0.68, 16 = 0.31, 17 = 0.13, 18 = 0.28, 19 = 0.59 and 20 = 0.28

NOTES

1) 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc, 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x12 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc, 2x6 - 2 rows staggered at 9-00 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=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
6) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
7) ** TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps= varies (min. roof snow=39.5 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=20-0-0
8) Roof design snow load has been reduced to account for slope.
9) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
10) Provide adequate drainage to prevent water ponding.
11) Plates checked for a plus or minus 5 degree rotation about its center.
12) Ceiling dead load (10.0 psf) on member(s). 19-20, 18-19, 7-18
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
14) All bearings are assumed to be SPF 1650F 1.5E .
15) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
17) Use USP HUS28 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 6-5-12 from the left end to connect truss(es) G1B (1 ply 2x8 SPF) to front face of bottom chord.
18) Fill all nail holes where hanger is in contact with lumber.
19) 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=-99, 2-4=-99, 4-21=-112, 6-21=-232, 6-8=-219, 8-9=-99, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-985
2) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 4-21=-60, 6-21=-180, 6-8=-180, 8-9=-60, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-613
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-50, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-530
4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-79, 2-4=-79, 4-21=-89, 6-21=-329, 6-8=-319, 8-9=-79, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-809



Continued on page 2

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 2-4=4, 4-21=9, 6-21=-111, 6-8=-106, 8-9=10, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 2-4=-4, 6-8=14, 8-9=10, 2-16=10, 8-10=7
Drag: 4-5=0, 5-6=0, 2-16=0
Concentrated Loads (lb)
Vert: 14=378

6) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=10, 2-4=14, 4-21=9, 6-21=-111, 6-8=-116, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-10, 2-4=-14, 6-8=4, 2-16=-7, 8-10=-10
Drag: 4-5=0, 5-6=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=378

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-27, 2-4=-30, 4-21=-21, 6-21=-141, 6-8=-133, 8-9=-10, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=7, 2-4=10, 6-8=7, 8-9=10, 2-16=17, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=398

8) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-10, 2-4=-13, 4-21=-21, 6-21=-141, 6-8=-150, 8-9=-27, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-10, 2-4=-7, 6-8=-10, 8-9=-7, 2-16=0, 8-10=-17
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=398

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=12, 2-4=15, 4-21=15, 6-21=-105, 6-8=-105, 8-9=12, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-12, 2-4=-15, 6-8=15, 8-9=12, 2-16=-15, 8-10=15
Drag: 4-5=0, 5-6=0, 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=378

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=22, 2-4=26, 4-21=26, 6-21=-94, 6-8=-94, 8-9=22, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-22, 2-4=-26, 6-8=26, 8-9=22, 2-16=-15, 8-10=15
Drag: 4-5=0, 5-6=0, 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=378

11) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-17, 2-4=-21, 4-21=-21, 6-21=-141, 6-8=-141, 8-9=-17, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-3, 2-4=1, 6-8=-1, 8-9=3, 2-16=-8, 8-10=8
Drag: 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=398

12) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-17, 2-4=-21, 4-21=-21, 6-21=-141, 6-8=-141, 8-9=-17, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-3, 2-4=1, 6-8=-1, 8-9=3, 2-16=-8, 8-10=8
Drag: 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=398

13) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-205, 2-4=-20, 4-21=-20, 6-21=-140, 6-8=-140, 8-9=-205, 13-16=-20, 11-13=-40, 10-11=-20
Concentrated Loads (lb)
Vert: 14=-282

14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-20, 4-21=-20, 6-21=-300, 6-8=-300, 8-9=-20, 13-16=-20, 11-13=-120, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-282

15) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-20, 4-21=-20, 6-21=-300, 6-8=-300, 8-9=-20, 13-16=-20, 11-13=-120, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-282

16) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-84, 2-4=-87, 4-21=-90, 6-21=-330, 6-8=-314, 8-9=-72, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=5, 2-4=8, 6-8=5, 8-9=8, 2-16=13, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=257

17) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-72, 2-4=-74, 4-21=-90, 6-21=-330, 6-8=-327, 8-9=-84, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-8, 2-4=-5, 6-8=-8, 8-9=-5, 2-16=0, 8-10=-13
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=257

18) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-77, 2-4=-80, 4-21=-90, 6-21=-330, 6-8=-320, 8-9=-77, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=257

19) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-77, 2-4=-80, 4-21=-90, 6-21=-330, 6-8=-320, 8-9=-77, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=257

20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-55, 2-4=-58, 4-21=-50, 6-21=-290, 6-8=-285, 8-9=-42, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=5, 2-4=8, 6-8=5, 8-9=8, 2-16=13, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=257

21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-42, 2-4=-45, 4-21=-50, 6-21=-290, 6-8=-298, 8-9=-55, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-8, 2-4=-5, 6-8=-8, 8-9=-5, 2-16=0, 8-10=-13
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=257

22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-48, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=257

23) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75 (0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-48, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=257

24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 4-21=-60, 6-21=-180, 6-8=-140, 8-9=-20, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-613

25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-20, 4-21=-60, 6-21=-180, 6-8=-180, 8-9=-60, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-613

26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-260, 8-9=-20, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-530

27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-4=-20, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-50, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Concentrated Loads (lb)
Vert: 14=-530

28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)

Continued on page 3

Vert: 2-4=4, 4-21=9, 6-21=-111, 6-8=-106, 8-9=10, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 2-4=-4, 6-8=14, 8-9=10, 2-16=10, 8-10=7
Drag: 4-5=0, 5-6=0, 2-16=0
Concentrated Loads (lb)
Vert: 14=-668

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=10, 2-4=14, 4-21=9, 6-21=-111, 6-8=-116, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-10, 2-4=-14, 6-8=4, 2-16=-7, 8-10=-10
Drag: 4-5=0, 5-6=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=-668

30) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-27, 2-4=-30, 4-21=-21, 6-21=-141, 6-8=-133, 8-9=-10, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20

Horz: 1-2=7, 2-4=10, 6-8=7, 8-9=10, 2-16=17, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=-648

31) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-10, 2-4=-13, 4-21=-21, 6-21=-141, 6-8=-150, 8-9=-27, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20

Horz: 1-2=-10, 2-4=-7, 6-8=-10, 8-9=-7, 2-16=0, 8-10=-17
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=-648

32) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=12, 2-4=15, 4-21=15, 6-21=-105, 6-8=-105, 8-9=12, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-12, 2-4=-15, 6-8=15, 8-9=12, 2-16=-15, 8-10=15
Drag: 4-5=0, 5-6=0, 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=-668

33) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=22, 2-4=26, 4-21=26, 6-21=-94, 6-8=-94, 8-9=22, 11-13=-12, 19-20=-12, 17-19=-12, 17-18=-12, 7-18=-12
Horz: 1-2=-22, 2-4=-26, 6-8=26, 8-9=22, 2-16=-15, 8-10=15
Drag: 4-5=0, 5-6=0, 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=-668

34) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-17, 2-4=-21, 4-21=-21, 6-21=-141, 6-8=-141, 8-9=-17, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20

Horz: 1-2=-3, 2-4=1, 6-8=-1, 8-9=3, 2-16=-8, 8-10=8
Drag: 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=-648

35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-17, 2-4=-21, 4-21=-21, 6-21=-141, 6-8=-141, 8-9=-17, 13-16=-20, 11-13=-40, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20

Horz: 1-2=-3, 2-4=1, 6-8=-1, 8-9=3, 2-16=-8, 8-10=8
Drag: 2-16=0, 8-10=0
Concentrated Loads (lb)
Vert: 14=-648

36) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-84, 2-4=-87, 4-21=-90, 6-21=-330, 6-8=-314, 8-9=-72, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=5, 2-4=8, 6-8=5, 8-9=8, 2-16=13, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=-901

37) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-72, 2-4=-74, 4-21=-90, 6-21=-330, 6-8=-327, 8-9=-84, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-8, 2-4=-5, 6-8=-8, 8-9=-5, 2-16=0, 8-10=-13
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=-901

38) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-77, 2-4=-80, 4-21=-90, 6-21=-330, 6-8=-320, 8-9=-77, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=-901

39) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-77, 2-4=-80, 4-21=-90, 6-21=-330, 6-8=-320, 8-9=-77, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=-901

40) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-55, 2-4=-58, 4-21=-50, 6-21=-290, 6-8=-285, 8-9=-42, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=5, 2-4=8, 6-8=5, 8-9=8, 2-16=13, 8-10=0
Drag: 2-16=0
Concentrated Loads (lb)
Vert: 14=-717

41) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-42, 2-4=-45, 4-21=-50, 6-21=-290, 6-8=-298, 8-9=-55, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-8, 2-4=-5, 6-8=-8, 8-9=-5, 2-16=0, 8-10=-13
Drag: 8-10=0
Concentrated Loads (lb)
Vert: 14=-717

42) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-48, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=-717

43) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-4=-50, 4-21=-50, 6-21=-290, 6-8=-290, 8-9=-48, 13-16=-20, 11-13=-100, 10-11=-20, 19-20=-20, 17-19=-20, 17-18=-20, 7-18=-20
Horz: 1-2=-2, 2-4=0, 6-8=0, 8-9=2, 2-16=-6, 8-10=6
Concentrated Loads (lb)
Vert: 14=-717

Job	Truss	Truss Type	Qty	Ply	
B5313-1	G1B	Flat Girder	1	1	Job Reference (optional)

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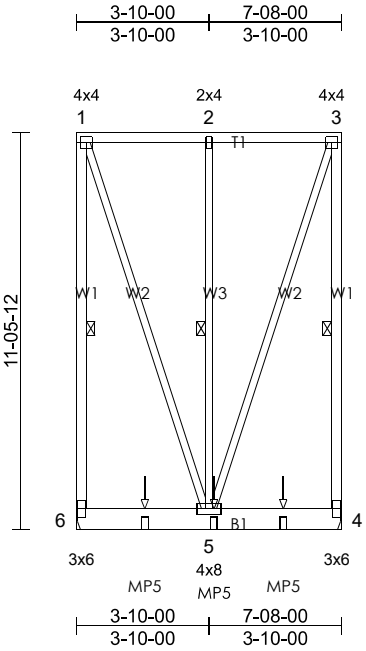

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.02	5	>999	240	MT20	197/144
Snow (Ps/Pg)	46.2/60.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.03	5	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 78 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x8 SPF 1950F 1.7E
WEBS 2x3 SPF 1650F 1.5E *Except* W1:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Sheathed 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 1-6, 3-4, 2-5

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

REACTIONS (size) 4= Mechanical, (min. 1-08), 6= Mechanical, (min. 1-08)
Max Horiz 6=-186 (LC 7)
Max Uplift 4=-378 (LC 8), 6=-368 (LC 7)
Max Grav 4=1035 (LC 35), 6=1008 (LC 36)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-798/306, 3-4=-798/306
WEBS 1-5=-308/703, 2-5=-502/119, 3-5=-308/703

JOINT STRESS INDEX

1 = 0.64, 2 = 0.25, 3 = 0.64, 4 = 0.16, 5 = 0.64 and 6 = 0.16

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=8ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
3) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps=46.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=20-0-0
5) Roof design snow load has been reduced to account for slope.
6) Unbalanced snow loads have been considered for this design.
7) Provide adequate drainage to prevent water ponding.
8) Plates checked for a plus or minus 5 degree rotation about its center.
9) All bearings are assumed to be SPF 1650F 1.5E .
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 368 lb uplift at joint 6 and 378 lb uplift at joint 4.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) Use USP MP5 (With 4-10d x 1-1/2 nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-12 from the left end to 5-11-12 to connect truss(es) J1A (1 ply 2x8 SPF) to back face of bottom chord.
14) 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=-112, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-335, 7=-335, 8=-335

Job	Truss	Truss Type	Qty	Ply	
B5313-1	J1A	Jack-Closed	3	1	Job Reference (optional)

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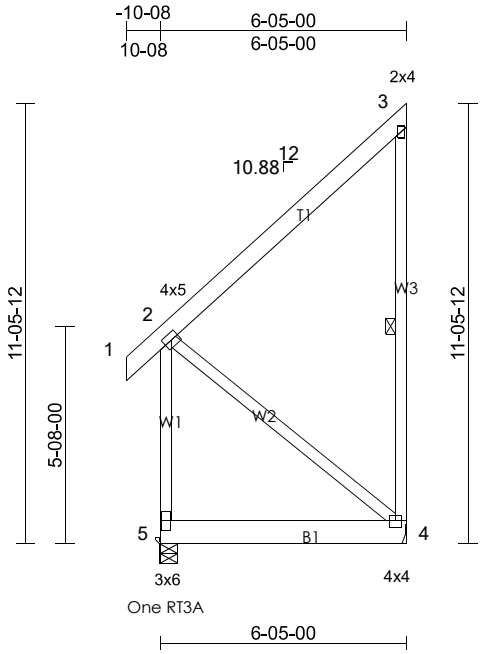

Scale = 1:60

Plate Offsets (X, Y): [4:2-00,1-12]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	39.5/60.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 59 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x8 SPF 1950F 1.7E
WEBS 2x4 SPF No.2 *Except* W3:2x4 SPF 2100F 1.8E

BRACING
TOP CHORD Sheathed 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 3-4

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

REACTIONS (size) 4= Mechanical, (min. 1-08), 5=5-08, (min. 1-08)
Max Horiz 5=228 (LC 8)
Max Uplift 4=-255 (LC 8), 5=-72 (LC 7)
Max Grav 4=406 (LC 17), 5=529 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-468/102, 3-4=-295/123

JOINT STRESS INDEX
2 = 0.26, 3 = 0.39, 4 = 0.17 and 5 = 0.09

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=6ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 3-4-7, Exterior (2) 3-4-7 to 6-3-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
3) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps=39.5 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Roof design snow load has been reduced to account for slope.
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 46.2 psf on overhangs non-concurrent with other live loads.
7) Plates checked for a plus or minus 5 degree rotation about its center.
8) All bearings are assumed to be SPF 1650F 1.5E .
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 4.
11) One RT3A USP 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.
12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
B5313-1	P1A	Piggyback	16	1	Job Reference (optional)

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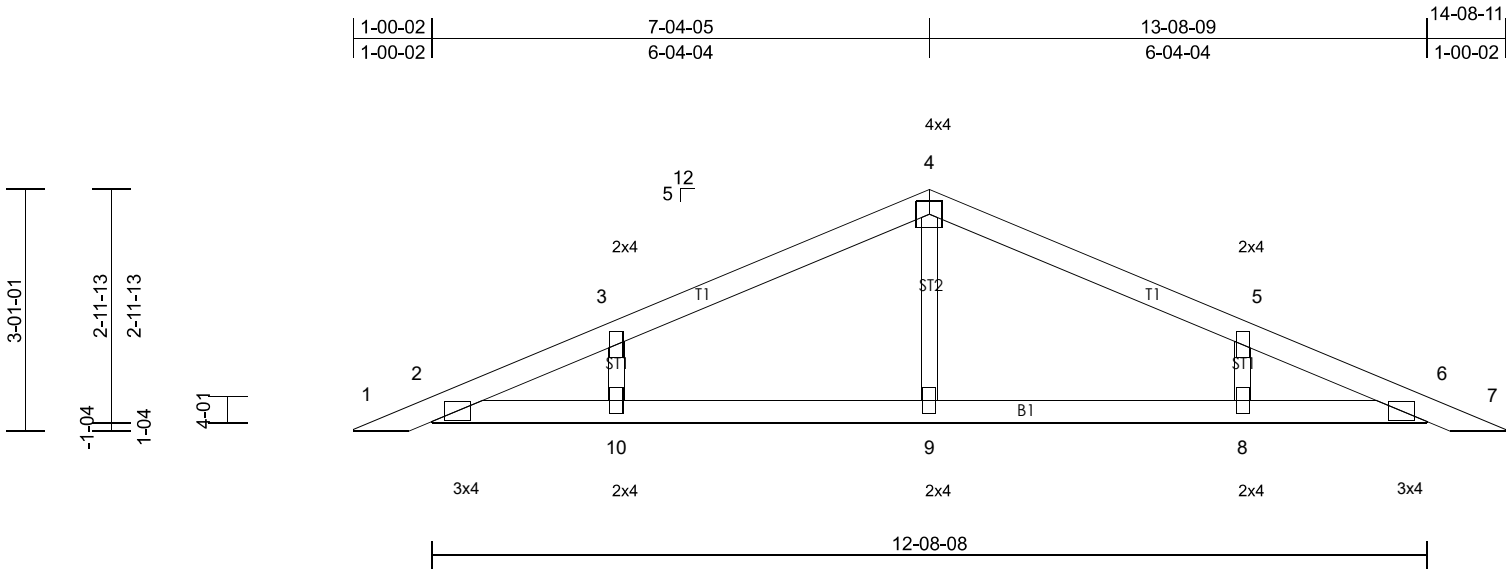

Scale = 1:29.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	46.2/60.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x3 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed 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 12-08-08.
(lb) - Max Horiz 2=-42 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 9 except 8=-123 (LC 14), 10=-123 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6 except 8=590 (LC 19), 9=421 (LC 1), 10=590 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-337/72, 3-10=-519/159, 5-8=-519/159

JOINT STRESS INDEX
2 = 0.19, 3 = 0.29, 4 = 0.20, 5 = 0.29, 6 = 0.19, 8 = 0.26, 9 = 0.17 and 10 = 0.26

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=13ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-5-7 to 3-5-9, Interior (1) 3-5-9 to 4-5-9, Exterior (2) 4-5-9 to 10-5-9, Interior (1) 10-5-9 to 11-5-9, Exterior (2) 11-5-9 to 14-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
4) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
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=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps=46.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
7) Roof design snow load has been reduced to account for slope.
8) Unbalanced snow loads have been considered for this design.
9) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
10) Plates checked for a plus or minus 5 degree rotation about its center.
11) Gable requires continuous bottom chord bearing.
12) Gable studs spaced at 4-0-0 oc.
13) All bearings are assumed to be SPF 1650F 1.5E .
14) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 9, 10, and 8. This connection is for uplift only and does not consider lateral forces.
15) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) 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	
B5313-1	P1B	Piggyback	2	1	Job Reference (optional)

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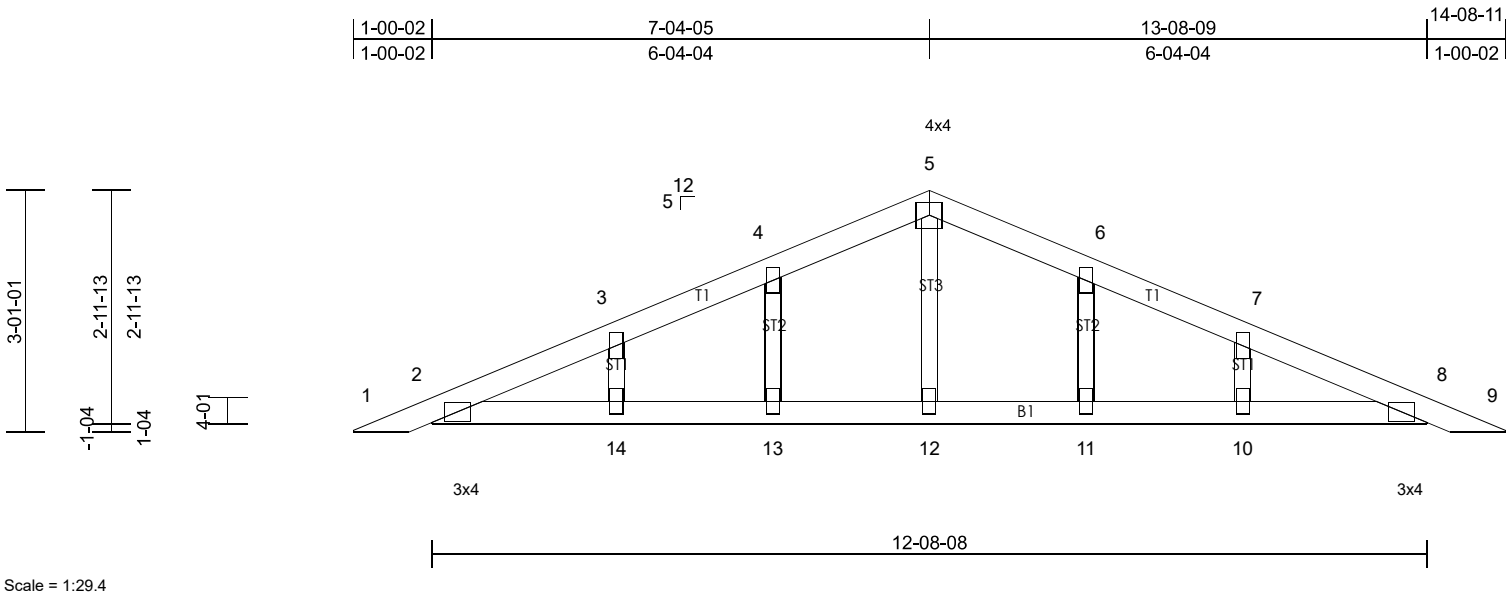

Scale = 1:29.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Ps/Pg)	46.2/60.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x3 SPF 1650F 1.5E

BRACING
TOP CHORD Sheathed 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 12-08-08.
(lb) - Max Horiz 2=-42 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11, 12, 13, 14
Max Grav All reactions 250 (lb) or less at joint (s) 2, 8, 12 except 10=326 (LC 19), 11=336 (LC 19), 13=336 (LC 18), 14=326 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-13=-299/136, 3-14=-275/135, 6-11=-299/136, 7-10=-275/135

JOINT STRESS INDEX
2 = 0.22, 3 = 0.15, 4 = 0.17, 5 = 0.10, 6 = 0.17, 7 = 0.15, 8 = 0.22, 10 = 0.14, 11 = 0.15, 12 = 0.08, 13 = 0.15 and 14 = 0.14

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; B=0ft; L=13ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-5-7 to 3-5-9, Exterior (2) 3-5-9 to 4-5-9, Corner (3) 4-5-9 to 10-5-9, Exterior (2) 10-5-9 to 11-5-9, Corner (3) 11-5-9 to 14-5-10 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) The Overhang is NOT EXPOSED to the wind on the LEFT SIDE.
4) The Overhang is NOT EXPOSED to the wind on the RIGHT SIDE.
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=1.25 Plate DOL=1.25); Pg=60.0 psf (ground snow); Ps=46.2 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
7) Roof design snow load has been reduced to account for slope.
8) Unbalanced snow loads have been considered for this design.
9) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 46.2 psf on overhangs non-concurrent with other live loads.
10) All plates are 2x4 MT20 unless otherwise indicated.
11) Plates checked for a plus or minus 5 degree rotation about its center.
12) Gable requires continuous bottom chord bearing.
13) Gable studs spaced at 2-0-0 oc.
14) All bearings are assumed to be SPF 1650F 1.5E .
15) One RT3A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 12, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
16) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
17) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard