

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

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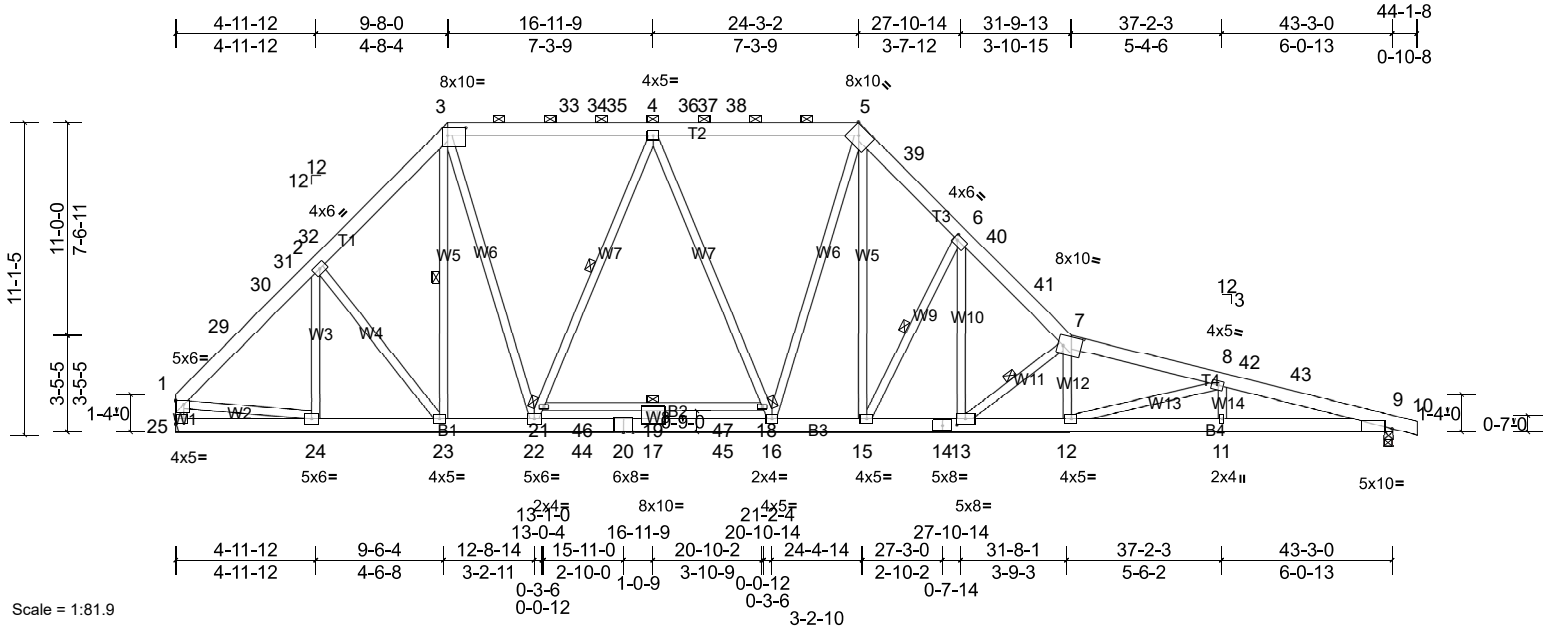


Plate Offsets (X, Y): [1:0-2-8,0-1-12], [3:0-7-12,0-3-4], [5:0-3-14,Edge], [6:0-1-4,0-2-0], [7:0-8-0,0-4-8], [9:0-3-1,Edge], [13:0-3-8,0-2-8]

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	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.60	12-13	>866	180		
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**
- 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) 0-1-12 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
  - 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.
  - 200.0lb AC unit load placed on the bottom chord, 16-11-9 from left end, supported at two points, 5-0-0 apart.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 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.
  - Refer to girder(s) for truss to truss connections.
  - 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

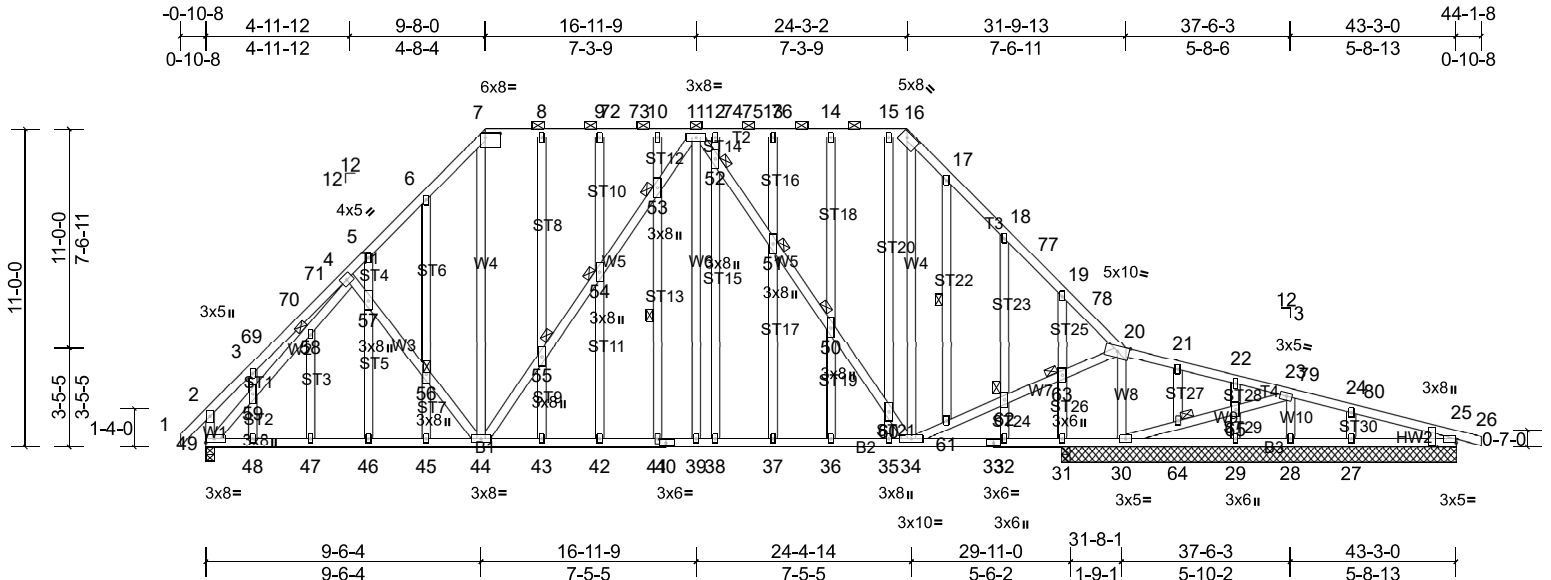
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SE	Piggyback Base Structural Gable	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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**

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.

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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

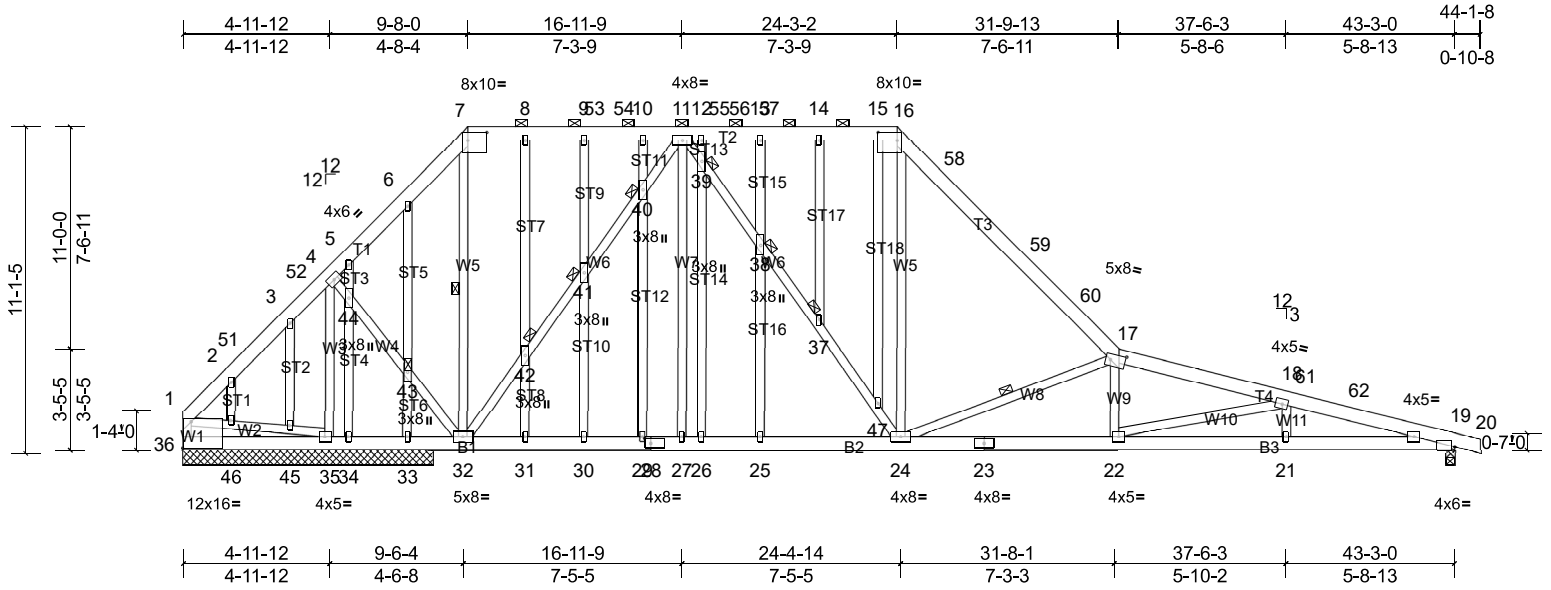
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	A1SEA	Piggyback Base Structural Gable	1	1	Job Reference (optional)

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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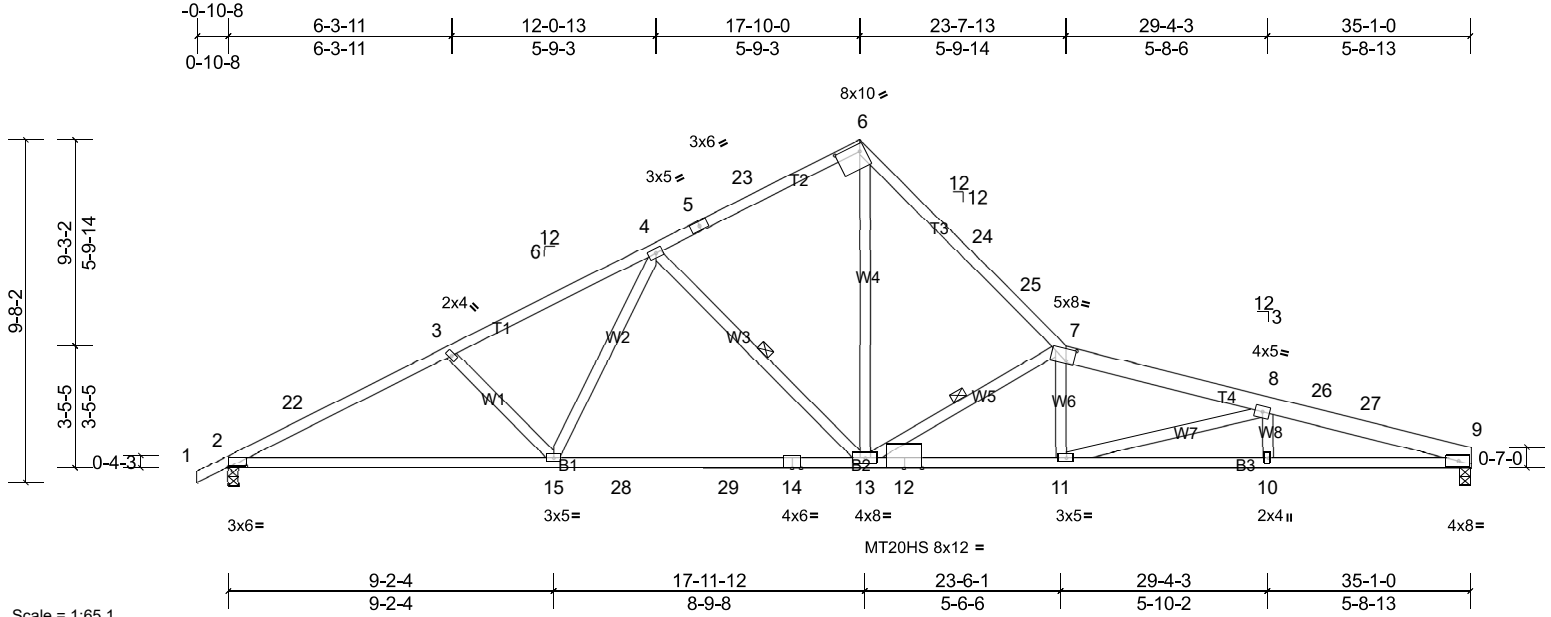


Plate Offsets (X, Y): [2:0-6-0,0-0-6], [6:0-8-2,0-2-8], [7:0-2-12,0-4-0]

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

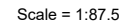
1) Unbalanced roof live loads have been considered for this  
design.

- 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
- 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 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, with BCDL = 10.0psf.
- 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



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 14:25:40 Page: ID:laatkPVGN8e2nl1Xf6hIKyaipV-Tk8P alxnZRdfBdE3J78OMLb4dP9Y8o5J8lNj zlxT9



<b>LUMBER</b>		<b>WEBS</b>	
TOP CHORD	2x6 SP No.2 *Except* T1,T4:2x6 SP 2400F 2.0E		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,
BOT CHORD	2x4 SP No.2 *Except* B1:2x4 SP No.1		11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) apply only to room. 26-28, 24-26, 22-24, 20-22, 17-20, 15-17, 14-15
WEBS	2x4 SP No.2 *Except* W3,W9,W2,W12,W8,W6,W7,W10:2x4 SP No.3		12) Refer to girder(s) for truss to truss connections. 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

For 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,	10-14=0/2535	
<b>NOTES</b>			

BOT CHORD	Rigid ceiling directly applied or 3-0-5 oc bracing.	1) Unbalanced roof live loads have been considered for this design.
WEBS	1 Row at midpt 10-11	2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
JOINTS	1 Brace at Jt(s): 15, 26, 17, 24, 33	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone

<p>MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.</p>	<p>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 &amp; MWERS for reactions shown; Lumber</p>
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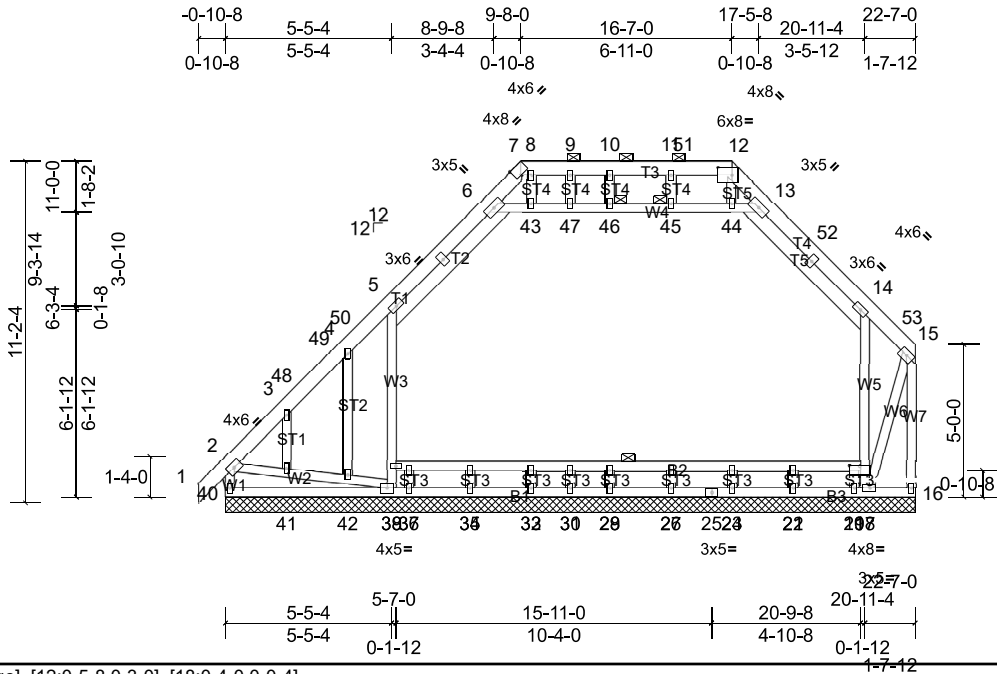
<b>REACTIONS</b>	(lb/size)	11=1311/ Mechanical, (min. 0-1-8), 30=1256/0-3-8, (min. 0-1-14)	3)	DOL=1.60 plate grip DOL=1.60
	Max Horiz	30=251 (LC 11)		TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9;
	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	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.
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	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, 4-31, 31-33, 32-33, 8-32; Wall dead load (5.0psf) on member (s).3-28, 9-14



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

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

- 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 2-5-2, 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).

- 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.

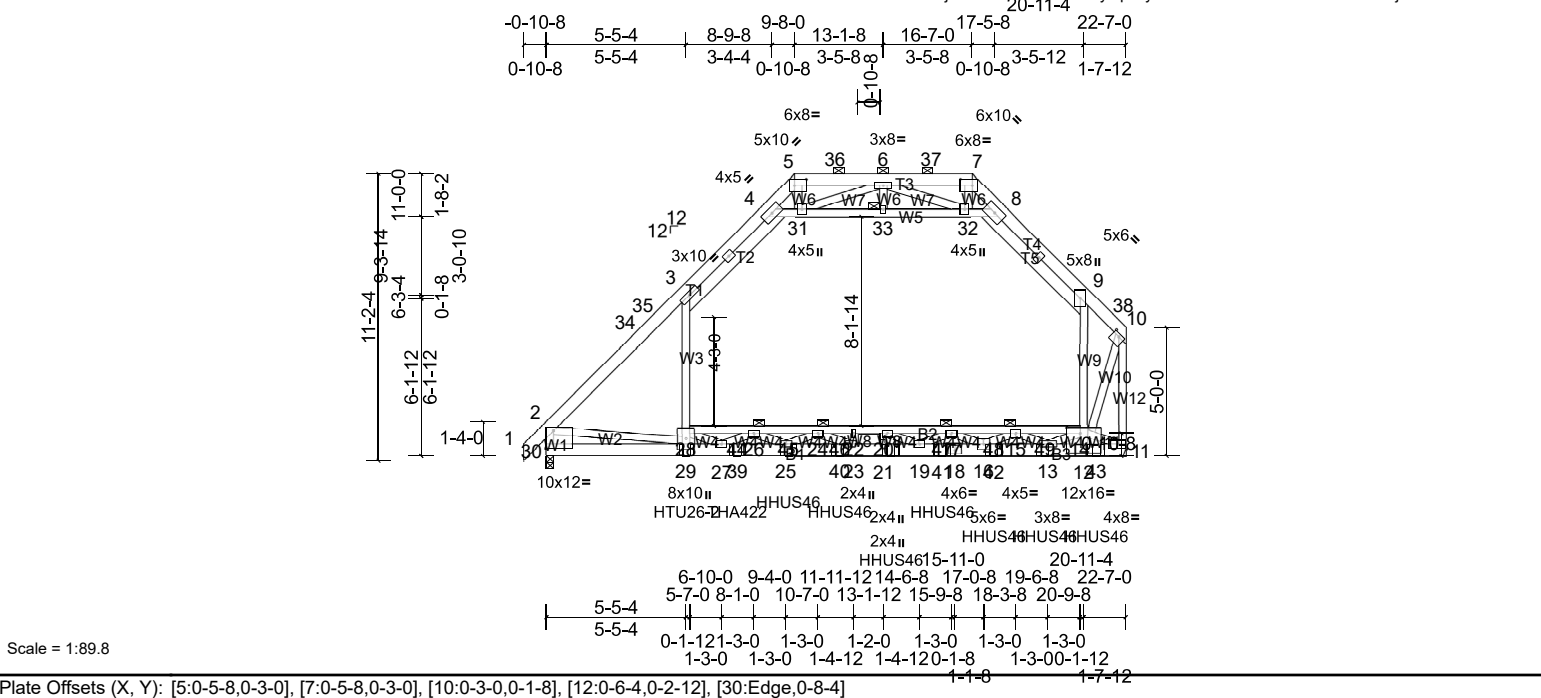
**LOAD CASE(S)** Standard

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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Page: 1



<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.24	23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.35	23-25	>756	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.16	14-28	>999	360		
BCDL	10.0											
Weight: 1049 lb FT = 20%												

**LUMBER**

TOP CHORD 2x6 SP No.2 \*Except\* T1,T4:2x6 SP 2400F 2.0E

BOT CHORD 2x6 SP No.2 \*Except\* B2:2x4 SP No.2, B1:2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 \*Except\* W5,W4,W11:2x4 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 (10-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 15, 26, 17, 24, 33

**REACTIONS** (lb/size) 11=2456/ Mechanical, (min. 0-1-8), 30=2765/0-3-8, (min. 0-1-8)

Max Horiz 30=319 (LC 9)

Max Uplift 30=-76 (LC 12)

Max Grav 11=5238 (LC 19), 30=4163 (LC 47)

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

TOP CHORD 2-34=-4356/0, 34-35=-4193/0, 3-35=-4161/0, 3-4=-2074/22, 4-5=0/1634, 5-36=0/2616, 6-36=0/2616, 6-37=-203/3136, 7-37=-203/3136, 7-8=-99/1882, 8-9=-2207/109, 9-38=-4708/0, 10-38=-4725/0, 2-30=-3830/0, 10-11=-9770/0

BOT CHORD 29-30=-442/1611, 27-29=-242/2955, 27-39=0/9500, 25-39=0/9500, 25-40=0/12768, 23-40=0/12768, 21-23=0/13127, 19-21=0/13127, 19-41=-115/8595, 18-41=-115/8595, 16-18=-115/8595, 16-42=-1900/1633, 13-42=-1900/1633, 12-13=-9095/372, 12-43=-8364/400, 11-43=-8364/400, 28-44=-4630/179, 26-44=-4630/179, 26-45=-9515/0, 24-45=-9515/0, 24-46=-10723/0, 22-46=-10723/0, 20-22=-10723/0, 20-47=-8567/261, 17-47=-8567/261, 17-48=-3470/1750, 15-48=-3470/1750, 15-49=-1061/7329, 14-49=-1061/7329

**NOTES**

1) 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 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-29 2x4 - 1 row at 0-7-0 oc.  
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.

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; 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.

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), 3-4, 8-9, 4-31, 31-33, 32-33, 8-32; Wall dead load (5.0psf) on member (s), 3-28, 9-14

13) 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

14) Refer to girder(s) for truss to truss connections.

15) LGT4-SDS3 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30. This connection is for uplift only and does not consider lateral forces.

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

17) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 5-5-8 from the left end to connect truss(es) LGR (2 ply 2x6 SP) to front face of bottom chord.

18) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 7-5-4 from the left end to connect truss(es) FL12 (1 ply 2x4 SP) to front face of bottom chord.

19) Use Simpson Strong-Tie HHUS46 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 9-5-4 from the left end to 21-5-4 to connect truss(es) FL12 (1 ply 2x4 SP) to front face of bottom chord.

20) Fill all nail holes where hanger is in contact with lumber.

21) WARNING: The following hangers are manually applied but fail due to geometric considerations: THA422 on front face at 7-5-4 from the left end.

22) LGT4 Hurricane ties must have four studs in line below the truss.

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

Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C2	Attic	3	1	Job Reference (optional)

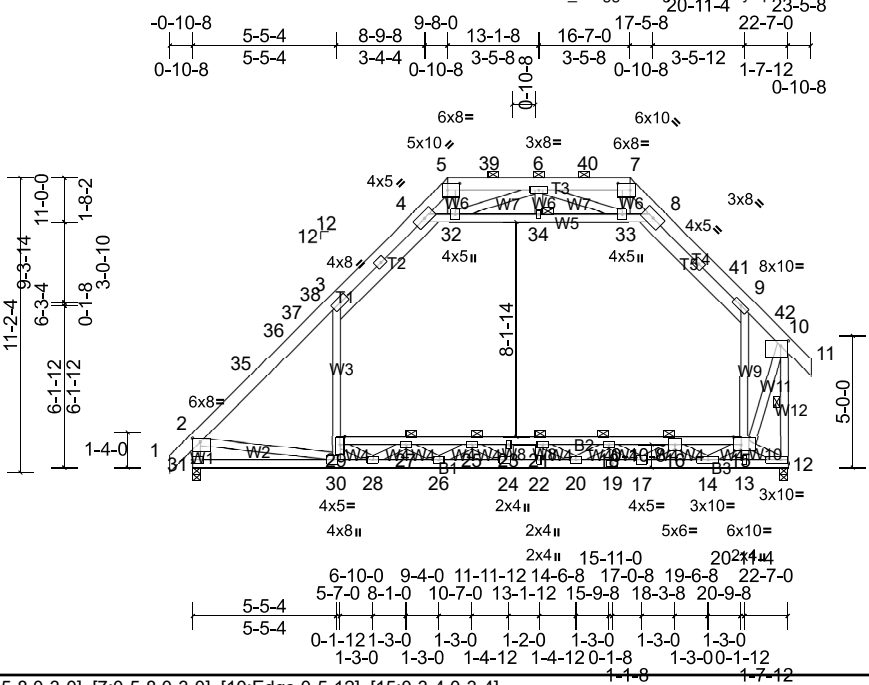


Plate Offsets (X, Y): [2:Edge,0-4-4], [5:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:Edge,0-5-12], [15:0-3-4,0-3-4]										
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	<b>PLATES</b>	<b>GRIP</b>
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.25	23-25	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.44	24-26		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.04	12		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		Attic	-0.17	15-29		
BCDL	10.0									
									Weight: 249 lb FT = 20%	

<b>LUMBER</b>		<b>WEBS</b>			
TOP CHORD	2x6 SP No.2 *Except* T1,T4:2x6 SP 2400F 2.0E	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			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
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.
<b>BRACING</b>		<b>NOTES</b>			<b>LOAD CASE(S)</b> Standard
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.	1) Unbalanced roof live loads have been considered for this design.			
BOT CHORD	Rigid ceiling directly applied or 3-0-5 oc bracing.	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			
WEBS	1 Row at midpt 10-12	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			
JOINTS	1 Brace at Jt(s): 16, 27, 18, 25, 34	4) Unbalanced snow loads have been considered for this design.			
	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 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.			
<b>REACTIONS</b>	(lb/size) 12=1374/0-3-8, (min. 0-2-4), 31=1255/0-3-8, (min. 0-1-14) Max Horiz 31=330 (LC 13) Max Grav 12=1909 (LC 48), 31=1609 (LC 48)	6) Provide adequate drainage to prevent water ponding.			
<b>FORCES</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	7) All plates are 3x5 MT20 unless otherwise indicated.			
TOP CHORD	2-35=-1738/0, 35-36=-1615/0, 36-37=-1575/0, 37-38=-1544/0, 3-38=-1514/0, 3-4=-1112/129, 4-5=-445/364, 5-39=-237/632, 6-39=-237/632, 6-40=-52/957, 7-40=-52/957, 7-8=-360/504, 8-41=-1037/125, 9-41=-1192/92, 9-42=-1538/0, 10-42=-1605/0, 2-31=-1619/0, 10-12=-3714/0	8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.			
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	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			

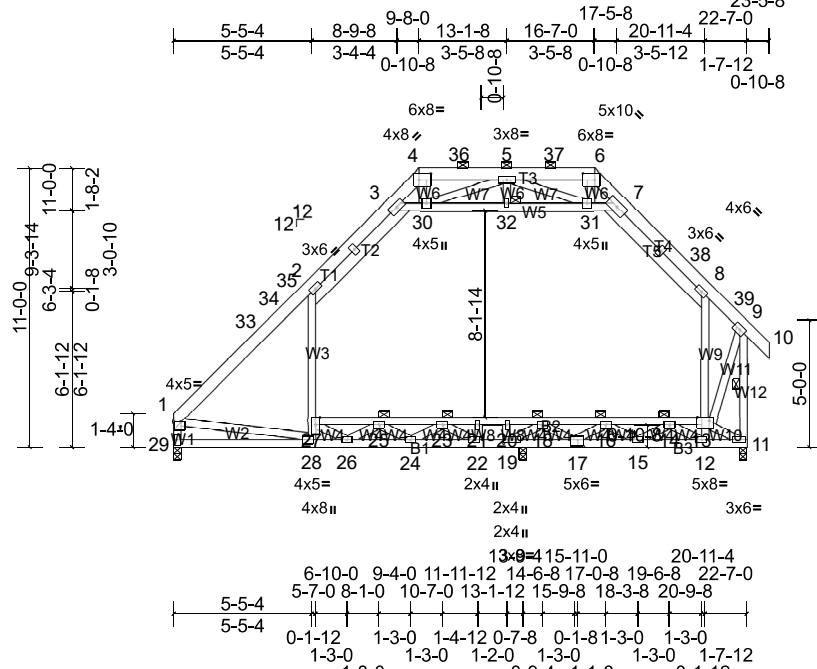
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	C3	Attic	3	1	Job Reference (optional)

Carter Components, Sanford, NC, user

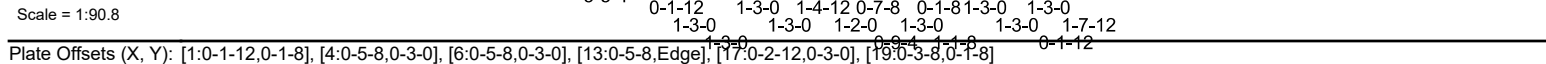
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Carter Components, Sanford, NC, user Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:25:44 Page: ID:FDD2vjAvz1IZG BGDx8aKvaipC-MWOvqxLSrnX28ox?I9B4ZCWlqEI3T bhDmjbszlXt5



<b>LUMBER</b>		<b>WEBS</b>	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	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.
TOP CHORD	2x6 SP No.2			
BOT CHORD	2x4 SP No.2			
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.2			
<b>BRACING</b>				
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			
<b>REACTIONS</b> (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)	<b>NOTES</b> 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	<b>LOAD CASE(S)</b> Standard	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
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	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.
BOT CHORD	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	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.

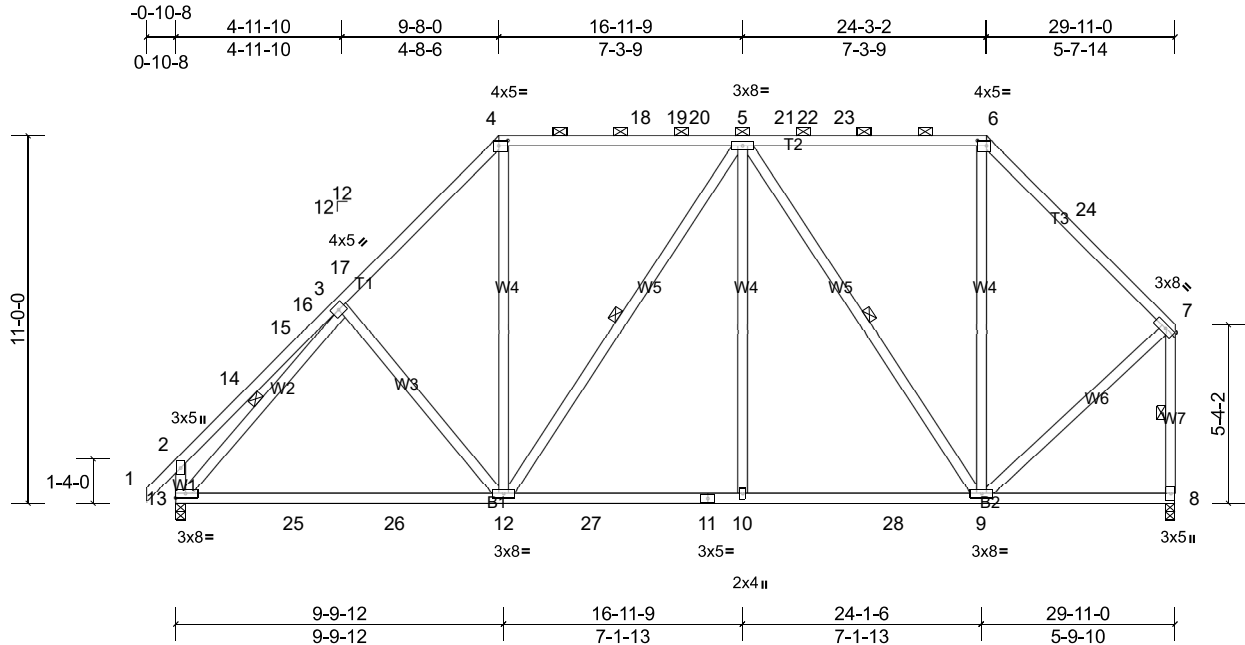
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	D1	Piggyback Base	3	1	Job Reference (optional)

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

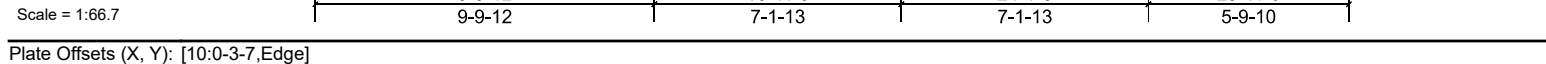
#### NOTES

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

- 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 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) 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 8. 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

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 14:25:45 Page: ID:1f1W0bn4xNhMq6Q?faVw9yaiq1-qixl2HM4c53vlyWCssjJ5Q3Pre9fCTxqSQS80CzIXt4



<b>LUMBER</b>		<b>WEBS</b>	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	13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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			<b>LOAD CASE(S)</b> Standard

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



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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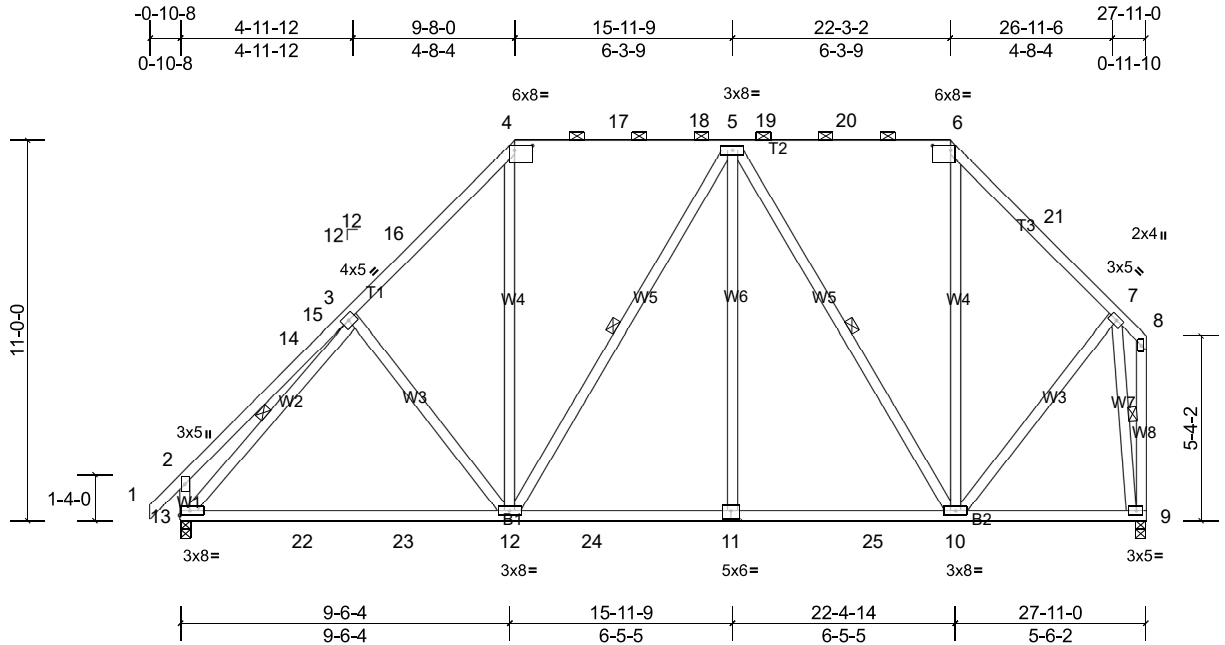


Plate Offsets (X, Y): [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [11:0-3-0,0-3-0]

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

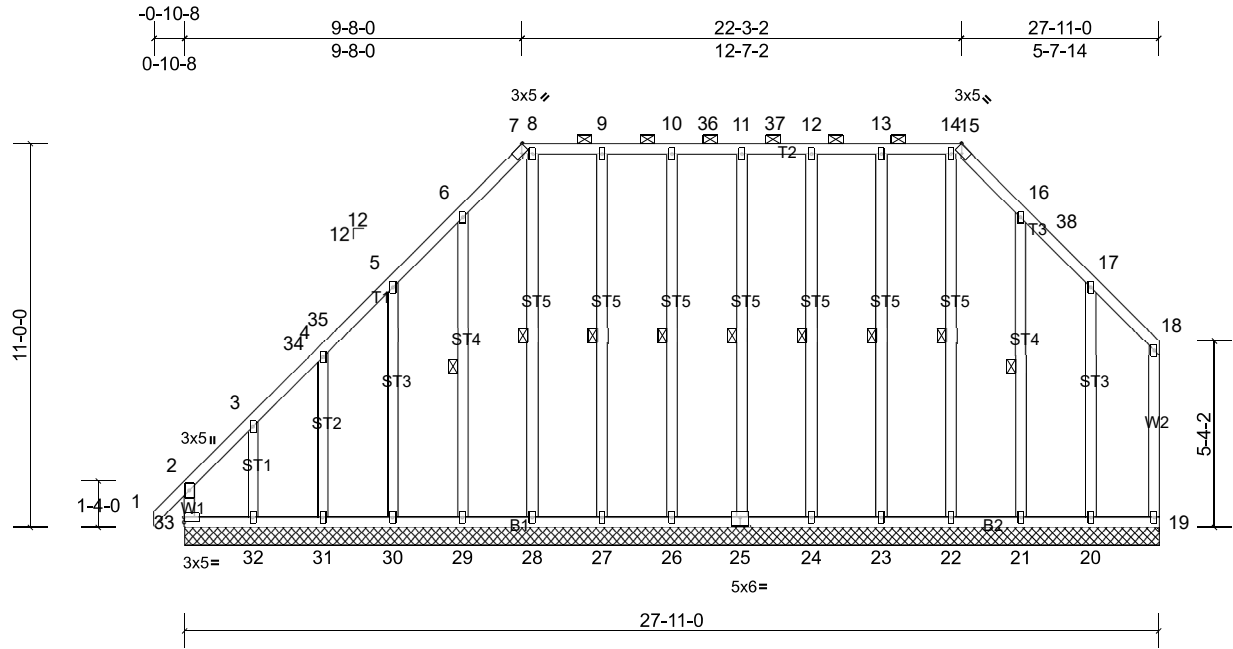
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	E1GE	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:66

Plate Offsets (X, Y): [7:0-2-8,Edge], [15:0-2-8,Edge], [25:0-3-0,0-3-0]

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	0.43	Vert(LL)	n/a	-	n/a	999	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	19	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 269 lb FT = 20%											

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.2 *Except* ST4,ST3,ST2,ST1:2x4 SP No.3

<b>BRACING</b>	
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

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

<b>REACTIONS</b>	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)

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

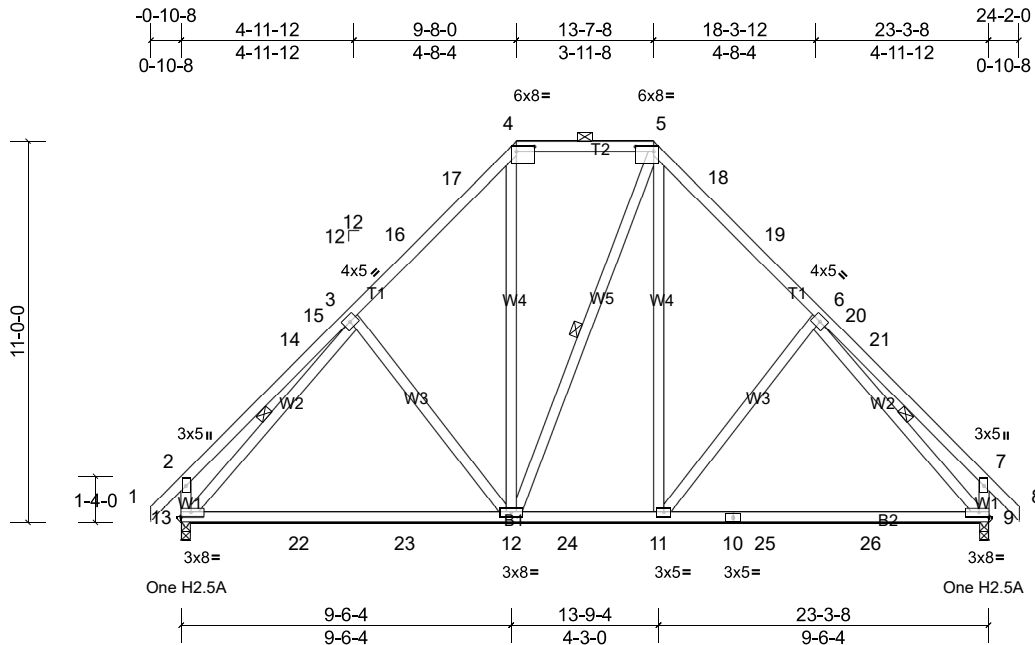
#### NOTES

- 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 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
- 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.
- Provide adequate drainage to prevent water ponding.
- 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 2-0-0 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) 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.

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	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]

<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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%												

<b>LUMBER</b>	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
<b>BRACING</b>	
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.	
<b>REACTIONS</b> (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)	
<b>FORCES</b> (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)

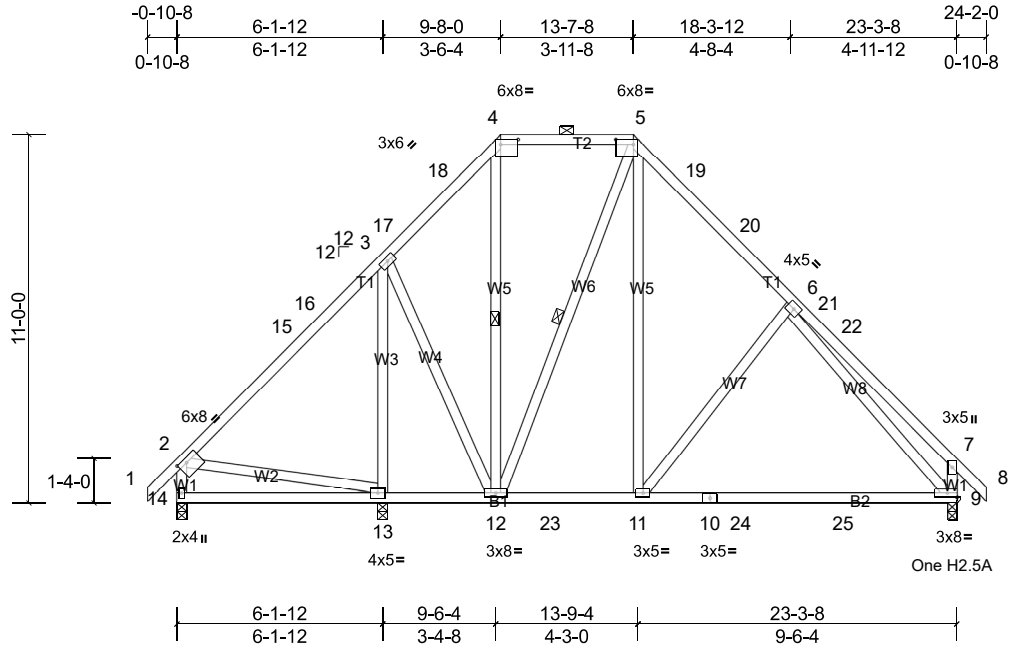


Plate Offsets (X, Y): [2:0-3-4,0-1-8], [4:0-6-4,0-1-12], [5:0-6-4,0-1-12]

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	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.49	9-11	>414	180		
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)

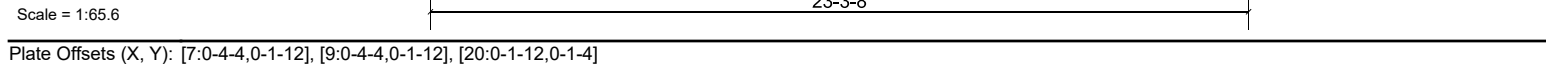
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-15=-352/87, 3-17=-615/290, 17-18=-586/292, 4-18=-482/317, 4-5=-354/257, 5-19=-619/346, 19-20=-665/328, 6-20=-817/320, 6-21=-247/280, 21-22=-247/276, 7-22=-373/258, 2-14=-405/117, 7-9=-391/253  
BOT CHORD 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

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<b>LUMBER</b>			
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		
<b>BRACING</b>			
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.		
<b>REACTIONS</b>			
(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)		
<b>FORCES</b>			
(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		
<b>NOTES</b>			
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.		
<b>LOAD CASE(S)</b>			
	Standard		

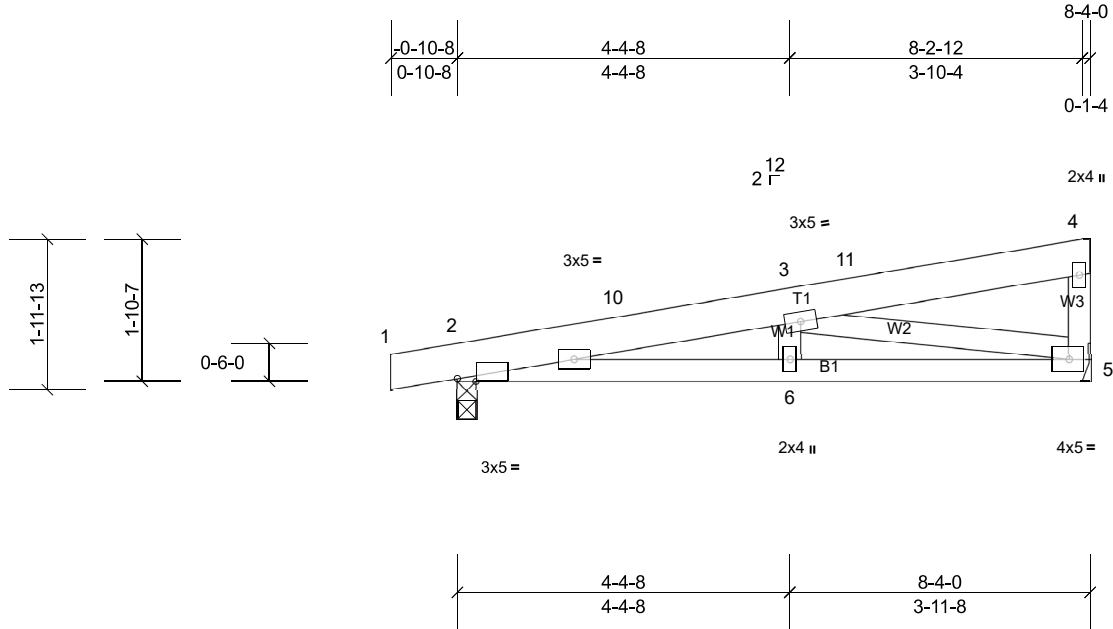
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP01	Half Hip	1	1	Job Reference (optional)

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	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.05	6-9	>999	180		
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)

Carter Components, Sanford, NC, user

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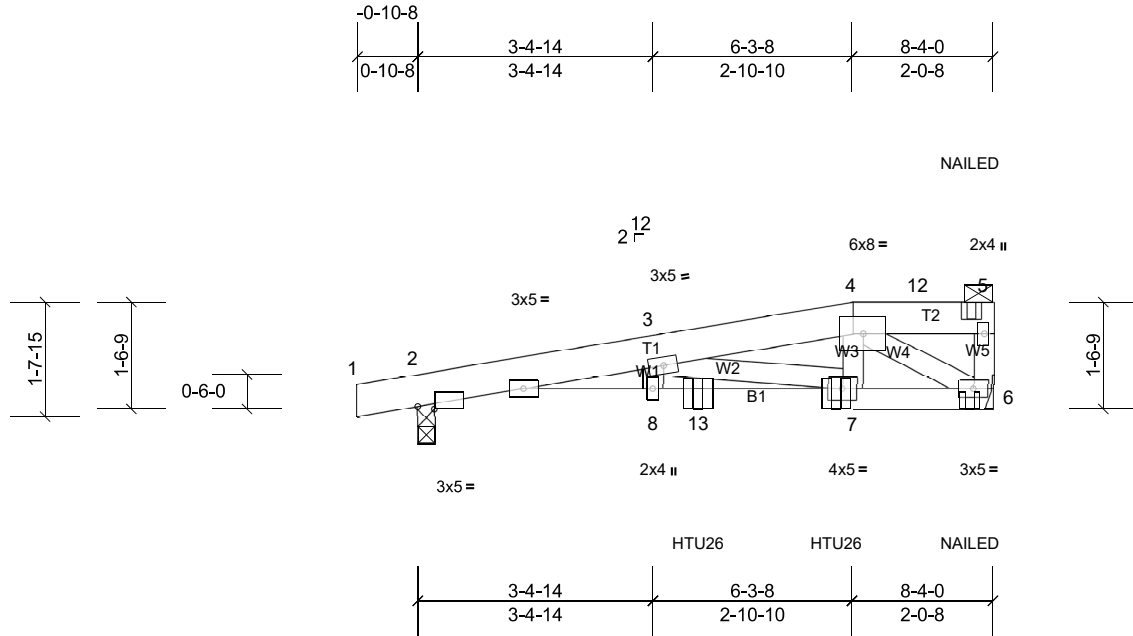


Plate Offsets (X, Y): [2:0-3-0,Edge]

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

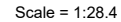
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 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)

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 14:25:48 Page: 1  
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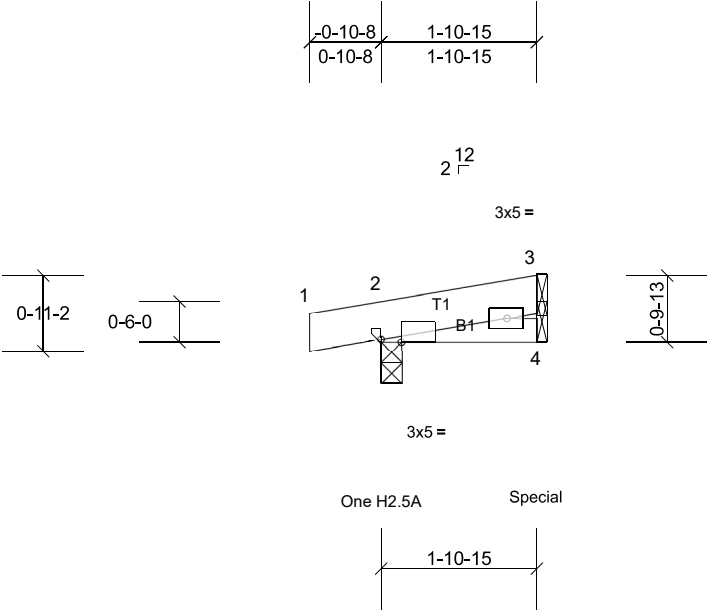
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCELL: 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 any 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.

- LOAD CASE(S) Standard



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

Carter Components, Sanford, NC, user



Scale = 1:28.3

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

<b>loading</b>	(psf)	<b>Spacing</b>	1-11-4	<b>CSI</b>		<b>DEFL</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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.

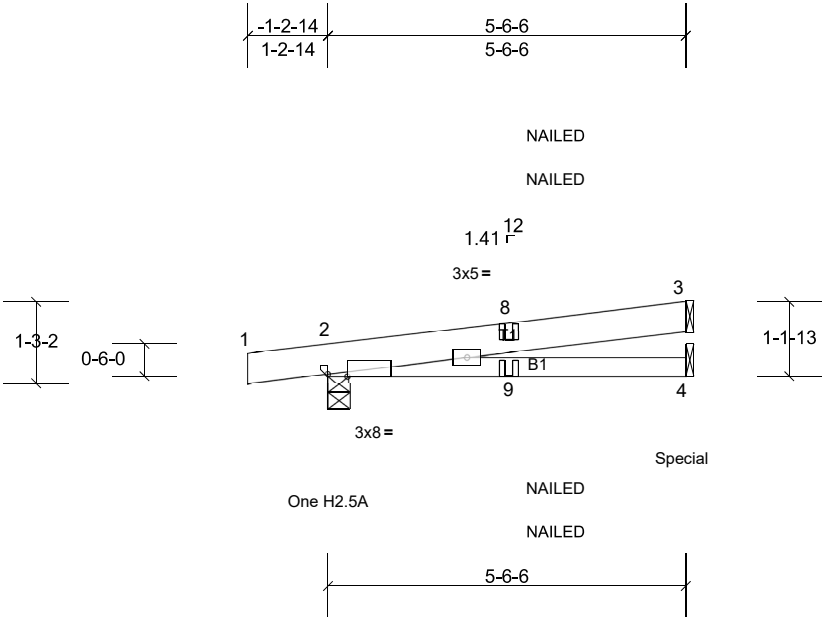
**REACTIONS** (lb/size)  
2=136/0-3-0, (min. 0-1-8), 3=44/  
Mechanical, (min. 0-1-8), 4=18/  
Mechanical, (min. 0-1-8)  
Max Horiz 2=18 (LC 10)  
Max Uplift 2=-48 (LC 10), 3=-5 (LC 14), 4=-5 (LC 14)  
Max Grav 2=166 (LC 21), 3=52 (LC 21), 4=21 (LC 21)

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

- 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

- 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.

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)

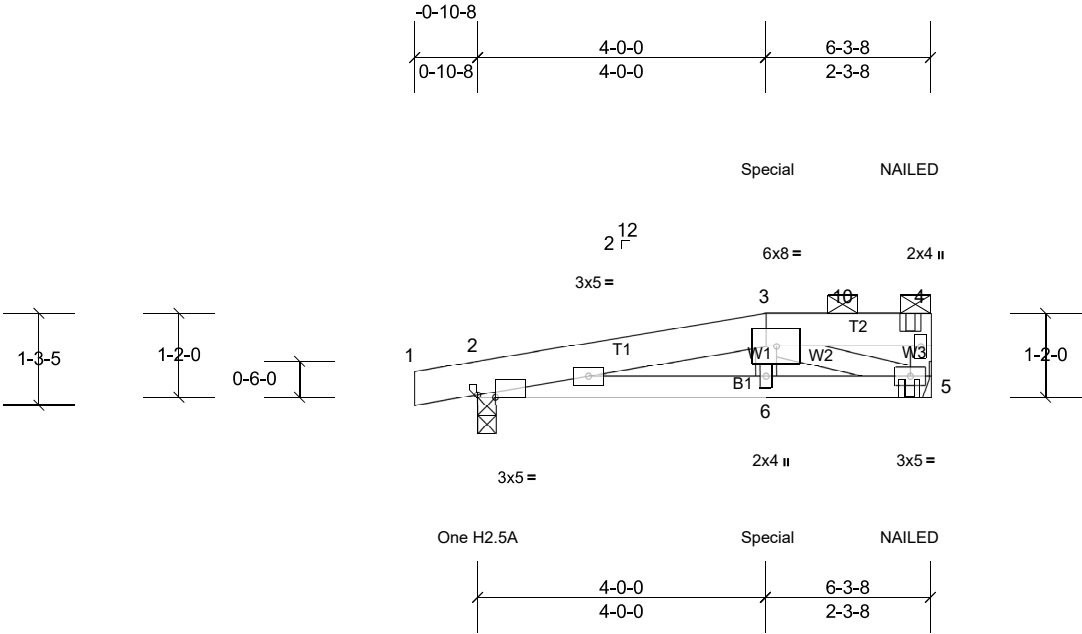
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.

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

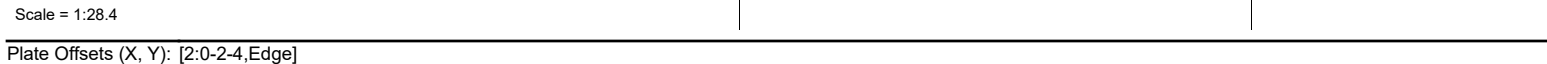
Plate Offsets (X, Y): [2:0-3-0,Edge]

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	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), 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**
- 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 58 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.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 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.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (lb/ft)  
Vert: 1-3=-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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<b>LUMBER</b>		8) Refer to girder(s) for truss to truss connections.
TOP CHORD	2x6 SP No.2	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4.
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	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.
<b>BRACING</b>		
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	
<b>LOAD CASE(S)</b>		Standard

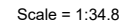
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD** 2-8=-280/117

## 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=1.10
- 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) 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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MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

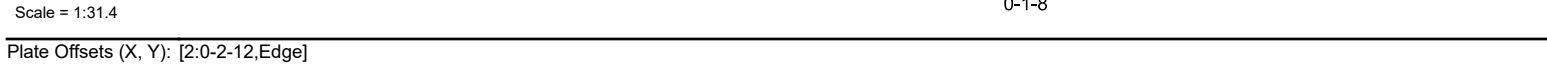
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 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

TOP CHORD 2-3=-667/346  
BOT CHORD 2-6=-391/658  
WEBS 3-6=-668/396

- 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 live load of 20.0 psf on overhangs non-concurrent with other live loads.

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<b>LUMBER</b>		7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
TOP CHORD	2x6 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
<b>BRACING</b>		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.
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.	
<b>REACTIONS</b>		<b>LOAD CASE(S)</b> Standard
	(lb/size) 2=282/0-3-0, (min. 0-1-8), 4=223/0-1-8, (min. 0-1-8)	
	Max Horiz 2=41 (LC 13)	
	Max Uplift 2=-68 (LC 10), 4=-37 (LC 14)	
	Max Grav 2=358 (LC 21), 4=280 (LC 21)	
<b>FORCES</b>		
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-8=-262/117	

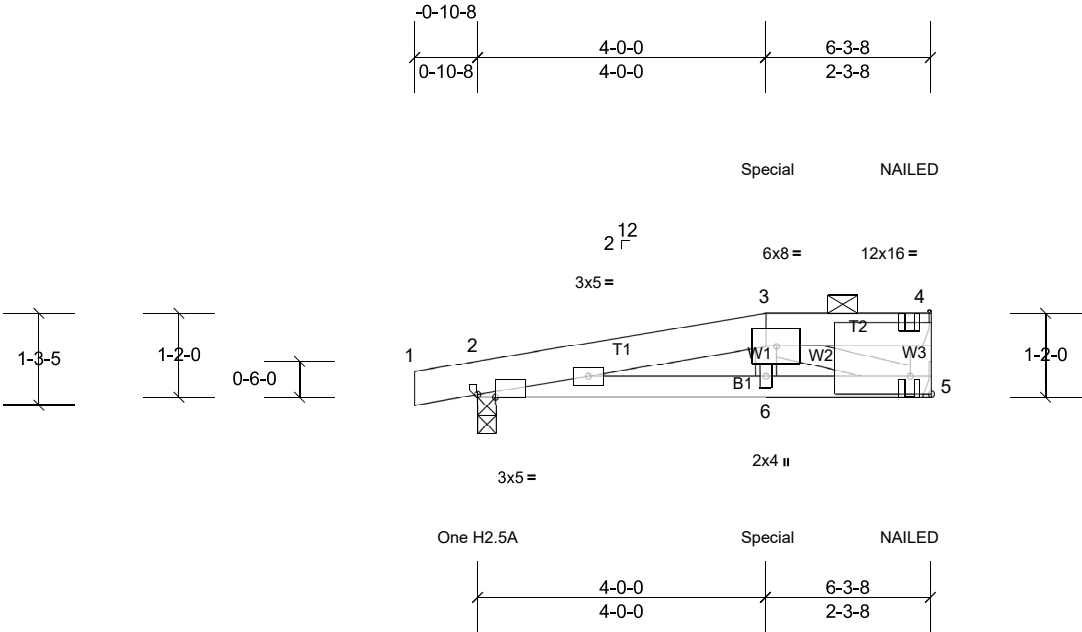
- ## NOTES
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-10-4, Exterior(2E) 2-10-4 to 5-10-4 zone; cantilever left and right exposed ; 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.

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 14:25:50 Page: 1  
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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]

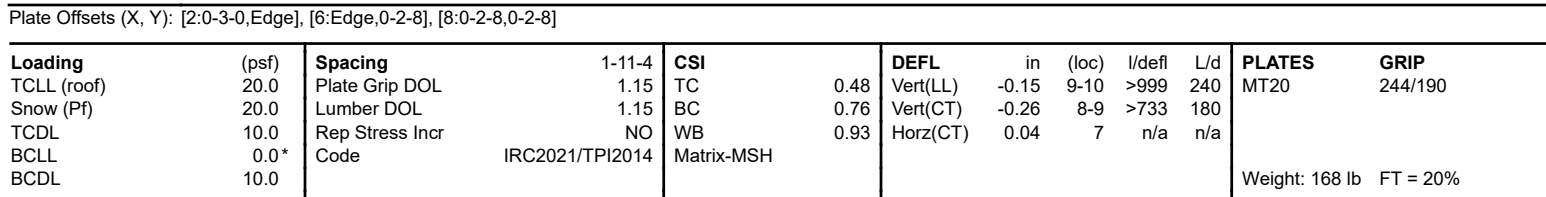
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.03	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	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**
- 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 45 lb uplift at joint 4 and 15 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.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 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.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (lb/ft)
  - Vert: 1-3=-58, 3-4=-58, 5-7=-19
  - Concentrated Loads (lb)
  - Vert: 4=-112 (F), 6=-51 (F), 3=-212 (F), 5=-28 (F)



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## 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.

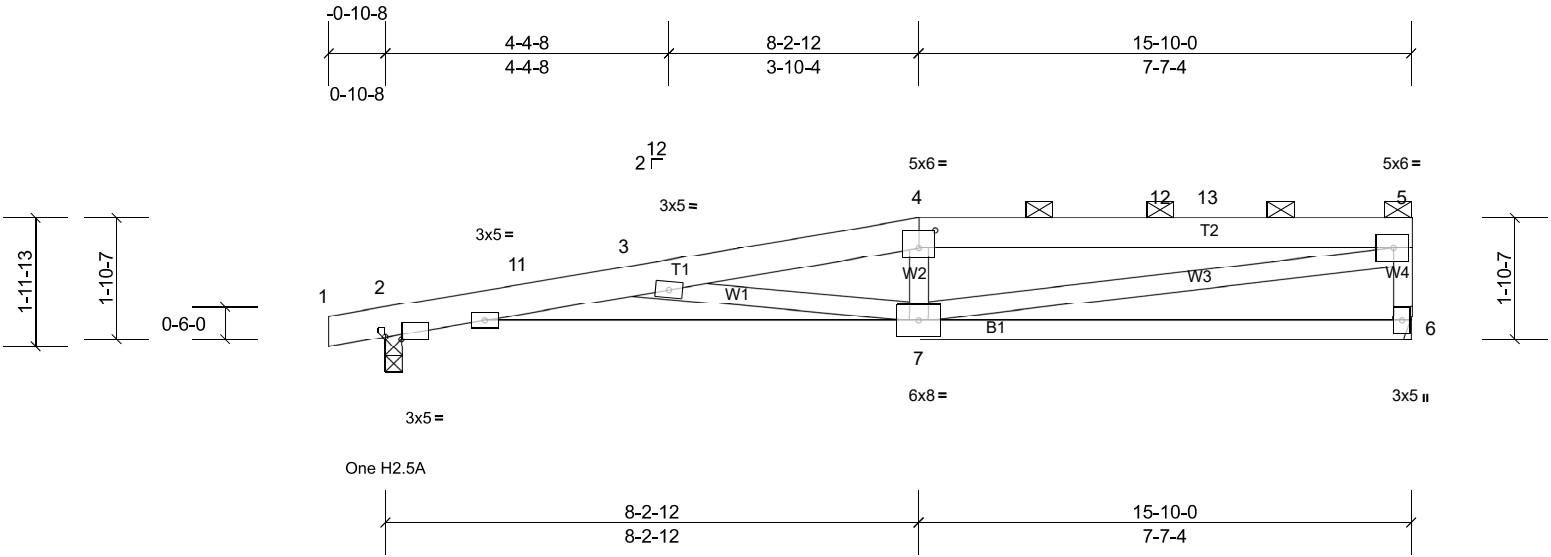
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP13	Half Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:35.6

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

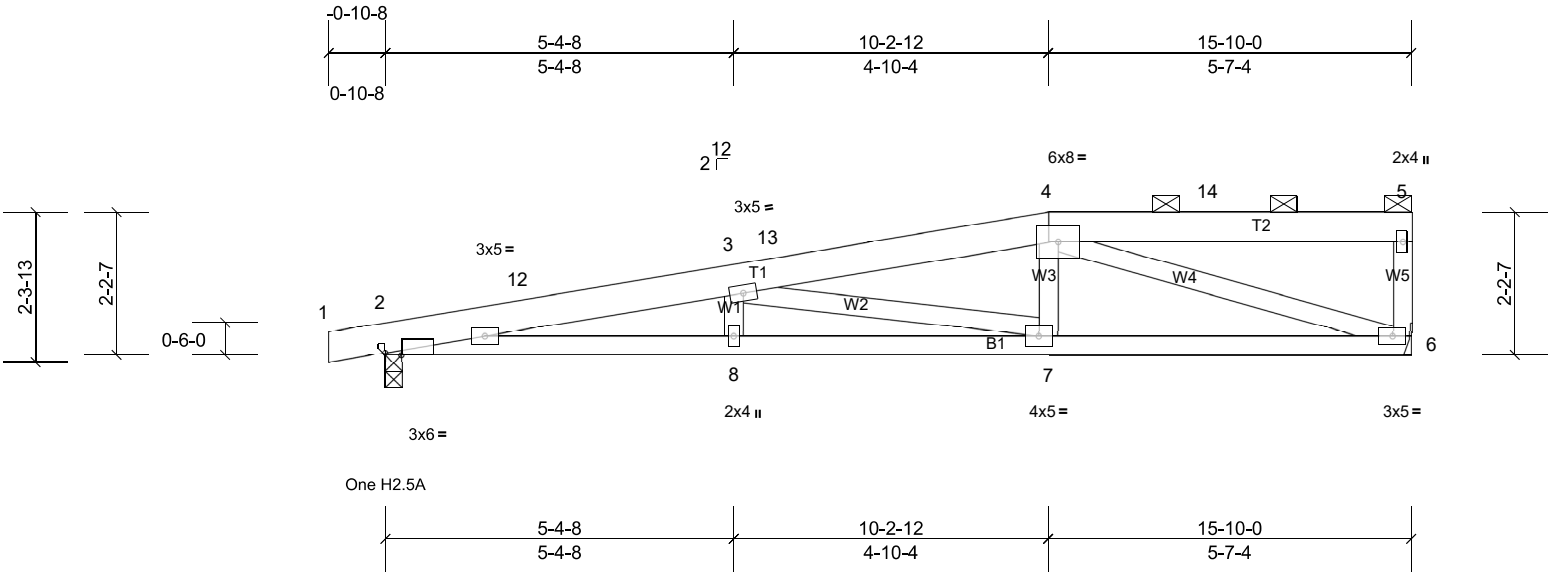
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP14	Half Hip	1	1	Job Reference (optional)

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.

- 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 6.
- 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

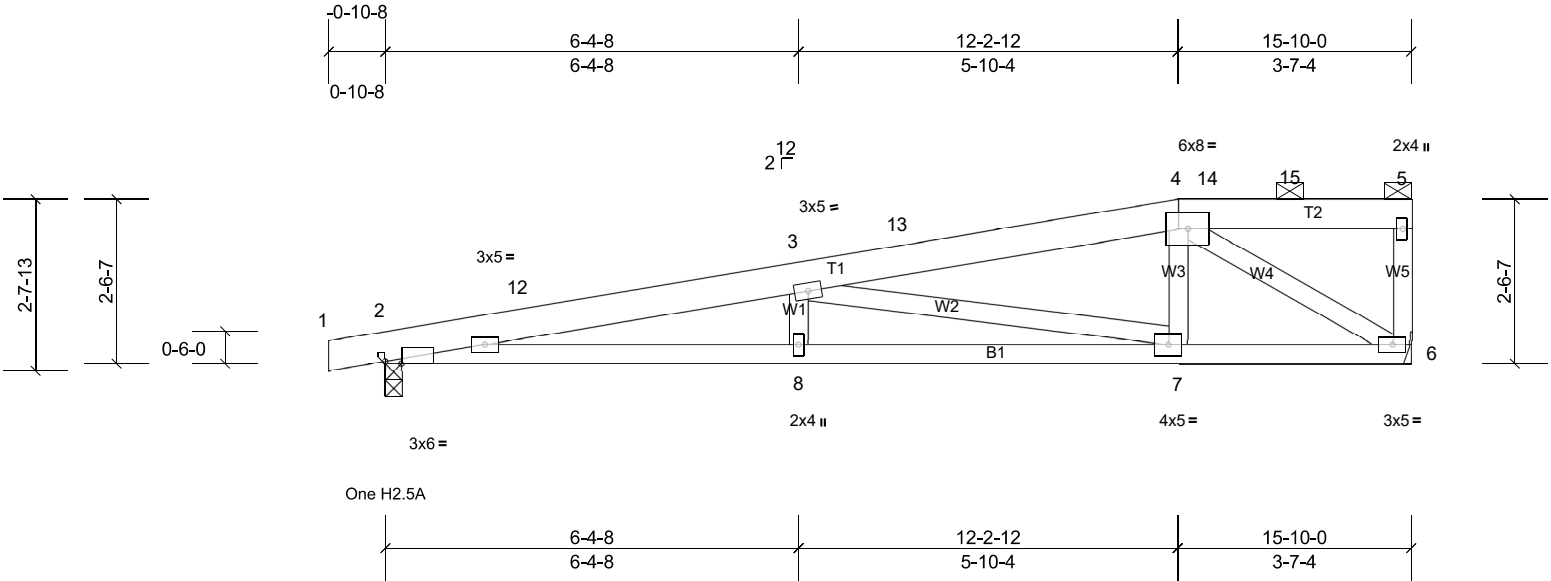
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP15	Half Hip	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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Scale = 1:35.6									
Plate Offsets (X, Y): [2:0-3-0,Edge]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in	(loc)	<b>L/defl</b>
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								
									<b>PLATES</b>
									<b>GRIP</b>
									MT20
									244/190
									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**

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 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

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

- 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

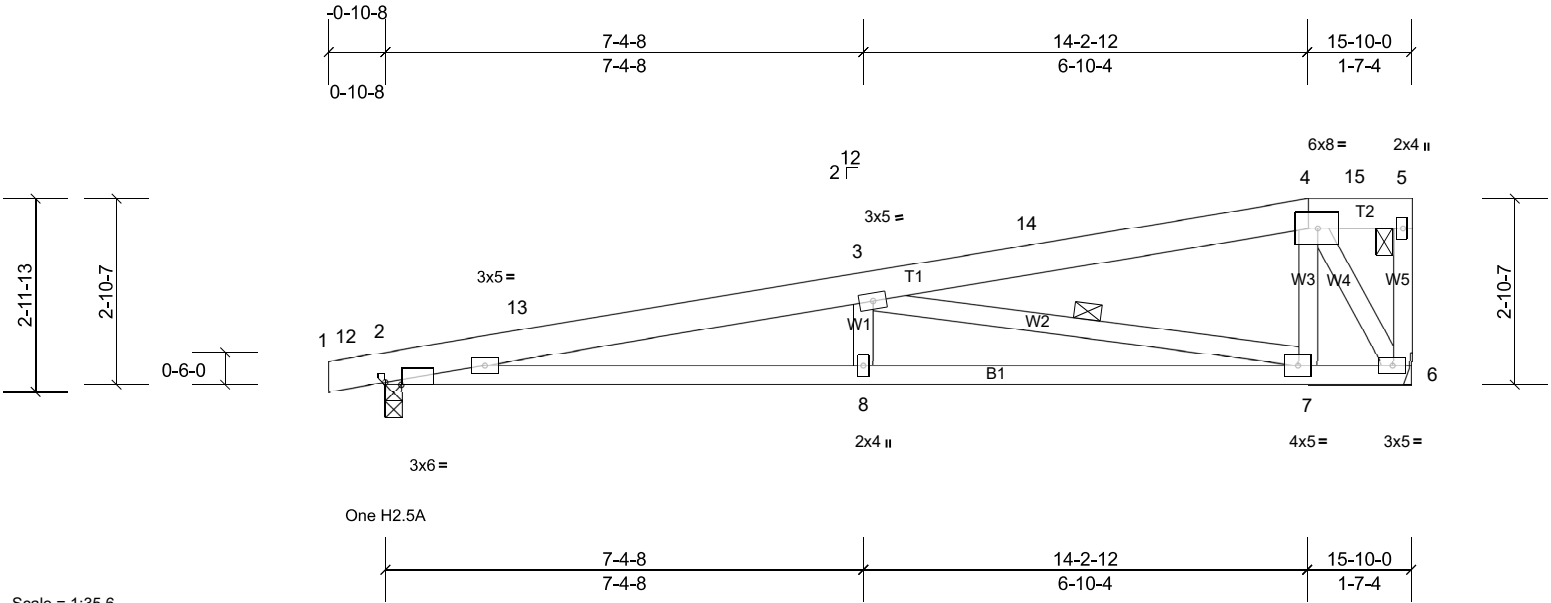
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP16	Half Hip	1	1	Job Reference (optional)

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	0.40	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

- 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
- 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

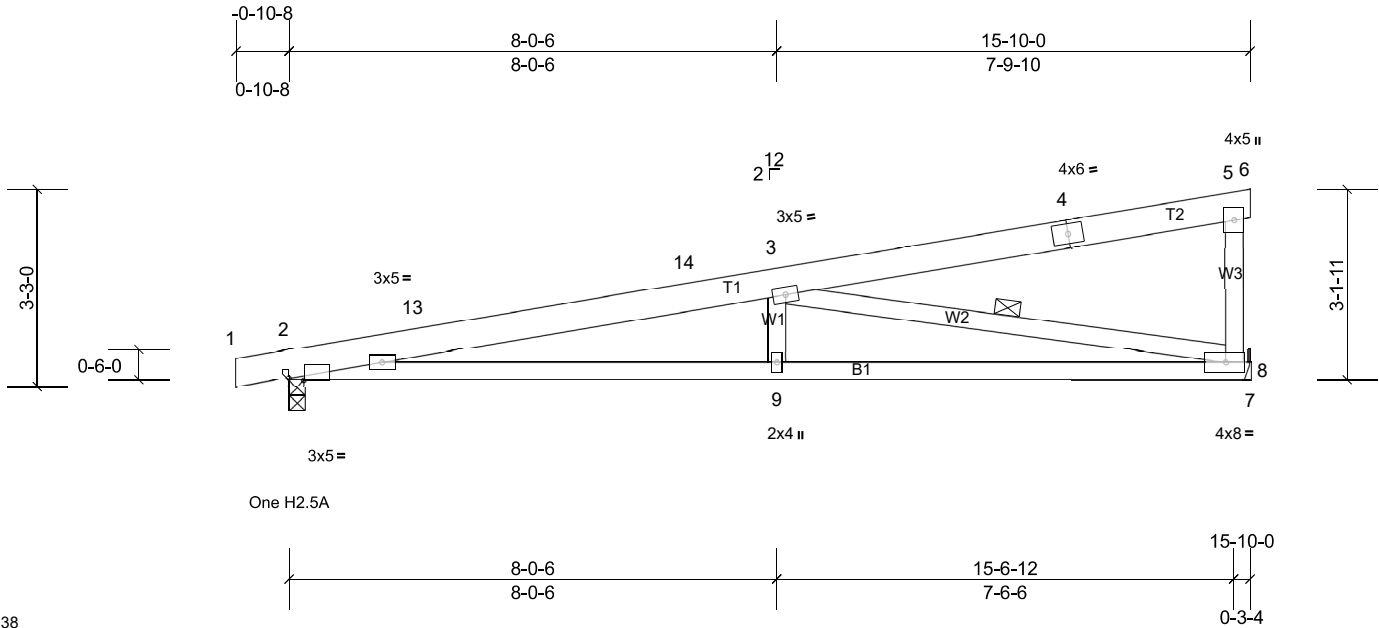
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	FP17	Monopitch	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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

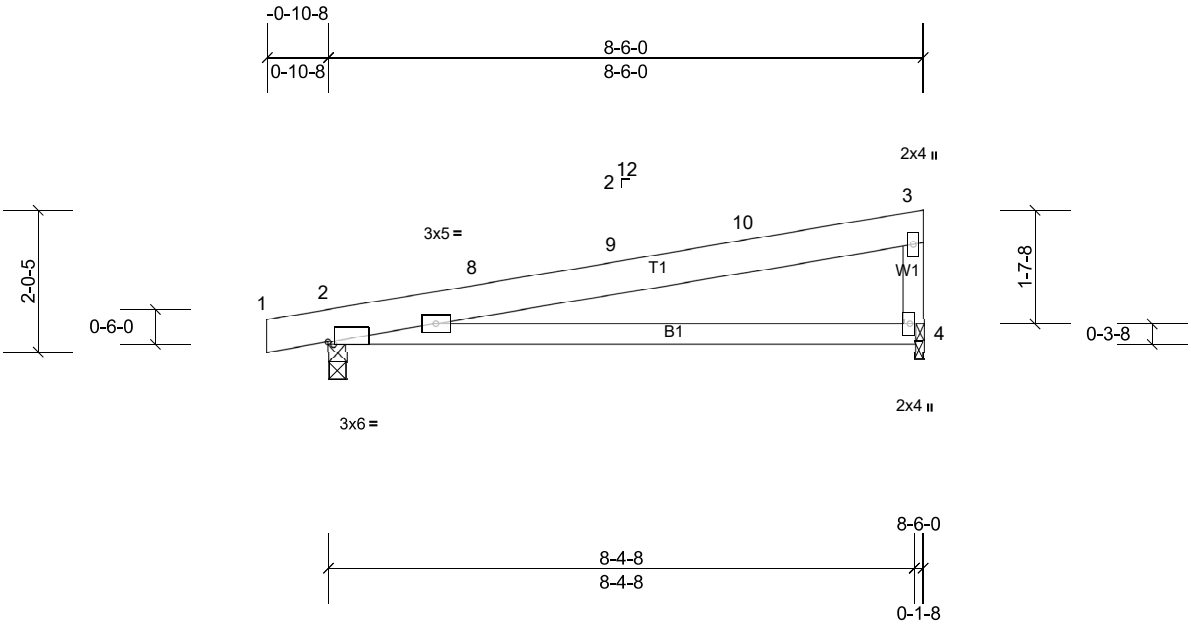
#### NOTES

- 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)



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
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.29	4-7	>341	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: 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.

- 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.

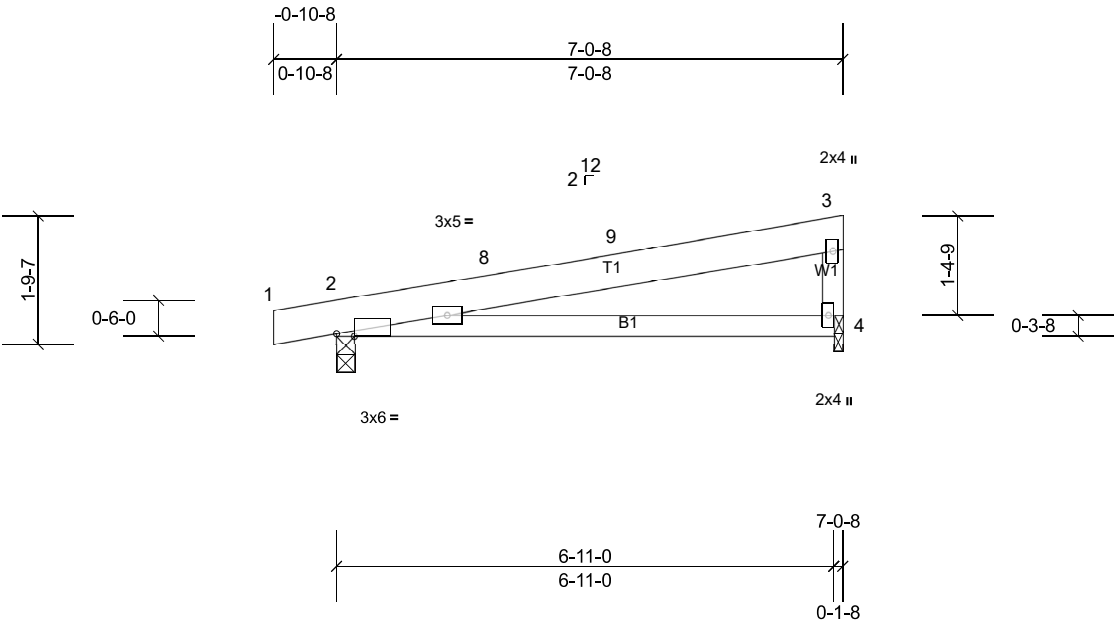
LOAD CASE(S) Standard

**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**  
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 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  
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.

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



Scale = 1:32.1

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	0.50	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.

LOAD CASE(S) Standard

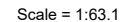
**REACTIONS** (lb/size) 2=332/0-3-0, (min. 0-1-8), 4=273/0-1-8, (min. 0-1-8)  
Max Horiz 2=48 (LC 13)  
Max Uplift 2=-76 (LC 10), 4=-45 (LC 14)  
Max Grav 2=421 (LC 21), 4=342 (LC 21)

**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

- 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.



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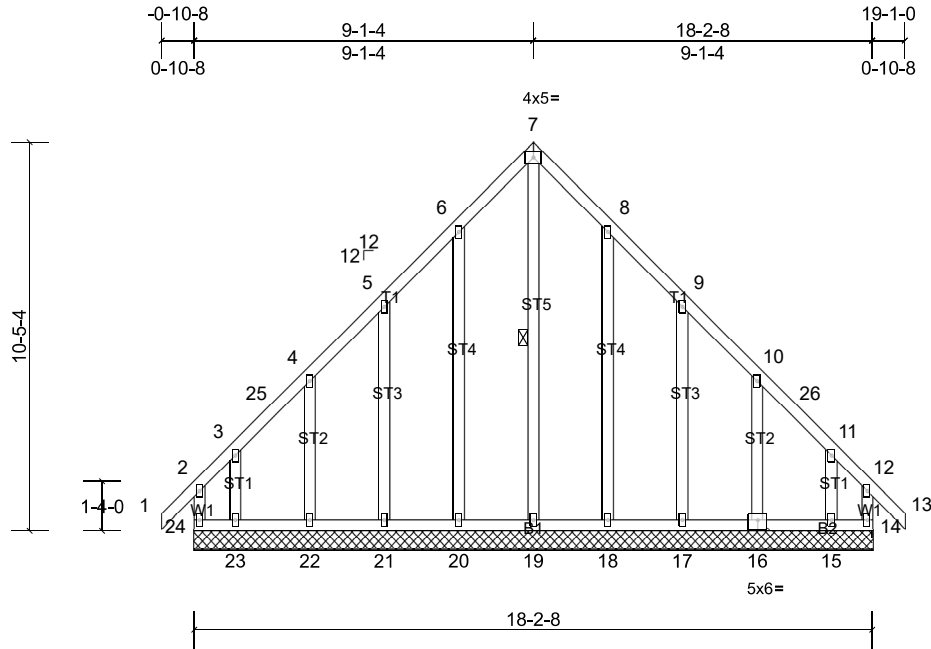


<b>LUMBER</b>		3) TCELL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
TOP CHORD	2x4 SP No.2	4) Unbalanced snow loads have been considered for this design.
BOT CHORD	2x4 SP No.2	5) This 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.
WEBS	2x4 SP No.3	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
<b>BRACING</b>		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.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	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.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.	
<div style="border: 1px solid black; padding: 5px;">           MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         </div>		
<b>REACTIONS</b>		
(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)	
<b>LOAD CASE(S)</b>		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) 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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 7-19

**RECTIONS** 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)

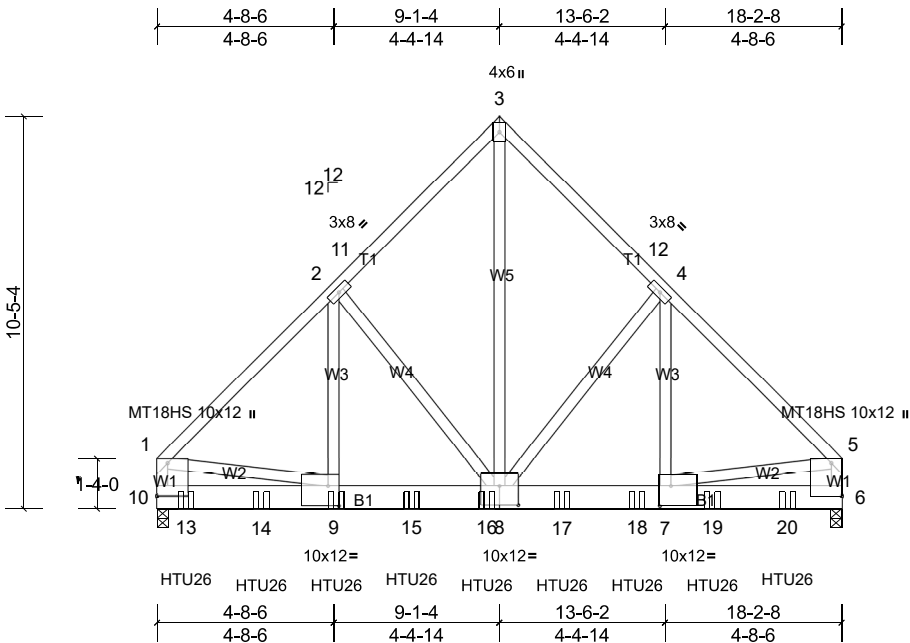
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=-125/320, 6-7=-177/418, 7-8=-177/418, 8-9=-125/320  
WEBS 7-19=-509/148

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

- 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 6-1-4, 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
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* 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.
- 13) 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

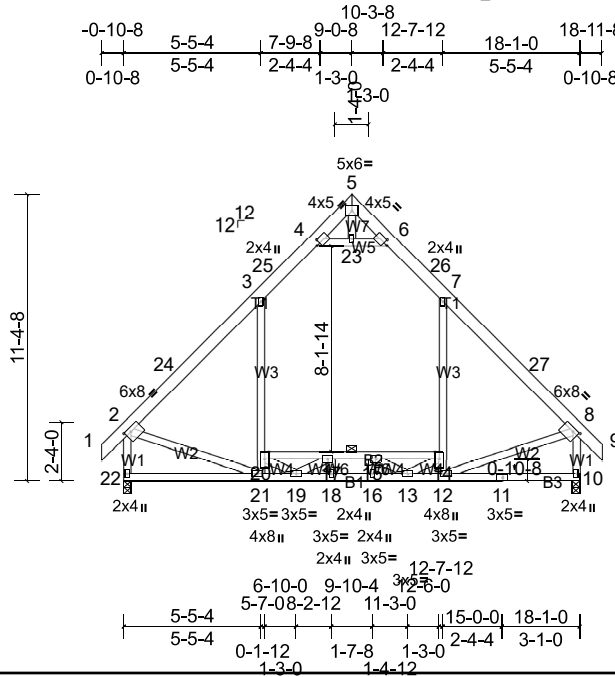
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	H1	Attic	4	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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)

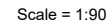
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-24=-1092/0, 3-24=-955/0, 3-25=-681/76, 4-25=-602/99, 4-5=-66/299, 5-6=-66/295, 6-26=-606/100, 7-26=-685/76, 7-27=-952/0, 8-27=-1086/0, 2-22=-1158/0, 8-10=-1169/0, 21-22=-286/355, 19-21=-49/781, 18-19=0/1450, 16-18=0/1450, 13-16=0/1450, 12-13=0/679, 17-20=-508/59, 15-17=-900/0, 14-15=-513/66  
BOT CHORD 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  
WEBS

**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

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 14:25:55 Page: ID:7eMWN5hUbiO4rBN10?BnEwyKFS2-XdY48iTLFAKUyUH7RzufVXTGggccY1NjltgkczIXsw



<b>LUMBER</b>		<b>WEBS</b>	18-20=-376/9, 9-20=-86/335, 26-27=-371/11, 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	1) 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
TOP CHORD	2x6 SP No.2			12) 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
BOT CHORD	2x4 SP No.2			13) 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.
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.2			14) 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.
OTHERS	2x4 SP No.3			15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
<b>BRACING</b>		<b>NOTES</b>		16) Attic room checked for L/360 deflection.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	1) Unbalanced roof live loads have been considered for this design.		<b>LOAD CASE(S)</b> Standard
BOT CHORD	Rigid ceiling directly applied or 5-8-8 oc bracing.	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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		1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
JOINTS	1 Brace at Jt(s): 32, 34	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.		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
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	4) T CLL: 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		Concentrated Loads (lb) Vert: 27=-47, 22=-47, 38=-47, 39=-47, 40=-47
<b>REACTIONS</b>	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)			
<b>FORCES</b>	(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			

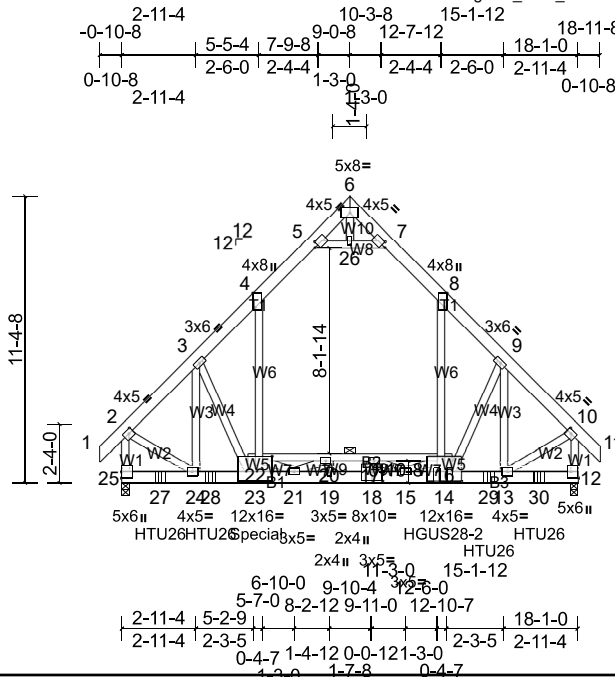
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	H1GR	Attic Girder	1	4	Job Reference (optional)

Carter Components, Sanford, NC, user

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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.

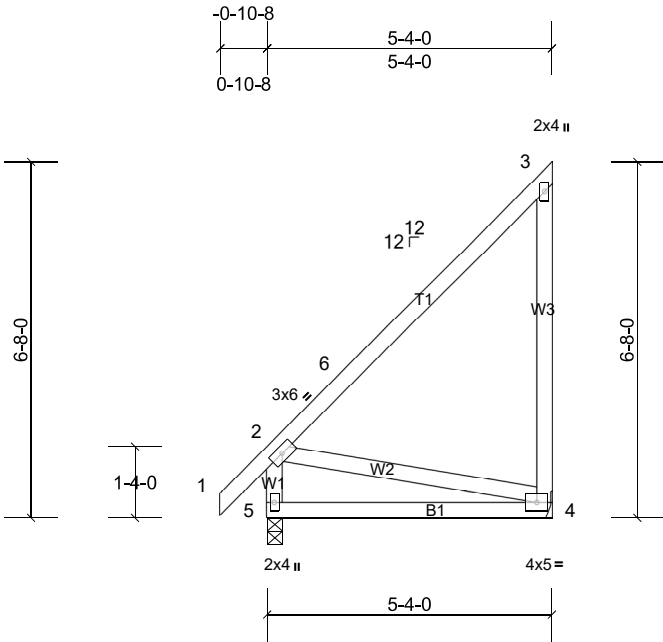
**REACTIONS** (lb/size) 12=6488/0-3-8, (min. 0-2-14), 25=6488/0-3-8, (min. 0-2-14)  
Max Horiz 25=-299 (LC 10)  
Max Grav 12=9795 (LC 6), 25=9795 (LC 5)

**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)



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.

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

- 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.

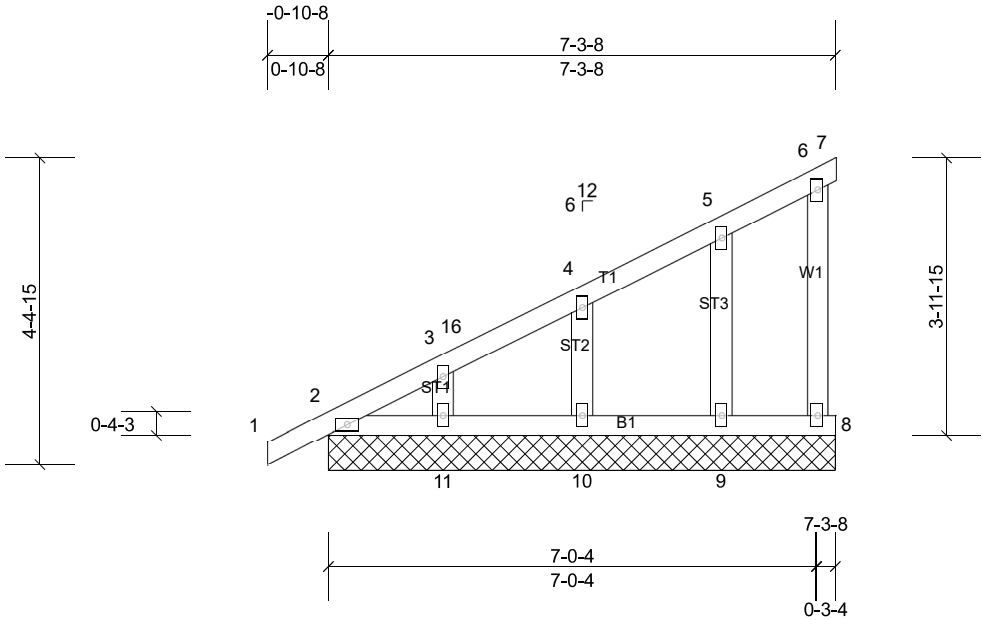
LOAD CASE(S) Standard

**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**
- 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.

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

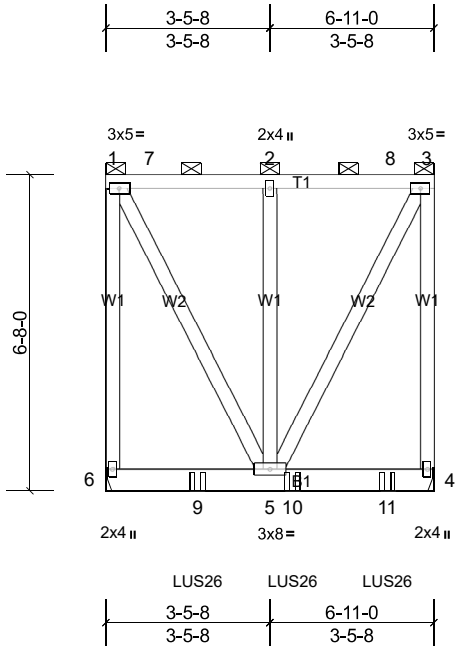
- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-3-8 zone; cantilever left and right exposed ; end vertical left exposed;C-C 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



Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	LGR	Flat Girder	1	2	Job Reference (optional)



Scale = 1:48.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0											
Weight: 145 lb   FT = 20%												

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

**BRACING**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-3, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 4=771/ Mechanical, (min. 0-1-8), 6=642/ Mechanical, (min. 0-1-8)  
Max Uplift 4=-347 (LC 8), 6=-270 (LC 8)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-6=-526/233, 3-4=-526/233  
WEBS 1-5=-227/506, 3-5=-227/506

**NOTES**

- 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.
- LOAD CASE(S)** Standard

- 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) 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) 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.

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 4-6=-20  
Concentrated Loads (lb)  
Vert: 9=-294, 10=-294, 11=-296

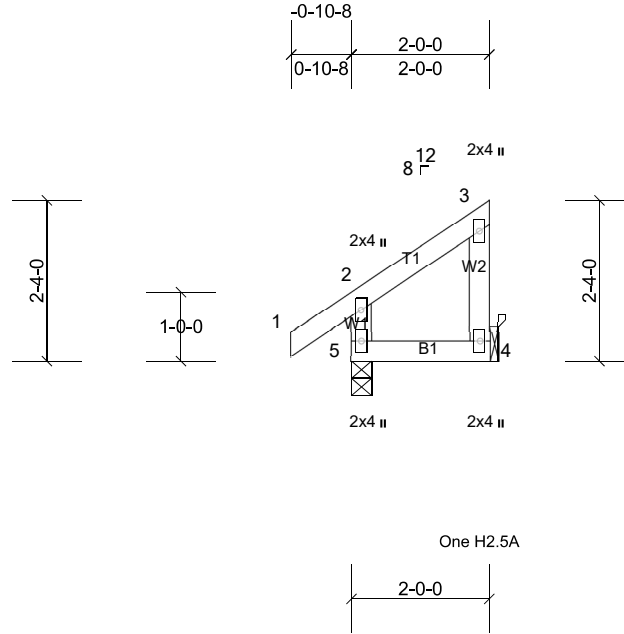
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	M1	Jack-Closed	8	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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

- 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

#### 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.

**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

- 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.
- \* 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.

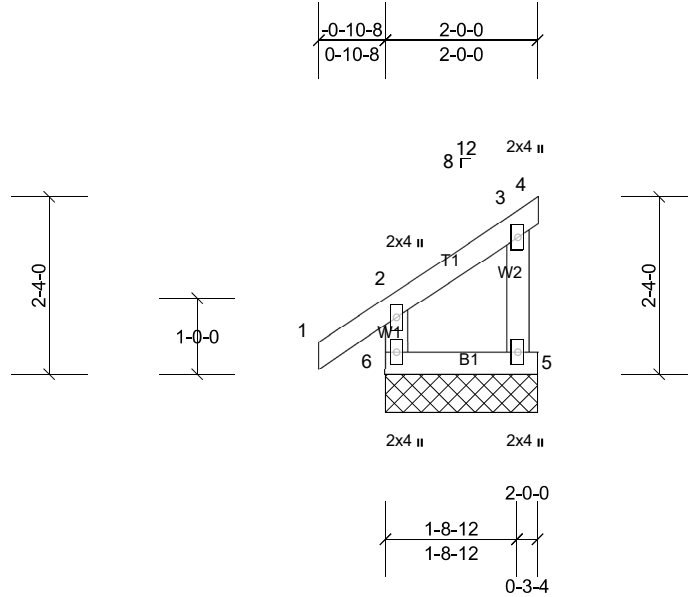
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	M1GE	Monopitch Supported Gable	4	1	Job Reference (optional)

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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.

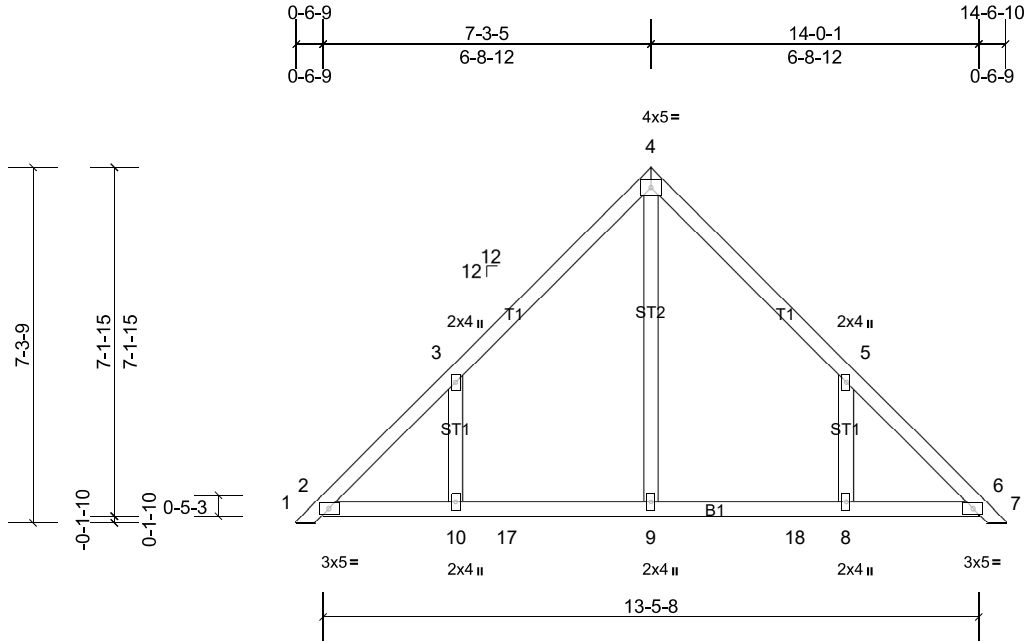
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB1	Piggyback	13	1	Job Reference (optional)

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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

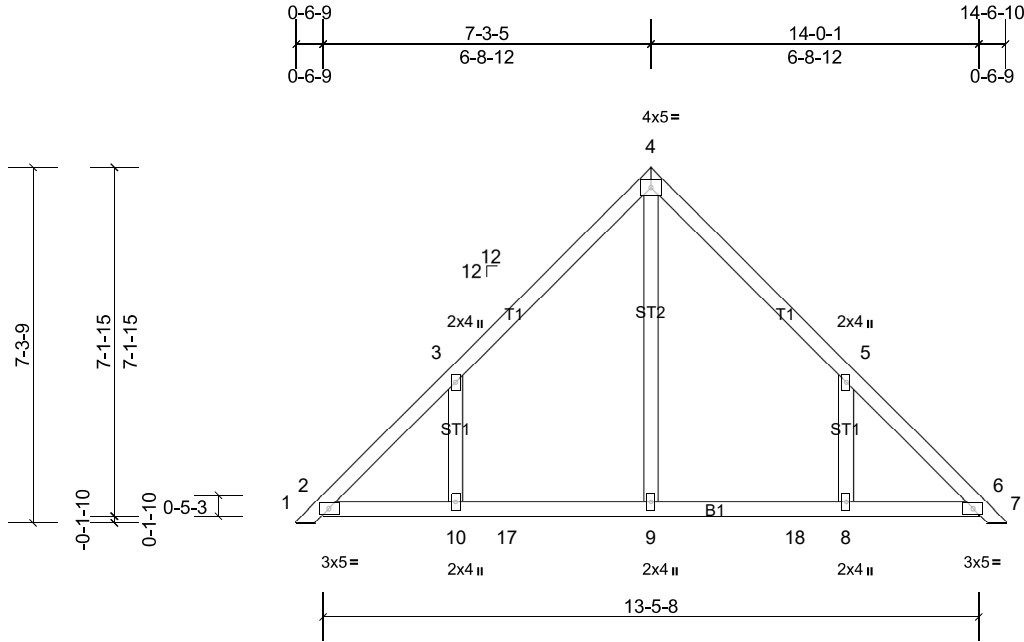
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB1GE	Piggyback	2	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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

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 14:25:58 Page: 1  
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Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

<b>LUMBER</b>			
TOP CHORD	2x4	SP No.2	1) 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.
BOT CHORD	2x4	SP No.2	2) Gable requires continuous bottom chord bearing.
OTHERS	2x4	SP No.3	3) Gable studs spaced at 4'-0" oc.
<b>BRACING</b>			
TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.		4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.		5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" x 6'-0" tall by 2'-0" x 6'-0" wide will fit between the bottom chord and any other members.
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
<b>REACTIONS</b>			
	All bearings 5'-9"-6."		7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
	(lb) - Max Horiz 2=-76 (LC 12), 7=-76 (LC 12)		
	Max Uplift All uplift 100 (lb) or less at joint(s)		

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

- 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.

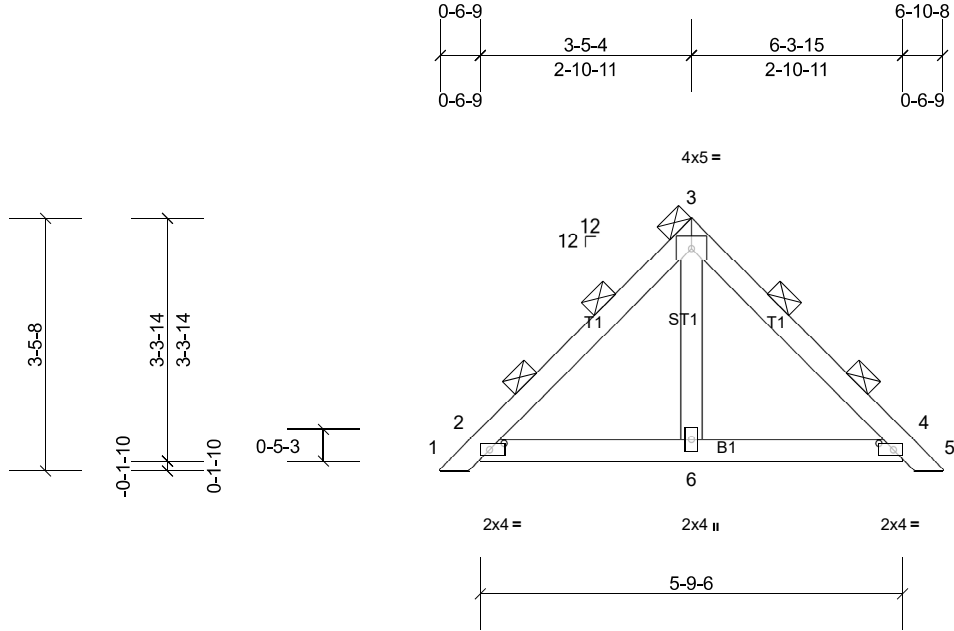
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB2GR	Piggyback	2	4	Job Reference (optional)

Carter Components, Sanford, NC, user

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Page: 1

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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

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 14:25:59 Page: 1  
ID:dlcGH54Q3sGA4nwlyHrJPryKEyZ-QOoa 4WsJOqwr6augoybgNezSH1zUy1ugbrutOzlXss



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

**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 =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

- LOAD CASE(S) Standard



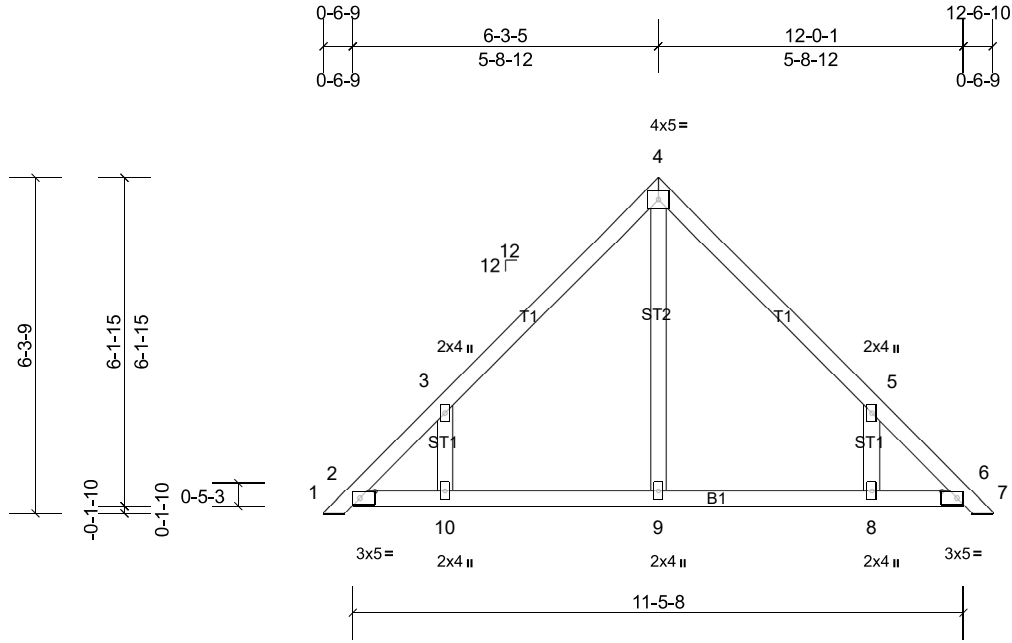
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB3	Piggyback	2	1	Job Reference (optional)

Carter Components, Sanford, NC, user

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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

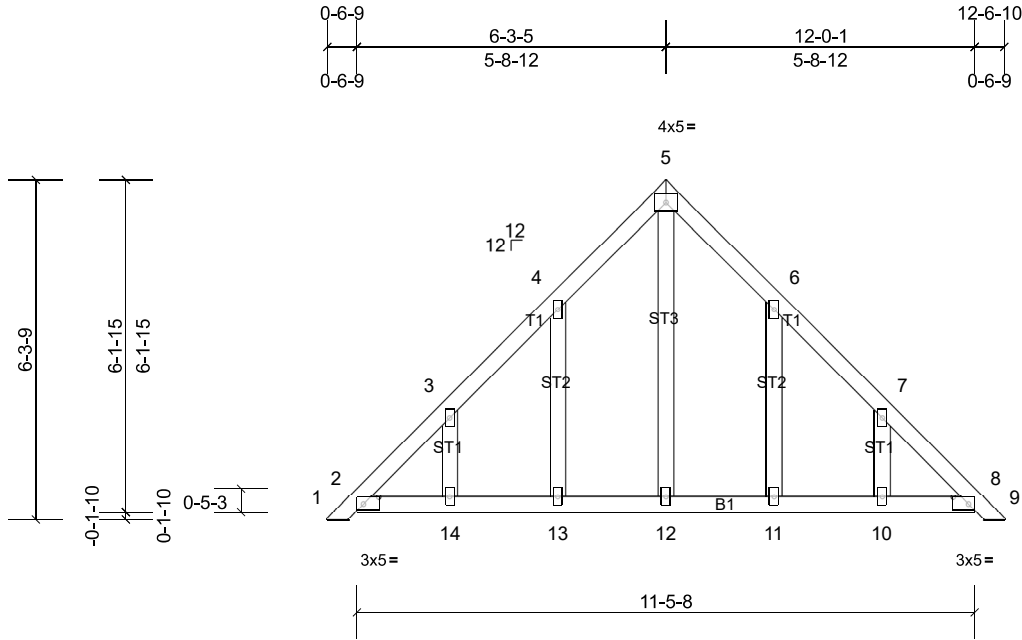
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	PB3GE	Piggyback	1	1	Job Reference (optional)

Carter Components, Sanford, NC, user

Run: 8.73 S Jul 11 2024 Print: 8.730 S Jul 11 2024 MiTek Industries, Inc. Thu Feb 13 14:26:00

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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.

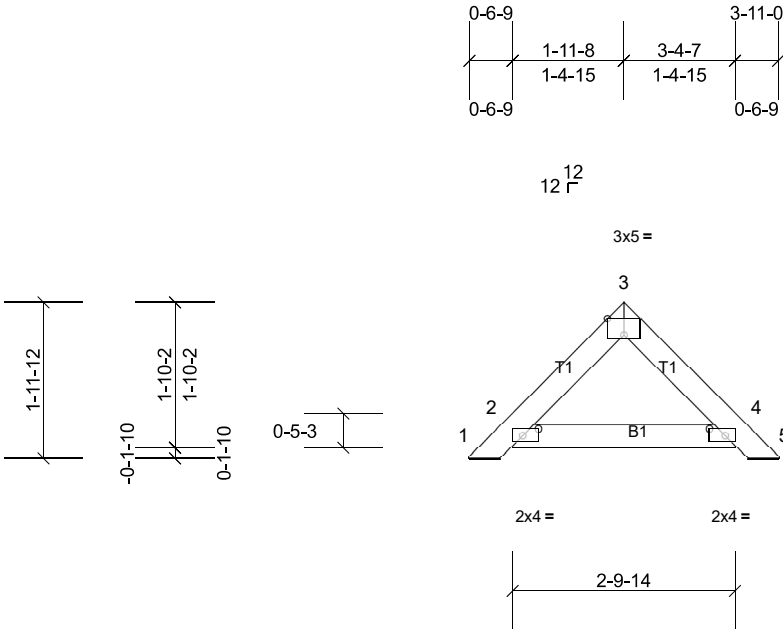
#### NOTES

- 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

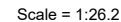
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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" 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" tall by 2'-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

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 14:26:00 Page: ID: yjYH y?snJ?3GtWrwIGxICyaQT2-ubLzBQXU4iyn3G94EWTqCaABfhQBDR2vFbRPqzIXsr

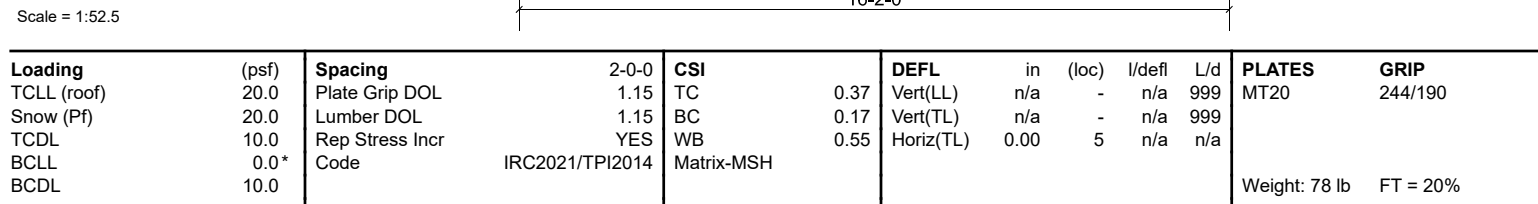


<b>NUMBER</b>			6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
TOP CHORD	2x4 SP No.2		7) Gable requires continuous bottom chord bearing.
BOT CHORD	2x4 SP No.2		8) Gable studs spaced at 2'-0" oc.
OTHERS	2x4 SP No.3		9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
<b>BRACING</b>			10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" x 6'-0" tall by 2'-0" x 0'-0" wide will fit between the bottom chord and any other members.
TOP CHORD	Structural wood sheathing directly applied or 3'-11" oc purlins.		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.
BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.		12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
<b>REACTIONS</b>			
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)			

## 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) TCELL: 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.

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- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 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) 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

LOAD CASE(S) Standard

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

- 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; BC DL=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
- 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

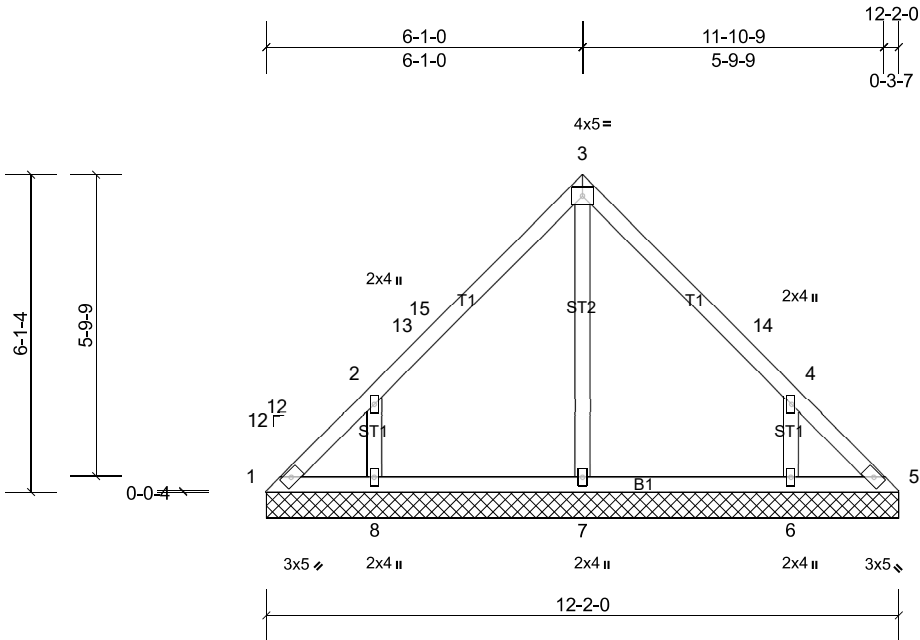
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V2	Valley	1	1	Job Reference (optional)

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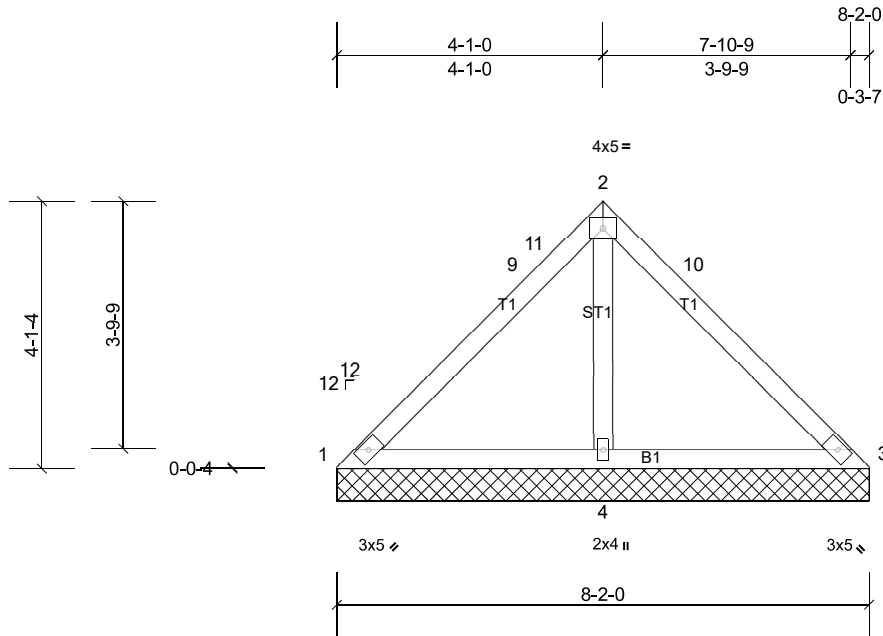
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V3	Valley	1	1	Job Reference (optional)

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 14:26:01

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Scale = 1:35.3

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	0.37	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.

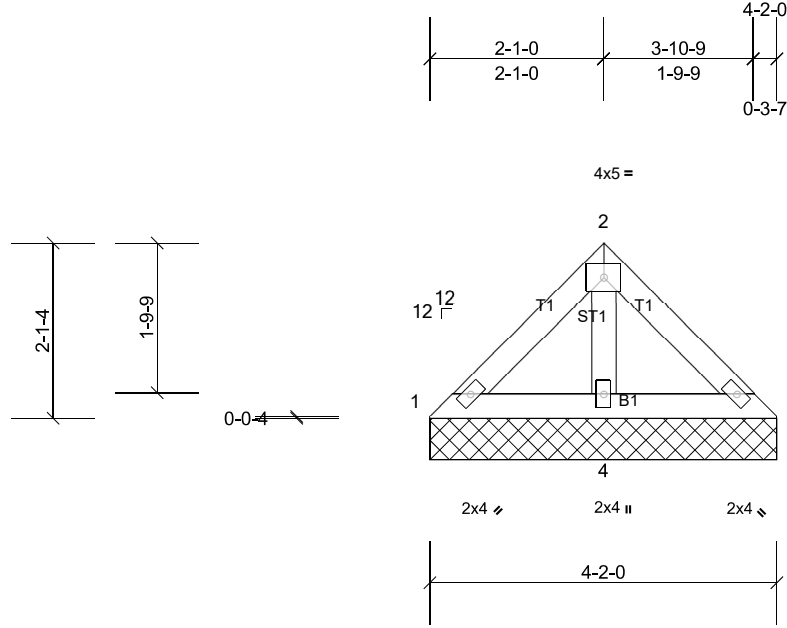
Job	Truss	Truss Type	Qty	Ply	Isabelle-Roof-Isabelle GRH
24090030-A	V4	Valley	1	1	Job Reference (optional)

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 14:26:02

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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.

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