

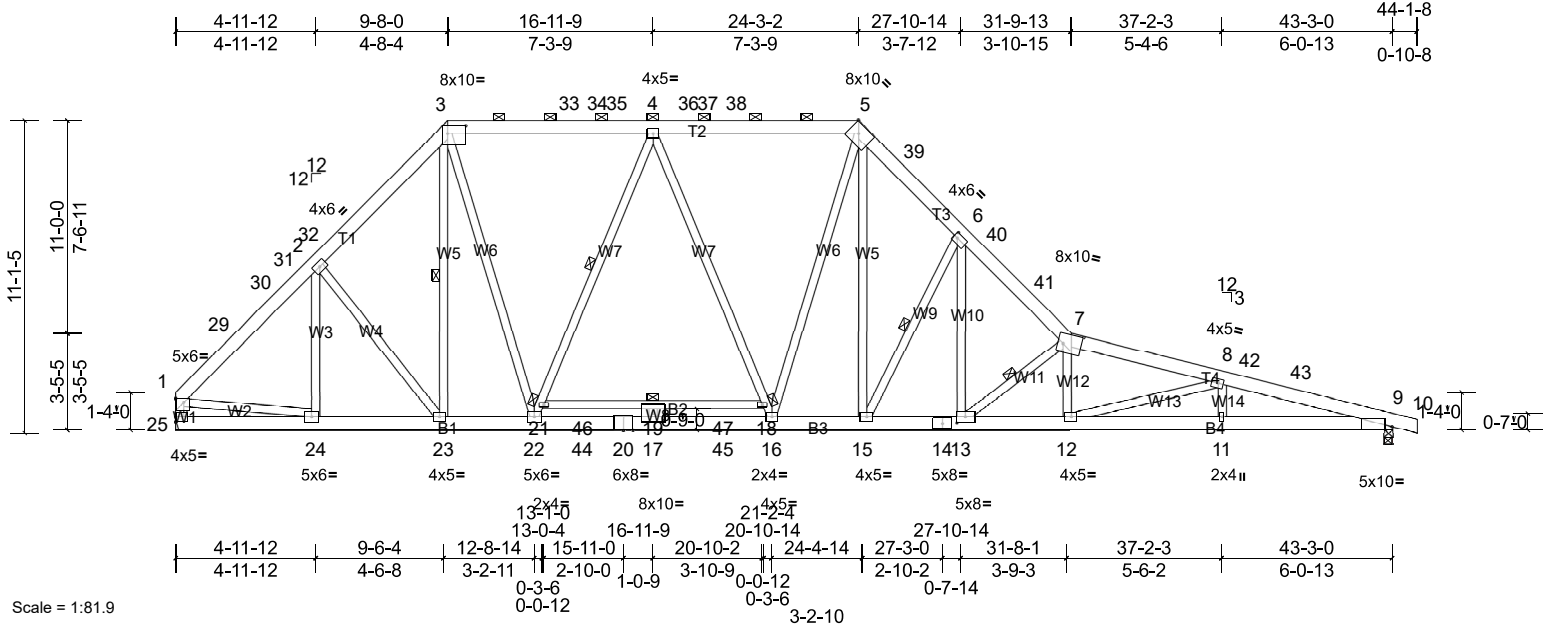
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1	Piggyback Base	9	1	Job Reference (optional)

Carter Components, Sanford, NC, user

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:34

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Scale = 1:81.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.31	12-13	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.60	12-13	>866	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.10	9	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 396 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W6,W7:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-21,18-19.
WEBS 1 Row at midpt 3-23, 4-21, 6-15, 7-13

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

REACTIONS (lb/size) 9=1918/0-3-8, (min. 0-1-13), 25=1944/ Mechanical, (min. 0-1-8)
Max Horiz 25=-270 (LC 12)
Max Uplift 9=-47 (LC 15)
Max Grav 9=2153 (LC 39), 25=2220 (LC 51)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-2753/192, 29-30=-2670/192, 30-31=-2641/212, 2-31=-2624/216, 2-32=-2742/300, 3-32=-2735/340, 3-33=-2354/270, 33-34=-2354/270, 34-35=-2354/270, 4-35=-2354/270, 4-36=-2762/294, 36-37=-2762/294, 37-38=-2762/294, 5-38=-2762/294, 5-39=-3666/416, 6-39=-3739/400, 6-40=-4912/401, 40-41=-4959/383, 7-41=-5011/381, 7-8=-6965/516, 8-42=-7407/594, 42-43=-7412/587, 9-43=-7454/587, 1-25=-2342/207
BOT CHORD 24-25=-138/386, 23-24=-38/1856, 22-23=0/1814, 22-44=0/2544, 20-44=0/2544, 17-20=0/2544, 17-45=0/2544, 16-45=0/2544, 15-16=0/2497, 14-15=-90/3498, 13-14=-90/3498, 12-13=-391/6736, 11-12=-514/7180, 9-11=-514/7180

WEBS 2-23=-286/239, 5-15=-339/1885, 7-12=-4/442, 8-12=-840/207, 1-24=0/1655, 3-22=0/1540, 5-16=0/631, 21-22=-969/127, 4-21=-909/158, 4-18=-4/459, 16-18=-32/379, 6-15=-2177/341, 6-13=-170/2541, 7-13=-4069/378

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-5-10, Interior (1) 4-5-10 to 5-4-2, Exterior(2R) 5-4-2 to 13-11-14, Interior (1) 13-11-14 to 19-11-4, Exterior(2R) 19-11-4 to 28-7-0, Interior (1) 28-7-0 to 39-9-10, Exterior(2E) 39-9-10 to 44-1-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) 200.0lb AC unit load placed on the bottom chord, 16-11-9 from left end, supported at two points, 5-0-0 apart.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
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) Refer to girder(s) for truss to truss connections.
11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

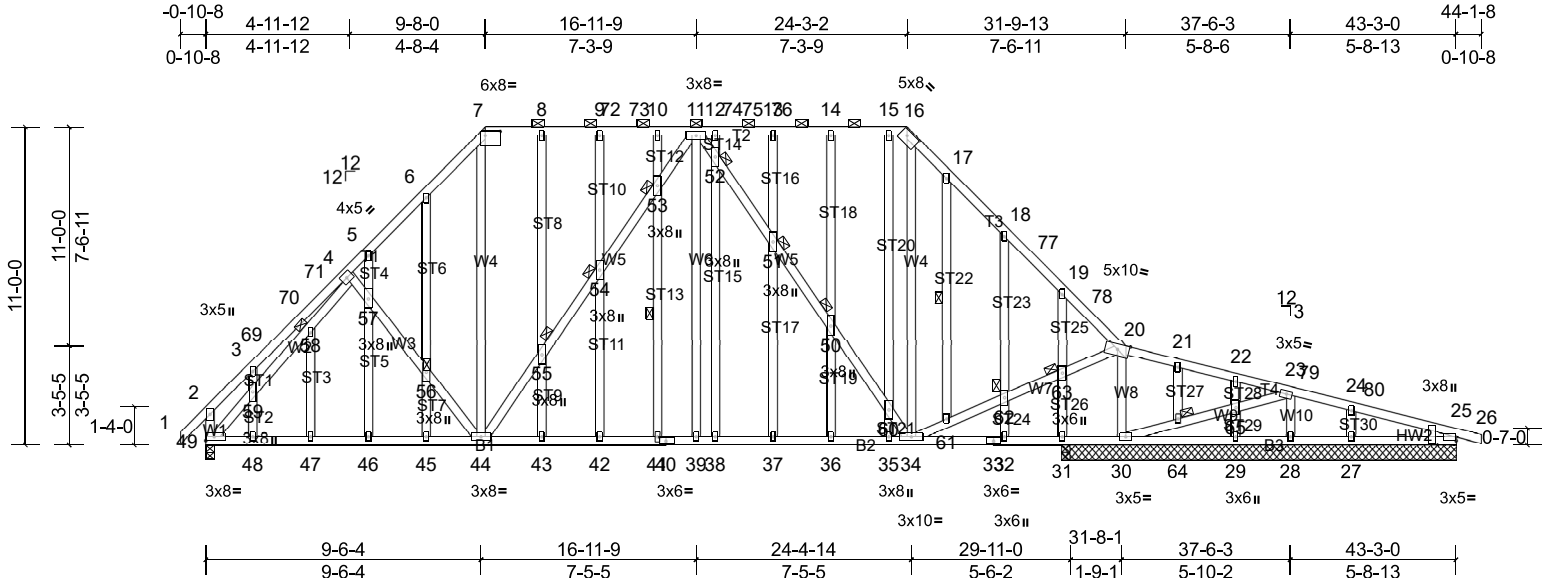
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:36

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Scale = 1:79.7

Plate Offsets (X, Y): [7:0-6-4,0-1-12], [16:0-5-4,0-2-0], [25:Edge,0-1-7], [25:0-3-2,0-8-4], [40:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.14	42-43	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.22	42-43	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.04	30	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
Weight: 454 lb FT = 20%												

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5,W6:2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE Right: 2x4 SP No.3
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-1 max.): 7-16.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 41-53, 17-61
JOINTS 1 Brace at Jt(s): 50, 51, 52, 53, 54, 55, 56, 58, 62, 63, 64

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

REACTIONS All bearings 13-7-8. except 49=0-3-8, 31=0-3-8 (lb) - Max Horiz 49=283 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 25, 27, 28, 29, 49, 66 except 30=120 (LC 11), 31=244 (LC 15)
Max Grav All reactions 250 (lb) or less at joint (s) 25, 28, 66 except 27=354 (LC 49), 29=457 (LC 49), 30=1203 (LC 42), 31=671 (LC 43), 49=1380 (LC 46)

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

TOP CHORD 2-3=-524/196, 3-69=-427/281, 69-70=-406/287, 70-71=-372/300, 4-71=-350/304, 4-5=-1316/334, 5-6=-1241/348, 6-7=-1260/461, 7-8=-896/370, 8-9=-896/370, 9-72=-896/370, 72-73=-896/370, 10-73=-896/370, 10-11=-896/370, 11-12=-717/309, 12-74=-717/309, 74-75=-717/309, 13-75=-717/309, 13-76=-717/309, 14-76=-717/309, 14-15=-717/309, 15-16=-717/309, 16-17=-938/360, 17-18=-1023/310, 18-77=-995/196, 19-77=-1018/181, 19-78=-941/129, 20-78=-980/113, 2-49=-532/239, 48-49=-89/908, 47-48=-89/908, 46-47=-89/908, 45-46=-89/908, 44-45=-89/908, 43-44=-41/1077, 42-43=-41/1077, 41-42=-41/1077, 40-41=-41/1077, 39-40=-41/1077, 38-39=-41/1077, 37-38=-41/1077, 36-37=-41/1077, 35-36=-41/1077, 34-35=-41/1077, 56-57=-304/198, 44-56=-313/213, 7-44=-226/620, 44-55=-391/151, 54-55=-400/150, 53-54=-326/143, 11-53=-393/148, 11-39=-26/319, 11-52=-738/137, 51-52=-621/126, 50-51=-668/131, 50-60=-725/137, 34-60=-621/129, 16-34=-117/274, 34-61=-52/1046, 61-62=-40/1013, 62-63=-34/1024, 20-63=-43/987, 20-30=-1098/119, 49-59=-957/30, 58-59=-1022/14, 4-58=-1084/22, 19-63=-312/167, 31-63=-462/214, 22-65=-293/77, 29-65=-378/99, 24-27=-258/88

BOT CHORD

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-5-6, Interior (1) 3-5-6 to 5-4-2, Exterior(2R) 5-4-2 to 13-11-14, Interior (1) 13-11-14 to 19-11-4, Exterior(2R) 19-11-4 to 28-7-0, Interior (1) 28-7-0 to 39-7-8, Exterior(2E) 39-7-8 to 44-1-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30, 28, 49, 25, 29, and 27. This connection is for uplift only and does not consider lateral forces.
- 13) H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 31. This connection is for uplift only and does not consider lateral forces.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)

14) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard

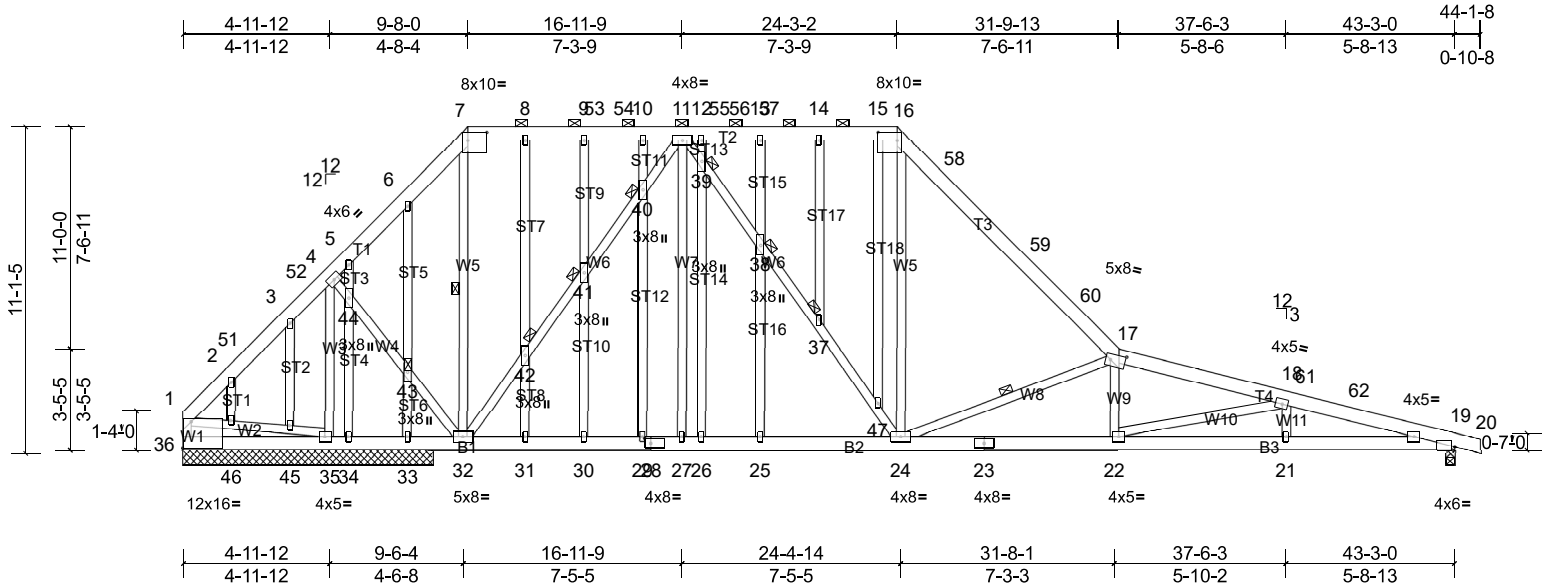
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SEA	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:78.4

Plate Offsets (X, Y): [7:0-7-12,0-3-4], [16:0-7-12,0-3-4], [17:0-6-4,0-2-8], [19:0-1-1,Edge], [28:0-2-8,0-2-0], [36:Edge,0-11-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.17	21-22	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.33	21-22	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.05	19	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 481 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W6,W7:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 35-36,34-35,33-34,32-33.
WEBS 1 Row at midpt 7-32, 17-24
JOINTS 1 Brace at Jt(s): 37, 38, 39, 40, 41, 42, 43

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

REACTIONS All bearings 8-5-8, except 19=0-3-8
(lb) - Max Horiz 36=-270 (LC 12)
Max Uplift 100 (lb) or less at joint(s)
33, 35 except 19=-142 (LC 15),
34=-558 (LC 63), 36=-1143 (LC 63)
Max Grav All reactions 250 (lb) or less at joint
(s) 34, 36 except 19=1386 (LC 47),
33=1462 (LC 1), 35=2325 (LC 22)

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

TOP CHORD 1-2=-335/1485, 2-51=-327/1565,
3-51=-325/1606, 3-52=-245/1403,
4-52=-235/1421, 4-5=-33/794, 5-6=-3/578,
6-7=-68/377, 7-8=0/331, 8-9=0/331,
9-53=0/331, 53-54=0/331, 10-54=0/331,
10-11=0/331, 11-12=-1090/400,
12-55=-1090/400, 55-56=-1090/400,
13-56=-1090/400, 13-57=-1090/400,
14-57=-1090/400, 14-15=-1090/400,
15-16=-1090/400, 16-58=-1421/368,
58-59=-1493/337, 59-60=-1495/332,
17-60=-1619/317, 17-18=-3431/615,
18-61=-4051/658, 61-62=-4074/652,
19-62=-4108/652, 1-36=-201/1169
BOT CHORD 35-36=-155/272, 34-35=-1102/325,
33-34=-1102/325, 32-33=-1102/325,
31-32=0/823, 30-31=0/823, 29-30=0/823,
28-29=0/823, 27-28=0/823, 26-27=0/823,
25-26=0/823, 24-25=0/823, 23-24=-491/3318,
22-23=-491/3318, 21-22=-577/3953,
19-21=-577/3953
WEBS 4-44=-91/1452, 43-44=-96/1443,
32-43=-101/1505, 7-32=-285/0,
32-42=-1532/268, 41-42=-1515/266,
40-41=-1502/264, 11-40=-1530/267,
11-39=-157/732, 38-39=-154/736,
37-38=-151/729, 37-47=-156/718,
24-47=-162/772, 16-24=-40/597,
17-24=-2457/556, 17-22=0/416,
18-22=-1013/211, 1-46=-1147/355,
45-46=-1134/354, 35-45=-1207/377,
4-35=-1289/289, 6-43=-465/162,
33-43=-529/169, 5-44=-496/83,
34-44=-488/90, 3-45=-328/95

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-5-10, Interior (1) 4-5-10 to 5-4-2, Exterior(2R) 5-4-2 to 13-11-14, Interior (1) 13-11-14 to 19-11-4, Exterior(2R) 19-11-4 to 28-7-0, Interior (1) 28-7-0 to 39-9-10, Exterior(2E) 39-9-10 to 44-1-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) except (jt=lb) 36=1143, 34=557.
- 13) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 35, 19, and 33. This connection is for uplift only and does not consider lateral forces.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SEA	Piggyback Base Structural Gable	1	1	Job Reference (optional)

15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	B1	Roof Special	2	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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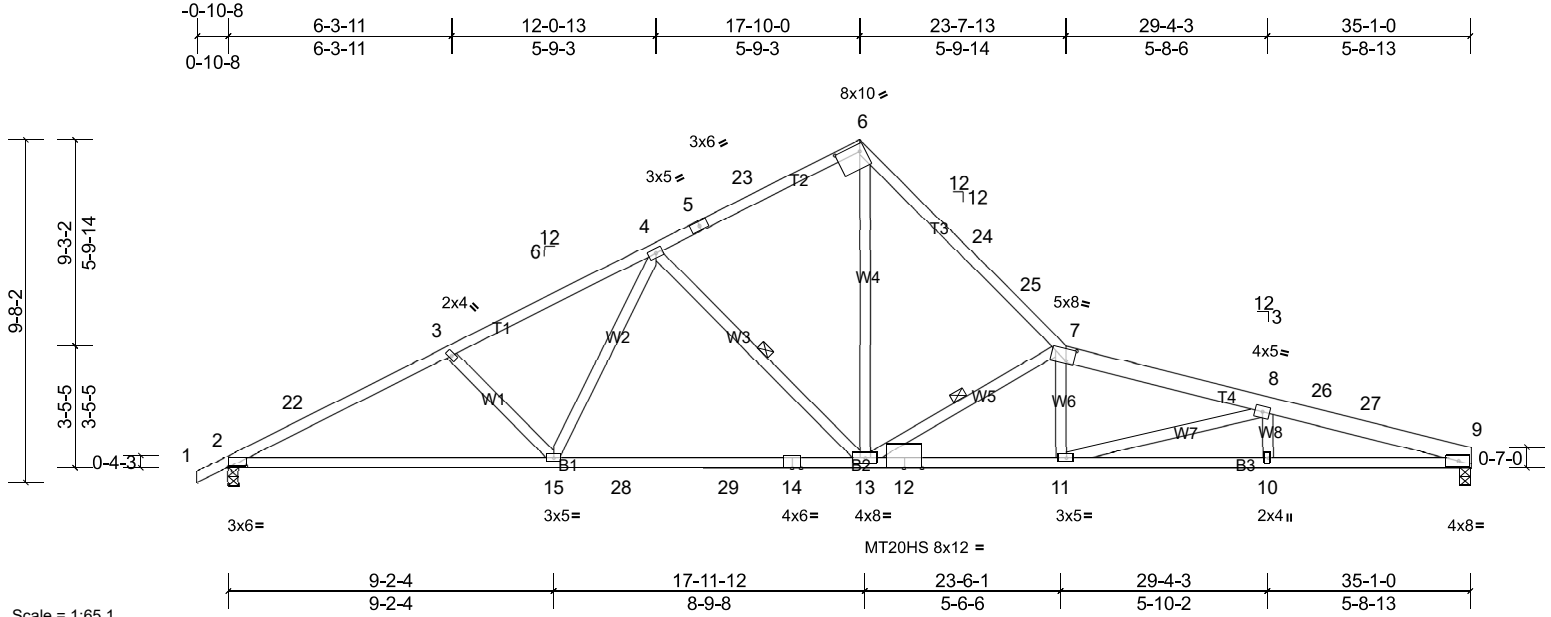


Plate Offsets (X, Y): [2:0-6-0,0-0-6], [6:0-8-2,0-2-8], [7:0-2-12,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.36	13-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.65	13-15	>645	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.14	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 188 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1, T4:2x6 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-13, 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=1456/0-3-8, (min. 0-1-14), 9=1403/0-3-8, (min. 0-1-12)
Max Horiz 2=158 (LC 14)
Max Uplift 2=-154 (LC 14), 9=-133 (LC 15)
Max Grav 2=1564 (LC 3), 9=1507 (LC 3)

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

TOP CHORD 2-22=-3181/443, 3-22=-3147/465, 3-4=-2953/446, 4-5=-1999/378, 5-23=-1937/389, 6-23=-1932/405, 6-24=-2482/441, 24-25=-2484/416, 7-25=-2584/404, 7-8=-4445/648, 8-26=-4969/675, 26-27=-4979/670, 9-27=-5024/668

BOT CHORD 2-15=-329/2802, 15-28=-203/2220, 28-29=-203/2220, 14-29=-203/2220, 13-14=-203/2220, 12-13=-539/4288, 11-12=-539/4288, 10-11=-610/4803, 9-10=-610/4803

WEBS 3-15=-389/184, 4-15=-29/731, 4-13=-818/213, 6-13=-300/2280, 7-13=-2961/528, 7-11=0/394, 8-11=-810/219

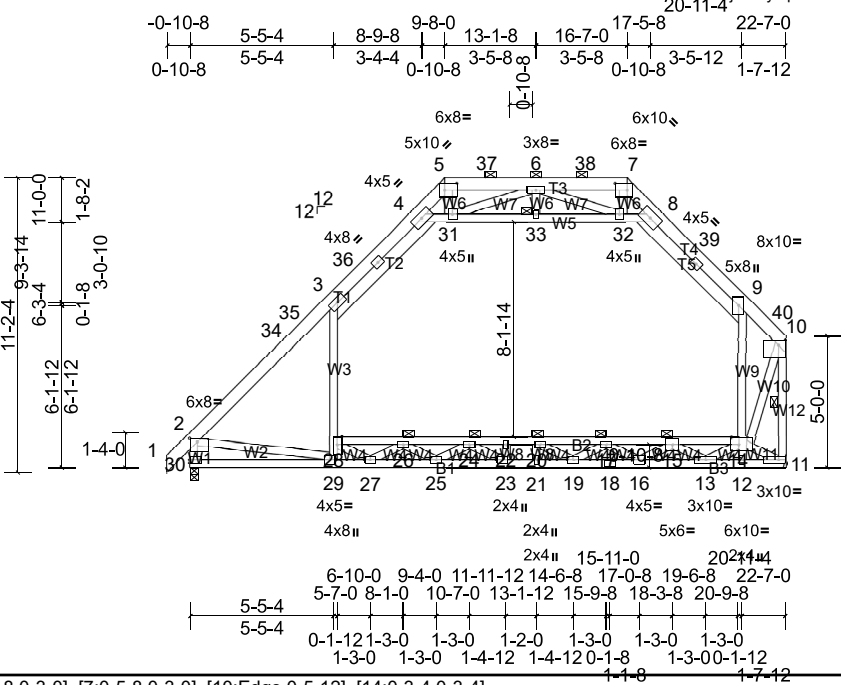
NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 14-10-0, Exterior(2R) 14-10-0 to 20-10-0, Interior (1) 20-10-0 to 32-1-0, Exterior(2E) 32-1-0 to 35-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C1	Attic	4	1	Job Reference (optional)



Scale = 1:87.5

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

loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.25	22-24	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.44	23-25	>607	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.17	14-28	>999	360		
BCDL	10.0											
Weight: 246 lb FT = 20%												

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1,T4:2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except* B1:2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
W3,W9,W2,W12,W8,W6,W7,W10:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 3-0-5 oc bracing.
WEBS 1 Row at midpt 10-11
JOINTS 1 Brace at Jt(s): 15, 26, 17, 24, 33

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

REACTIONS (lb/size) 11=1311/ Mechanical, (min. 0-1-8), 30=1256/0-3-8, (min. 0-1-14)
Max Horiz 30=251 (LC 11)
Max Grav 11=1857 (LC 48), 30=1610 (LC 48)

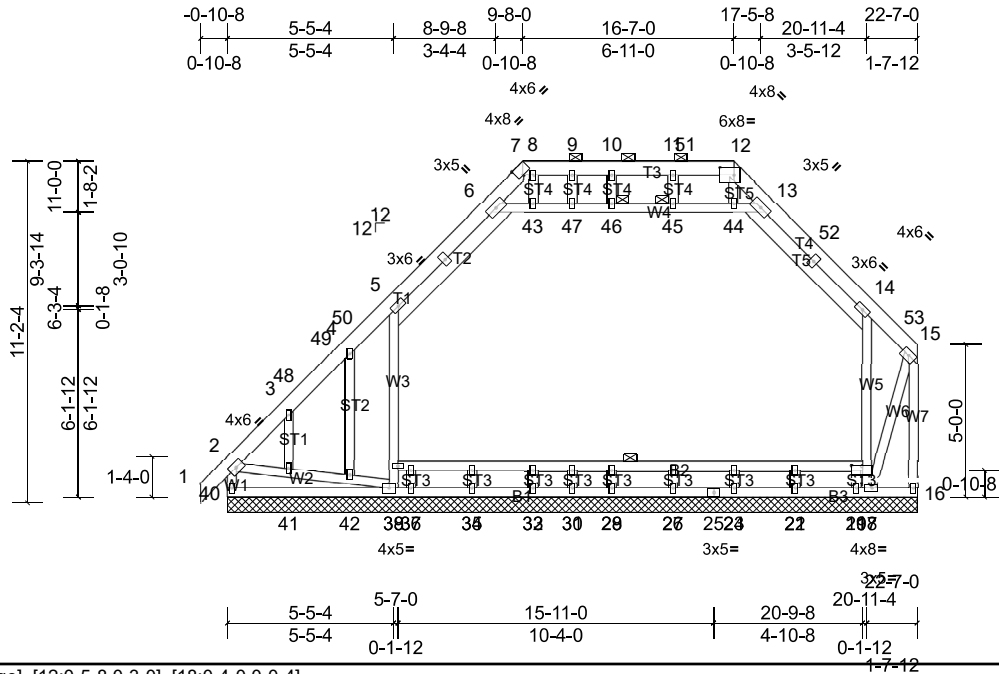
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-34=-1796/0, 34-35=-1634/0, 3-35=-1602/0, 3-36=-1171/69, 4-36=-1030/104, 4-5=-443/370, 5-37=-235/618, 6-37=-235/618, 6-38=-58/959, 7-38=-58/959, 7-8=-359/506, 8-39=-1094/110, 9-39=-1249/74, 9-40=-1621/0, 10-40=-1688/0, 2-30=-1671/0, 10-11=-3712/0
BOT CHORD 29-30=-298/582, 27-29=-49/1208, 25-27=0/2687, 23-25=0/3412, 21-23=0/3369, 19-21=0/3369, 18-19=0/2178, 16-18=0/2178, 13-16=-784/522, 12-13=-3231/17, 11-12=-3083/25, 26-28=-1025/0, 24-26=-2293/0, 22-24=-2566/0, 20-22=-2566/0, 17-20=-1951/38, 15-17=-656/919, 14-15=-247/2894

WEBS
3-28=0/787, 9-14=-137/994, 4-31=-1662/0, 31-33=-1506/55, 32-33=-1506/55, 8-32=-1938/148, 2-29=-6/716, 13-14=0/1757, 27-28=0/1168, 13-15=-1817/0, 26-27=-1049/0, 15-16=0/1236, 25-26=0/499, 16-17=-1146/0, 24-25=-386/73, 17-19=0/768, 23-24=-270/138, 19-20=-835/0, 5-31=-37/256, 7-32=-47/362, 6-31=-472/165, 6-32=-723/169, 11-14=-27/3499, 10-14=0/2535

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-5-2, Interior (1) 2-5-2 to 6-4-6, Exterior(2R) 6-4-6 to 19-1-10, Exterior(2E) 19-1-10 to 22-5-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x5 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-31, 31-33, 32-33, 8-32; Wall dead load (5.0psf) on member (s).3-28, 9-14

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 24-26, 22-24, 20-22, 17-20, 15-17, 14-15
 - Refer to girder(s) for truss to truss connections.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C1GE	Attic Supported Gable	1	1	Job Reference (optional)



Scale = 1:75.5

Plate Offsets (X, Y): [7:0-2-2,Edge], [12:0-5-8,0-3-0], [18:0-4-0,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.01	16	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 230 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W4:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 45, 46

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

REACTIONS All bearings 22-7-0.
(lb) - Max Horiz 40=320 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s)
37 except 16=400 (LC 11),
17=584 (LC 51), 39=259 (LC 14),
40=117 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s)
20, 22, 24, 27, 29, 31, 33, 35,
37 except 16=1081 (LC 41),
17=451 (LC 13), 39=717 (LC 52),
40=559 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-40=511/143, 2-3=482/203,
3-48=439/203, 48-49=430/216,
4-49=405/219, 4-50=352/216,
5-50=328/225, 5-6=578/237, 6-7=795/181,
7-8=724/189, 8-9=724/189, 9-10=724/189,
10-11=724/189, 11-51=726/189,
12-51=730/189, 12-13=821/229,
13-52=505/227, 14-52=591/212,
14-53=290/116, 15-53=314/106,
15-16=1055/388

BOT CHORD 39-40=283/308, 37-39=135/352,
35-37=135/352, 33-35=135/352,
31-33=135/352, 29-31=135/352,
27-29=135/352, 25-27=135/352,
24-25=135/352, 22-24=135/352,
20-22=135/352, 17-20=135/352
WEBS 2-41=174/340, 41-42=176/337,
39-42=180/351, 38-39=593/276,
5-38=611/281, 17-18=566/217,
14-18=614/226, 15-17=350/1014,
6-43=128/425, 43-47=128/426,
46-47=128/426, 45-46=128/426,
44-45=128/426, 13-44=127/424

- 11) Gable studs spaced at 2-0-0 oc.
12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
13) * 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.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 37 except (jt=lb) 40=117, 16=400, 39=258, 17=583.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

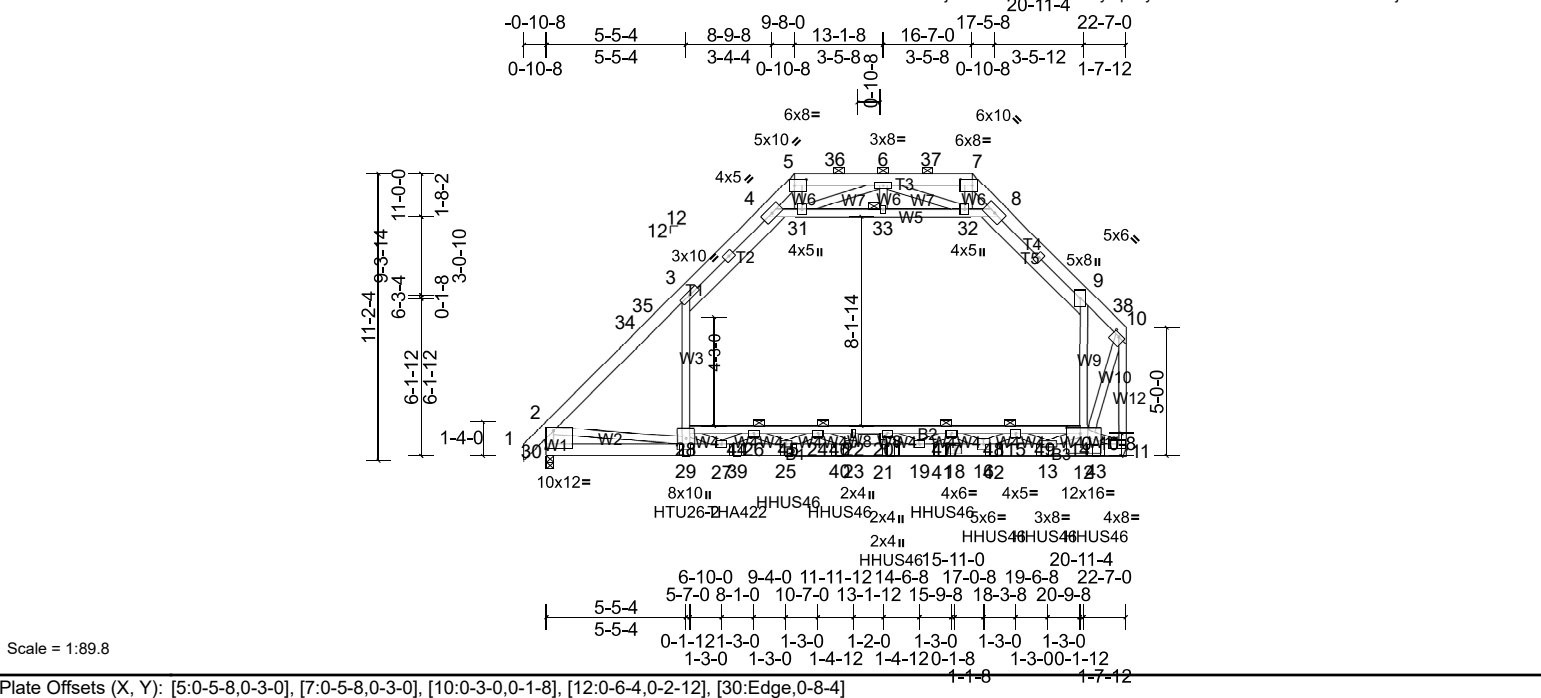
- 1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-5-2, Exterior(2N) 2-5-2 to 6-4-6, Corner(3R) 6-4-6 to 12-11-10, Exterior(2N) 12-11-10 to 13-3-6, Corner(3R) 13-3-6 to 19-1-10, Corner(3E) 19-1-10 to 22-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 2x4 MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C1GR	Attic Girder	2	4	Job Reference (optional)

Carter Components, Sanford, NC, user

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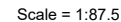
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C1GR	Attic Girder	2	4	Job Reference (optional)

23) 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=-60, 2-3=-60, 3-4=-70, 4-5=-60, 5-7=-60, 7-8=-60, 8-9=-70, 9-10=-60, 11-30=-20, 14-28=-30, 4-31=-10, 31-33=-10, 32-33=-10, 8-32=-10
- Drag: 3-28=-10, 9-14=-10
- Concentrated Loads (lb)
- Vert: 29=-1374, 13=-160, 25=-160, 21=-160, 39=-160, 40=-160, 41=-160, 42=-160, 43=-160

Carter Components, Sanford, NC, user Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:42 Page: ID:MS YtXggrIXt4eqQ1NCPUyaipG-QZG9PGJBjAhLuVndBk9cTnRxOR5d?2H0mSEUotziXt7



LUMBER		WEBS	3-29=0/787, 9-15=-124/998, 4-32=-1570/45, 32-34=-1494/30, 33-34=-1494/30, 8-33=-1930/178, 2-30=-14/696, 28-29=0/1168, 14-16=-1817/0, 27-28=-1048/0, 16-17=0/1236, 26-27=0/498, 17-18=-1146/0, 25-26=-386/74, 18-20=0/777, 24-25=-271/134, 20-21=-846/0, 7-33=-49/350, 6-32=-442/176,	11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 18-21, 16-18, 15-16
TOP CHORD	2x6 SP No.2 *Except* T1,T4:2x6 SP 2400F 2.0E			
BOT CHORD	2x4 SP No.2 *Except* B1:2x4 SP No.1			12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
WEBS	2x4 SP No.2 *Except* W3,W9,W12,W2,W8,W6,W7,W11:2x4 SP No.3			13) Attic room checked for L/360 deflection.
BRACING				LOAD CASE(S) Standard

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.

BOT CHORD 30-31=-282/624, 28-30=-78/1261,
26-28=0/2687, 24-26=0/3411, 22-24=0/3367,
20-22=0/3367, 19-20=0/2175, 17-19=0/2175,
14-17=-789/537, 13-14=-3267/17,
12-13=-3118/23, 27-29=-1026/0,
25-27=-2293/0, 23-25=-2565/0,
21-23=-2565/0, 18-21=-1949/41,
16-18=-684/923 15-16=-269/2958

WEBS 3-29=0/787, 9-15=-124/998, 4-32=-1570/45,
32-34=-1494/30, 33-34=-1494/30,
8-33=-1930/178, 2-30=-14/696,
28-29=0/1168, 14-16=-1817/0,
27-28=-1048/0, 16-17=0/1236, 26-27=0/498,
17-18=-1146/0, 25-26=-386/74, 18-20=0/777,
24-25=-271/134, 20-21=-846/0,
7-33=-49/350, 6-32=-442/176,
6-33=-699/172, 14-15=0/1757,
12-15=-36/3555, 10-15=0/2575

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-4-12, Interior (1) 2-4-12 to 5-0-8, Exterior(2R) 5-0-8 to 20-2-4, Exterior (2E) 20-2-4 to 23-5-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Lt=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 3x5 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-32, 32-34, 33-34, 8-33; Wall dead load (5.0psf) on member (s).3-29, 9-15

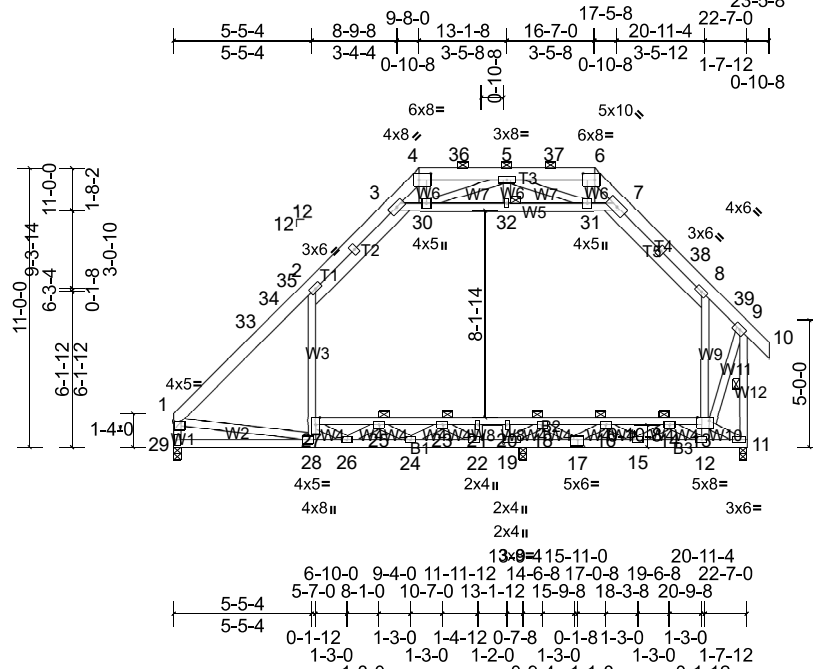
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C3	Attic	3	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:90.8

Plate Offsets (X, Y): [1:0-3-4,0-3-8], [4:0-5-8,0-3-0], [6:0-5-8,0-3-0], [13:0-5-8,Edge], [17:0-2-12,0-3-0], [19:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.17	28	>912	240	MT20 244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.32	28-29	>488	180	
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	-0.02	11	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	0.10	13-27	>999	360	
BCDL	10.0										
Weight: 246 lb FT = 20%											

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B2:2x4 SP No.1
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6. Rigid ceiling directly applied or 4-1-13 oc bracing.
BOT CHORD	
WEBS	1 Row at midpt 9-11
JOINTS	1 Brace at Jt(s): 14, 25, 16, 23, 18, 32
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

WEBS 12-13=0/444, 8-13=-469/165, 3-30=-727/228, 30-32=-721/275, 31-32=-721/275, 7-31=-1097/323, 1-28=-79/462, 26-27=-45/252, 25-26=-190/303, 24-25=-625/98, 16-17=-464/0, 23-24=-16/831, 17-18=0/442, 22-23=-1627/0, 18-19=-391/96, 21-22=0/553, 19-20=-818/0, 6-31=-55/307, 5-30=-419/194, 5-31=-651/176, 12-14=-615/0, 11-13=-542/1822, 9-13=-192/1689

- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 20-21, 18-20, 16-18, 14-16, 13-14
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

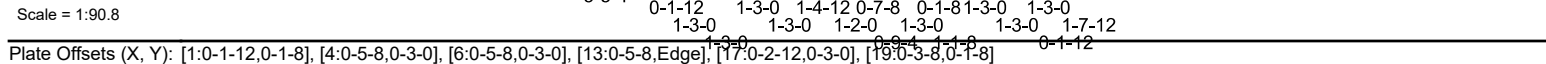
LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-5-0, Interior (1) 3-5-0 to 5-0-8, Exterior(2R) 5-0-8 to 20-2-4, Exterior(2E) 20-2-4 to 23-5-8 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 3x5 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-30, 30-32, 31-32, 7-31; Wall dead load (5.0psf) on member (s).2-27, 8-13

REACTIONS (lb/size)	11=1015/0-3-8, (min. 0-1-8), 19=617/0-3-8, (min. 0-1-10), 29=935/0-3-8, (min. 0-1-8)
Max Horiz	29=310 (LC 13)
Max Grav	11=1170 (LC 48), 19=1399 (LC 21), 29=1038 (LC 42)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-33=-1112/3, 33-34=-945/9, 34-35=-942/23, 2-35=-905/26, 2-3=-836/189, 3-4=-562/145, 4-36=-417/182, 5-36=-417/182, 5-37=-214/521, 6-37=-214/521, 6-7=-480/245, 7-38=-793/179, 8-38=-917/148, 8-39=-708/145, 9-39=-775/134, 1-29=-1015/26, 9-11=-2083/127
BOT CHORD	28-29=-290/474, 26-28=-151/1015, 24-26=0/965, 22-24=-336/292, 19-22=-1710/231, 17-19=-1578/360, 15-17=-1068/529, 12-15=-1248/475, 11-12=-1592/445, 25-27=-400/0, 23-25=-245/389, 21-23=-198/2351, 20-21=-198/2351, 18-20=-198/2351, 16-18=-434/1954, 14-16=-572/1744, 13-14=-559/2360

Carter Components, Sanford, NC, user Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:44 Page: ID:FDD2vjAvz1IZG BGDx8aKvaipC-MWOvqxLSrnX28ox?I9B4ZCWlqEI3T bhDmjbszlXt5



LUMBER		WEBS	27-28=-265/128, 2-27=-204/375, 12-13=0/677, 8-13=-706/245, 3-30=-1056/255, 30-32=-1089/406, 31-32=-1089/406, 7-31=-1662/487, 1-28=-118/694, 21-22=0/770, 19-20=-1162/0, 4-30=-85/299, 6-31=-83/445, 5-30=-624/293, 5-31=-956/265, 9-13=-286/2342, 26-27=-35/403, 14-15=-25/381, 25-26=-282/425, 15-16=-251/126, 24-25=-904/144, 16-17=-679/0, 23-24=-20/1227, 17-18=0/626, 22-23=-2383/0, 18-19=-583/151, 12-14=-942/0, 11-13=-799/2695
TOP CHORD	2x6 SP No.2		
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.2		
BRACING			
TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).		
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.		
JOINTS			
	1 Brace at Jt(s): 4, 6, 9, 1, 30, 31, 32, 14, 25, 16, 23, 18		
REACTIONS (lb/size)			
	11=1535/0-3-8, (min. 0-1-8), 19=905/0-3-8, (min. 0-1-8), 29=1411/0-3-8, (min. 0-1-8)		
	Max Horiz 29=466 (LC 11)		
	Max Grav 11=1773 (LC 44), 19=2074 (LC 19), 29=1558 (LC 38)		
FORCES			
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-33=-1569/0, 33-34=-1324/0, 2-34=-1290/0, 2-3=-1208/202, 3-4=-842/218, 4-35=-626/272, 5-35=-626/272, 5-36=-312/793, 6-36=-312/793, 6-7=-714/370, 7-8=-1317/231, 8-37=-1036/191, 9-37=-1137/174, 1-29=-1416/0, 9-11=-2942/185 28-29=-435/713, 26-28=-227/1442, 24-26=0/1411, 22-24=-419/423, 19-22=-2394/326, 17-19=-2203/524, 15-17=-1529/780, 12-15=-1834/703, 11-12=-2354/656, 25-27=-641/0, 23-25=-357/504, 21-23=-277/3359, 20-21=-277/3359, 18-20=-277/3359, 16-18=-635/2808, 14-16=-847/2536, 13-14=-826/3512		
BOT CHORD			
		NOTES	
		1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.	
		2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	
		3) Unbalanced roof live loads have been considered for this design.	
		4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10	
		6) Unbalanced snow loads have been considered for this	
			10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
			11) * 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.
			12) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-30, 30-32, 31-32, 7-31; Wall dead load (5.0psf) on member (s).2-27, 8-13
			13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 20-21, 18-20, 16-18, 14-16, 13-14
			14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
			15) Attic room checked for L/360 deflection.
		LOAD CASE(S)	Standard

- ## WEBS
- 27-28=-265/128, 12-27=-204/375,
12-13=0/677, 8-13=-706/245,
3-30=-1056/255, 30-32=-1089/406,
31-32=-1089/406, 7-31=-1662/487,
1-28=-118/694, 21-22=0/770, 19-20=-1162/0,
4-30=-85/299, 6-31=-83/445, 5-30=-624/293,
5-31=-956/265, 9-13=-286/2342,
26-27=-35/403, 14-15=-25/381,
25-26=-282/425, 15-16=-251/126,
24-25=-904/144, 16-17=-679/0,
23-24=-20/1227, 17-18=0/626,
22-23=-2383/0, 18-19=-583/151,
12-14=-942/0, 11-13=-799/2695
- ## NOTES
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 6) Unbalanced snow loads have been considered for this design.
 - 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 8) Provide adequate drainage to prevent water ponding.
 - 9) All plates are 3x5 MT20 unless otherwise indicated.

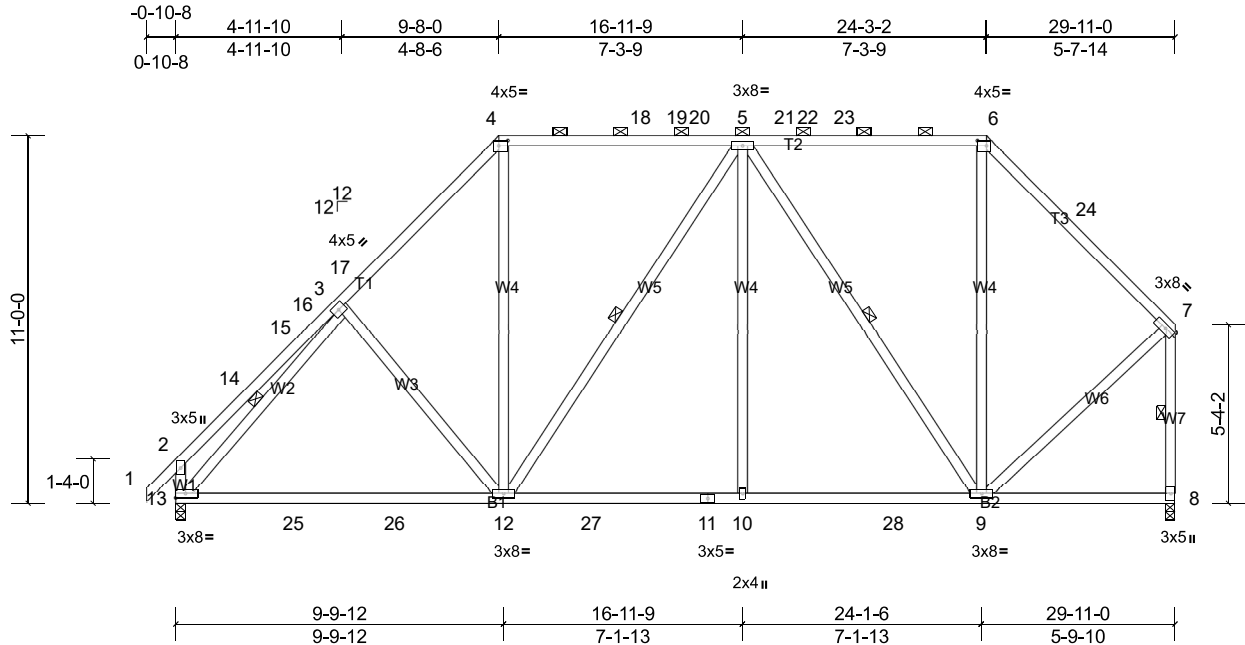
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	D1	Piggyback Base	3	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:69

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.29	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.49	12-13	>724	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 226 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-9, 3-13, 7-8

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

REACTIONS

(lb/size) 8=1184/0-3-8, (min. 0-1-11), 13=1247/0-3-8, (min. 0-1-11)
Max Horiz 13=329 (LC 13)
Max Uplift 8=-104 (LC 15), 13=-133 (LC 14)
Max Grav 8=1412 (LC 46), 13=1436 (LC 5)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-500/143, 14-15=-417/145, 15-16=-372/162, 3-16=-371/166, 3-17=-1529/203, 4-17=-1439/241, 4-18=-1081/237, 18-19=-1081/237, 19-20=-1081/237, 5-20=-1081/237, 5-21=-768/225, 21-22=-768/225, 22-23=-768/225, 6-23=-768/225, 6-24=-1024/213, 7-24=-1085/191, 2-13=-482/174, 7-8=-1504/134

BOT CHORD

13-25=-277/1153, 25-26=-277/1153, 12-26=-277/1153, 12-27=-201/1308, 11-27=-201/1308, 10-11=-201/1308, 10-28=-201/1308, 9-28=-201/1308

WEBS

4-12=-38/675, 5-12=-345/172, 5-10=0/388, 5-9=-893/170, 6-9=-38/368, 3-13=-1190/83, 7-9=-100/1002

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-5-1, Exterior(2R) 5-5-1 to 13-10-15, Interior (1) 13-10-15 to 20-0-3, Exterior(2R) 20-0-3 to 26-9-4, Exterior(2E) 26-9-4 to 29-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 8. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	D1SE	Piggyback Base	1	1	Job Reference (optional)

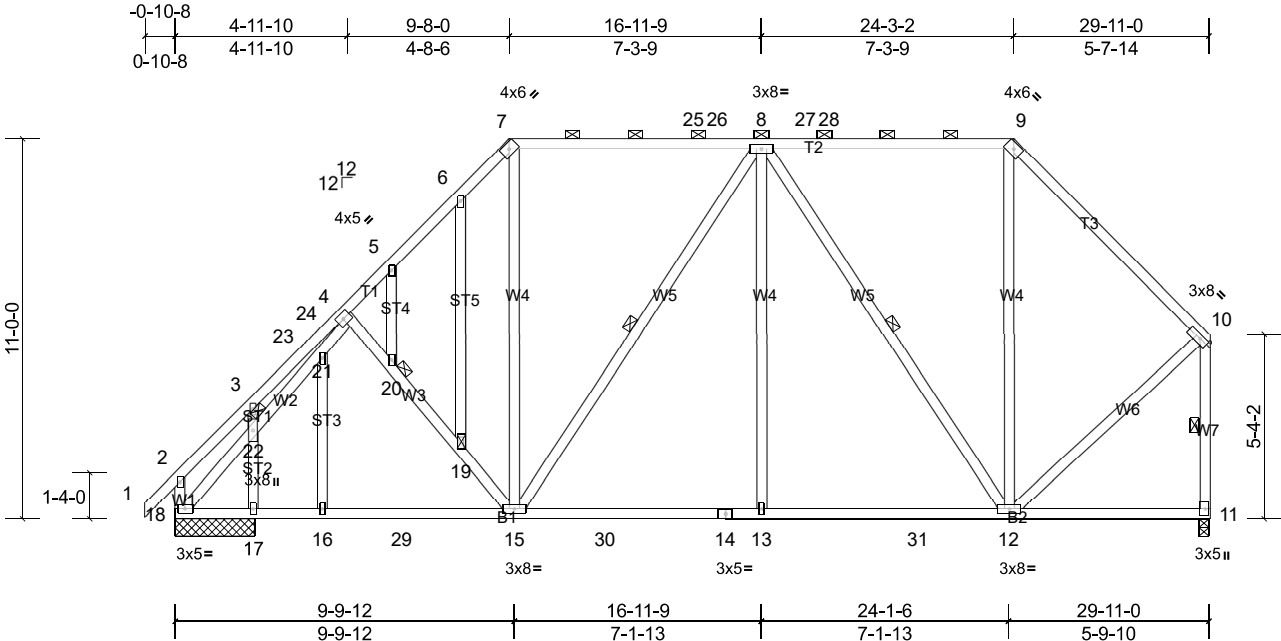


Plate Offsets (X, Y): [10:0-3-7,Edge]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.10	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.16	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 252 lb		FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 *Except* W1,W7,W3,W6:2x4 SP No.3

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-12 max.): 7-9.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 10-11, 8-15, 4-18, 8-12

JOINTS 1 Brace at Jt(s): 19, 20

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

REACTIONS (lb/size) 11=1151/0-3-8, (min. 0-1-10), 17=463/2-3-8, (min. 0-1-12), 18=818/2-3-8, (min. 0-1-12)

Max Horiz 18=329 (LC 13)

Max Uplift 11=-103 (LC 15), 17=-92 (LC 14), 18=48 (LC 14)

Max Grav 11=1373 (LC 46), 17=547 (LC 5), 18=933 (LC 47)

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

TOP CHORD 3-23=-257/148, 4-5=-1500/170, 5-6=-1517/209, 6-7=-1463/237, 7-25=-1116/230, 25-26=-1116/230, 8-26=-1116/230, 8-27=-846/204, 27-28=-846/204, 9-28=-846/204, 9-10=-1157/196, 10-11=-1599/125

BOT CHORD 17-18=-251/1075, 16-17=-251/1075, 16-29=-251/1075, 15-29=-251/1075, 15-30=-197/1344, 14-30=-197/1344, 13-14=-197/1344, 13-31=-197/1344, 12-31=-197/1344

WEBS 8-13=0/427, 7-15=-55/610, 8-15=-427/154, 9-12=-34/348, 18-22=-1168/10, 21-22=-1376/0, 4-21=-1337/32, 10-12=-100/1029, 8-12=-914/164, 17-22=-481/103

NOTES

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-3-2, Interior (1) 2-3-2 to 5-5-1, Exterior(2R) 5-5-1 to 13-10-15, Interior (1) 13-10-15 to 20-0-3, Exterior(2R) 20-0-3 to 26-9-4, Exterior(2E) 26-9-4 to 29-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) All plates are 2x4 MT20 unless otherwise indicated.

9) Gable studs spaced at 2-0-0 oc.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) * 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.

12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11, 18, and 17. This connection is for uplift only and does not consider lateral forces.

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	E1	Piggyback Base	2	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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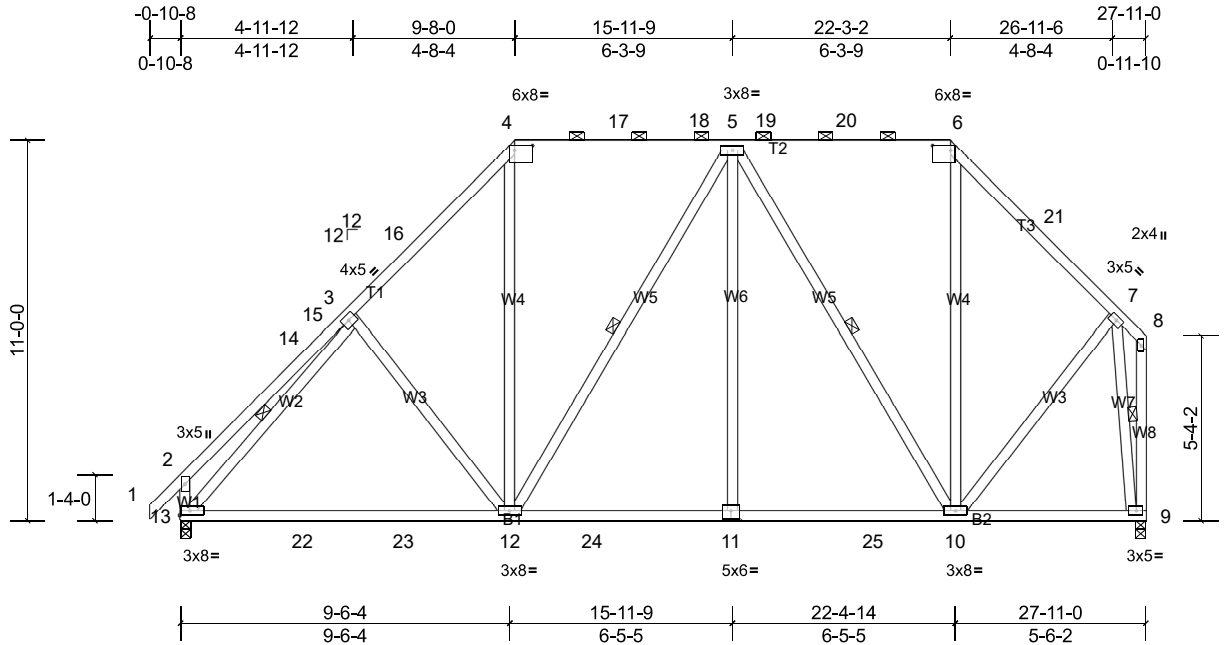


Plate Offsets (X, Y): [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [11:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.30	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.50	12-13	>666	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 226 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W4,W5,W6:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2-2-0 oc bracing: 12-13.
1 Row at midpt 5-12, 5-10, 3-13, 7-9

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

REACTIONS (lb/size) 9=1104/0-3-8, (min. 0-1-9), 13=1167/0-3-8, (min. 0-1-10)
Max Horiz 13=329 (LC 13)
Max Uplift 9=-26 (LC 15), 13=-67 (LC 14)
Max Grav 9=1329 (LC 46), 13=1356 (LC 47)

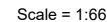
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-506/137, 14-15=-376/155, 3-15=-376/159, 3-16=-1482/215, 4-16=-1433/241, 4-17=-1036/230, 17-18=-1036/230, 5-18=-1036/230, 5-19=-736/221, 19-20=-736/221, 6-20=-736/221, 6-21=-996/230, 7-21=-1043/209, 2-13=-489/167
BOT CHORD 13-22=-264/1138, 22-23=-264/1138, 12-23=-264/1138, 12-24=-180/1199, 11-24=-180/1199, 11-25=-180/1198, 10-25=-180/1198, 9-10=-62/271
WEBS 3-12=-257/243, 4-12=-48/658, 5-12=-314/165, 5-11=0/337, 5-10=-857/156, 6-10=-41/342, 7-10=-95/814, 3-13=-1143/65, 7-9=-1692/255

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-8-0, Exterior(2R) 6-8-0 to 12-8-0, Interior (1) 12-8-0 to 19-3-2, Exterior(2R) 19-3-2 to 24-9-4, Exterior(2E) 24-9-4 to 27-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Carter Components, Sanford, NC, user Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:46 Page: ID:PGHVIP1QKSsODV7EQkQmmJyaiq5-luVgFdMiNPBmN65OQaDYedbiw2bnx1h h4CixezIXt3

[illegible]

BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-15.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	11-25, 10-26, 9-27, 8-28, 6-29, 12-24, 13-23, 14-22, 16-21

REACTIONS All bearings 27-11-0.

(lb) - Max Horiz 33=329 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s)
19, 21, 22, 23, 24, 25, 26, 27, 28,
29, 31 except 20=109 (LC 15),
30=117 (LC 14), 32=287 (LC 11),
33=306 (LC 10)

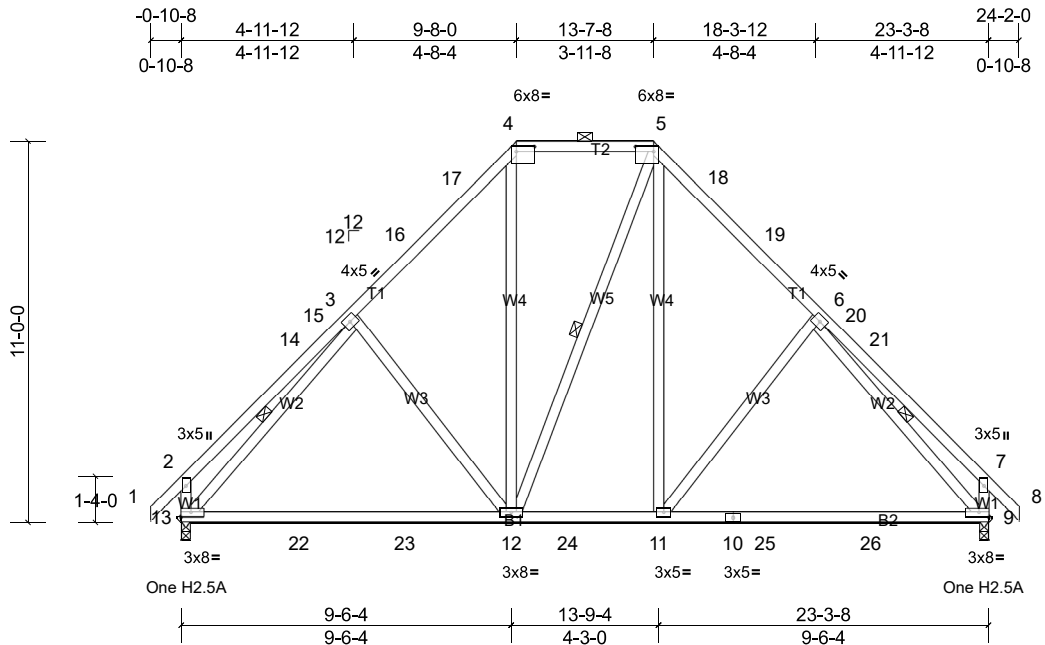
Max Grav All reactions 250 (lb) or less at joint
(s) 19, 21, 22, 23, 24, 25, 26, 27,
28, 29, 30, 31 except 20=277 (LC
53), 32=336 (LC 12), 33=440 (LC
13)

TOP CHORD 2-33=-332/245, 2-3=-406/341,
3-34=-286/233, 4-34=-260/247,
4-35=-273/240, 5-35=-268/254,
5-6=-242/325, 6-7=-204/395, 7-8=-133/314,
8-9=-133/314, 9-10=-133/314,
10-36=-133/314, 11-36=-133/314,
11-37=-133/314, 12-37=-133/314,
12-13=-133/314, 13-14=-133/314,
14-15=-133/314, 15-16=-186/396,
16-38=-137/321 17-38=-163/316

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-9, Exterior(2N) 1-11-9 to 6-8-0, Corner(3R) 6-8-0 to 12-8-0, Exterior(2N) 12-8-0 to 19-3-2, Corner(3R) 19-3-2 to 24-9-4, Corner (3E) 24-9-4 to 27-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 33, 19, 25, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	F1	Piggyback Base	5	1	Job Reference (optional)



Scale = 1:66.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.33	9-11	>844	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.55	9-11	>505	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
Weight: 178 lb FT = 20%												

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12, 3-13, 6-9

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

REACTIONS	(lb/size)	9=981/0-3-0, (min. 0-1-8), 13=981/0-3-0, (min. 0-1-8) Max Horiz 13=288 (LC 12) Max Uplift 9=94 (LC 10), 13=94 (LC 11) Max Grav 9=1235 (LC 47), 13=1232 (LC 47)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-14=-435/215, 14-15=-294/233, 3-15=-293/237, 3-16=-1172/414, 16-17=-1020/422, 4-17=-974/440, 4-5=-744/368, 5-18=-977/441, 18-19=-1022/423, 6-19=-1175/415, 6-20=-276/282, 20-21=-277/278, 7-21=-402/260, 2-13=-436/223, 7-9=-413/255	
BOT CHORD	13-22=-248/822, 22-23=-248/822, 12-23=-248/822, 12-24=-128/683, 11-24=-128/683, 10-11=-96/821, 10-25=-96/821, 25-26=-96/821, 9-26=-96/821	
WEBS	3-12=-287/243, 4-12=-207/431, 5-11=-210/438, 6-11=-284/243, 3-13=-958/145, 6-9=-957/103	

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-8-0, Exterior(2R) 6-8-0 to 16-7-8, Interior (1) 16-7-8 to 21-2-0, Exterior(2E) 21-2-0 to 24-2-0 zone; cantilever left and right exposed ; end vertical 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=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) One H2.5A Simpson Strong-Tie 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

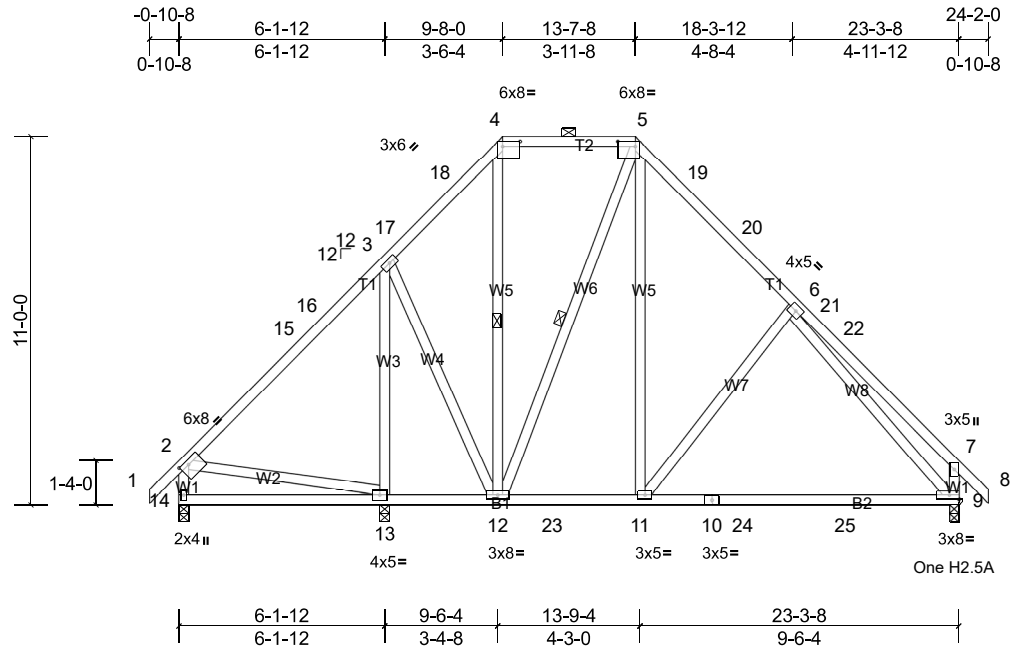
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	F1A	Piggyback Base	3	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:68.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.30	9-11	>689	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.49	9-11	>414	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.01	9	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 187 lb FT = 20%											

LUMBER

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

BRACING

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

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

REACTIONS

(lb/size) 9=783/0-3-0, (min. 0-1-8), 13=759/0-3-8, (min. 0-1-8), 14=420/0-3-8, (min. 0-1-8)
Max Horiz 14=-288 (LC 12)
Max Uplift 9=-88 (LC 10), 13=-94 (LC 14), 14=-19 (LC 15)
Max Grav 9=965 (LC 47), 13=999 (LC 47), 14=460 (LC 41)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-352/87, 3-17=-615/290, 17-18=-586/292, 4-18=-482/317, 4-5=-354/257, 5-19=-619/346, 19-20=-665/328, 6-20=-817/320, 6-21=-247/280, 21-22=-247/276, 7-22=-373/258, 2-14=-405/117, 7-9=-391/253
BOT CHORD 13-14=-296/401, 12-13=-157/252, 12-23=-95/472, 11-23=-95/472, 10-11=-48/592, 10-24=-48/592, 24-25=-48/592, 9-25=-48/592
WEBS 3-13=-876/261, 3-12=-99/353, 5-12=-415/132, 5-11=-247/540, 6-11=-319/244, 2-13=-200/259, 6-9=-664/59

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-8-0, Exterior(2R) 6-8-0 to 16-7-8, Interior (1) 16-7-8 to 21-2-0, Exterior(2E) 21-2-0 to 24-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 13, and 9. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

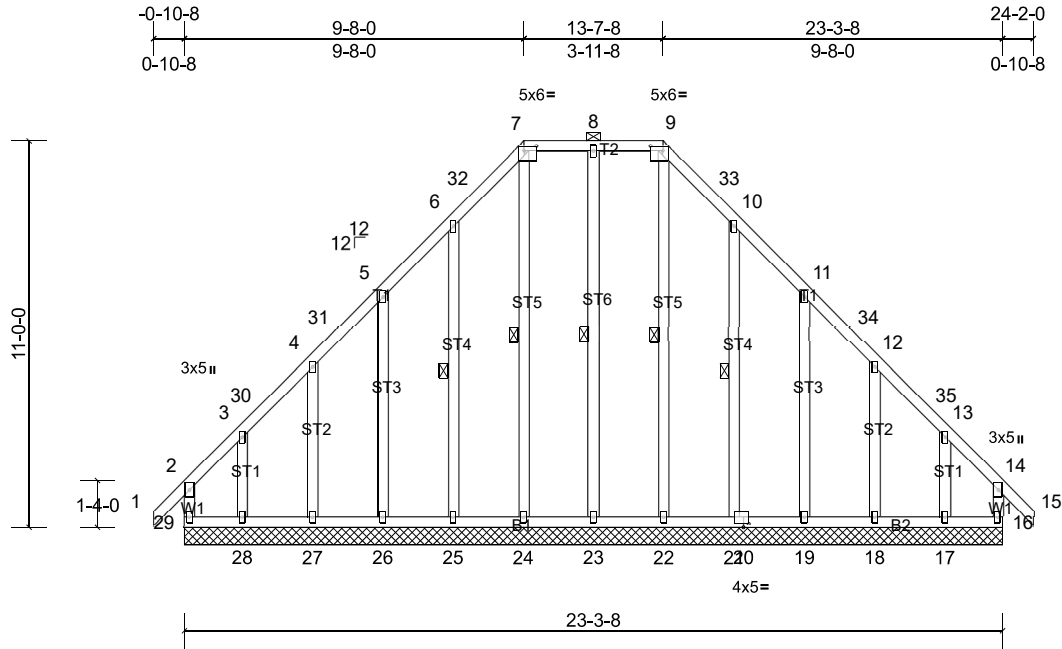
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	F1GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:65.6

Plate Offsets (X, Y): [7:0-4-4,0-1-12], [9:0-4-4,0-1-12], [20:0-1-12,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	16	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 199 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	8-23, 7-24, 6-25, 9-22, 10-21

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

REACTIONS

All bearings 23-3-8.	
(lb) - Max Horiz	29=287 (LC 13)
Max Uplift	All uplift 100 (lb) or less at joint(s) 18, 21, 23, 25, 27 except 16=-174 (LC 11), 17=-199 (LC 15), 19=-107 (LC 15), 26=-107 (LC 14), 28=-209 (LC 14), 29=-210 (LC 10)
Max Grav	All reactions 250 (lb) or less at joint (s) 16, 17, 18, 19, 22, 24, 26, 27 except 21=255 (LC 41), 23=264 (LC 40), 25=255 (LC 41), 28=267 (LC 12), 29=270 (LC 53)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	5-6=-161/337, 6-32=-212/425, 7-32=-197/437, 7-8=-159/340, 8-9=-159/340, 9-33=-197/437, 10-33=-212/425, 10-11=-161/337

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-8-0, Corner(3R) 6-8-0 to 16-7-8, Exterior(2N) 16-7-8 to 21-2-0, Corner(3E) 21-2-0 to 24-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 25, 27, 21, 18 except (jt=lb) 29=210, 16=174, 26=107, 28=208, 19=107, 17=199.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

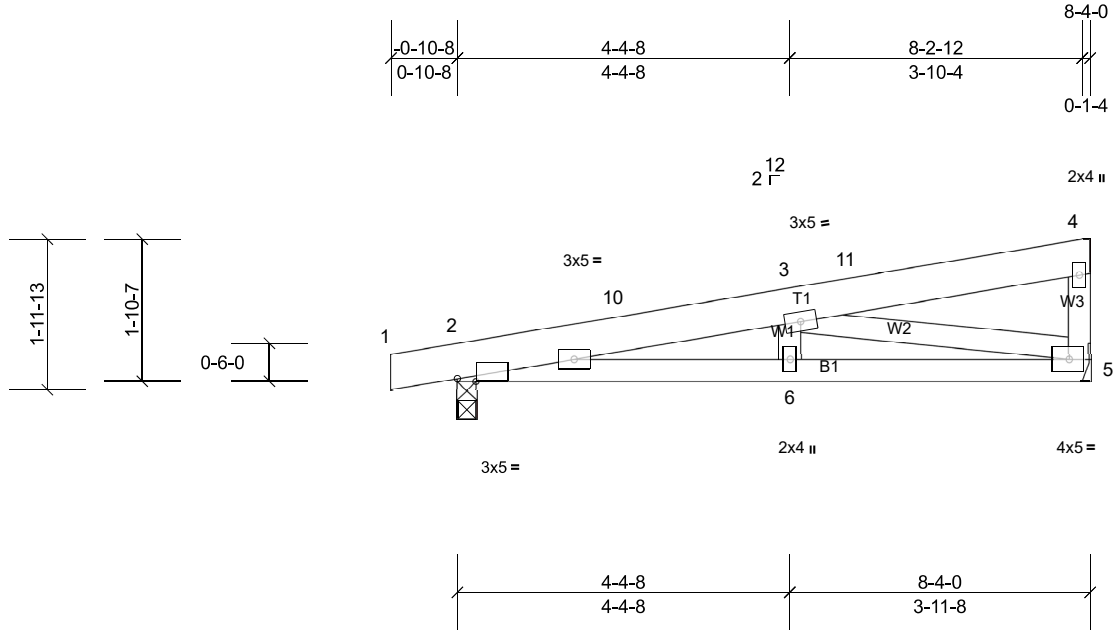
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP01	Half Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:30.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.03	6-9	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	6-9	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 5.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

REACTIONS (lb/size) 2=383/0-3-0, (min. 0-1-8), 5=325/
Mechanical, (min. 0-1-8)
Max Horiz 2=56 (LC 13)
Max Uplift 2=-84 (LC 10), 5=-54 (LC 14)
Max Grav 2=486 (LC 21), 5=408 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-10=-981/358, 3-10=-972/363
BOT CHORD 2-6=-360/959, 5-6=-360/959
WEBS 3-5=-982/397

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-2-4, Exterior(2E) 5-2-4 to 8-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.

LOAD CASE(S) Standard

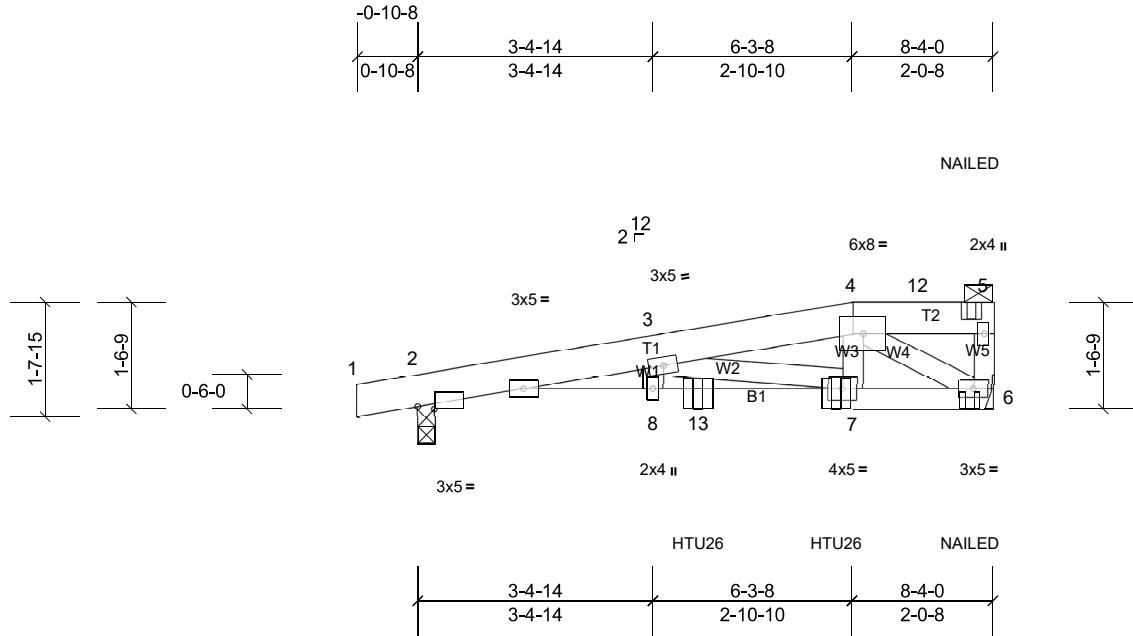
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP02	Half Hip Girder	1	2	Job Reference (optional)

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Scale = 1:33.4

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.03	7-8	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.06	7-8	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.01	6	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 87 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=700/0-3-0, (min. 0-1-8), 6=1050/
Mechanical, (min. 0-1-8)
Max Horiz 2=43 (LC 11)
Max Uplift 2=-128 (LC 8), 6=-113 (LC 8)
Max Grav 2=770 (LC 34), 6=1058 (LC 34)

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

TOP CHORD 2-3=-2295/314, 3-4=-1267/186

BOT CHORD 2-8=-308/2232, 8-13=-308/2232,
7-13=-308/2232, 6-7=-169/1251

WEBS 3-8=-30/488, 3-7=-1009/145, 4-7=-74/734,
4-6=-1471/212

NOTES

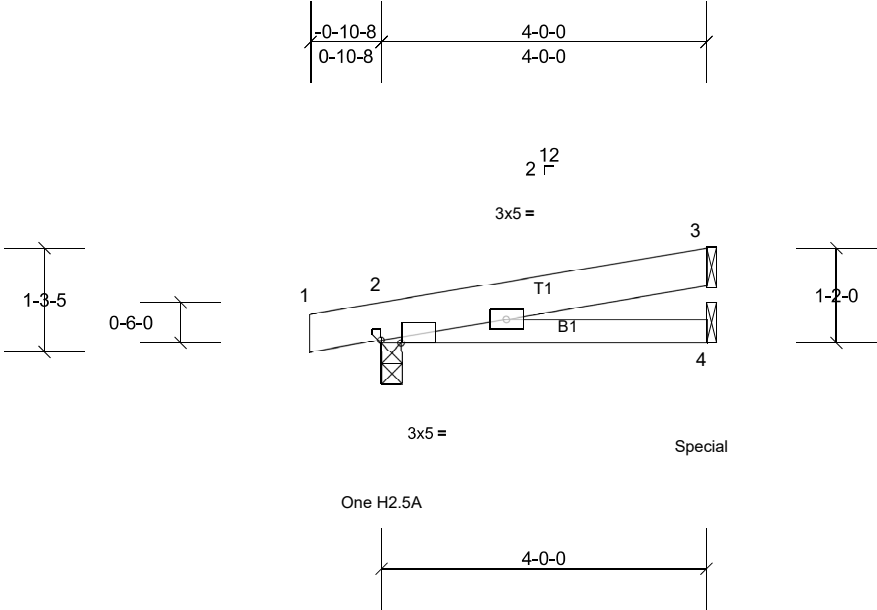
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-7 2x4 - 2 rows staggered at 0-3-0 oc.
All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-0-12 from the left end to 6-0-12 to connect truss(es) FP06 (1 ply 2x4 SP), FP07 (1 ply 2x4 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-58, 4-5=-58, 6-9=-19
Concentrated Loads (lb)
Vert: 5=-124 (F), 7=-276 (F), 6=-138 (F), 13=-527 (F)

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP03	Jack-Open	4	1	Job Reference (optional)



Scale = 1:28.4

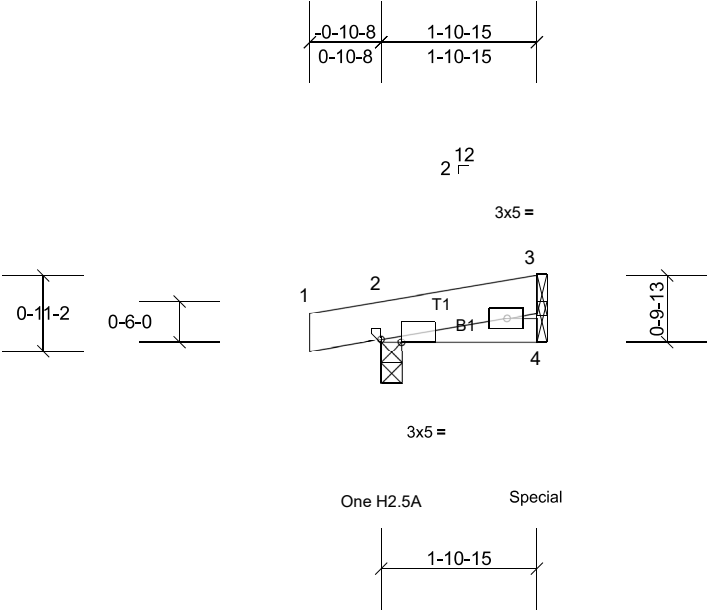
Plate Offsets (X, Y): [2:0-3-0,Edge]

loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 18 lb	FT = 20%

- LUMBER**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size)
2=209/0-3-0, (min. 0-1-8), 3=112/
Mechanical, (min. 0-1-8), 4=35/
Mechanical, (min. 0-1-8)
Max Horiz 2=30 (LC 10)
Max Uplift 2=-56 (LC 10), 3=-33 (LC 14)
Max Grav 2=267 (LC 21), 3=145 (LC 21),
4=49 (LC 7)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- NOTES**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP04	Jack-Open	4	1	Job Reference (optional)



Scale = 1:28.3

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	5-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size)

2=136/0-3-0, (min. 0-1-8), 3=44/Mechanical, (min. 0-1-8), 4=18/Mechanical, (min. 0-1-8)

Max Horiz 2=18 (LC 10)

Max Uplift 2=-48 (LC 10), 3=-5 (LC 14), 4=-5 (LC 14)

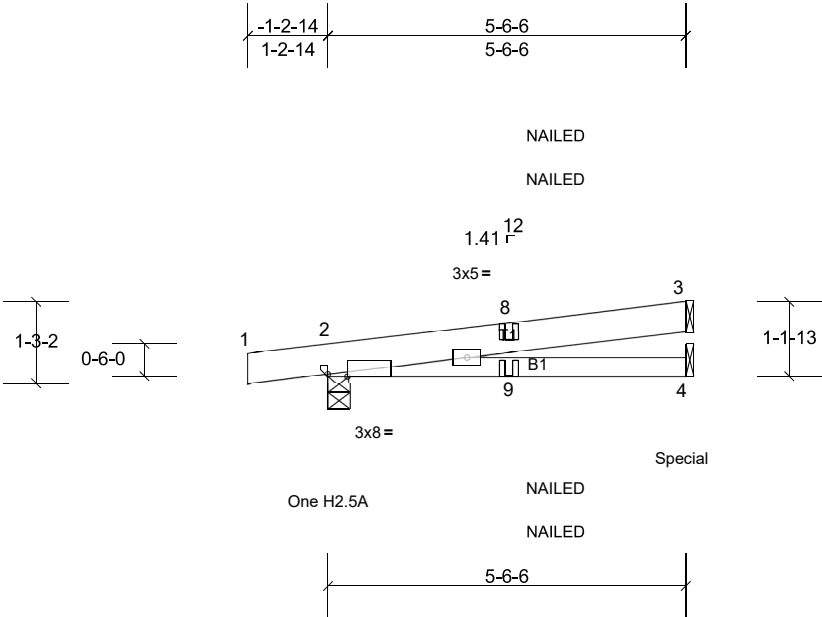
Max Grav 2=166 (LC 21), 3=52 (LC 21), 4=21 (LC 21)

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

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 3 and 5 lb uplift at joint 4.
 - 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP05	Diagonal Hip Girder	2	1	Job Reference (optional)



Scale = 1:35.6

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.03	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=304/0-3-14, (min. 0-1-8), 3=164/
Mechanical, (min. 0-1-8), 4=52/
Mechanical, (min. 0-1-8)
Max Horiz 2=30 (LC 8)
Max Uplift 2=-90 (LC 8), 3=-51 (LC 12)
Max Grav 2=373 (LC 19), 3=203 (LC 19),
4=71 (LC 7)

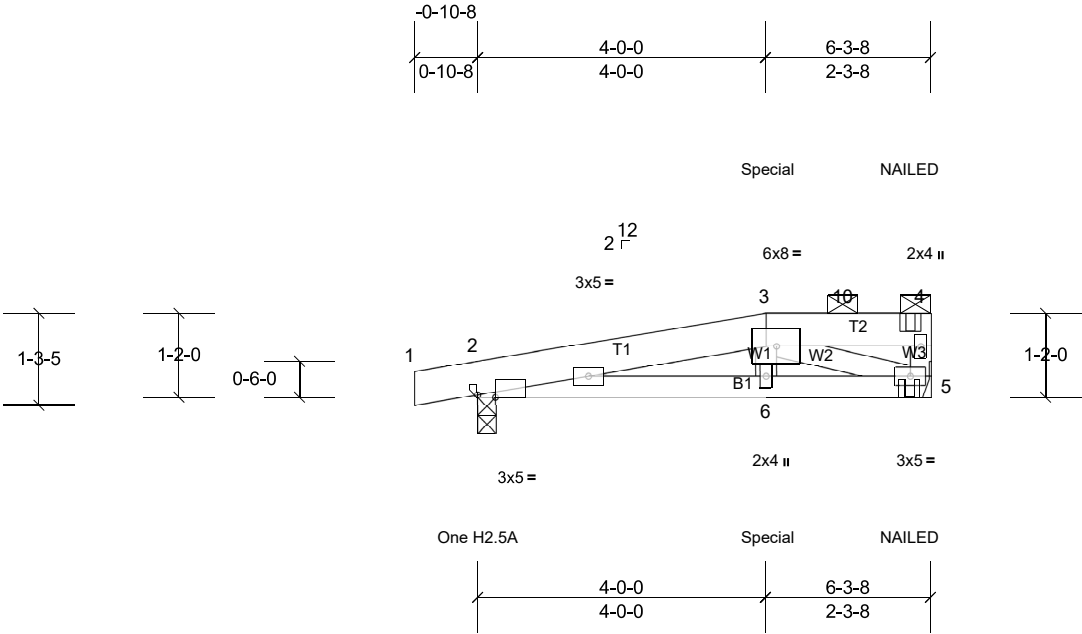
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

TOP CHORD 2-8=-292/42

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp B; Enclosed; MWFRS (envelope) exterior zone;
cantilever left and right exposed ; end vertical left and
right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;
Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this
design.
 - 4) This truss has been designed for greater of min roof live
load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on
overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 51 lb uplift at joint
3.

- 9) One H2.5A Simpson Strong-Tie connectors
recommended to connect truss to bearing walls due to
UPLIFT at jt(s) 2. This connection is for uplift only and
does not consider lateral forces.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d
(0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face
of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate
Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-58, 4-5=-19
Concentrated Loads (lb)
Vert: 9=-25 (F=-13, B=-13)

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP06	Half Hip Girder	1	1	Job Reference (optional)



Scale = 1:32

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

Loading	(psf)	Spacing	1-11-4	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.02	6-9	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	6-9	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 30 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=384/0-3-0, (min. 0-1-8), 5=546/
Mechanical, (min. 0-1-8)
Max Horiz 2=30 (LC 11)
Max Uplift 2=-76 (LC 8), 5=-58 (LC 8)
Max Grav 2=437 (LC 34), 5=546 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-892/86
BOT CHORD 2-6=-77/874, 5-6=-77/874
WEBS 3-5=-931/89

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 5.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 89 lb up at 4-0-0 on top chord, and 51 lb down at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-58, 3-4=-58, 5-7=-19
Concentrated Loads (lb)
Vert: 4=-112 (B), 6=-51 (B), 3=-212 (B), 5=-28 (B)

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- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4.

10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-1-12, Exterior (2E) 3-1-12 to 6-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.0
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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LOAD CASE(S) Standard

NOTES

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

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NOTES

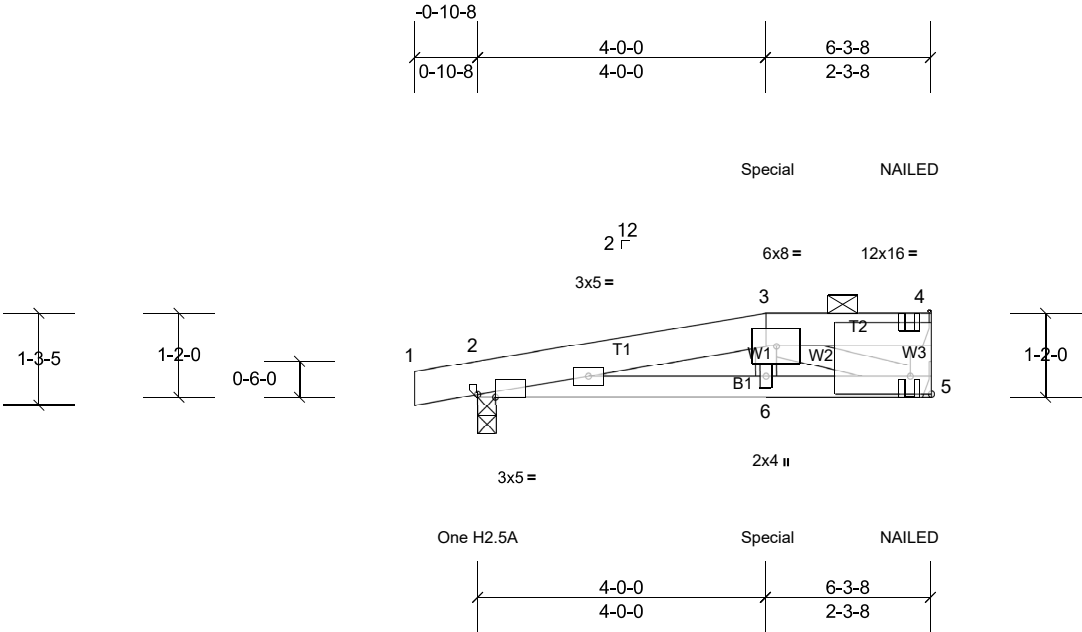
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-10-4, Exterior(2E) 2-10-4 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.

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LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP11	Half Hip Girder	1	1	Job Reference (optional)



Scale = 1:32

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 30 lb	FT = 20%

- LUMBER**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
- BRACING**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 2=384/0-3-0, (min. 0-1-8), 4=175/ Mechanical, (min. 0-1-8), 5=371/ Mechanical, (min. 0-1-8)
Max Horiz 2=30 (LC 11)
Max Uplift 2=-76 (LC 8), 4=-45 (LC 8), 5=-15 (LC 12)
Max Grav 2=437 (LC 34), 4=183 (LC 33), 5=381 (LC 34)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-892/91
BOT CHORD 2-6=-85/874, 5-6=-85/874
WEBS 3-5=-931/96
- NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 15 lb uplift at joint 5.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 234 lb down and 89 lb up at 4-0-0 on top chord, and 51 lb down at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-58, 3-4=-58, 5-7=-19
Concentrated Loads (lb)
Vert: 4=-112 (F), 6=-51 (F), 3=-212 (F), 5=-28 (F)

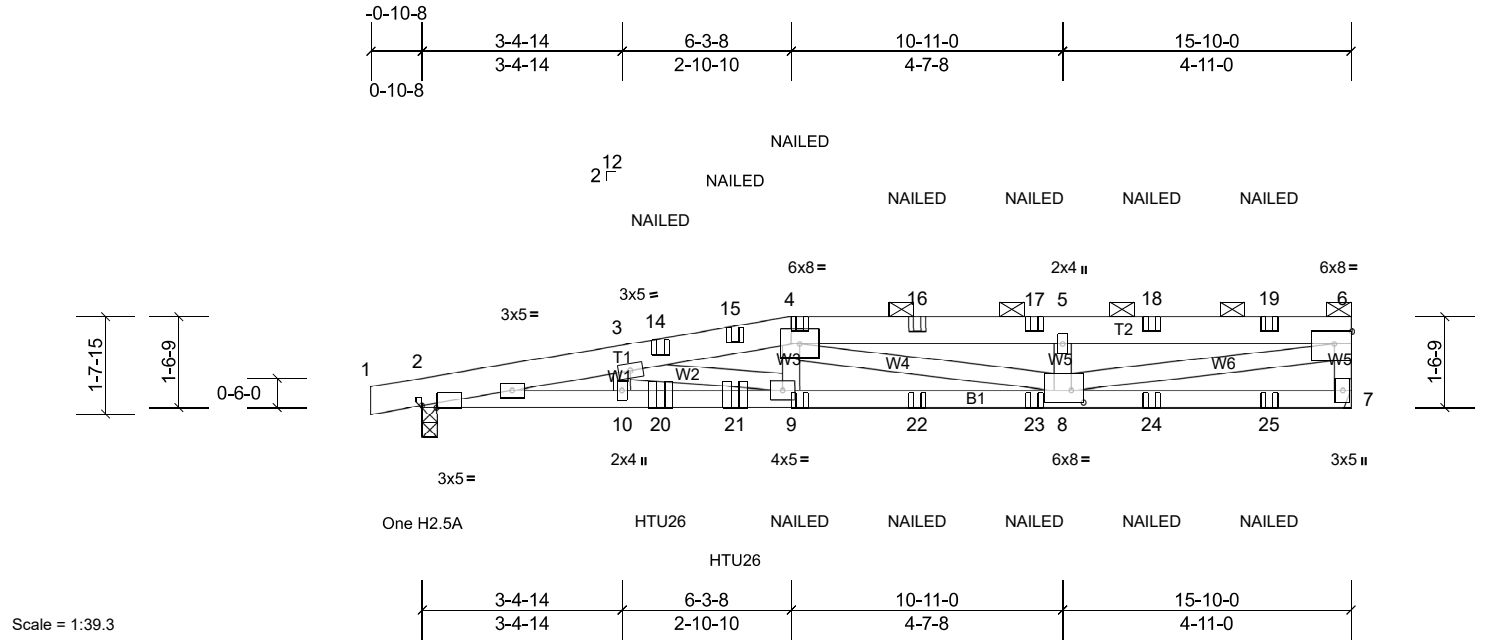
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP12	Half Hip Girder	1	2	Job Reference (optional)

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Scale = 1:39.3

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

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.15	9-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.26	8-9	>733	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 168 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x4 SP No.1
- WEBS 2x4 SP No.3
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (lb/size) 2=1557/0-3-0, (min. 0-1-8), 7=1573/ Mechanical, (min. 0-1-8)
- Max Horiz 2=43 (LC 11)
- Max Uplift 2=-165 (LC 8), 7=-75 (LC 8)
- Max Grav 2=1598 (LC 34), 7=1610 (LC 33)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-5800/477, 3-14=-5797/388, 14-15=-5770/385, 4-15=-5758/389, 4-16=-4689/251, 16-17=-4689/251, 5-17=-4689/251, 5-18=-4689/251, 18-19=-4689/251, 6-19=-4689/251, 6-7=-1406/129
- BOT CHORD 2-10=-466/5662, 10-20=-466/5662, 20-21=-466/5662, 9-21=-466/5662, 9-22=-372/5726, 22-23=-372/5726, 8-23=-372/5726, 8-24=-10/326, 24-25=-10/326, 7-25=-10/326
- WEBS 3-10=-16/282, 4-9=0/601, 4-8=-1224/175, 5-8=-454/188, 6-8=-242/4493
- NOTES**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 7.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 1-3-4 oc max. starting at 4-0-12 from the left end to 5-4-0 to connect truss(es) FP11 (1 ply 2x4 SP), FP10 (1 ply 2x4 SP) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.
- 16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-4=-58, 4-6=-58, 7-11=-19
- Concentrated Loads (lb)
- Vert: 9=-130 (B), 4=-100 (B), 14=-126 (B), 16=-100 (B), 17=-100 (B), 18=-100 (B), 19=-100 (B), 20=-363 (B), 21=-222 (B), 22=-130 (B), 23=-130 (B), 24=-130 (B), 25=-130 (B)

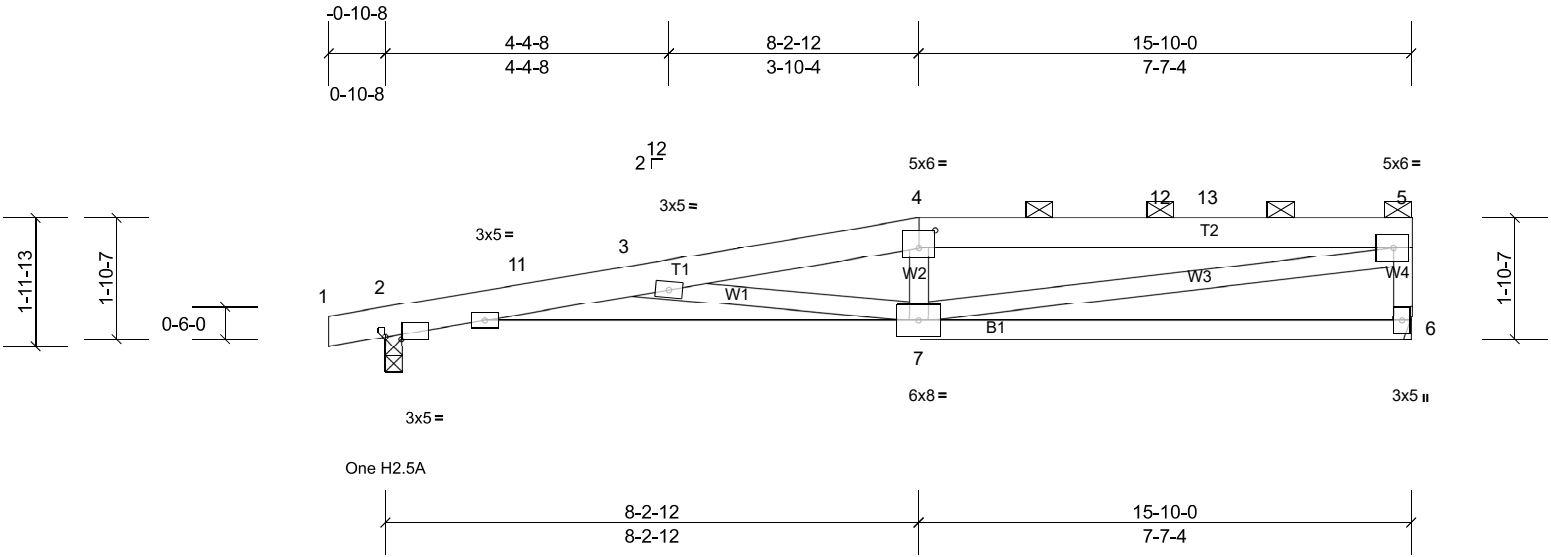
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP13	Half Hip	1	1	Job Reference (optional)

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Scale = 1:35.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.10	7-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.22	6-7	>857	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 84 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-13 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.

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

REACTIONS

(lb/size) 2=681/0-3-0, (min. 0-1-8), 6=626/
Mechanical, (min. 0-1-8)
Max Horiz 2=57 (LC 13)
Max Uplift 2=-131 (LC 10), 6=-100 (LC 10)
Max Grav 2=746 (LC 38), 6=659 (LC 37)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-11=-2196/714, 3-11=-2181/718,
3-4=-1799/602, 4-12=-1775/615,
12-13=-1775/615, 5-13=-1775/615,
5-6=-589/268
BOT CHORD 2-7=-689/2192
WEBS 3-7=-534/131, 5-7=-549/1674

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-9-3, Exterior(2R) 3-9-3 to 12-8-4, Exterior(2E) 12-8-4 to 15-8-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

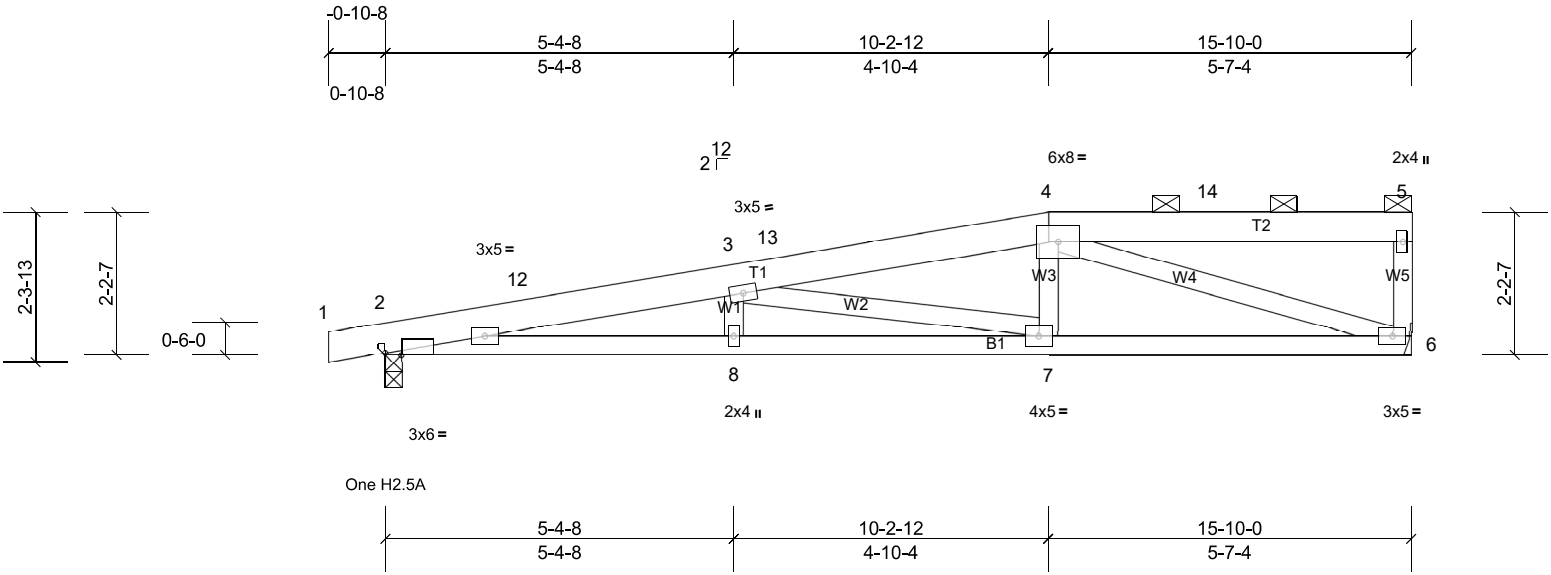
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP14	Half Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:35.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.11	7-8	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.21	7-8	>886	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.05	6	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 83 lb FT = 20%											

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 7-8-7 oc bracing.

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

REACTIONS (lb/size) 2=681/0-3-0, (min. 0-1-8), 6=626/
Mechanical, (min. 0-1-8)
Max Horiz 2=69 (LC 13)
Max Uplift 2=-131 (LC 10), 6=-100 (LC 10)
Max Grav 2=782 (LC 38), 6=626 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-2340/607, 3-12=-2321/613, 3-13=-1331/428, 4-13=-1315/436
BOT CHORD 2-8=-586/2303, 7-8=-586/2303, 6-7=-380/1339
WEBS 3-7=-1020/211, 4-7=0/352, 4-6=-1346/419

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-11-13, Exterior(2R) 5-11-13 to 12-8-4, Exterior(2E) 12-8-4 to 15-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

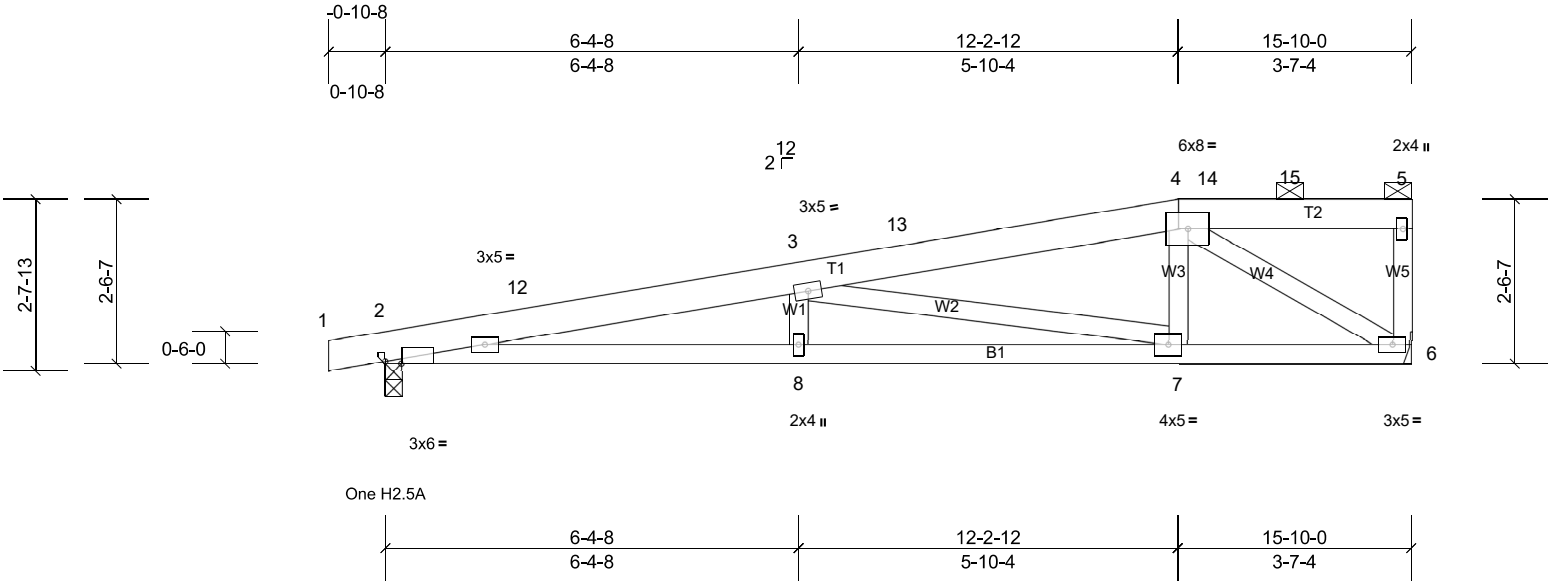
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP15	Half Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:35.6									
Plate Offsets (X, Y): [2:0-3-0,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.13	8	>999
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.23	7-8	>835
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.05	6	n/a
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH					
BCDL	10.0								
Weight: 83 lb									FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	Rigid ceiling directly applied or 8-3-12 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS	(lb/size)	2=681/0-3-0, (min. 0-1-8), 6=626/ Mechanical, (min. 0-1-8)
	Max Horiz	2=82 (LC 13)
	Max Uplift	2=-130 (LC 10), 6=-101 (LC 10)
	Max Grav	2=808 (LC 38), 6=626 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-12=-2394/519, 3-12=-2374/528, 3-13=-964/274, 4-13=-937/283	
BOT CHORD	2-8=-499/2342, 7-8=-499/2342, 6-7=-217/949	
WEBS	3-7=-1446/287, 4-7=0/406, 4-6=-1085/297	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 7-11-13, Exterior(2R) 7-11-13 to 12-8-4, Exterior(2E) 12-8-4 to 15-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

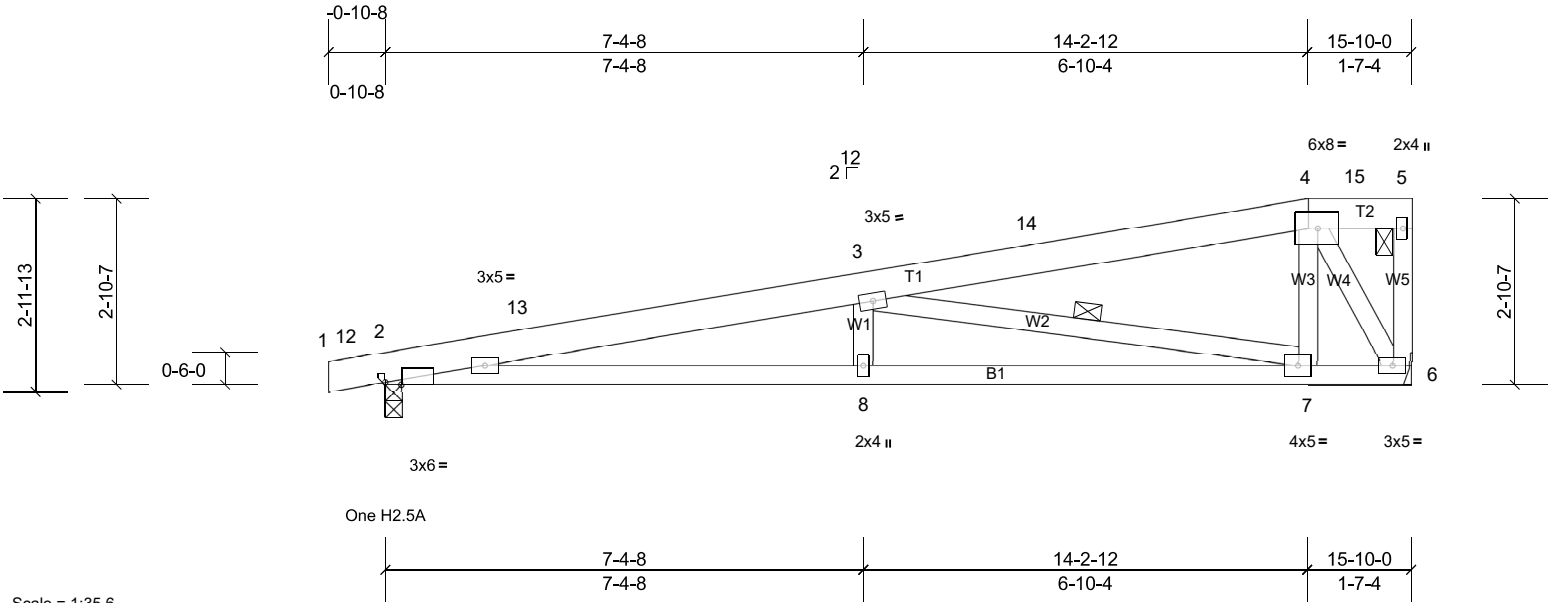
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP16	Half Hip	1	1	Job Reference (optional)

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Scale = 1:35.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.15	8-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.25	8-11	>742	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.05	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 84 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 2=681/0-3-0, (min. 0-1-8), 6=626/Mechanical, (min. 0-1-8)
Max Horiz 2=94 (LC 13)
Max Uplift 2=-129 (LC 10), 6=-102 (LC 10)
Max Grav 2=816 (LC 38), 6=693 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2359/433, 3-13=-2338/443, 3-14=-541/132, 4-14=-498/140
BOT CHORD 2-8=-412/2306, 7-8=-412/2306, 6-7=-66/511
WEBS 3-8=0/263, 3-7=-1849/353, 4-7=0/507, 4-6=-968/216

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 9-11-13, Exterior(2R) 9-11-13 to 14-2-12, Exterior(2E) 14-2-12 to 15-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

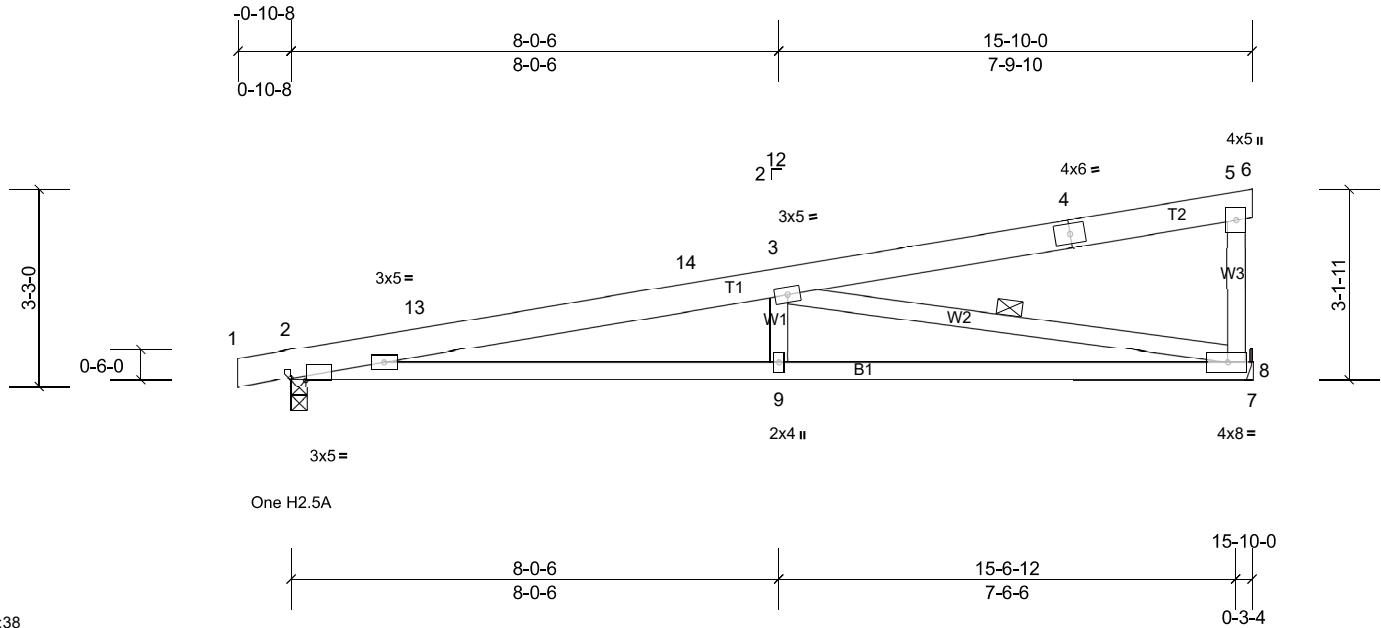
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP17	Monopitch	1	1	Job Reference (optional)

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Scale = 1:38

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.14	9-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.26	9-12	>719	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 79 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-8

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

REACTIONS (lb/size) 2=676/0-3-0, (min. 0-1-8), 8=643/
Mechanical, (min. 0-1-8)
Max Horiz 2=103 (LC 13)
Max Uplift 2=-127 (LC 10), 8=-105 (LC 14)
Max Grav 2=729 (LC 21), 8=779 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-2180/354, 13-14=-2179/357,
3-14=-2125/365, 5-8=-297/120
BOT CHORD 2-9=-331/2133, 8-9=-331/2133
WEBS 3-9=0/304, 3-8=-2075/379

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 12-10-0, Exterior(2E) 12-10-0 to 15-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 8.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

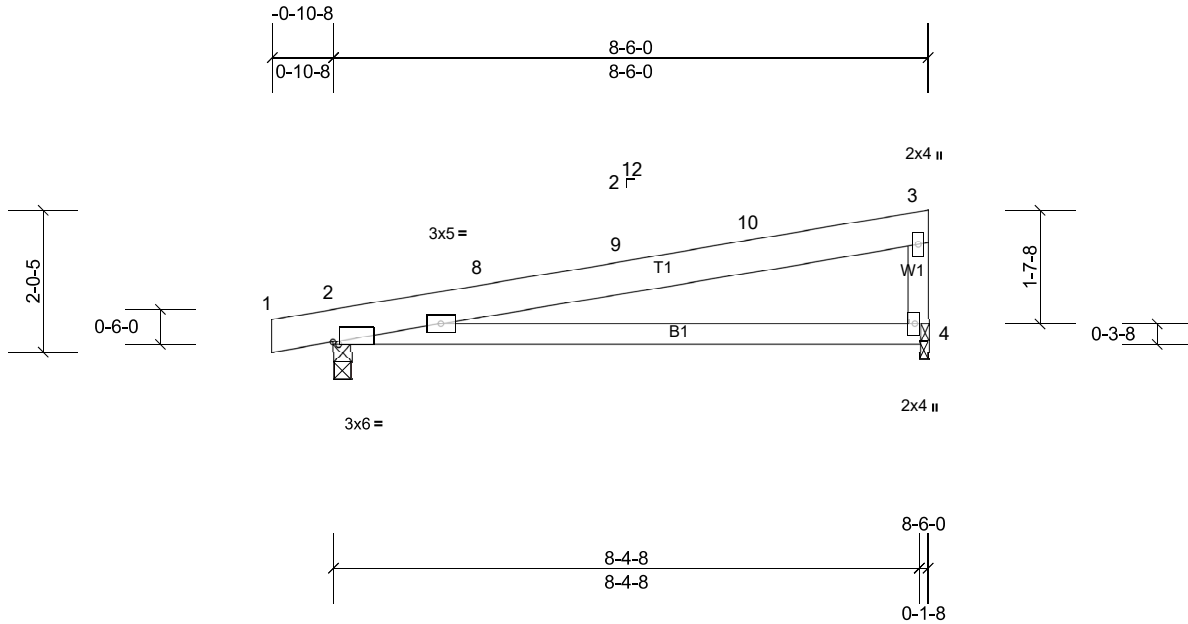
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP18	Roof Special	4	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:32.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.15	4-7	>669	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.29	4-7	>341	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER

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

BRACING

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

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=389/0-3-0, (min. 0-1-8),
4=331/0-1-8, (min. 0-1-8)
Max Horiz 2=57 (LC 13)
Max Uplift 2=-85 (LC 10), 4=-54 (LC 10)
Max Grav 2=494 (LC 21), 4=416 (LC 21)

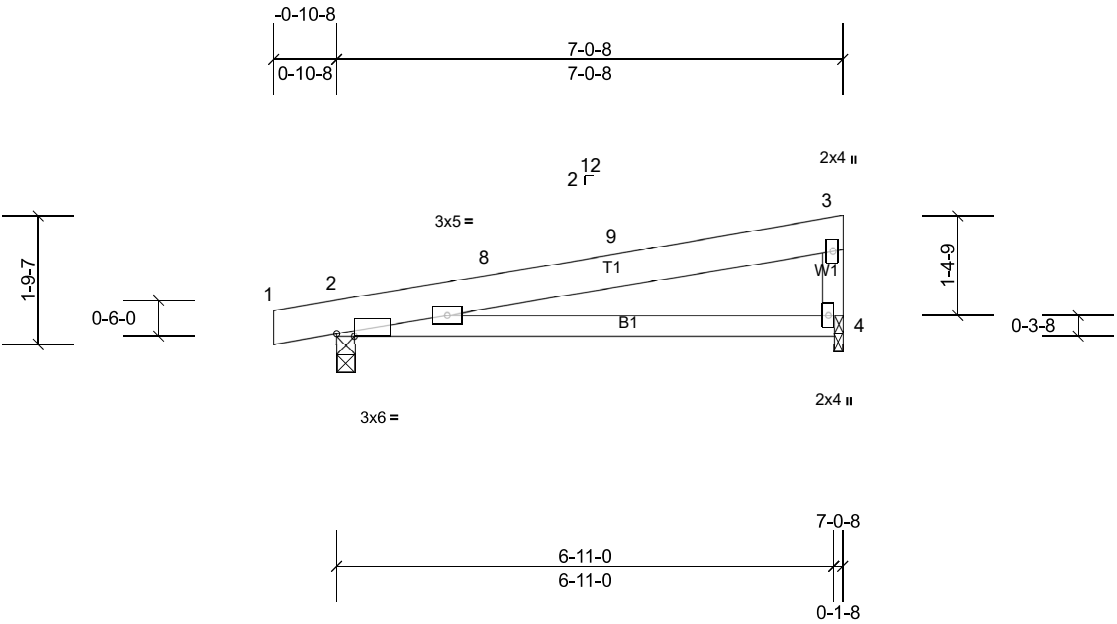
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-426/156, 3-4=-331/188
BOT CHORD 2-4=-139/321

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 4-1-5, Exterior(2R) 4-1-5 to 8-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP19	Monopitch	2	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	4-7	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.13	4-7	>617	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 31 lb	FT = 20%

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

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

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

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

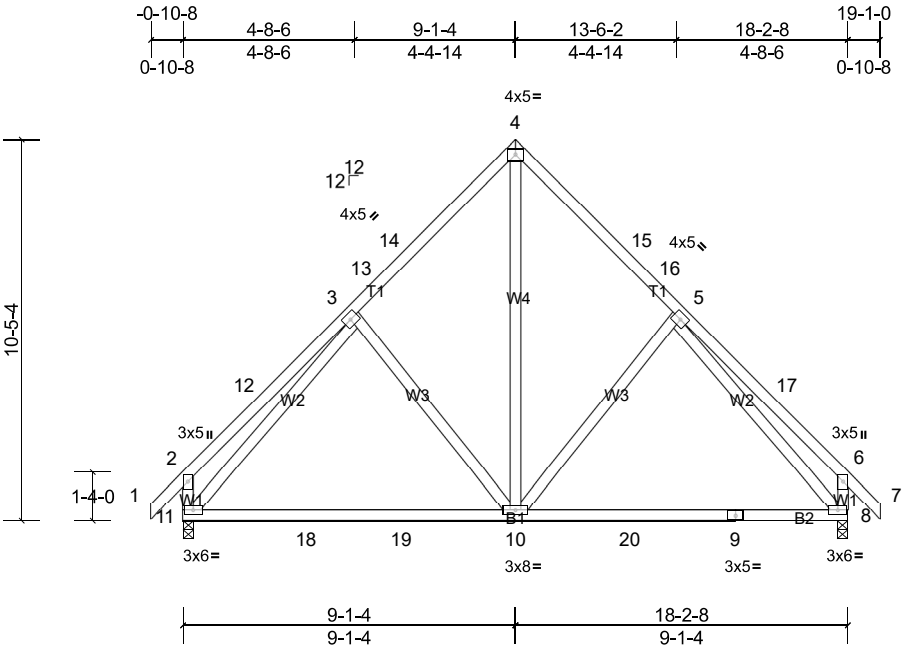
REACTIONS (lb/size) 2=332/0-3-0, (min. 0-1-8), 4=273/0-1-8, (min. 0-1-8)
Max Horiz 2=48 (LC 13)
Max Uplift 2=-76 (LC 10), 4=-45 (LC 14)
Max Grav 2=421 (LC 21), 4=342 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-335/139, 3-4=-272/180
BOT CHORD 2-4=-124/251

LOAD CASE(S) Standard

- NOTES**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-10-12, Exterior(2E) 3-10-12 to 6-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	G1	Common	1	1	Job Reference (optional)



Scale = 1:63.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.20	8-10	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.33	8-10	>653	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 128 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

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

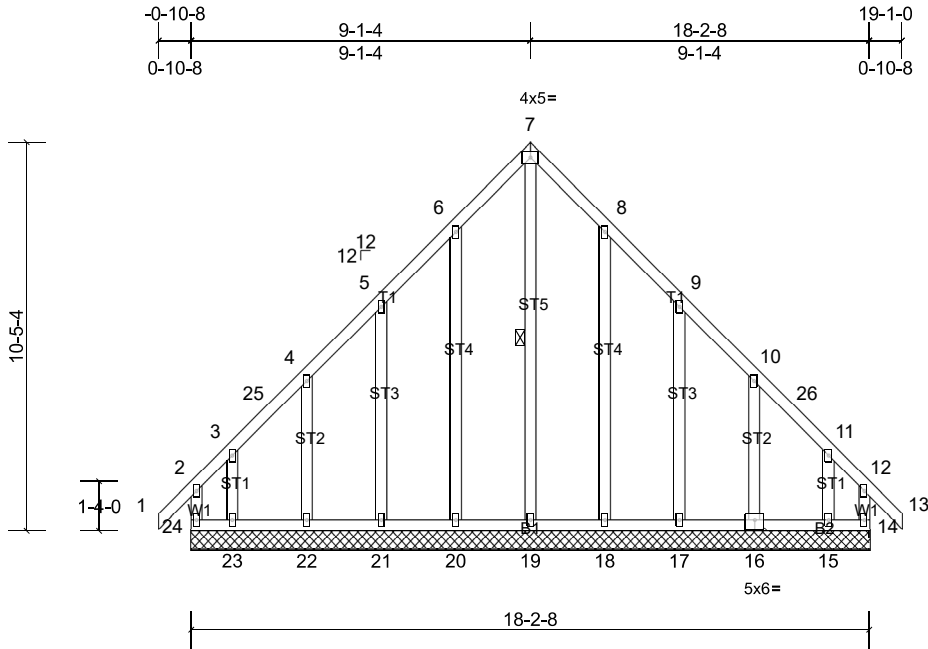
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

REACTIONS	(lb/size)	8=778/0-3-8, (min. 0-1-8), 11=778/0-3-8, (min. 0-1-8)
	Max Horiz	11=273 (LC 13)
	Max Uplift	8=-55 (LC 15), 11=-55 (LC 14)
	Max Grav	8=895 (LC 6), 11=892 (LC 5)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		2-12=-399/134, 3-12=-259/155, 3-13=-793/155, 13-14=-737/165, 4-14=-706/190, 4-15=-706/190, 15-16=-737/165, 5-16=-793/155, 6-17=-369/144, 2-11=-405/163, 6-8=-390/171
BOT CHORD		11-18=-94/616, 18-19=-94/616, 10-19=-94/616, 10-20=0/562, 9-20=0/562, 8-9=0/562
WEBS		4-10=-151/725, 3-11=-621/28, 5-8=-621/28

- NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-1-4, Exterior(2R) 6-1-4 to 12-1-4, Interior (1) 12-1-4 to 16-1-0, Exterior(2E) 16-1-0 to 19-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	G1GE	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:61.9

Plate Offsets (X, Y): [16:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.00	14	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 145 lb FT = 20%											

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.
WEBS 1 Row at midpt 7-19

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

REACTIONS All bearings 18-2-8.
(lb) - Max Horiz 24=273 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s)
16, 18, 20, 22 except 14=202 (LC 11), 15=243 (LC 15), 17=110 (LC 15), 21=109 (LC 14), 23=252 (LC 14), 24=238 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s)
16, 17, 21, 22 except 14=270 (LC 10), 15=265 (LC 13), 18=282 (LC 22), 19=362 (LC 15), 20=282 (LC 21), 23=289 (LC 12), 24=305 (LC 11)

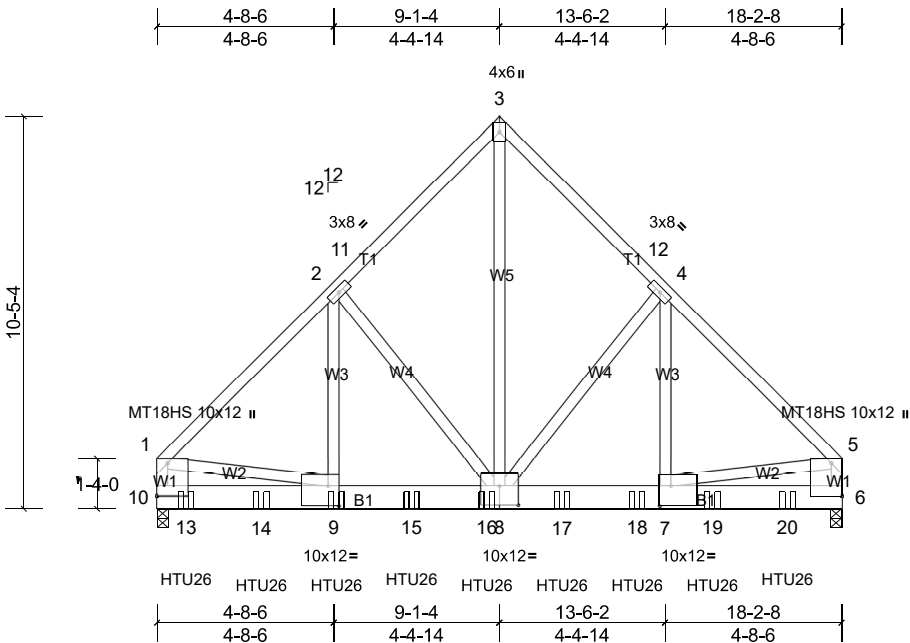
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-125/320, 6-7=-177/418, 7-8=-177/418, 8-9=-125/320
WEBS 7-19=-509/148

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-1-4, Corner(3R) 6-1-4 to 12-1-4, Exterior(2N) 12-1-4 to 16-1-0, Corner(3E) 16-1-0 to 19-1-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 20, 22, 18, 16 except (jt=lb) 24=237, 14=201, 21=109, 23=251, 17=109, 15=242.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	G1GR	Common Girder	1	3	Job Reference (optional)



Scale = 1:61.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.14	7-8	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 477 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W5,W1:2x4 SP No.2

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

REACTIONS (lb/size) 6=9059/0-3-8, (min. 0-2-13), 10=9724/0-3-8, (min. 0-3-0)
Max Horiz 10=244 (LC 9)
Max Grav 6=10188 (LC 6), 10=10946 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9543/0, 2-11=-7074/0, 3-11=-6966/0, 3-12=-6966/0, 4-12=-7074/0, 4-5=-9546/0, 1-10=-8059/0, 5-6=-8064/0
BOT CHORD 10-13=0/991, 13-14=0/991, 9-14=0/991, 9-15=0/6683, 15-16=0/6683, 8-16=0/6683, 8-17=0/6685, 17-18=0/6685, 7-18=0/6685, 7-19=0/840, 19-20=0/840, 6-20=0/840
WEBS 3-8=0/9562, 4-8=-2820/0, 4-7=0/3752, 2-8=-2817/0, 2-9=0/3747, 1-9=0/5971, 5-7=0/5985

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-9-4 from the left end to 16-9-4 to connect truss(es) A1 (1 ply 2x6 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 6-10=-20
Concentrated Loads (lb)
Vert: 9=-1927, 13=-1931, 14=-1927, 15=-1927, 16=-1927, 17=-1927, 18=-1927, 19=-1927, 20=-1927

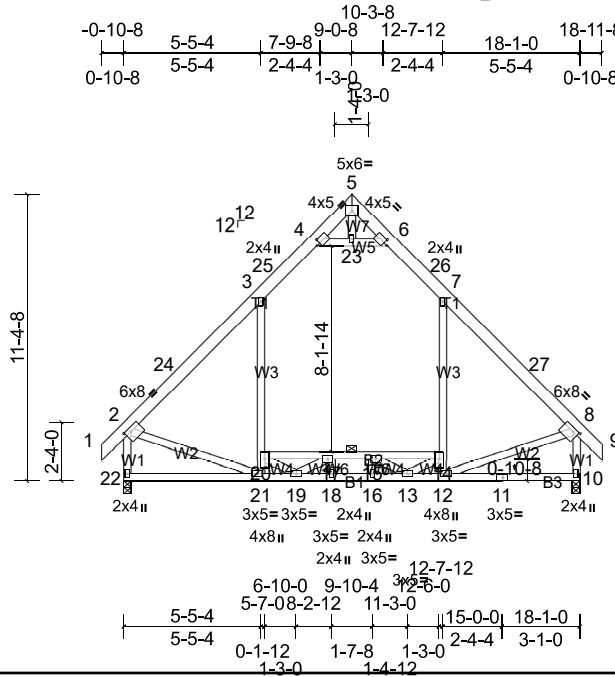
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	H1	Attic	4	1	Job Reference (optional)

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Scale = 1:91.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	0.12	21-22	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.16	21-22	>999	180	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	10	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.07	14-20	>999	360	
BCDL	10.0										
Weight: 162 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 17-20,15-17,14-15.

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

REACTIONS (lb/size) 10=981/0-3-8, (min. 0-1-8), 22=981/0-3-8, (min. 0-1-8)
Max Horiz 22=302 (LC 13)
Max Grav 10=1134 (LC 6), 22=1134 (LC 5)

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

TOP CHORD 2-24=-1092/0, 3-24=-955/0, 3-25=-681/76, 4-25=-602/99, 4-5=-66/299, 5-6=-66/295, 6-26=-606/100, 7-26=-685/76, 7-27=-952/0, 8-27=-1086/0, 2-22=-1158/0, 8-10=-1169/0
BOT CHORD 21-22=-286/355, 19-21=-49/781, 18-19=0/1450, 16-18=0/1450, 13-16=0/1450, 12-13=0/679, 17-20=-508/59, 15-17=-900/0, 14-15=-513/66

WEBS 7-14=0/412, 3-20=0/412, 4-23=-1220/188, 6-23=-1220/188, 2-21=0/669, 8-12=0/671, 13-14=0/534, 19-20=0/534, 13-15=-562/60, 17-19=-568/67

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-0-8, Exterior(2R) 6-0-8 to 12-0-8, Interior (1) 12-0-8 to 15-11-8, Exterior(2E) 15-11-8 to 18-11-8 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-23, 6-23; Wall dead load (5.0psf) on member(s).7-14, 3-20
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-20, 15-17, 14-15
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

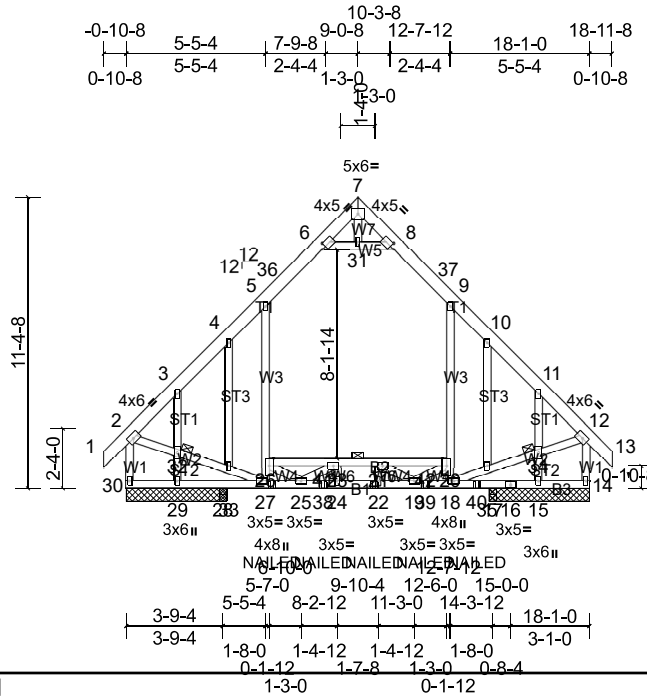
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	H1GE	Attic Structural Gable	1	1	Job Reference (optional)

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Scale = 1:90

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.05	23-26	>999	240	MT20 244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.08	23-26	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	14	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.02	20-26	>999	360	
BCDL	10.0										
Weight: 187 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W5:2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing.
JOINTS 1 Brace at Jt(s): 32, 34

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

REACTIONS All bearings 3-11-0. except 28=0-3-8, 17=0-3-8 (lb) - Max Horiz 30=302 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 28, 30 except 15=-191 (LC 15), 17=-118 (LC 15), 29=-197 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) except 14=696 (LC 26), 15=426 (LC 27), 17=403 (LC 27), 28=362 (LC 26), 29=436 (LC 26), 30=701 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-676/55, 3-4=-820/57, 4-5=-802/85, 5-36=-543/92, 6-36=-476/116, 8-37=-476/114, 9-37=-544/90, 9-10=-799/85, 10-11=-819/57, 11-12=-672/50, 2-30=-673/50, 12-14=-669/45
BOT CHORD 29-30=-291/258, 28-29=-291/258, 27-28=-291/258, 25-27=-54/534, 25-38=0/1600, 24-38=0/1600, 22-24=0/1600, 19-22=0/1600, 19-39=-23/509, 18-39=-23/509, 26-41=-708/58, 23-41=-708/58, 21-23=-1084/0, 21-42=-730/75, 20-42=-730/75

WEBS 18-20=-376/9, 9-20=-86/335, 26-27=-371/1, 5-26=-85/333, 6-31=-727/207, 8-31=-727/207, 2-32=-15/574, 32-33=-8/587, 27-33=-15/571, 18-35=-18/573, 34-35=-11/590, 12-34=-18/576, 3-32=-481/211, 29-32=-564/256, 11-34=-484/212, 15-34=-563/257, 19-20=-70/863, 25-26=-51/841, 19-21=-522/33, 23-25=-547/59

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 1-11-13, Interior (1) 1-11-13 to 6-0-8, Exterior(2R) 6-0-8 to 12-0-8, Interior (1) 12-0-8 to 15-11-8, Exterior(2E) 15-11-8 to 18-11-8 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-31, 8-31; Wall dead load (5.0psf) on member(s).9-20, 5-26
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-26, 21-23, 20-21
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30, 14, 29, and 15. This connection is for uplift only and does not consider lateral forces.
- H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28 and 17. This connection is for uplift only and does not consider lateral forces.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-5=-60, 5-6=-70, 6-7=-60, 7-8=-60, 8-9=-70, 9-12=-60, 12-13=-60, 14-30=-20, 20-26=-30, 6-31=-10, 8-31=-10
Drag: 9-20=-10, 5-26=-10
Concentrated Loads (lb)
Vert: 27=-47, 22=-47, 38=-47, 39=-47, 40=-47

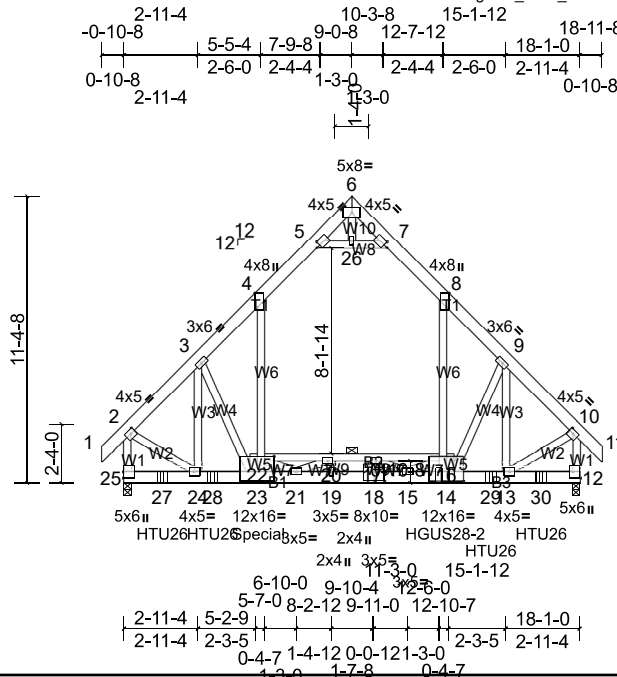
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	H1GR	Attic Girder	1	4	Job Reference (optional)

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Scale = 1:91.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12], [4:0-6-10,Edge], [5:0-1-13,0-2-0], [7:0-1-13,0-2-0], [8:0-6-10,Edge], [10:0-2-0,0-1-12], [12:Edge,0-3-8], [16:0-4-8,0-4-12], [18:0-5-0,0-4-8], [22:0-8-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.10	17-20	>999	240	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.16	18-19	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.02	12	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.01	16-22	>999	360	
BCDL	10.0										
Weight: 791 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W6,W8:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-22,17-20,16-17.

REACTIONS (lb/size) 12=6488/0-3-8, (min. 0-2-14), 25=6488/0-3-8, (min. 0-2-14)
Max Horiz 25=-299 (LC 10)
Max Grav 12=9795 (LC 6), 25=9795 (LC 5)

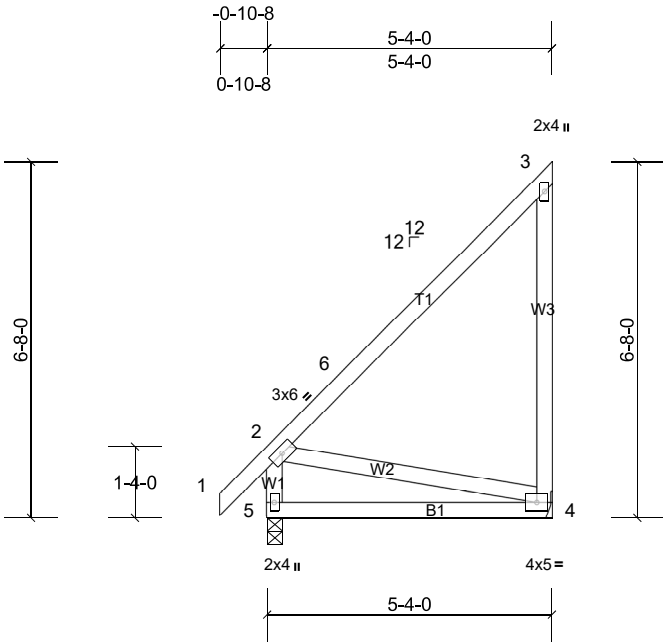
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7566/0, 3-4=-8357/0, 4-5=-3509/0, 5-6=0/2318, 6-7=0/2318, 7-8=-3510/0, 8-9=-8358/0, 9-10=-7566/0, 2-25=-8992/0, 10-12=-8992/0
BOT CHORD 25-27=-225/343, 24-27=-225/343, 24-28=0/5559, 23-28=0/5559, 21-23=0/5070, 19-21=0/6379, 18-19=0/6379, 15-18=0/6369, 14-15=0/4999, 14-29=0/5421, 13-29=0/5421, 20-22=-1672/0, 17-20=-1773/0, 16-17=-1684/0
WEBS 14-16=0/5776, 8-16=0/6623, 9-13=-867/284, 22-23=0/5775, 4-22=0/6624, 3-24=-867/280, 5-26=-8206/0, 7-26=-8206/0, 6-26=0/576, 2-24=0/6403, 10-13=0/6403, 15-16=0/1569, 21-22=0/1558, 20-21=-261/241, 3-23=-1398/0, 9-14=-1400/0

NOTES

- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 8-14 2x4 - 2 rows staggered at 0-4-0 oc, Except member 4-23 2x4 - 2 rows staggered at 0-4-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-26, 7-26; Wall dead load (5.0psf) on member(s).8-16, 4-22
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 20-22, 17-20, 16-17
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 11-0-8 oc max. starting at 1-6-4 from the left end to 16-6-12 to connect truss(es) C1 (1 ply 2x4 SP) to back face of bottom chord.
 - Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 12-9-0 from the left end to connect truss(es) C1GR (4 ply 2x6 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - WARNING: The following hangers are manually applied but fail due to geometric considerations: HGUS28-2 on back face at 12-9-0 from the left end.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5218 lb down at 5-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 4-5=-70, 5-6=-60, 6-7=-60, 7-8=-70, 8-10=-60, 10-11=-60, 12-25=-20, 16-22=-30, 5-26=-10, 7-26=-10
Drag: 8-16=-10, 4-22=-10
Concentrated Loads (lb)
Vert: 23=-2597, 14=-2597, 27=-1453, 28=-1453, 29=-1453, 30=-1453

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	J4	Jack-Closed	3	1	Job Reference (optional)

Carter Components, Sanford, NC, user



Scale = 1:43.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08	4-5	>786	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 39 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-8-7 oc bracing.
<div>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</div>	

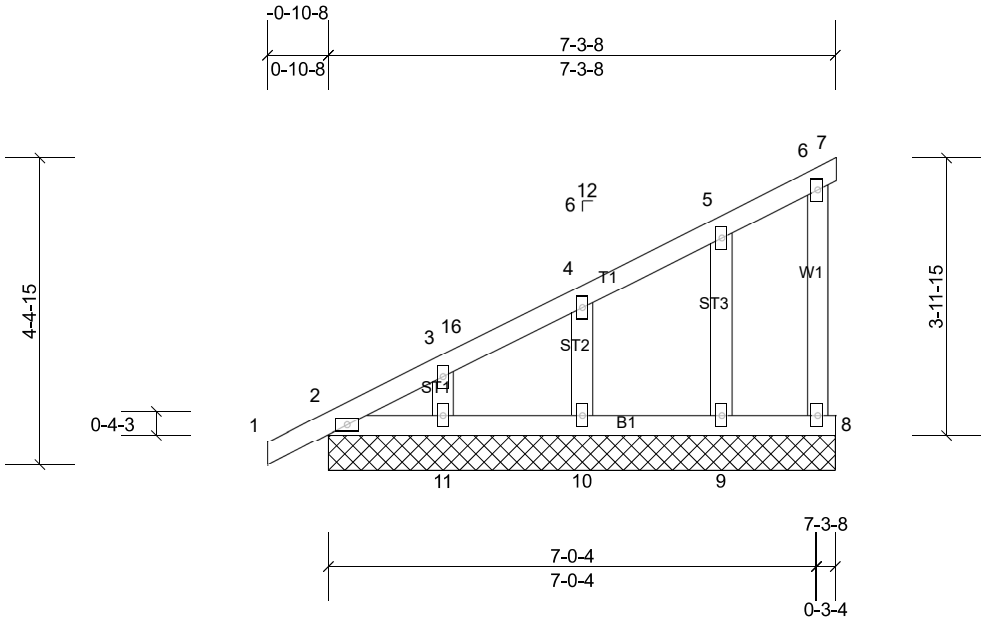
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 4.

LOAD CASE(S) Standard

REACTIONS	
(lb/size)	4=195/ Mechanical, (min. 0-1-8), 5=269/0-3-8, (min. 0-1-8)
Max Horiz	5=203 (LC 14)
Max Uplift	4=-166 (LC 14)
Max Grav	4=314 (LC 21), 5=340 (LC 21)
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces	250
(lb) or less except when shown.	
TOP CHORD	2-5=-290/0, 3-4=-264/248
BOT CHORD	4-5=-357/122
WEBS	2-4=-125/366

- NOTES**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	K1GE	Monopitch Supported Gable	1	1	Job Reference (optional)



Scale = 1:33.1

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS All bearings 7-3-8.

(lb) - Max Horiz 2=147 (LC 14), 12=147 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 7, 8, 9, 10, 11

Max Grav All reactions 250 (lb) or less at joint (s) 2, 7, 8, 9, 10, 11, 12

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

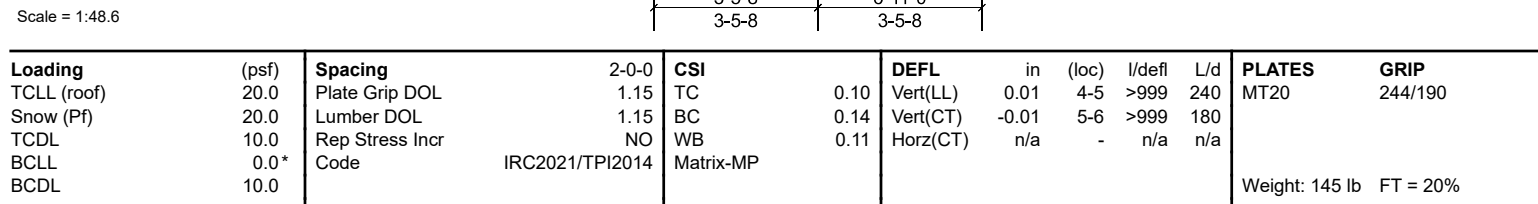
TOP CHORD 2-3=-258/93

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-3-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 4) 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 1.00 times flat roof load of 20.0 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 7, 8, 10, 11, 9.

LOAD CASE(S) Standard

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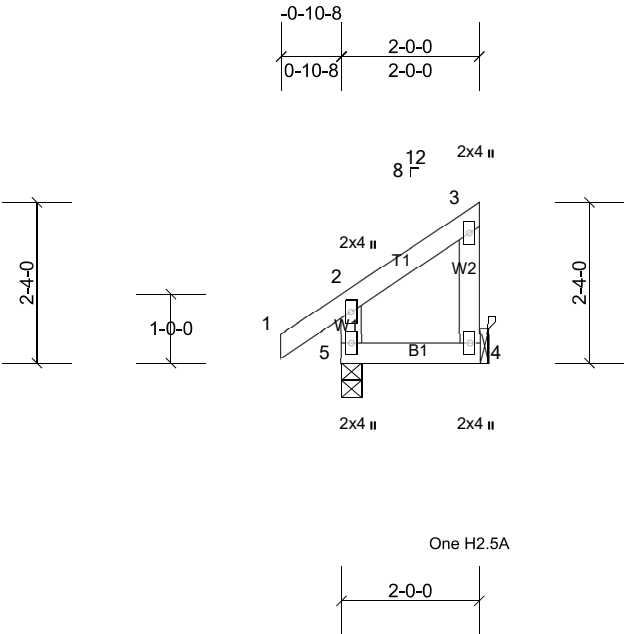


- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 6 and 347 lb uplift at joint 4.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 5-11-4 to connect truss(es) J4 (1 ply 2x4 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.

- ## NOTES
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) TCdL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	M1	Jack-Closed	8	1	Job Reference (optional)

Carter Components, Sanford, NC, user



Scale = 1:33.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.
- LOAD CASE(S)** Standard

REACTIONS (lb/size) 4=50/ Mechanical, (min. 0-1-8), 5=148/0-3-8, (min. 0-1-8)
Max Horiz 5=53 (LC 14)
Max Uplift 4=-41 (LC 14)
Max Grav 4=67 (LC 21), 5=214 (LC 21)

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

- NOTES**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.

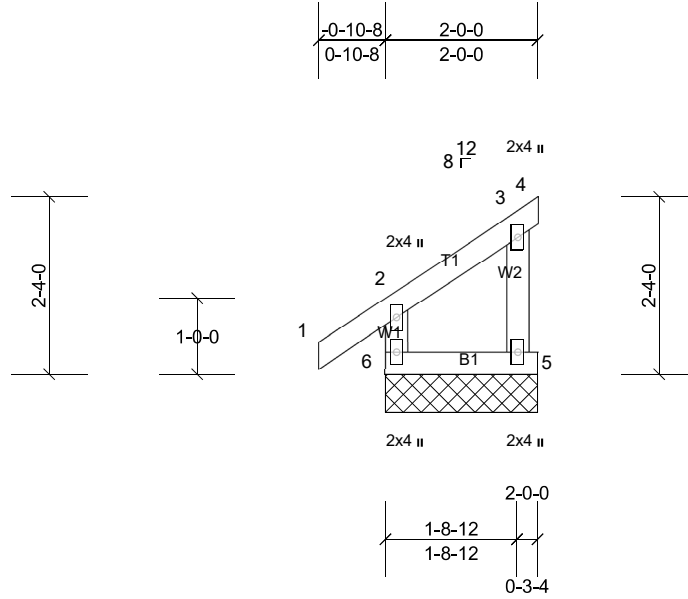
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	M1GE	Monopitch Supported Gable	4	1	Job Reference (optional)

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Scale = 1:30.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4 and 41 lb uplift at joint 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.

REACTIONS (lb/size) 4=5/2-0-0, (min. 0-1-8), 5=55/2-0-0, (min. 0-1-8), 6=144/2-0-0, (min. 0-1-8)
Max Horiz 6=57 (LC 14)
Max Uplift 4=-12 (LC 14), 5=-41 (LC 14)
Max Grav 4=10 (LC 12), 5=77 (LC 21), 6=210 (LC 21)

LOAD CASE(S) Standard

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.

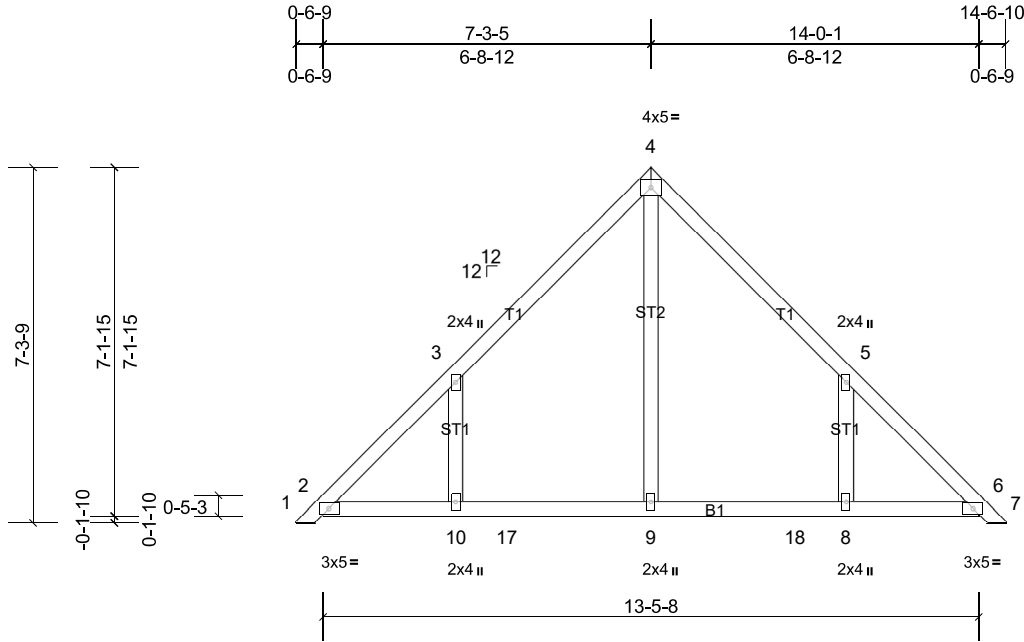
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB1	Piggyback	13	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS

All bearings 14-7-2.
(lb) - Max Horiz 1=-166 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11 except 1=-179 (LC 12), 8=-196 (LC 15), 10=-202 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 7, 11 except 8=463 (LC 22), 9=373 (LC 28), 10=448 (LC 21)

FORCES

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

TOP CHORD 1-2=-225/256

WEBS 3-10=-379/239, 5-8=-385/237

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-10 to 3-3-9, Interior (1) 3-3-9 to 4-3-9, Exterior(2R) 4-3-9 to 10-3-9, Interior (1) 10-3-9 to 11-3-9, Exterior(2E) 11-3-9 to 14-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 2 except (jt=lb) 1=179, 10=201, 8=196.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

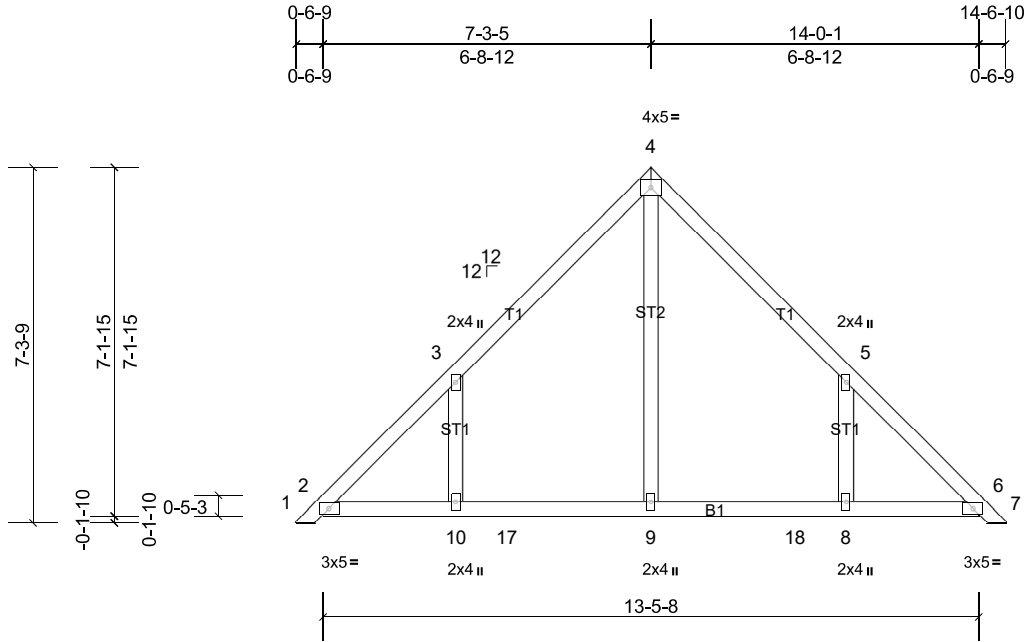
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB1GE	Piggyback	2	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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ID:ejoU4gxPC?rWGGWiy3HuRdyaiqD-yCECmkWEY5i3py?i75RM795mTuidITRISx6KLxzIXst



Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS

All bearings 14-7-2.
(lb) - Max Horiz 1=-166 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 11 except 1=-179 (LC 12), 8=-196 (LC 15), 10=-202 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 7, 11 except 8=463 (LC 22), 9=373 (LC 28), 10=448 (LC 21)

FORCES

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

TOP CHORD 1-2=-225/256

WEBS 3-10=-379/239, 5-8=-385/237

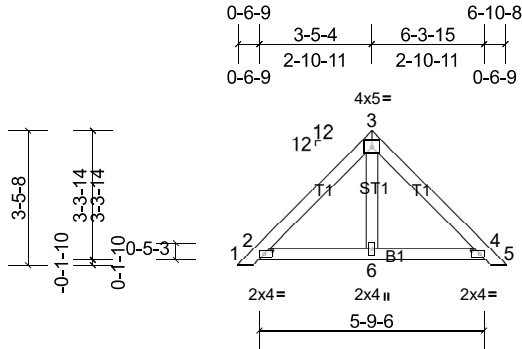
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-10 to 3-3-9, Interior (1) 3-3-9 to 4-3-9, Exterior(2R) 4-3-9 to 10-3-9, Interior (1) 10-3-9 to 11-3-9, Exterior(2E) 11-3-9 to 14-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 2 except (jt=lb) 1=179, 10=201, 8=196.
- 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	Isabelle-Roof-Isabelle GRH
24090030-A	PB2	Piggyback	11	1	Job Reference (optional)



Scale = 1:59.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 27 lb	FT = 20%

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

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

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

REACTIONS All bearings 5-9-6.
(lb) - Max Horiz 2=-76 (LC 12), 7=-76 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 10

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

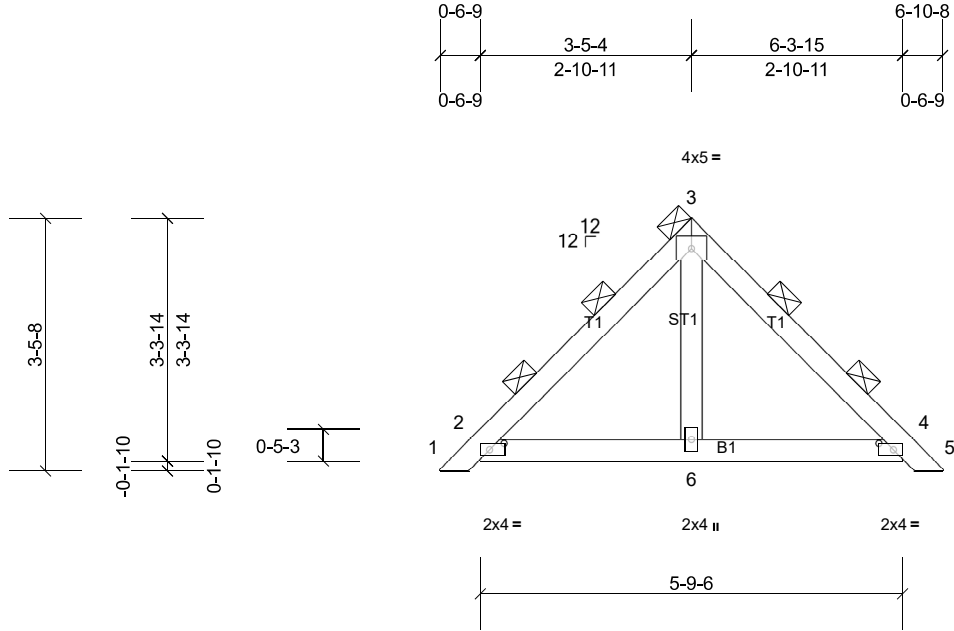
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB2GR	Piggyback	2	4	Job Reference (optional)

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Scale = 1:31.5

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

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
Weight: 108 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS

All bearings 5-9-6.
(lb) - Max Horiz 2=190 (LC 13), 7=190 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint
(s) except 2=619 (LC 21), 4=619
(LC 22), 6=441 (LC 21), 7=619 (LC
21), 10=619 (LC 22)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-427/173, 3-4=-427/158

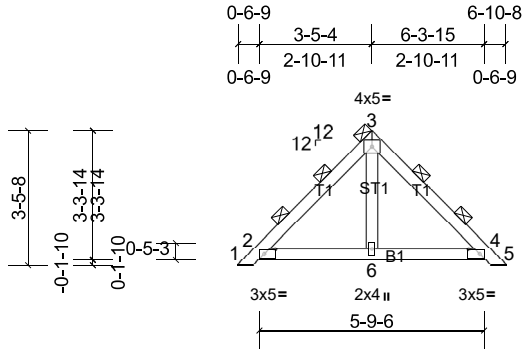
NOTES

- 4-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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	Isabelle-Roof-Isabelle GRH
24090030-A	PB2GRA	Piggyback	1	2	Job Reference (optional)



Scale = 1:59.3

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

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	2	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 54 lb	FT = 20%

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

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS All bearings 5-9-6.
(lb) - Max Horiz 2=190 (LC 13), 7=190 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint
(s) except 2=619 (LC 21), 4=619
(LC 22), 6=440 (LC 21), 7=619 (LC
21), 10=619 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-430/171, 3-4=-430/155

NOTES
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as
follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as
follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies,
except if noted as front (F) or back (B) face in the LOAD
CASE(S) section. Ply to ply connections have been
provided to distribute only loads noted as (F) or (B),
unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this
design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
II; Exp B; Enclosed; MWFRS (envelope) exterior zone
and C-C Exterior(2E) zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;
Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on
overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any 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.
 - One H2.5A Simpson Strong-Tie connectors
recommended to connect truss to bearing walls due to
UPLIFT at jt(s) 2 and 4. This connection is for uplift only
and does not consider lateral forces.
 - See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.
- LOAD CASE(S)** Standard

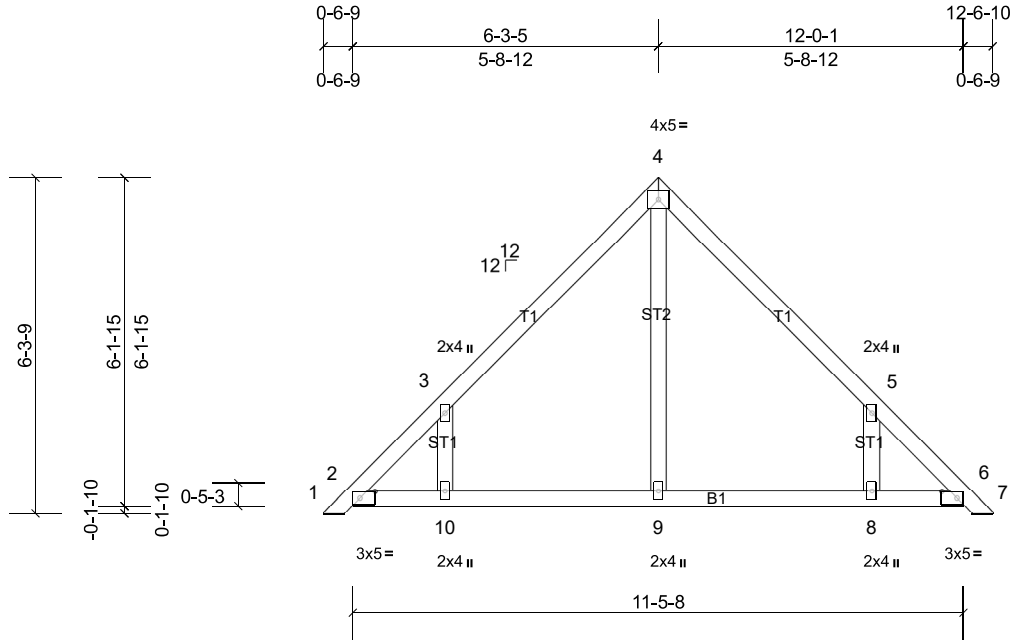
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB3	Piggyback	2	1	Job Reference (optional)

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Scale = 1:43.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 56 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS

All bearings 11-5-8.
(lb) - Max Horiz 2=-143 (LC 12), 11=-143 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 11, 14 except 8=-196 (LC 15), 10=-197 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 11, 14 except 8=434 (LC 22), 9=259 (LC 21), 10=434 (LC 21)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-400/244, 5-8=-400/243

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-10 to 3-2-10, Exterior(2R) 3-2-10 to 9-4-8, Exterior(2E) 9-4-8 to 12-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

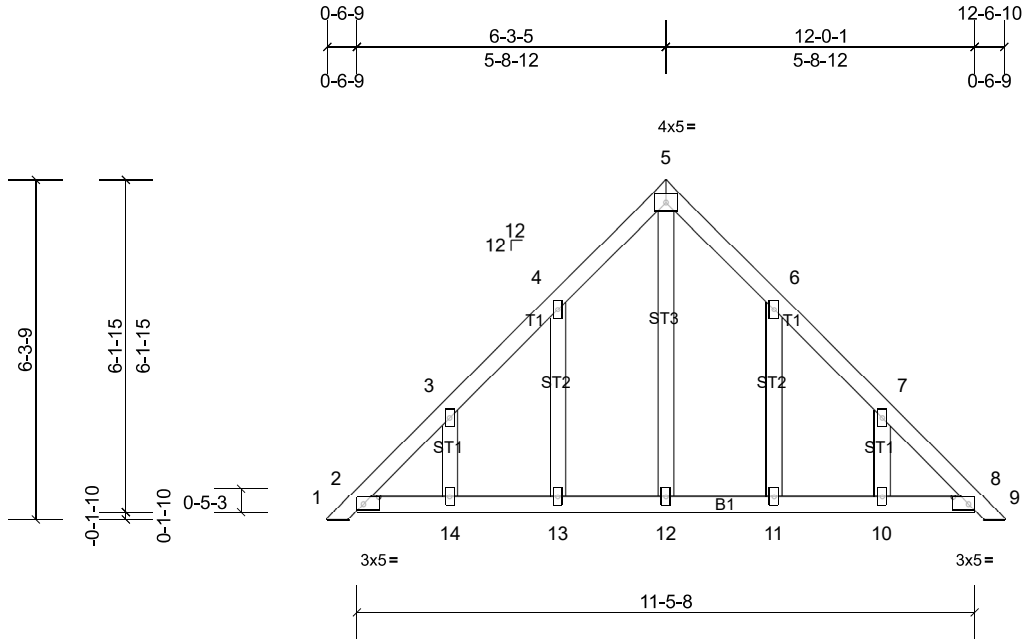
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB3GE	Piggyback	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:42.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	8	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 67 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS

All bearings 11-5-8.
(lb) - Max Horiz 2=-143 (LC 12), 15=-143 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s)
2, 8, 15, 18 except 10=-110 (LC 15), 11=-101 (LC 15), 13=-101 (LC 14), 14=-111 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 8, 10, 12, 14, 15, 18 except 11=283 (LC 22), 13=283 (LC 21)

FORCES

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

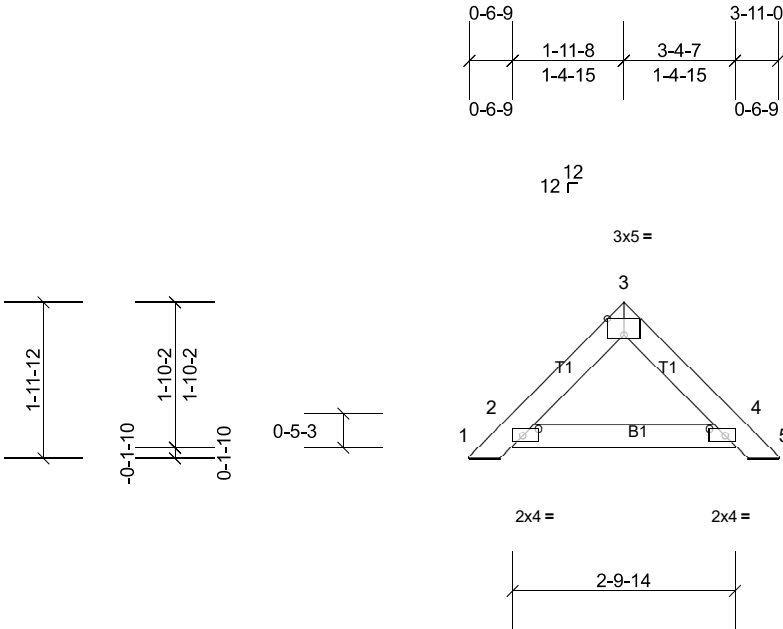
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-10 to 3-2-10, Exterior(2R) 3-2-10 to 9-4-8, Exterior(2E) 9-4-8 to 12-4-8 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 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 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 8, 13, 14, 11, and 10. This connection is for uplift only and does not consider lateral forces.
- 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	Isabelle-Roof-Isabelle GRH
24090030-A	PB5	Piggyback	8	1	Job Reference (optional)



Scale = 1:29.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS All bearings 2-9-14.
(lb) - Max Horiz 2=-41 (LC 12), 6=-41 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 9
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 9

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

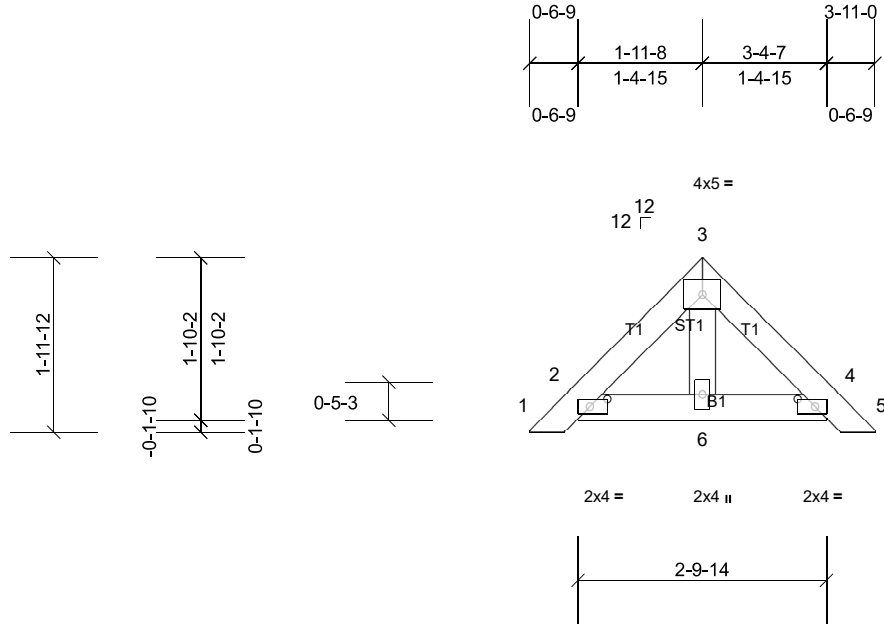
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB5GE	Piggyback	1	1	Job Reference (optional)

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Scale = 1:26.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS

All bearings 2-9-14.
(lb) - Max Horiz 2=-41 (LC 12), 7=-41 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 6, 7, 10
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 10

FORCES

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

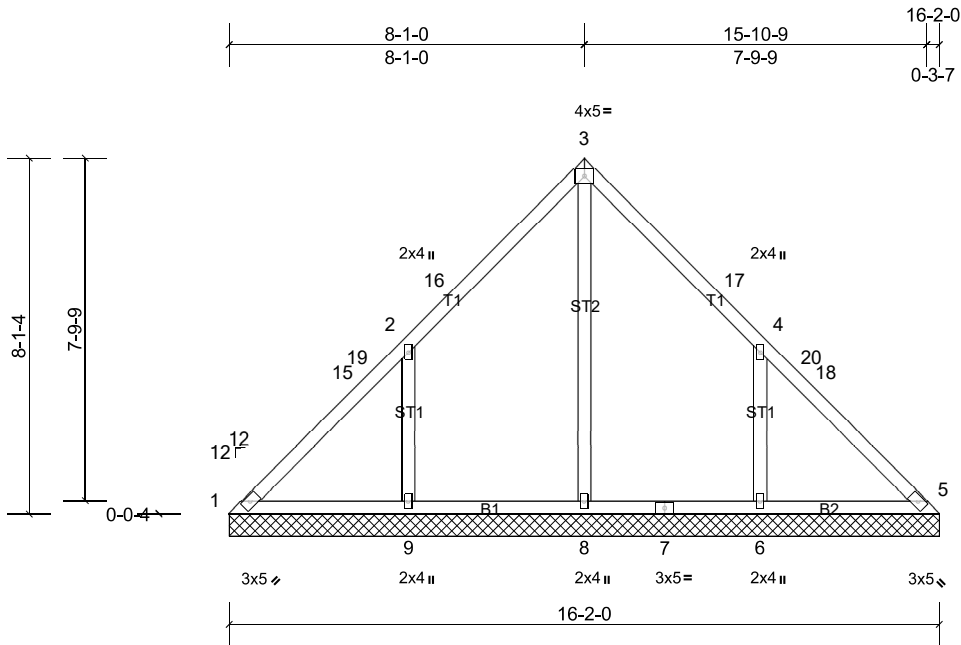
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 5) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, and 6. This connection is for uplift only and does not consider lateral forces.
- 12) 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	Isabelle-Roof-Isabelle GRH
24090030-A	V1	Valley	1	1	Job Reference (optional)



Scale = 1:52.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TP12014	Matrix-MSH							
BCDL	10.0										
										Weight: 78 lb	FT = 20%

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

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

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

- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 1, 230 lb uplift at joint 9 and 223 lb uplift at joint 6.

LOAD CASE(S) Standard

REACTIONS All bearings 16'-2-0".
(lb) - Max Horiz 1=185 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s)
5, 14 except 1=-103 (LC 10),
6=-224 (LC 15), 9=-231 (LC 14)
Max Grav All reactions 250 (lb) or less at joint
(s) 1, 5, 14 except 6=512 (LC 6),
8=683 (LC 27), 9=511 (LC 24)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 1-15=-158/297, 15-19=-136/347,
2-19=-133/374, 3-16=-22/331, 3-17=-22/303,
4-20=-1/264
WEBS 3-8=-485/0, 2-9=-395/261, 4-6=-396/258

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-1-4, Exterior(2R) 5-1-4 to 11-1-4, Interior (1) 11-1-4 to 12-10-4, Exterior(2E) 12-10-4 to 15-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

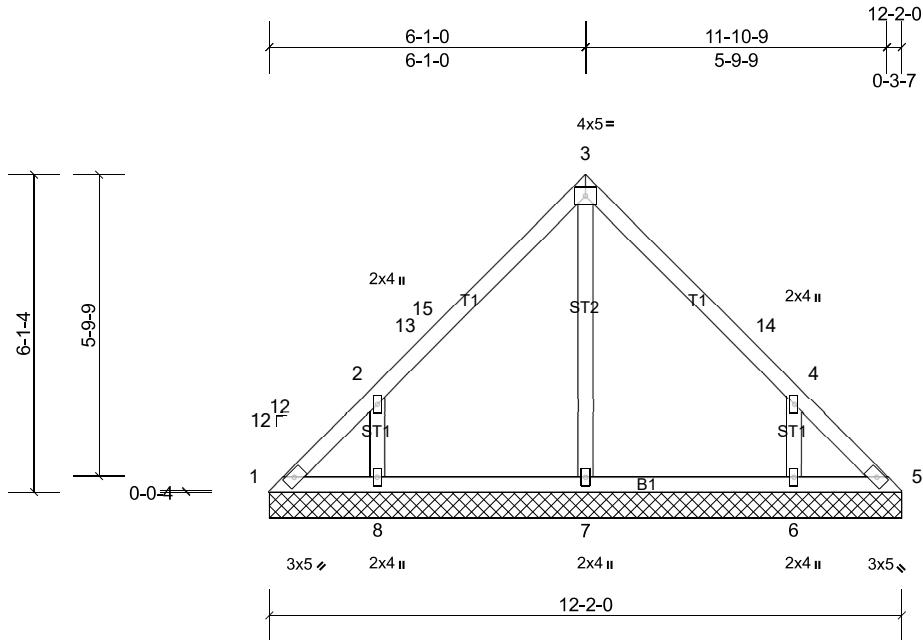
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V2	Valley	1	1	Job Reference (optional)

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Scale = 1:44.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TP12014	Matrix-MSH							
BCDL	10.0										
										Weight: 55 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
OTHERS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.	
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 5 except (jt=lb) 8=178, 6=173.

LOAD CASE(S) Standard

REACTIONS		All bearings 12'-2-0.
(lb) - Max Horiz	1=138 (LC 10)	
Max Uplift	All uplift 100 (lb) or less at joint(s) 1, 5 except 6=173 (LC 15), 8=178 (LC 14)	
Max Grav	All reactions 250 (lb) or less at joint (s) 1, 5, 7 except 6=447 (LC 21), 8=447 (LC 20)	
FORCES		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-8=407/271, 4-6=407/271	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0'-0-4 to 3'-0-4, Exterior(2R) 3'-0-4 to 9'-2-4, Exterior(2E) 9'-2-4 to 12'-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

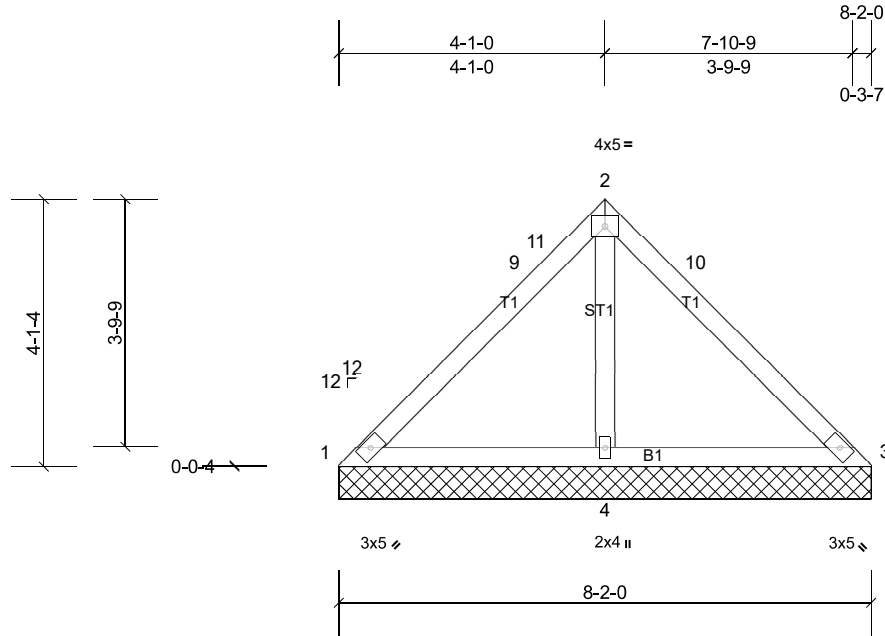
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V3	Valley	1	1	Job Reference (optional)

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Scale = 1:35.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1, 35 lb uplift at joint 3 and 126 lb uplift at joint 4.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=33/8-2-0, (min. 0-1-8),
3=33/8-2-0, (min. 0-1-8),
4=588/8-2-0, (min. 0-1-8)
Max Horiz 1=92 (LC 11)
Max Uplift 1=-35 (LC 21), 3=-35 (LC 20),
4=-126 (LC 14)
Max Grav 1=87 (LC 20), 3=87 (LC 21), 4=643 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-11=-111/275, 2-10=-113/275

WEBS 2-4=-526/289

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 5-2-4, Exterior(2E) 5-2-4 to 8-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

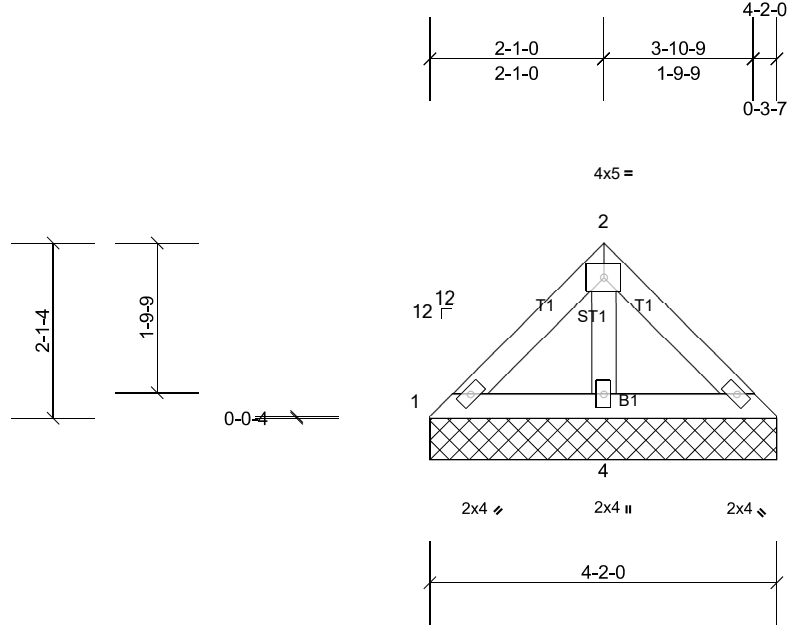
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V4	Valley	1	1	Job Reference (optional)

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Scale = 1:27.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

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

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 3 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard

REACTIONS (lb/size) 1=50/4-2-0, (min. 0-1-8), 3=50/4-2-0, (min. 0-1-8), 4=233/4-2-0, (min. 0-1-8)
Max Horiz 1=45 (LC 13)
Max Uplift 3=-3 (LC 15), 4=-33 (LC 14)
Max Grav 1=83 (LC 20), 3=83 (LC 21), 4=240 (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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.