| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | AT01 | Attic | 8 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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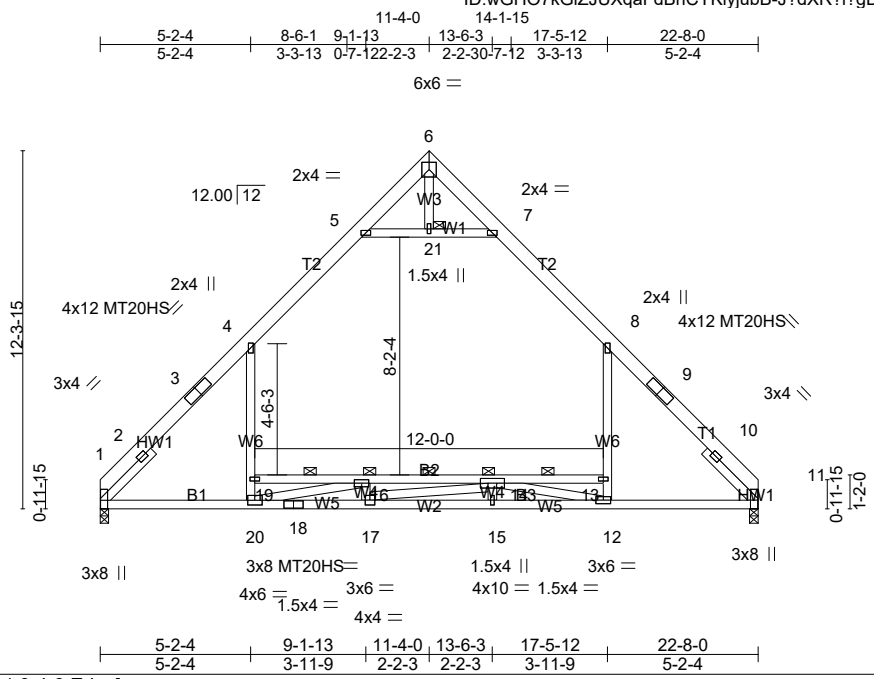


Plate Offsets (X,Y)-- [1:0-4-3,Edge], [11:0-4-3,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.69 | Vert(LL) | -0.37 | 14-16 | >728 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.68 | 14-16 | >399 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.07 | 1 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.20 | 13-19 | 740 | 360 | Weight: 181 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SP No.1 *Except*
B2: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W6,W1: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 - 2-6-0, Right 2x4 SP No.3 -˜ 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
2-4-0 oc bracing: 13-19
JOINTS 1 Brace at Jt(s): 21

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

**REACTIONS.** (lb/size) 1=1271/0-3-8 (min. 0-1-15), 11=1271/0-3-8 (min. 0-1-15)
Max Horz 1=280(LC 13)
Max Grav 1=1644(LC 31), 11=1644(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1019/25, 2-3=-1810/0, 3-4=-1750/0, 4-5=-1133/144, 5-6=-39/437, 6-7=-38/437, 7-8=-1133/144, 8-9=-1748/0, 9-10=-1808/0, 10-11=-1024/23
BOT CHORD 1-20=0/1196, 18-20=0/3424, 17-18=0/3424, 15-17=0/3197, 12-15=0/3167, 11-12=0/1146, 16-19=-308/188, 14-16=-2523/0, 13-14=-301/201
WEBS 12-13=0/719, 8-13=0/920, 19-20=0/697, 4-19=0/923, 5-21=-1640/226, 7-21=-1640/226, 6-21=0/65, 16-20=-2493/0, 16-17=0/138, 14-17=-265/367, 14-15=0/170, 12-14=-2352/0

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are MT20 plates unless otherwise indicated.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-21, 7-21; Wall dead load (5.0psf) on member(s).8-13, 4-19
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-19, 14-16, 13-14
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | ATGE01 | ATTIC | 1 | 1 | Job Reference (optional) |

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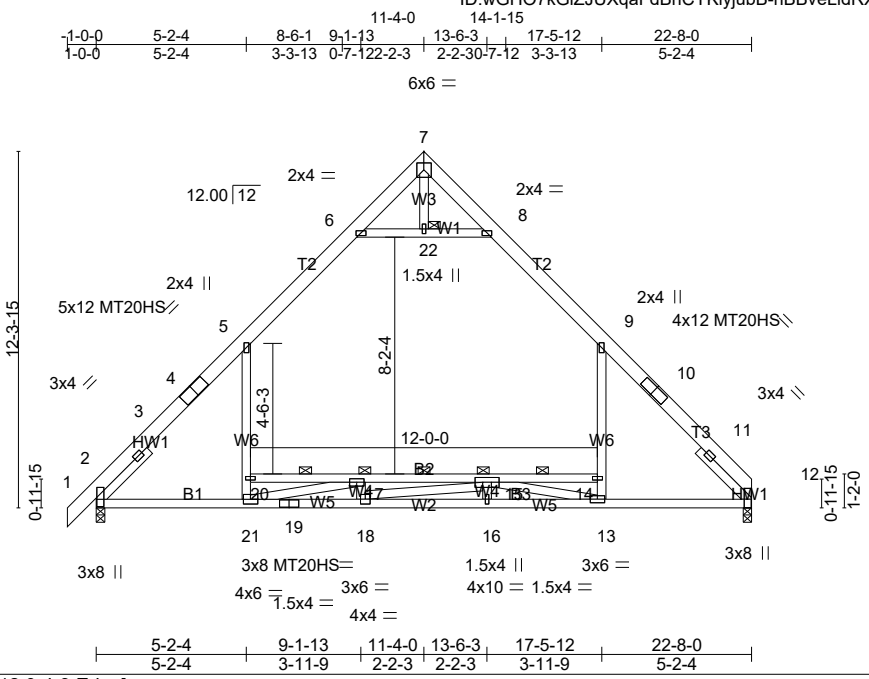


Plate Offsets (X,Y)-- [2:0-3-11,0-0-2], [12:0-4-3,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.99 | Vert(LL) | -0.38 | 15-17 | >723 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.98 | Vert(CT) | -0.69 | 15-17 | >396 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.91 | Horz(CT) | 0.08 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | Attic | -0.20 | 14-20 | 740 | 360 | Weight: 184 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

TOP CHORD 2x6 SP 2400F 2.0E *Except*
T1: 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B2: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W6,W1: 2x4 SP No.2
SLIDER Left 2x4 SP No.3 -˜ 2-6-0, Right 2x4 SP No.3 -˜ 2-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
2-4-0 oc bracing: 14-20
JOINTS 1 Brace at Jt(s): 22

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

**REACTIONS.** (lb/size) 2=1339/0-3-8 (min. 0-2-0), 12=1270/0-3-8 (min. 0-1-15)
Max Horz 2=297(LC 13)
Max Grav 2=1707(LC 31), 12=1643(LC 31)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/57, 2-3=-845/22, 3-4=-1812/0, 4-5=-1751/0, 5-6=-1133/144, 6-7=-40/439, 7-8=-38/440, 8-9=-1131/143, 9-10=-1746/0, 10-11=-1806/0, 11-12=-1023/23
BOT CHORD 2-21=0/1197, 19-21=0/3426, 18-19=0/3426, 16-18=0/3195, 13-16=0/3166, 12-13=0/1144, 17-20=-314/192, 15-17=-2527/0, 14-15=-301/204
WEBS 13-14=0/721, 9-14=0/922, 20-21=0/699, 5-20=0/925, 6-22=-1645/227, 8-22=-1645/227, 7-22=0/65, 17-21=-2487/0, 17-18=0/137, 15-18=-265/368, 15-16=0/170, 13-15=-2354/0

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-22, 8-22; Wall dead load (5.0psf) on member(s).9-14, 5-20
10) 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
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | G01 | Common Girder | 1 | 2 | Job Reference (optional) |

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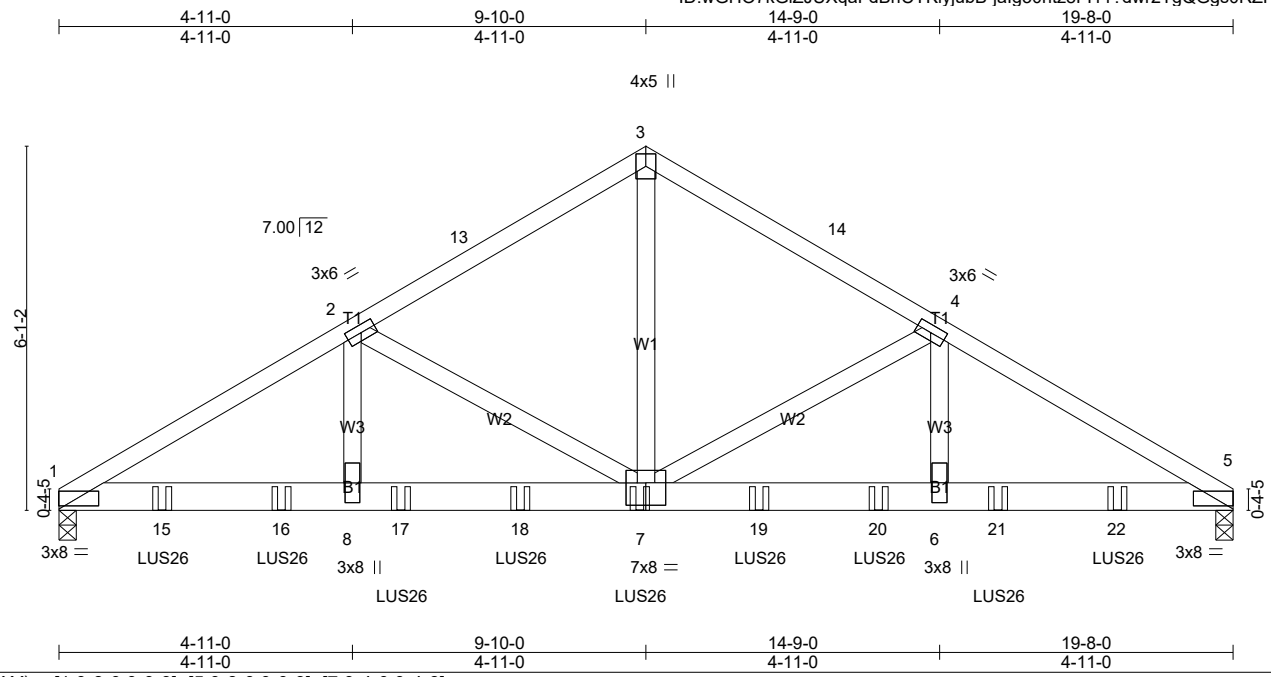


Plate Offsets (X,Y)-- [1:0-8-0,0-0-9], [5:0-8-0,0-0-9], [7:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.56 | Vert(LL) | -0.12 | 6-7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.20 | 6-7 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.99 | Horz(CT) | 0.05 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 223 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=3979/0-3-8 (min. 0-1-15), 5=3920/0-3-8 (min. 0-1-14)
Max Horz 1=142(LC 44)
Max Uplift 1=-465(LC 16), 5=-458(LC 17)
Max Grav 1=4631(LC 2), 5=4562(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7770/859, 2-13=-5209/608, 3-13=-5106/625, 3-14=-5106/625, 4-14=-5208/608, 4-5=-7775/860
BOT CHORD 1-15=-708/6679, 15-16=-708/6679, 8-16=-708/6679, 8-17=-708/6679, 17-18=-708/6679, 7-18=-708/6679, 7-19=-678/6682, 19-20=-678/6682, 6-20=-678/6682, 6-21=-678/6682, 21-22=-678/6682, 5-22=-678/6682
WEBS 3-7=-505/4766, 4-7=-2634/379, 4-6=-172/2207, 2-7=-2630/379, 2-8=-172/2199

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 1 and 458 lb uplift at joint 5.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) 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 1-8-12 from the left end to 17-8-12 to connect truss(es) T09 (1 ply 2x4 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

Continued on page 2

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-5=-66, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-689(B) 15=-689(B) 16=-689(B) 17=-689(B) 18=-689(B) 19=-689(B) 20=-689(B) 21=-689(B) 22=-689(B)

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M01 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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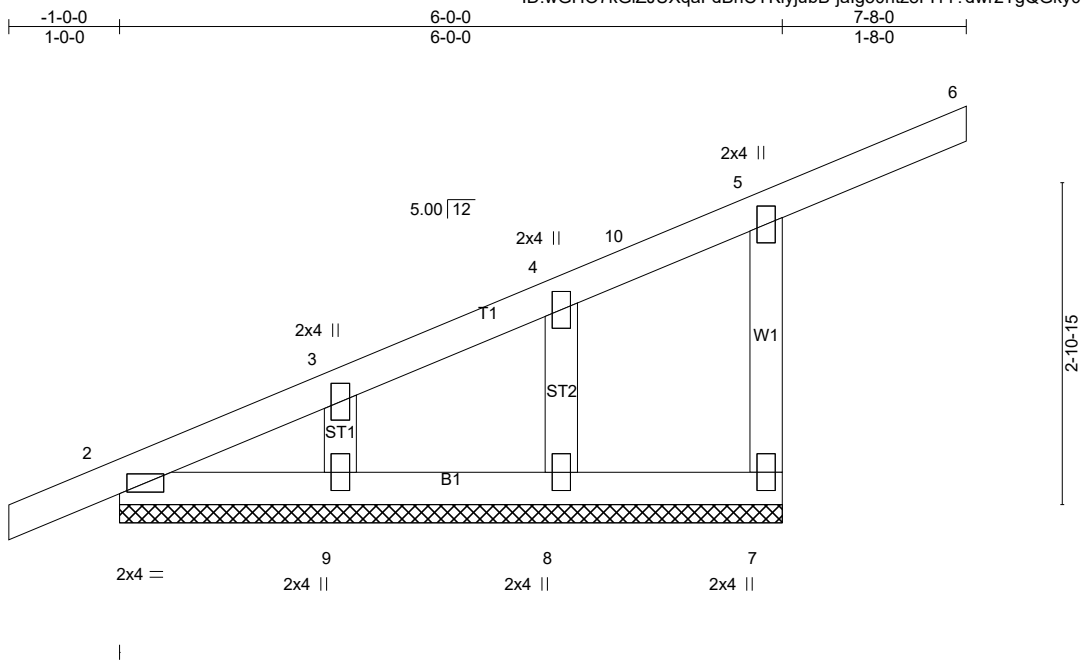


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | 0.01 | 6 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | -0.00 | 6 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 30 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 7=255/6-0-0 (min. 0-1-8), 2=153/6-0-0 (min. 0-1-8), 9=185/6-0-0 (min. 0-1-8), 8=99/6-0-0 (min. 0-1-8)
Max Horz 2=141(LC 13)
Max Uplift 7=-109(LC 13), 2=-17(LC 12), 9=-51(LC 16), 8=-11(LC 16)
Max Grav 7=315(LC 23), 2=181(LC 2), 9=214(LC 2), 8=111(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-213/107, 3-4=-151/81, 4-10=-120/70, 5-10=-113/79, 5-6=-58/0, 5-7=-300/216
BOT CHORD 2-9=-46/50, 8-9=-46/50, 7-8=-46/50
WEBS 3-9=-169/130, 4-8=-89/54

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 7, 17 lb uplift at joint 2, 51 lb uplift at joint 9 and 11 lb uplift at joint 8.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M02 | Monopitch | 4 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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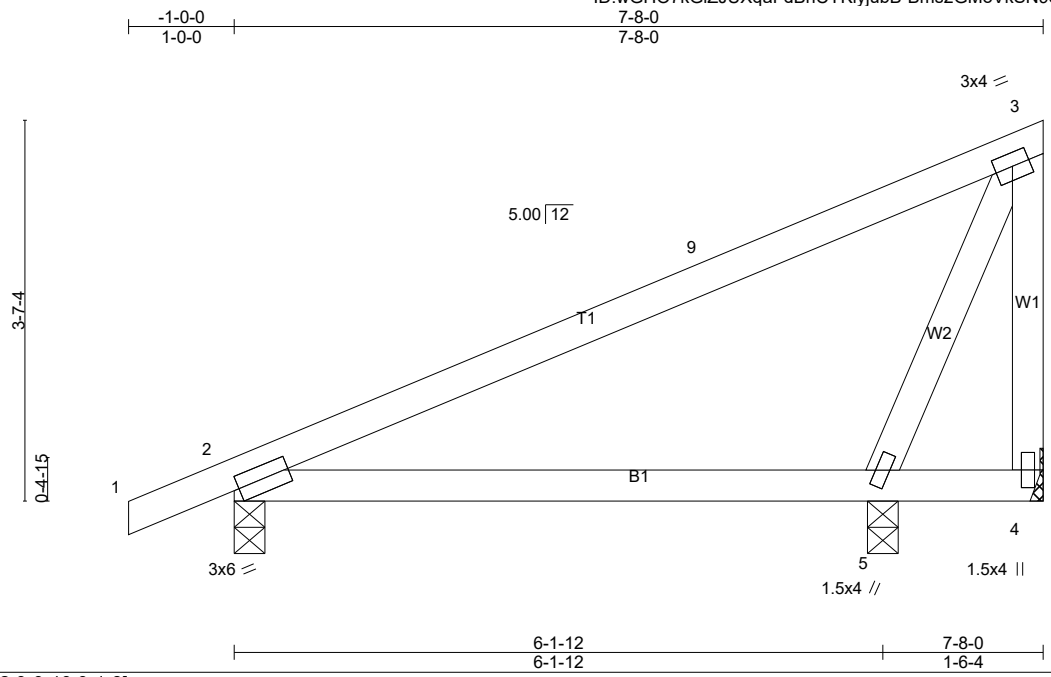


Plate Offsets (X,Y)-- [2:0-0-10,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.10 | 5-8 | >746 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.93 | Vert(CT) | -0.16 | 5-8 | >457 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 35 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

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

**REACTIONS.** (lb/size) 4=294/Mechanical, 2=389/0-3-8 (min. 0-1-8), 5=32/0-3-8 (min. 0-1-8)
Max Horz 2=141(LC 15)
Max Uplift 4=-145(LC 16), 2=-82(LC 16)
Max Grav 4=353(LC 2), 2=457(LC 2), 5=144(LC 7)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-9=-261/73, 3-9=-141/84, 3-4=-486/311
BOT CHORD 2-5=-115/129, 4-5=-57/62
WEBS 3-5=-189/319

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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 23.1 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 3-6-0 tall by 2-0-0 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 145 lb uplift at joint 4 and 82 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M03 | Monopitch | 5 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.330 s Feb 24 2020 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Feb 9 09:00:47 2022 Page 1
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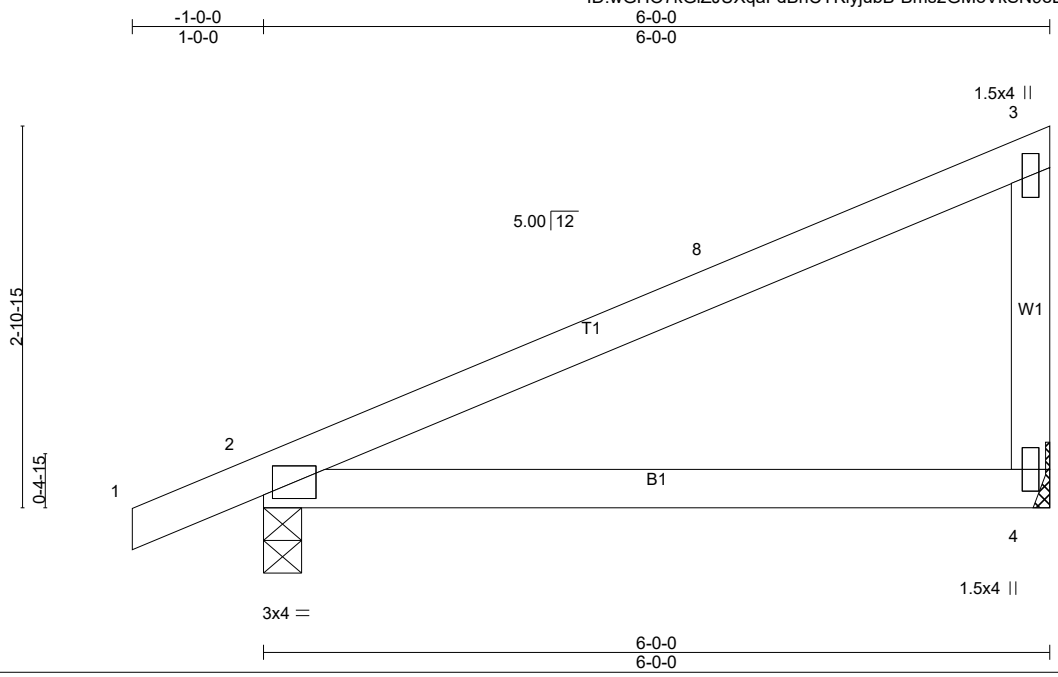


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.68 | Vert(LL) | -0.07 | 4-7 | >966 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.14 | 4-7 | >496 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 24 lb | FT = 20% |

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

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

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

**REACTIONS.** (lb/size) 4=247/Mechanical, 2=324/0-3-8 (min. 0-1-8)
Max Horz 2=112(LC 15)
Max Uplift 4=-52(LC 16), 2=-55(LC 16)
Max Grav 4=286(LC 2), 2=380(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-8=-109/63, 3-8=-95/79, 3-4=-202/143
BOT CHORD 2-4=-46/50

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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 23.1 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 3-6-0 tall by 2-0-0 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 52 lb uplift at joint 4 and 55 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M04 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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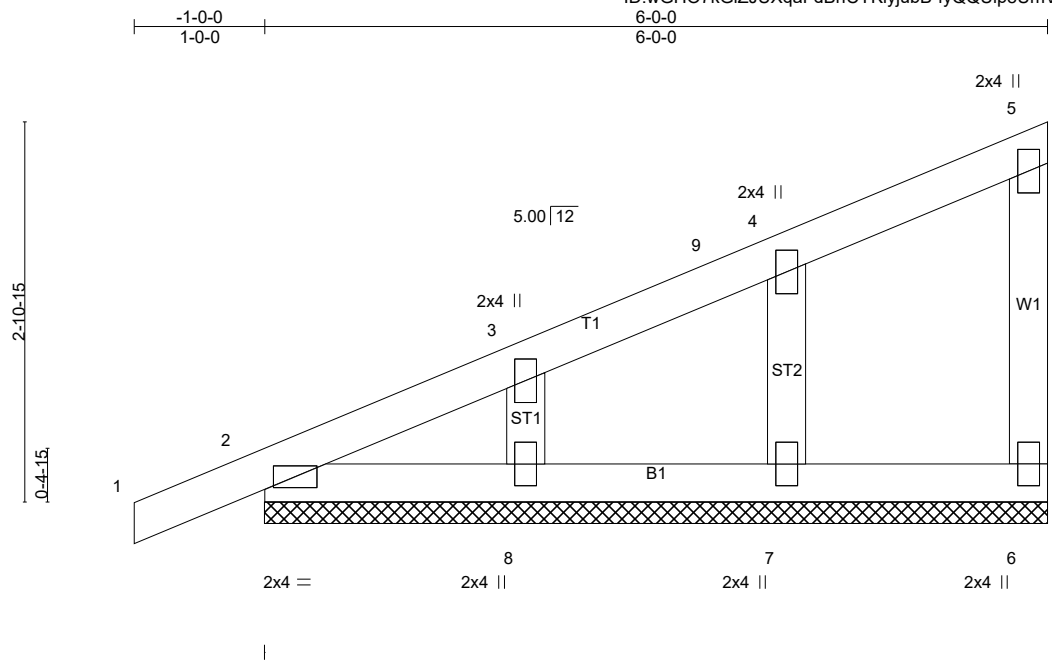


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | 0.00 | 1 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | -0.00 | 1 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | Weight: 27 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 6=62/6-0-0 (min. 0-1-8), 2=156/6-0-0 (min. 0-1-8), 8=166/6-0-0 (min. 0-1-8), 7=186/6-0-0 (min. 0-1-8)
Max Horz 2=112(LC 13)
Max Uplift6=-13(LC 13), 2=-26(LC 12), 8=-43(LC 16), 7=-46(LC 16)
Max Grav 6=73(LC 23), 2=185(LC 2), 8=192(LC 2), 7=217(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-170/94, 3-9=-113/65, 4-9=-105/73, 4-5=-60/49, 5-6=-58/53
BOT CHORD 2-8=-46/50, 7-8=-46/50, 6-7=-46/50
WEBS 3-8=-147/115, 4-7=-175/120

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 6, 26 lb uplift at joint 2, 43 lb uplift at joint 8 and 46 lb uplift at joint 7.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M05 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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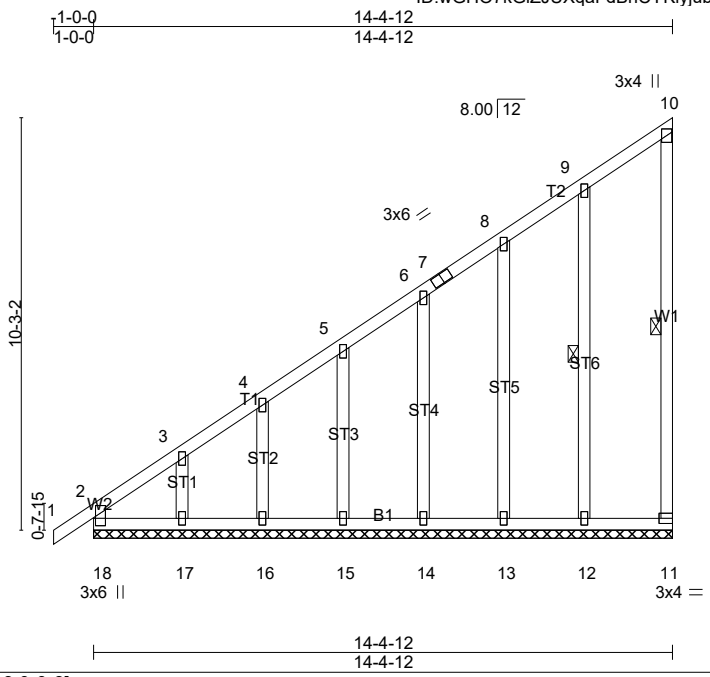


Scale = 1:57.3

Plate Offsets (X,Y)-- [11:Edge,0-1-8], [18:0-2-3,0-0-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.01 | 1 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | -0.01 | 1 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | -0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 108 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* |
| | W1: 2x4 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 18=173/14-4-12 (min. 0-1-12), 11=74/14-4-12 (min. 0-1-12), 15=172/14-4-12 (min. 0-1-12), 16=174/14-4-12 (min. 0-1-12), 17=164/14-4-12 (min. 0-1-12), 14=173/14-4-12 (min. 0-1-12), 13=169/14-4-12 (min. 0-1-12), 12=192/14-4-12 (min. 0-1-12)
Max Horz 18=383(LC 13)
Max Uplift 18=-93(LC 12), 11=-74(LC 15), 15=-69(LC 16), 16=-40(LC 16), 17=-155(LC 16), 14=-65(LC 16), 13=-58(LC 16), 12=-76(LC 16)
Max Grav 18=306(LC 31), 11=111(LC 30), 15=203(LC 30), 16=203(LC 2), 17=240(LC 30), 14=201(LC 2), 13=203(LC 23), 12=272(LC 23)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 2-18=-306/212, 1-2=0/51, 2-3=-560/507, 3-4=-450/415, 4-5=-402/376, 5-6=-340/324, 6-7=-279/254, 7-8=-272/274, 8-9=-227/235, 9-10=-139/135, 10-11=-86/49 |
| BOT CHORD | 17-18=-157/173, 16-17=-157/173, 15-16=-157/173, 14-15=-157/173, 13-14=-157/173, 12-13=-157/173, 11-12=-157/173 |
| WEBS | 5-15=-161/91, 4-16=-163/78, 3-17=-206/173, 6-14=-161/86, 8-13=-164/108, 9-12=-227/161 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M05 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |



**NOTES-**

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 18, 74 lb uplift at joint 11, 69 lb uplift at joint 15, 40 lb uplift at joint 16, 155 lb uplift at joint 17, 65 lb uplift at joint 14, 58 lb uplift at joint 13 and 76 lb uplift at joint 12.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | M06 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

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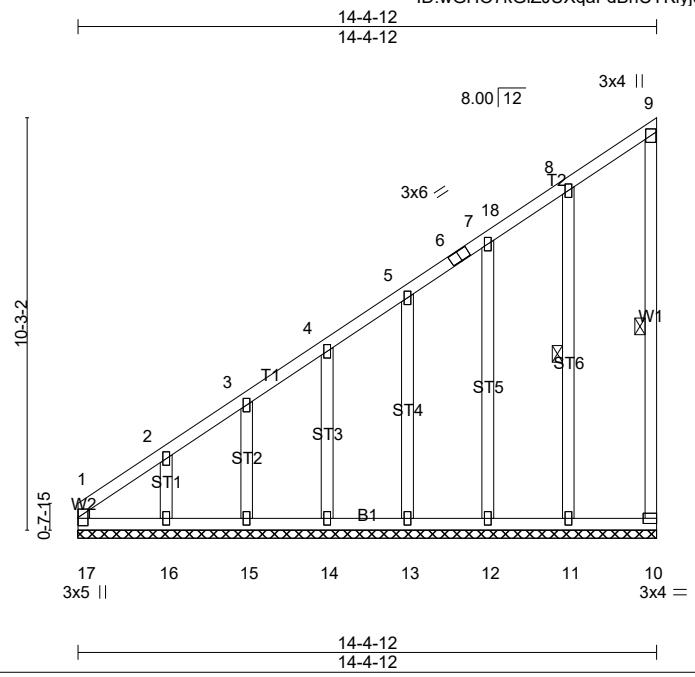


Plate Offsets (X,Y)-- [10:Edge,0-1-8]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.30 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | -0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 106 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* |
| | W1: 2x4 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 17=71/14-4-12 (min. 0-1-11), 10=74/14-4-12 (min. 0-1-11), 14=174/14-4-12 (min. 0-1-11), 15=166/14-4-12 (min. 0-1-11), 16=198/14-4-12 (min. 0-1-11), 13=173/14-4-12 (min. 0-1-11), 12=169/14-4-12 (min. 0-1-11), 11=192/14-4-12 (min. 0-1-11)
Max Horz 17=370(LC 13)
Max Uplift 17=-117(LC 14), 10=-74(LC 15), 14=-69(LC 16), 15=-37(LC 16), 16=-164(LC 16), 13=-65(LC 16), 12=-58(LC 16), 11=-75(LC 16)
Max Grav 17=260(LC 13), 10=111(LC 29), 14=205(LC 29), 15=192(LC 2), 16=277(LC 29), 13=200(LC 2), 12=199(LC 29), 11=265(LC 22)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-17=-322/266, 1-2=-556/508, 2-3=-451/414, 3-4=-402/376, 4-5=-340/324, 5-6=-279/263, 6-7=-270/274, 7-18=-227/215, 8-18=-215/235, 8-9=-139/135, 9-10=-85/49 |
| BOT CHORD | 16-17=-157/173, 15-16=-157/173, 14-15=-157/173, 13-14=-157/173, 12-13=-157/173, 11-12=-157/173, 10-11=-157/173 |
| WEBS | 4-14=-162/91, 3-15=-155/75, 2-16=-208/164, 5-13=-161/86, 7-12=-157/108, 8-11=-221/161 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 117 lb uplift at joint 17, 74 lb uplift at joint 10, 69 lb uplift at joint 14, 37 lb uplift at joint 15, 164 lb uplift at joint 16, 65 lb uplift at joint 13, 58 lb uplift at joint 12 and 75 lb uplift at joint 11.

Continued on page 2

**NOTES-**

12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T01 | Common | 5 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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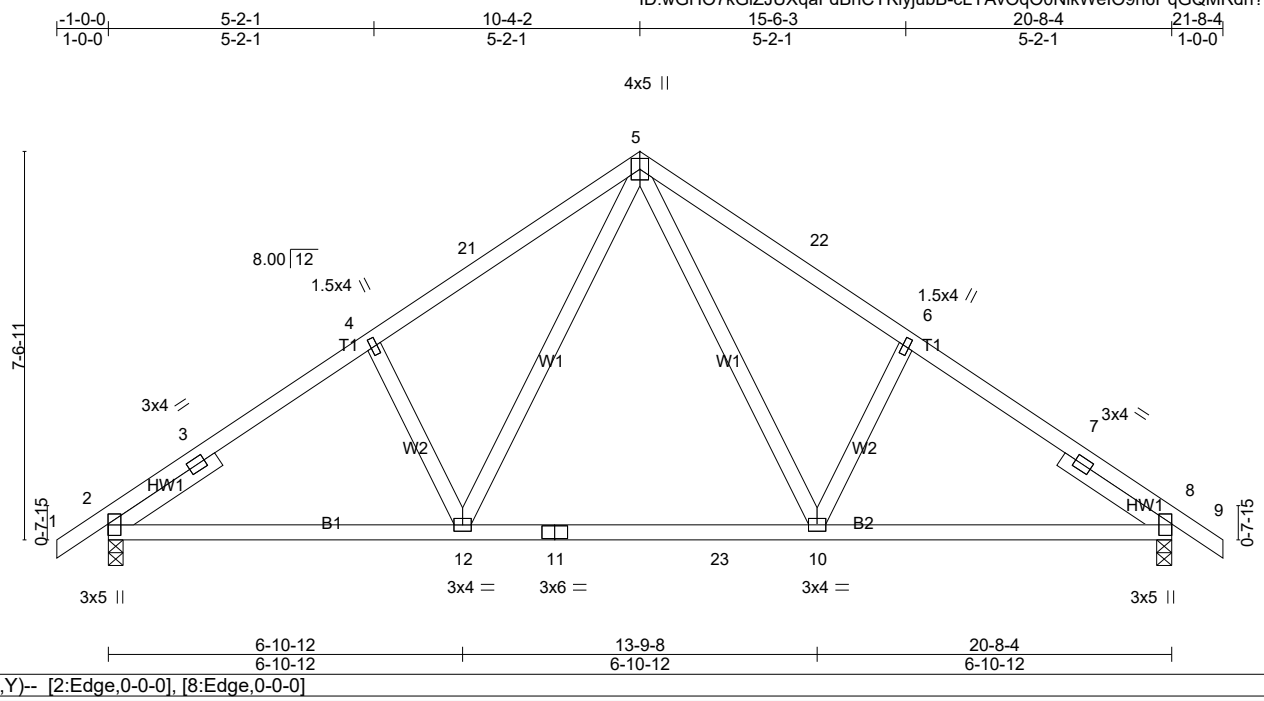


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [8:Edge,0-0-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.53 | Vert(LL) | -0.11 | 10-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.17 | 10-12 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 114 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -˜ 2-6-0, Right 2x4 SP No.3 -˜ 2-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=958/0-3-8 (min. 0-1-8), 8=958/0-3-8 (min. 0-1-8)
Max Horz 2=-187(LC 14)
Max Uplift2=-109(LC 16), 8=-109(LC 17)
Max Grav 2=1114(LC 2), 8=1114(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-669/40, 3-4=-1245/213, 4-21=-1260/253, 5-21=-1139/274, 5-22=-1139/273, 6-22=-1260/253, 6-7=-1244/213, 7-8=-669/40, 8-9=0/44
BOT CHORD 2-12=-141/1141, 11-12=-2/760, 11-23=-2/760, 10-23=-2/760, 8-10=-79/1090
WEBS 5-10=-119/549, 6-10=-353/204, 5-12=-119/551, 4-12=-353/204

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 109 lb uplift at joint 2 and 109 lb uplift at joint 8.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T01GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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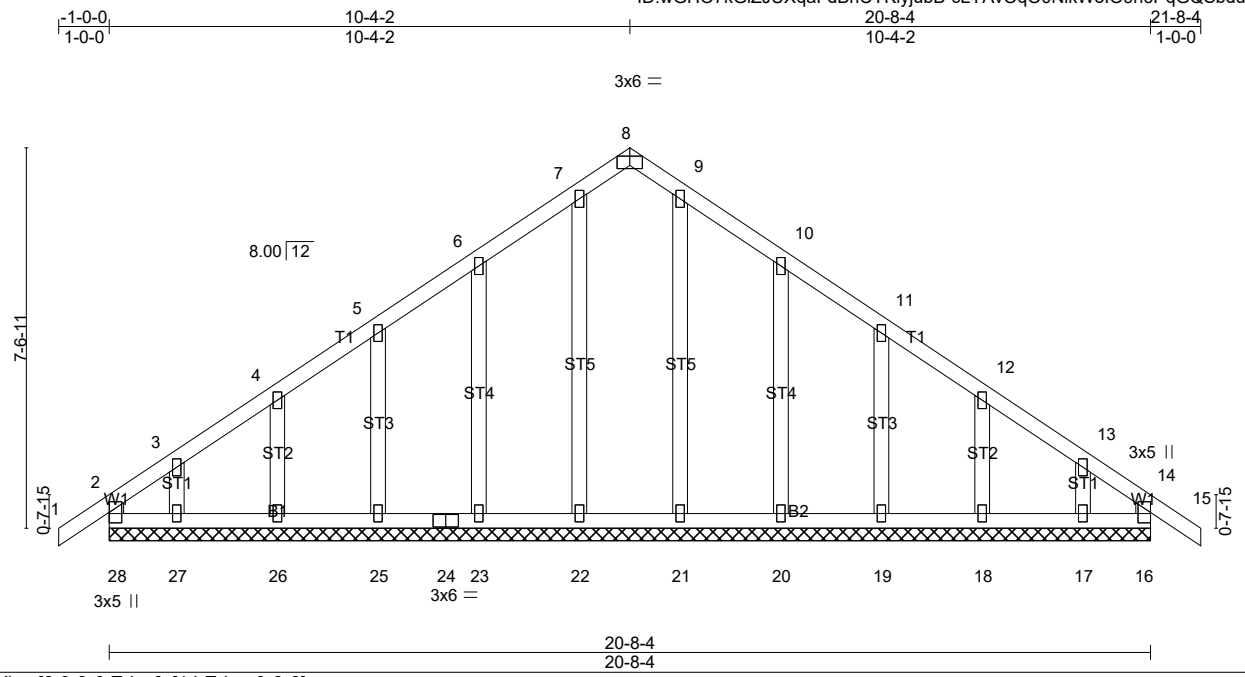


Plate Offsets (X,Y)-- [8:0-3-0,Edge], [14:Edge,0-3-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.01 | 15 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | -0.01 | 15 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.01 | 16 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 127 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

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

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

**REACTIONS.** (lb/size) 28=160/20-8-4 (min. 0-2-10), 16=160/20-8-4 (min. 0-2-10), 22=167/20-8-4 (min. 0-2-10), 23=174/20-8-4 (min. 0-2-10), 25=170/20-8-4 (min. 0-2-10), 26=183/20-8-4 (min. 0-2-10), 27=102/20-8-4 (min. 0-2-10), 21=167/20-8-4 (min. 0-2-10), 20=174/20-8-4 (min. 0-2-10), 19=170/20-8-4 (min. 0-2-10), 18=183/20-8-4 (min. 0-2-10), 17=102/20-8-4 (min. 0-2-10)
Max Horz 28=-203(LC 14)
Max Uplift 28=-61(LC 12), 16=-28(LC 13), 23=-82(LC 16), 25=-62(LC 16), 26=-57(LC 16), 27=-122(LC 16), 20=-85(LC 17), 19=-61(LC 17), 18=-58(LC 17), 17=-113(LC 17)
Max Grav 28=211(LC 31), 16=192(LC 33), 22=211(LC 23), 23=204(LC 23), 25=198(LC 30), 26=213(LC 2), 27=164(LC 30), 21=211(LC 24), 20=206(LC 31), 19=197(LC 31), 18=213(LC 2), 17=152(LC 31)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-28=-179/64, 1-2=0/51, 2-3=-203/133, 3-4=-136/109, 4-5=-106/87, 5-6=-91/74, 6-7=-111/119, 7-8=-108/108, 8-9=-108/108, 9-10=-112/114, 10-11=-62/53, 11-12=-76/56, 12-13=-115/77, 13-14=-179/133, 14-15=0/51, 14-16=-170/72
BOT CHORD 27-28=-122/166, 26-27=-122/166, 25-26=-122/166, 24-25=-122/166, 23-24=-122/166, 22-23=-122/166, 21-22=-122/166, 20-21=-122/166, 19-20=-122/166, 18-19=-122/166, 17-18=-122/166, 16-17=-122/166
WEBS 7-22=-171/18, 6-23=-164/106, 5-25=-159/84, 4-26=-170/87, 3-27=-138/107, 9-21=-171/0, 10-20=-165/109, 11-19=-158/84, 12-18=-170/88, 13-17=-141/102

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 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.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T01GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |



**NOTES-**

12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 61 lb uplift at joint 28, 28 lb uplift at joint 16, 82 lb uplift at joint 23, 62 lb uplift at joint 25, 57 lb uplift at joint 26, 122 lb uplift at joint 27, 85 lb uplift at joint 20, 61 lb uplift at joint 19, 58 lb uplift at joint 18 and 113 lb uplift at joint 17.
14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T01SGE | Common Structural Gable | 1 | 1 | Job Reference (optional) |

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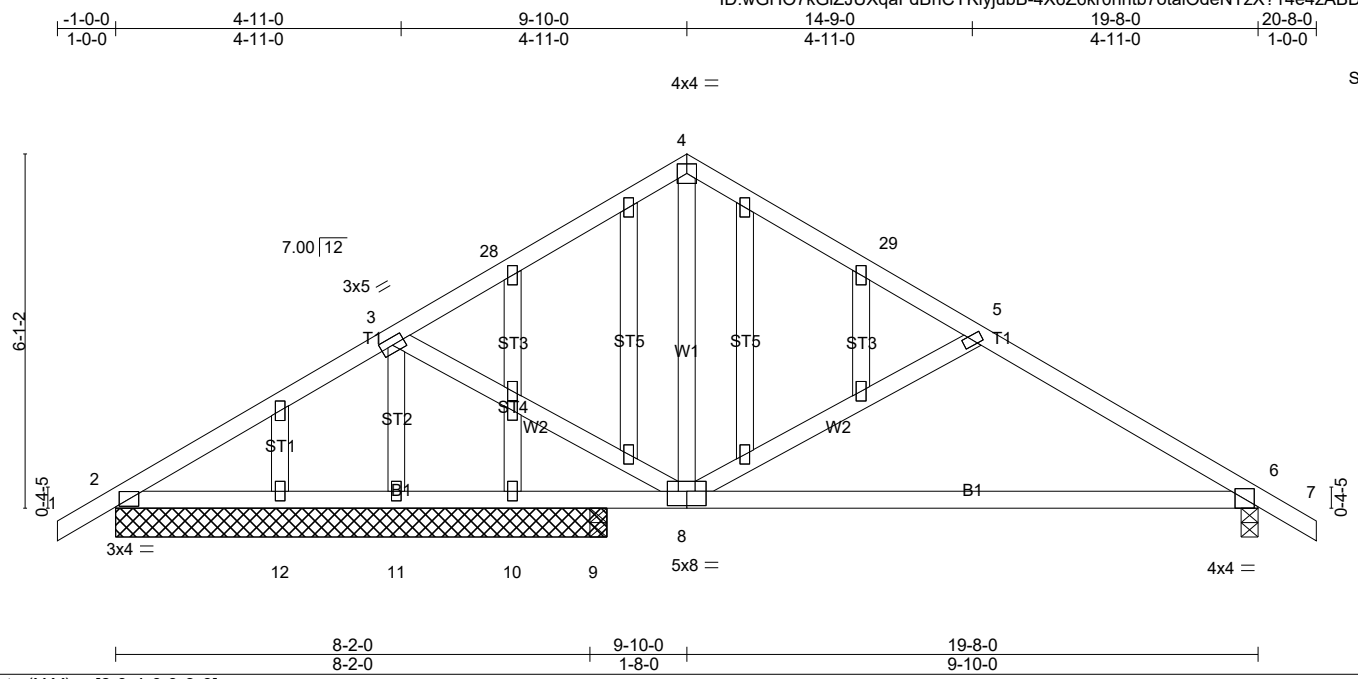


Plate Offsets (X,Y)-- [8:0-4-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.18 | 8-27 | >743 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.75 | Vert(CT) | -0.40 | 8-27 | >343 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 119 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-0 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.** (lb/size) 2=750/8-5-8 (min. 0-1-8), 10=-106/8-5-8 (min. 0-1-8), 11=43/8-5-8 (min. 0-1-8), 12=103/8-5-8 (min. 0-1-8), 6=843/0-3-8 (min. 0-1-8), 9=194/0-3-8 (min. 0-1-8), 2=750/8-5-8 (min. 0-1-8)
Max Horz 2=156(LC 15)
Max Uplift 2=-109(LC 16), 10=-135(LC 2), 6=-99(LC 17), 9=-104(LC 16)
Max Grav 2=880(LC 2), 10=59(LC 16), 11=75(LC 7), 12=124(LC 7), 6=979(LC 2), 9=245(LC 2), 2=750(LC 1)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1318/212, 3-28=-939/128, 4-28=-830/146, 4-29=-830/145, 5-29=-944/127, 5-6=-1340/205, 6-7=0/40
BOT CHORD 2-12=-148/1070, 11-12=-148/1070, 10-11=-148/1070, 9-10=-148/1070, 8-9=-148/1070, 6-8=-92/1129
WEBS 4-8=-16/497, 5-8=-483/197, 3-8=-420/211

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 109 lb uplift at joint 2, 135 lb uplift at joint 10, 99 lb uplift at joint 6, 104 lb uplift at joint 9 and 109 lb uplift at joint 2.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T02 | Common | 1 | 1 | Job Reference (optional) |

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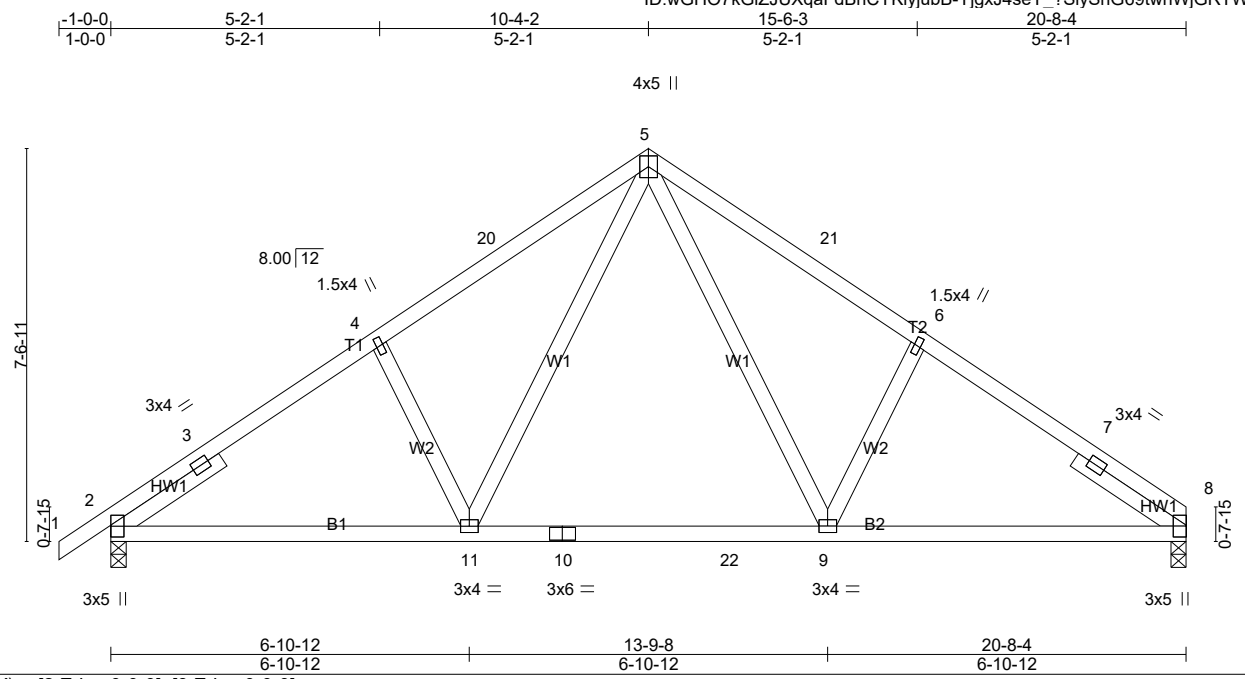


Plate Offsets (X,Y)-- [2:Edge,0-0-0], [8:Edge,0-0-0]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.11 | 9-11 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.17 | 9-11 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 112 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -˜ 2-6-0, Right 2x4 SP No.3 -˜ 2-6-0

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

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

**REACTIONS.** (lb/size) 8=890/0-3-8 (min. 0-1-8), 2=959/0-3-8 (min. 0-1-8)
Max Horz 2=181(LC 13)
Max Uplift 8=-87(LC 17), 2=-109(LC 16)
Max Grav 8=1032(LC 2), 2=1116(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-671/41, 3-4=-1248/215, 4-20=-1263/256, 5-20=-1142/275, 5-21=-1147/276, 6-21=-1269/256, 6-7=-1242/216, 7-8=-722/58
BOT CHORD 2-11=-152/1135, 10-11=-13/754, 10-22=-13/754, 9-22=-13/754, 8-9=-103/1099
WEBS 5-9=-121/557, 6-9=-359/206, 5-11=-119/550, 4-11=-353/204

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 87 lb uplift at joint 8 and 109 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T02GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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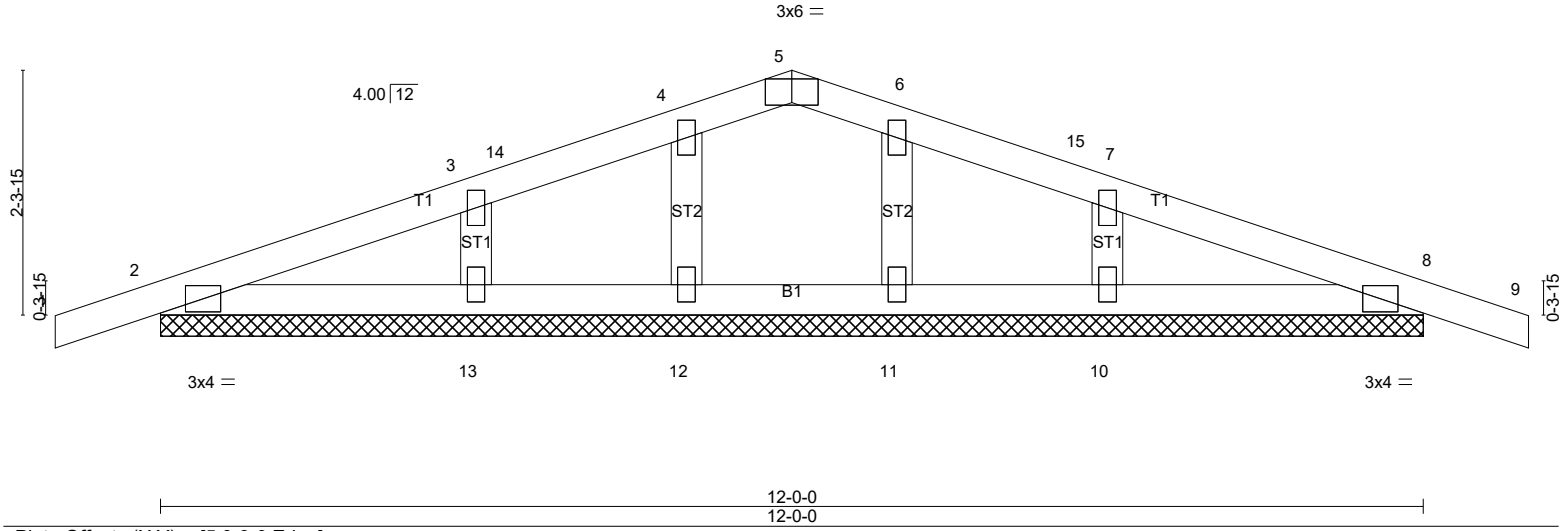


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | 0.00 | 8 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | 0.00 | 9 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 47 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**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.** (lb/size) 2=194/12-0-0 (min. 0-1-10), 8=194/12-0-0 (min. 0-1-10), 12=145/12-0-0 (min. 0-1-10), 13=244/12-0-0 (min. 0-1-10), 11=145/12-0-0 (min. 0-1-10), 10=244/12-0-0 (min. 0-1-10)
Max Horz 2=39(LC 20)
Max Uplift 2=-59(LC 12), 8=-63(LC 13), 12=-17(LC 12), 13=-55(LC 16), 11=-13(LC 13), 10=-56(LC 17)
Max Grav 2=230(LC 2), 8=230(LC 2), 12=168(LC 2), 13=285(LC 34), 11=168(LC 2), 10=285(LC 35)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-69/25, 3-14=-60/43, 4-14=-50/50, 4-5=-52/68, 5-6=-52/68, 6-15=-50/49, 7-15=-60/42, 7-8=-68/21, 8-9=0/23
BOT CHORD 2-13=-4/46, 12-13=-4/46, 11-12=-4/46, 10-11=-4/46, 8-10=-4/46
WEBS 4-12=-135/49, 3-13=-221/115, 6-11=-135/48, 7-10=-221/115

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 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) 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 3-6-0 tall by 2-0-0 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 59 lb uplift at joint 2, 63 lb uplift at joint 8, 17 lb uplift at joint 12, 55 lb uplift at joint 13, 13 lb uplift at joint 11 and 56 lb uplift at joint 10.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T03 | FLAT GIRDER | 1 | 4 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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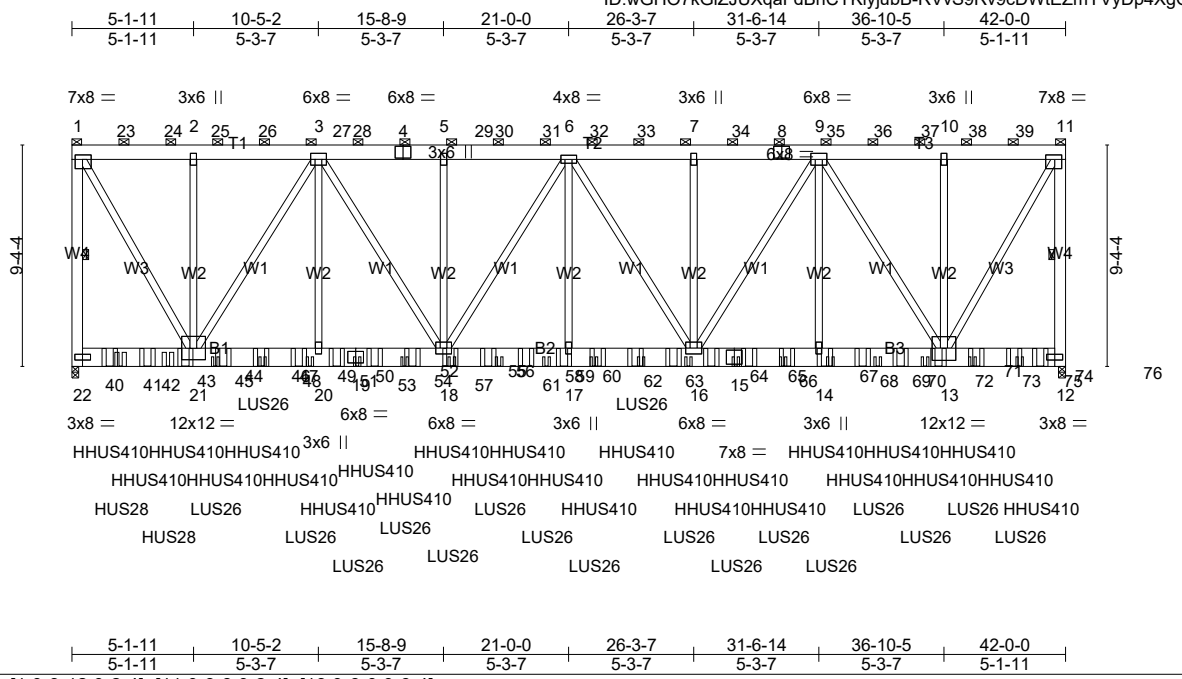


Plate Offsets (X,Y)-- [1:0-3-12,0-2-4], [11:0-3-8,0-2-4], [13:0-6-0,0-6-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.19 | 17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.33 | 17 | >999 | 240 | | |
| TCDL | 15.0 | Rep Stress Incr | NO | WB | 1.00 | Horz(CT) | 0.08 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 2104 lb | FT = 20% |
| BCDL | 15.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x8 SP DSS
BOT CHORD 2x10 SP No.2 *Except*
B2: 2x10 SP No.1
WEBS 2x4 SP DSS *Except*
W4: 2x6 SP No.2, W2: 2x4 SP No.3

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-11, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-22, 11-12

**REACTIONS.** (lb/size) 22=16148/0-3-8 (min. 0-2-1), 12=16410/0-3-8 (min. 0-2-2)
Max Horz 22=313(LC 15)
Max Uplift 22=-2642(LC 12), 12=-2641(LC 13)
Max Grav 22=17828(LC 3), 12=18178(LC 3)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-22=-16877/2525, 1-23=-9275/1424, 23-24=-9275/1424, 2-24=-9275/1424, 2-25=-9275/1424, 25-26=-9275/1424, 26-27=-9275/1424, 3-27=-9275/1424, 3-28=-20827/3007, 4-28=-20827/3007, 4-5=-20827/3007, 5-29=-20827/3007, 29-30=-20827/3007, 30-31=-20827/3007, 6-31=-20827/3007, 6-32=-20905/3013, 32-33=-20905/3013, 7-33=-20905/3013, 7-34=-20905/3013, 8-34=-20905/3013, 8-9=-20905/3013, 9-35=-9358/1434, 35-36=-9358/1434, 36-37=-9358/1434, 10-37=-9358/1434, 10-38=-9358/1434, 38-39=-9358/1434, 11-39=-9358/1434, 11-12=-17084/2524
BOT CHORD 22-40=-325/369, 40-41=-325/369, 41-42=-325/369, 42-43=-325/369, 43-44=-325/369, 44-45=-325/369, 21-45=-325/369, 21-46=-2556/16503, 46-47=-2556/16503, 47-48=-2556/16503, 48-49=-2556/16503, 49-50=-2556/16503, 50-51=-2556/16503, 20-51=-2556/16503, 20-52=-2556/16503, 19-52=-2556/16503, 19-53=-2556/16503, 53-54=-2556/16503, 54-55=-2556/16503, 55-56=-2556/16503, 18-56=-2556/16503, 18-57=-3315/22239, 57-58=-3315/22239, 58-59=-3315/22239, 59-60=-3315/22239, 60-61=-3315/22239, 17-61=-3315/22239, 17-62=-3315/22239, 62-63=-3315/22239, 63-64=-3315/22239, 16-64=-3315/22239, 16-65=-2465/16601, 15-65=-2465/16601, 15-66=-2465/16601, 66-67=-2465/16601, 14-67=-2465/16601, 14-68=-2465/16601, 68-69=-2465/16601, 69-70=-2465/16601, 70-71=-2465/16601, 71-72=-2465/16601, 13-72=-2465/16601, 13-73=-127/171, 73-74=-127/171, 74-75=-127/171, 75-76=-127/171, 12-76=-127/171
WEBS 1-21=-2689/18636, 2-21=-2136/238, 3-21=-13881/2010, 3-20=-399/2617, 3-18=-1228/8303, 5-18=-2025/212, 6-18=-2712/425, 6-17=-356/2348, 6-16=-2562/408, 7-16=-2150/220, 9-16=-1223/8265, 9-14=-399/2547, 9-13=-13909/2009, 10-13=-2252/244, 11-13=-2710/18798

**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, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.
Webs connected 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.
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) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Continued on page 2

**NOTES-**

4) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
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.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 15.0psf.
9) Bearing at joint(s) 22, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2642 lb uplift at joint 22 and 2641 lb uplift at joint 12.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Use Simpson Strong-Tie HHUS410 (30-10d Girder, 10-10d Truss, Single Ply Girder) or equivalent spaced at 1-7-3 oc max. starting at 1-7-3 from the left end to 40-11-2 to connect truss(es) F11 (1 ply 2x4 SP), F12 (1 ply 2x4 SP), F13 (1 ply 2x4 SP), F12 (1 ply 2x4 SP) to front face of bottom chord.
14) Use Simpson Strong-Tie HUS28 (22-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) T05 (1 ply 2x4 SP) to back face of bottom chord.
15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 40-0-12 to connect truss(es) T05 (1 ply 2x4 SP), T06 (1 ply 2x4 SP), T05 (1 ply 2x4 SP), T06 (1 ply 2x4 SP) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 173 lb down and 130 lb up at 0-2-12, 689 lb down and 106 lb up at 2-0-12 , 689 lb down and 106 lb up at 4-0-12, 689 lb down and 106 lb up at 6-0-12, 689 lb down and 106 lb up at 8-0-12, 689 lb down and 106 lb up at 10-0-12, 689 lb down and 106 lb up at 12-0-12, 689 lb down and 106 lb up at 14-0-12, 689 lb down and 106 lb up at 16-0-12, 689 lb down and 106 lb up at 18-0-12, 689 lb down and 106 lb up at 20-0-12, 689 lb down and 106 lb up at 22-0-12, 733 lb down and 108 lb up at 24-0-12, 733 lb down and 108 lb up at 26-0-12, 733 lb down and 108 lb up at 28-0-12, 733 lb down and 108 lb up at 30-0-12, 733 lb down and 108 lb up at 32-0-12, 733 lb down and 108 lb up at 34-0-12, 733 lb down and 108 lb up at 36-0-12, 733 lb down and 108 lb up at 38-0-12, and 733 lb down and 108 lb up at 40-0-12, and 177 lb down and 103 lb up at 41-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-11=-76, 12-22=-30
   Concentrated Loads (lb)
      Vert: 1=-3 4=-595 11=-10 19=-697(B) 18=-77(F) 17=-77(F) 7=-633 16=-697(B) 14=-77(F) 13=-77(F) 8=-633 15=-697(B) 23=-595 24=-595 25=-595 26=-595 27=-595 28=-595 29=-595 30=-595 31=-595 32=-595 33=-633 34=-633 35=-633 36=-633 37=-633 38=-633 39=-633 40=-77(F) 41=-697(B) 43=-77(F) 44=-697(B) 45=-77(F) 46=-697(B) 47=-77(F) 49=-775(F=-77, B=-697) 50=-77(F) 51=-697(B) 52=-77(F) 53=-77(F) 55=-697(B) 56=-77(F) 57=-697(B) 58=-77(F) 59=-697(B) 60=-77(F) 61=-697(B) 62=-766(F=-77, B=-689) 63=-766(F=-77, B=-689) 64=-77(F) 65=-77(F) 66=-77(F) 67=-766(F=-77, B=-689) 68=-689(B) 69=-77(F) 70=-689(B) 71=-77(F) 72=-689(B) 73=-766(F=-77, B=-689) 75=-766(F=-77, B=-689) 76=-77(F)

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T03GE | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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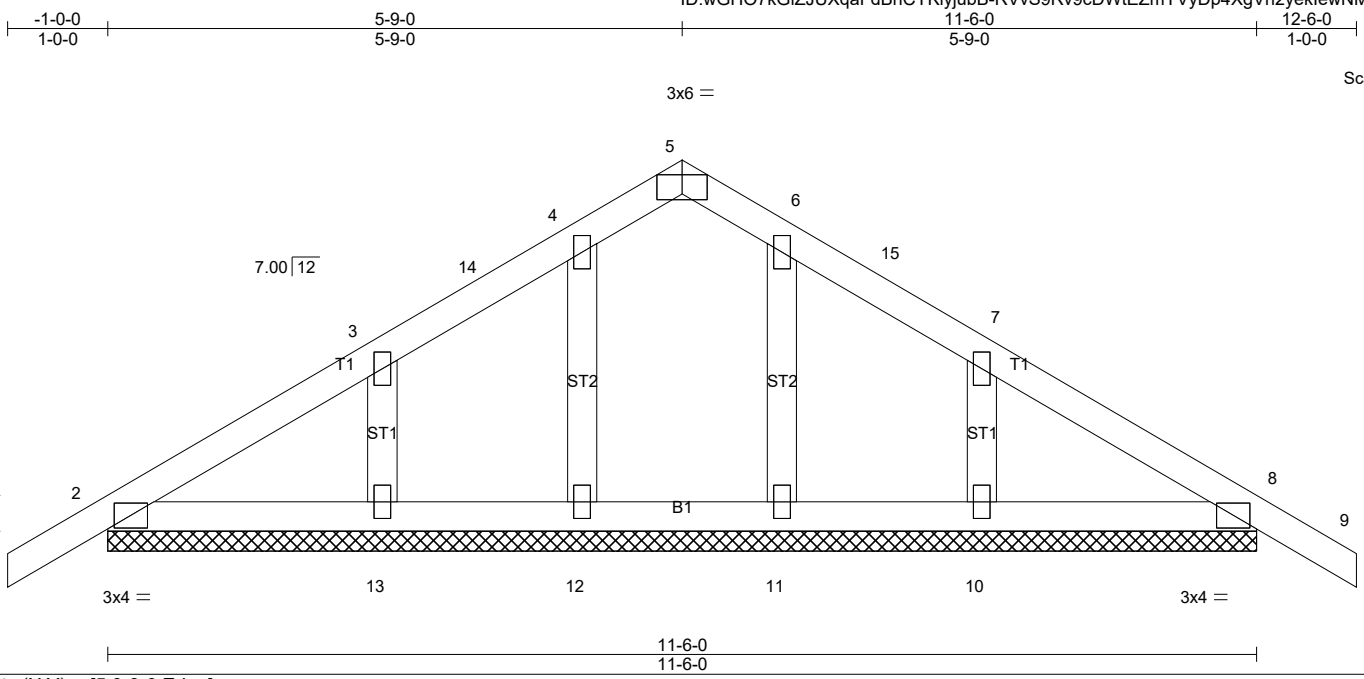


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.09 | Vert(LL) | -0.00 | 8 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | 0.00 | 8 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 53 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**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.** (lb/size) 2=193/11-6-0 (min. 0-1-9), 8=193/11-6-0 (min. 0-1-9), 12=142/11-6-0 (min. 0-1-9), 13=226/11-6-0 (min. 0-1-9), 11=142/11-6-0 (min. 0-1-9), 10=226/11-6-0 (min. 0-1-9)
Max Horz 2=-97(LC 14)
Max Uplift 2=-5(LC 16), 8=-12(LC 17), 12=-18(LC 16), 13=-78(LC 16), 11=-10(LC 17), 10=-79(LC 17)
Max Grav 2=229(LC 2), 8=229(LC 2), 12=164(LC 2), 13=263(LC 34), 11=164(LC 2), 10=263(LC 31)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-112/55, 3-14=-87/31, 4-14=-49/40, 4-5=-67/54, 5-6=-67/55, 6-15=-36/31, 7-15=-82/21, 7-8=-102/48, 8-9=0/38
BOT CHORD 2-13=-58/100, 12-13=-58/100, 11-12=-58/100, 10-11=-58/100, 8-10=-58/100
WEBS 4-12=-129/41, 3-13=-205/109, 6-11=-129/33, 7-10=-205/109

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 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) 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 3-6-0 tall by 2-0-0 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 5 lb uplift at joint 2, 12 lb uplift at joint 8, 18 lb uplift at joint 12, 78 lb uplift at joint 13, 10 lb uplift at joint 11 and 79 lb uplift at joint 10.
13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T04 | Common | 6 | 1 | Job Reference (optional) |

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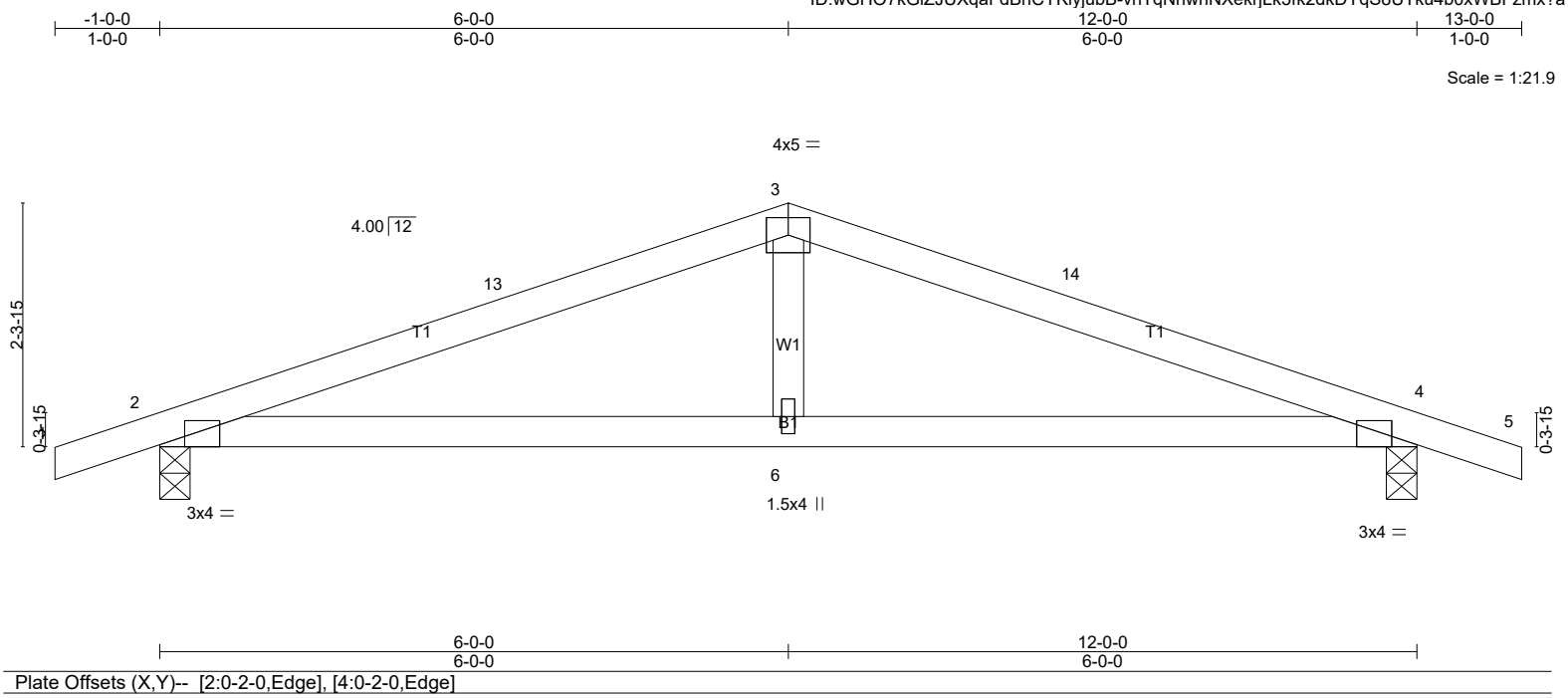


Plate Offsets (X,Y)-- [2:0-2-0,Edge], [4:0-2-0,Edge]

| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | -0.07 | 6-9 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.12 | 6-9 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.02 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 43 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=583/0-3-8 (min. 0-1-8), 4=583/0-3-8 (min. 0-1-8)
Max Horz 2=39(LC 20)
Max Uplift2=-108(LC 12), 4=-108(LC 13)
Max Grav 2=680(LC 2), 4=680(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/25, 2-13=-1123/251, 3-13=-1059/261, 3-14=-1059/261, 4-14=-1123/251, 4-5=0/25
BOT CHORD 2-6=-170/1009, 4-6=-170/1009
WEBS 3-6=0/276

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 108 lb uplift at joint 2 and 108 lb uplift at joint 4.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T04GE | GABLE | 1 | 1 | Job Reference (optional) |

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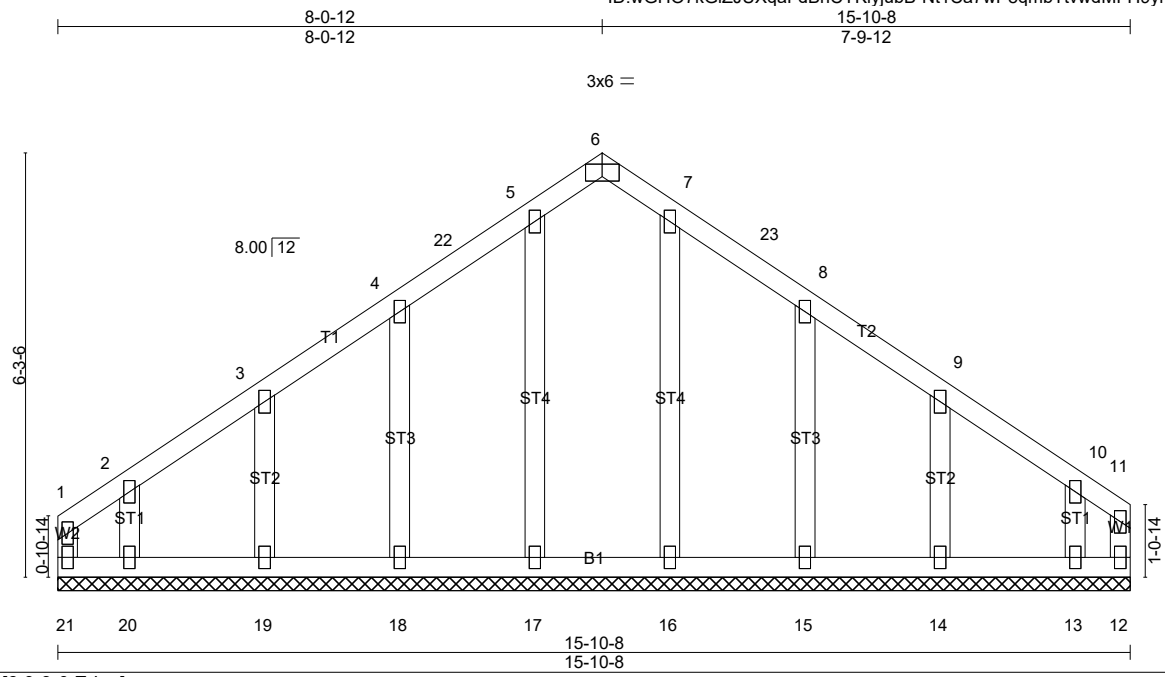


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 91 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 21=35/15-10-8 (min. 0-1-13), 12=23/15-10-8 (min. 0-1-13), 17=163/15-10-8 (min. 0-1-13), 18=172/15-10-8 (min. 0-1-13), 19=179/15-10-8 (min. 0-1-13), 20=133/15-10-8 (min. 0-1-13), 16=163/15-10-8 (min. 0-1-13), 15=172/15-10-8 (min. 0-1-13), 14=179/15-10-8 (min. 0-1-13), 13=124/15-10-8 (min. 0-1-13)
Max Horz 21=157(LC 13)
Max Uplift 21=-111(LC 14), 12=-116(LC 15), 18=-85(LC 16), 19=-53(LC 16), 20=-147(LC 16), 15=-86(LC 17), 14=-56(LC 17), 13=-174(LC 17)
Max Grav 21=152(LC 13), 12=176(LC 17), 17=189(LC 29), 18=202(LC 33), 19=207(LC 2), 20=218(LC 29), 16=190(LC 23), 15=205(LC 30), 14=207(LC 2), 13=215(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-21=-101/75, 1-2=-143/114, 2-3=-106/80, 3-4=-96/69, 4-22=-109/110, 5-22=-95/116, 5-6=-107/110, 6-7=-107/110, 7-23=-95/116, 8-23=-109/110, 8-9=-73/54, 9-10=-85/55, 10-11=-136/84, 11-12=-113/68 |
| BOT CHORD | 20-21=-70/86, 19-20=-70/86, 18-19=-70/86, 17-18=-70/86, 16-17=-70/86, 15-16=-70/86, 14-15=-70/86, 13-14=-70/86, 12-13=-70/86 |
| WEBS | 5-17=-149/17, 4-18=-163/107, 3-19=-165/83, 2-20=-156/116, 7-16=-150/0, 8-15=-165/109, 9-14=-165/85, 10-13=-153/127 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 111 lb uplift at joint 21, 116 lb uplift at joint 12, 85 lb uplift at joint 18, 53 lb uplift at joint 19, 147 lb uplift at joint 20, 86 lb uplift at joint 15, 56 lb uplift at joint 14 and 174 lb uplift at joint 13.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T04GE | GABLE | 1 | 1 | Job Reference (optional) |



**NOTES-**

13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T05 | Common | 12 | 1 | Job Reference (optional) |

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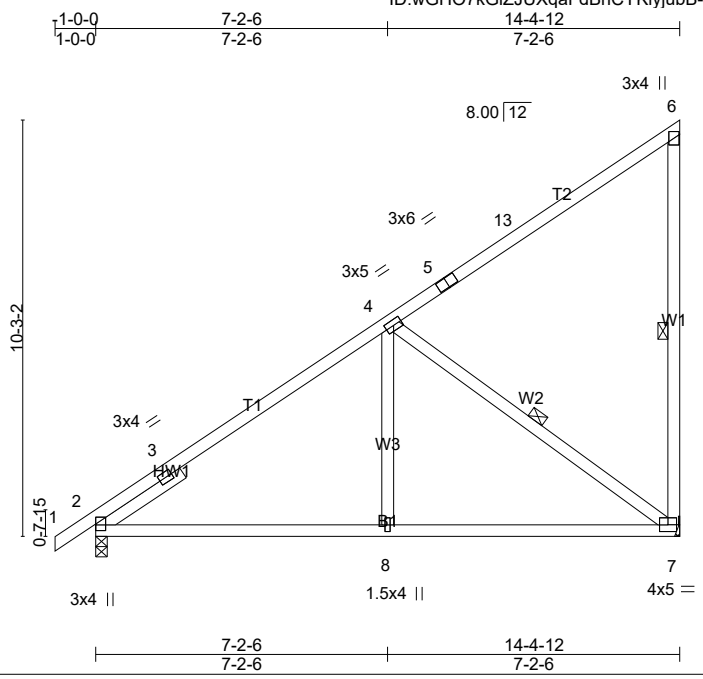


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.93 | Vert(LL) | 0.07 | 8-11 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.12 | 7-8 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 87 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* |
| | W1: 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.3 -˜ 2-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 9-11-7 oc bracing. |
| WEBS | 1 Row at midpt 6-7, 4-7 |

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

**REACTIONS.** (lb/size) 2=683/0-3-8 (min. 0-1-8), 7=612/Mechanical
Max Horz 2=378(LC 15)
Max Uplift2=-59(LC 16), 7=-171(LC 16)
Max Grav 2=795(LC 2), 7=737(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-3=-414/0, 3-4=-597/136, 4-5=-289/154, 5-13=-204/182, 6-13=-195/217, 6-7=-279/173
BOT CHORD 2-8=-305/642, 7-8=-305/642
WEBS 4-8=0/325, 4-7=-733/249

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; 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 23.1 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 3-6-0 tall by 2-0-0 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 59 lb uplift at joint 2 and 171 lb uplift at joint 7.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T05GE | GABLE | 1 | 1 | Job Reference (optional) |

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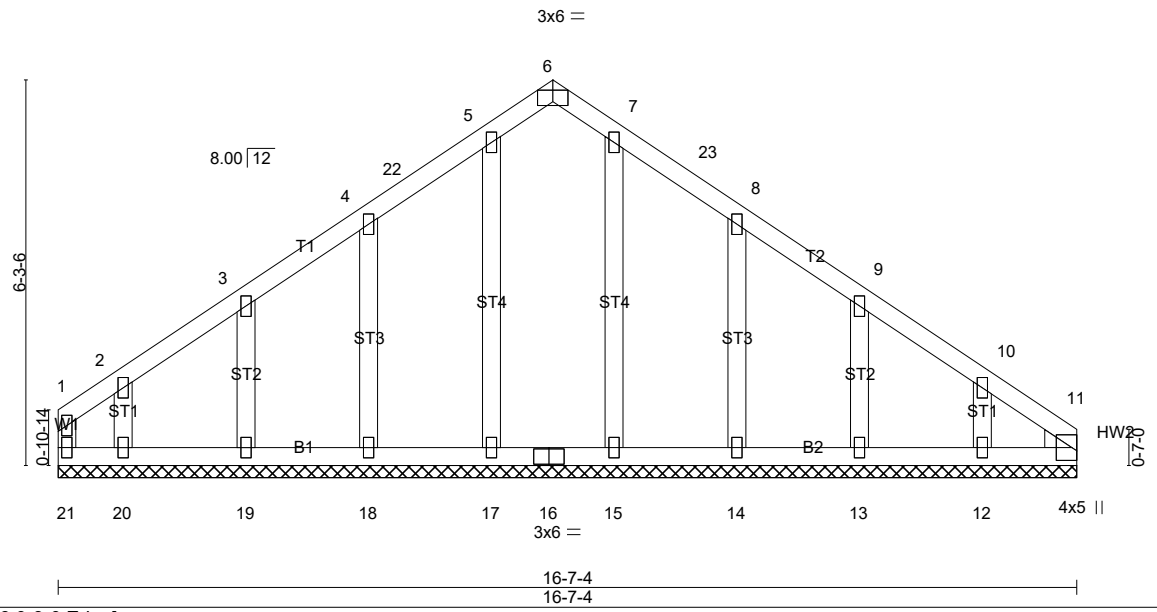


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 93 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 21=42/16-7-4 (min. 0-1-15), 17=160/16-7-4 (min. 0-1-15), 18=173/16-7-4 (min. 0-1-15), 19=179/16-7-4 (min. 0-1-15), 20=130/16-7-4 (min. 0-1-15), 15=159/16-7-4 (min. 0-1-15), 14=174/16-7-4 (min. 0-1-15), 13=173/16-7-4 (min. 0-1-15), 11=63/16-7-4 (min. 0-1-15), 12=166/16-7-4 (min. 0-1-15)
Max Horz 21=-156(LC 12)
Max Uplift 21=-83(LC 14), 18=-84(LC 16), 19=-53(LC 16), 20=-153(LC 16), 14=-81(LC 17), 13=-60(LC 17), 11=-29(LC 15), 12=-88(LC 17)
Max Grav 21=160(LC 16), 17=192(LC 22), 18=205(LC 29), 19=207(LC 2), 20=202(LC 29), 15=187(LC 23), 14=204(LC 34), 13=201(LC 2), 11=109(LC 32), 12=205(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-21=-108/55, 1-2=-152/92, 2-3=-98/58, 3-4=-82/42, 4-22=-93/85, 5-22=-79/92, 5-6=-96/94, 6-7=-96/94, 7-23=-79/92, 8-23=-93/86, 8-9=-92/55, 9-10=-105/73, 10-11=-162/105
BOT CHORD 20-21=-84/141, 19-20=-84/141, 18-19=-84/141, 17-18=-84/141, 16-17=-84/141, 15-16=-84/141, 14-15=-84/141, 13-14=-84/141, 12-13=-84/141, 11-12=-84/141
WEBS 5-17=-152/7, 4-18=-164/106, 3-19=-165/83, 2-20=-149/119, 7-15=-147/16, 8-14=-164/105, 9-13=-161/85, 10-12=-161/107

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
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 3-6-0 tall by 2-0-0 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 83 lb uplift at joint 21, 84 lb uplift at joint 18, 53 lb uplift at joint 19, 153 lb uplift at joint 20, 81 lb uplift at joint 14, 60 lb uplift at joint 13, 29 lb uplift at joint 11 and 88 lb uplift at joint 12.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T05GE | GABLE | 1 | 1 | Job Reference (optional) |



**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T06 | Common | 8 | 1 | Job Reference (optional) |

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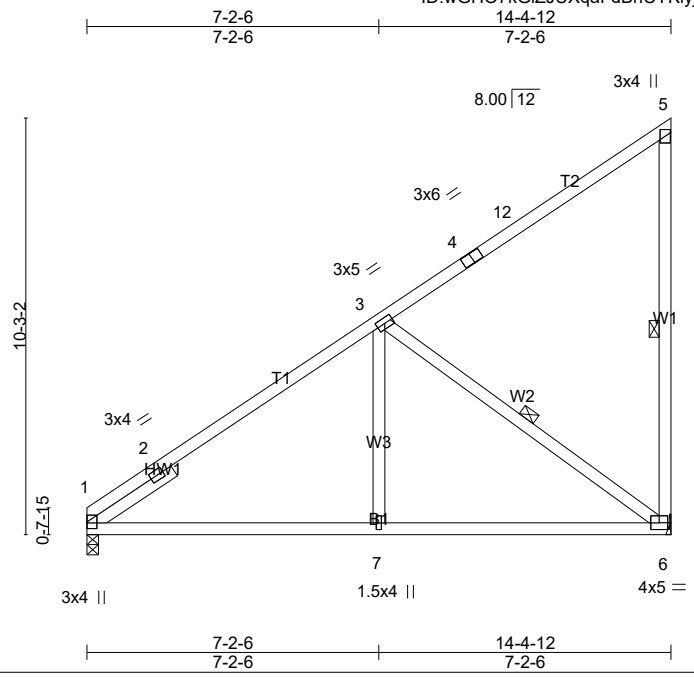


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | 0.07 | 7-10 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.12 | 6-7 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.02 | 1 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 85 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* |
| | W1: 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.3 -˜ 2-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 9-11-1 oc bracing. |
| WEBS | 1 Row at midpt 5-6, 3-6 |

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

**REACTIONS.** (lb/size) 1=614/0-3-8 (min. 0-1-8), 6=614/Mechanical
Max Horz 1=367(LC 15)
Max Uplift1=-37(LC 16), 6=-171(LC 16)
Max Grav 1=712(LC 2), 6=739(LC 29)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-2=-444/0, 2-3=-600/139, 3-4=-289/154, 4-12=-203/184, 5-12=-195/217, 5-6=-272/173 |
| BOT CHORD | 1-7=-306/646, 6-7=-306/646 |
| WEBS | 3-7=0/326, 3-6=-739/251 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 171 lb uplift at joint 6.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T07 | Common | 5 | 1 | Job Reference (optional) |

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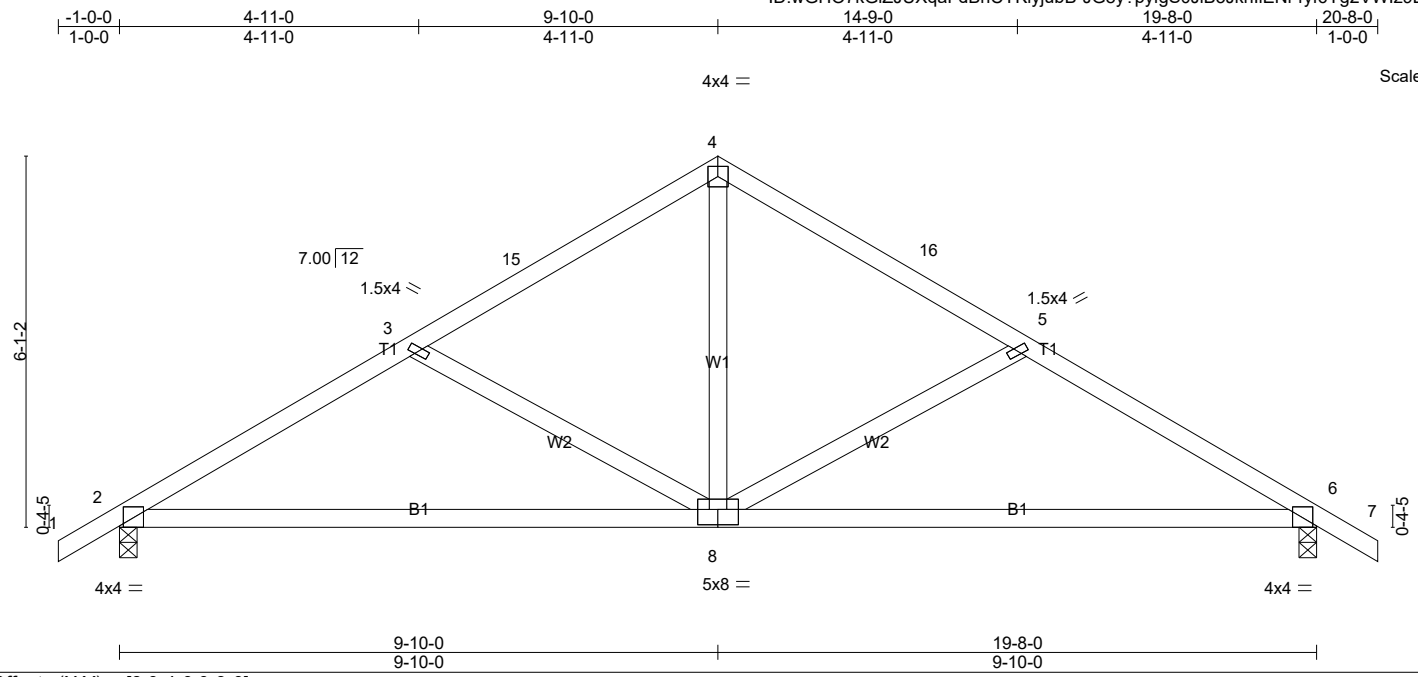


Plate Offsets (X,Y)-- [8:0-4-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.15 | 8-14 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.32 | 8-14 | >744 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.31 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 92 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 2=914/0-3-8 (min. 0-1-8), 6=914/0-3-8 (min. 0-1-8)
Max Horz 2=156(LC 15)
Max Uplift2=-110(LC 16), 6=-110(LC 17)
Max Grav 2=1063(LC 2), 6=1063(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1518/242, 3-15=-1129/164, 4-15=-1016/183, 4-16=-1016/183, 5-16=-1129/164, 5-6=-1518/242, 6-7=0/40
BOT CHORD 2-8=-165/1276, 6-8=-124/1276
WEBS 4-8=-51/662, 5-8=-473/198, 3-8=-473/198

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 110 lb uplift at joint 2 and 110 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T08 | Common | 11 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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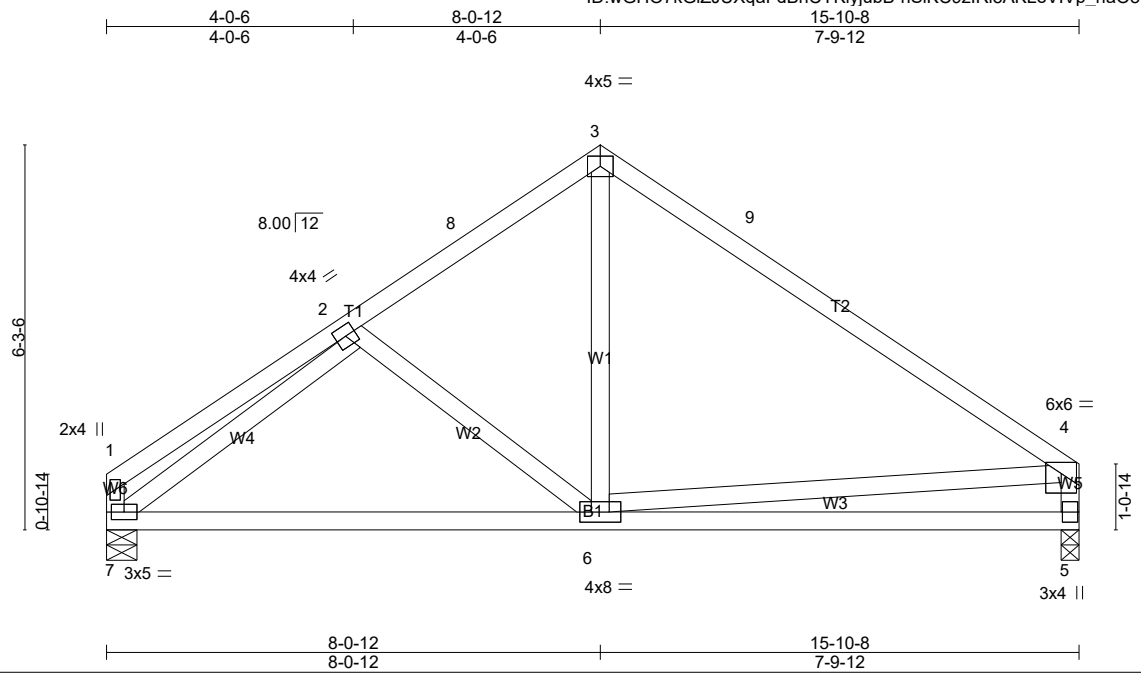


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | -0.07 | 6-7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.15 | 6-7 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 88 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

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

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

**REACTIONS.** (lb/size) 5=672/0-3-8 (min. 0-1-8), 7=672/0-6-0 (min. 0-1-8)
Max Horz 7=157(LC 13)
Max Uplift 5=-63(LC 17), 7=-64(LC 16)
Max Grav 5=779(LC 2), 7=779(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-288/75, 2-8=-757/136, 3-8=-591/160, 3-9=-602/129, 4-9=-848/104, 1-7=-260/77, 4-5=-710/142
BOT CHORD 6-7=-113/703, 5-6=-133/359
WEBS 2-6=-237/156, 3-6=0/352, 2-7=-695/117, 4-6=-53/271

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 64 lb uplift at joint 7.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | T09 | Common | 9 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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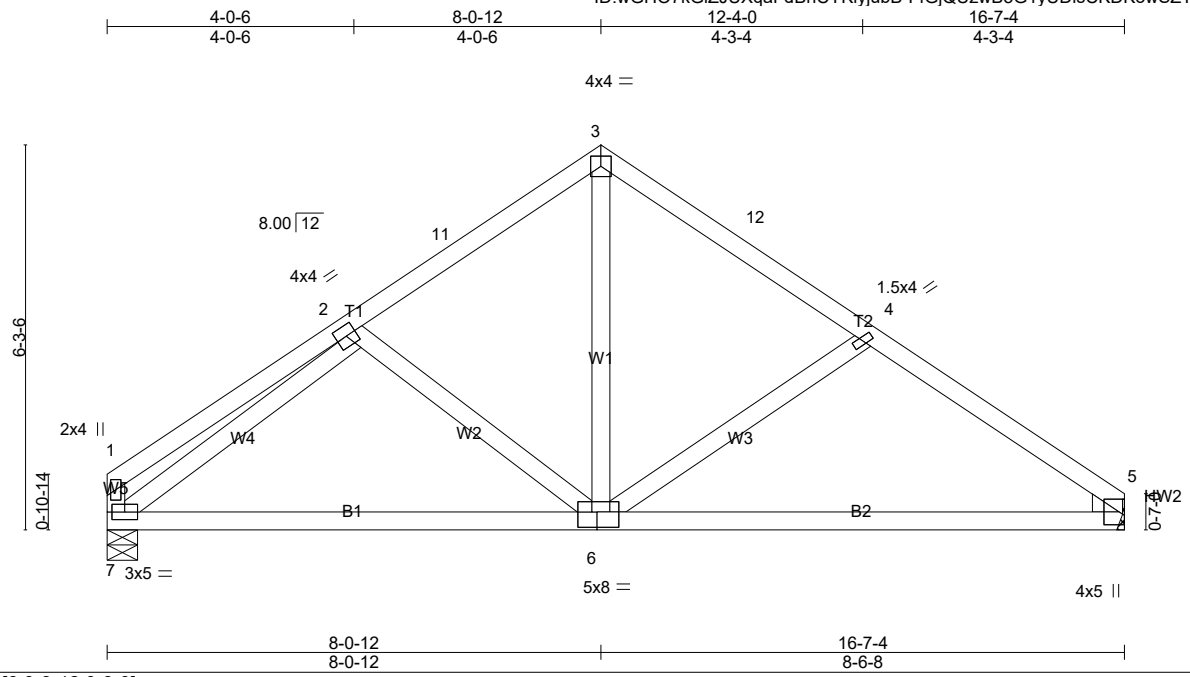


Scale = 1:37.6

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.32 | Vert(LL) | -0.08 | 6-10 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.61 | Vert(CT) | -0.16 | 6-10 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 86 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 7=709/0-6-0 (min. 0-1-8), 5=709/Mechanical
Max Horz 7=-153(LC 14)
Max Uplift 7=-66(LC 16), 5=-71(LC 17)
Max Grav 7=823(LC 2), 5=823(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-278/64, 2-11=-821/151, 3-11=-723/166, 3-12=-717/162, 4-12=-822/148, 4-5=-1105/190, 1-7=-248/67
BOT CHORD 6-7=-121/763, 5-6=-92/865
WEBS 2-6=-241/165, 3-6=-69/480, 4-6=-342/172, 2-7=-779/139

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
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 3-6-0 tall by 2-0-0 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 66 lb uplift at joint 7 and 71 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V01 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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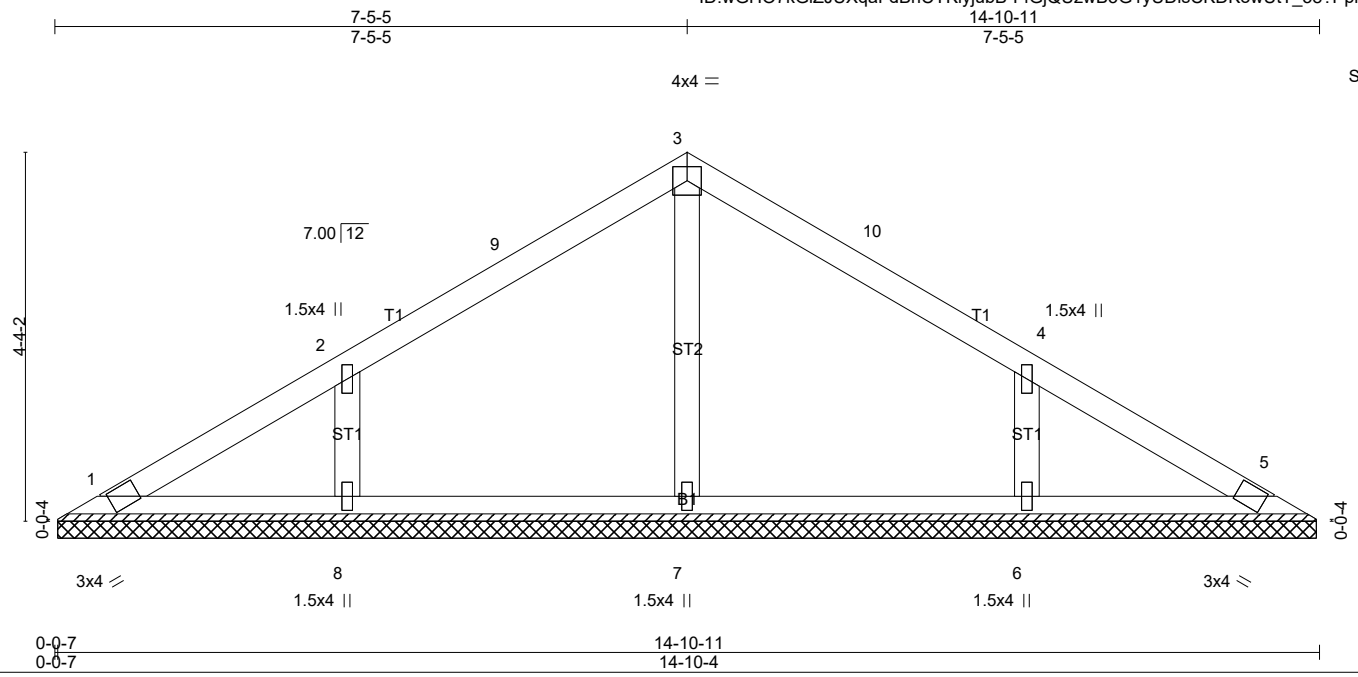


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 56 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**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.** (lb/size) 1=104/14-9-13 (min. 0-1-10), 5=104/14-9-13 (min. 0-1-10), 7=289/14-9-13 (min. 0-1-10), 8=347/14-9-13 (min. 0-1-10), 6=347/14-9-13 (min. 0-1-10)
Max Horz 1=-100(LC 12)
Max Uplift 1=-11(LC 17), 8=-120(LC 16), 6=-120(LC 17)
Max Grav 1=121(LC 2), 5=121(LC 2), 7=332(LC 2), 8=413(LC 33), 6=413(LC 34)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-111/79, 2-9=-134/83, 3-9=-81/95, 3-10=-81/89, 4-10=-131/77, 4-5=-82/50
BOT CHORD 1-8=-25/62, 7-8=-25/62, 6-7=-25/62, 5-6=-25/62
WEBS 3-7=-251/19, 2-8=-333/163, 4-6=-333/163

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 11 lb uplift at joint 1, 120 lb uplift at joint 8 and 120 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V02 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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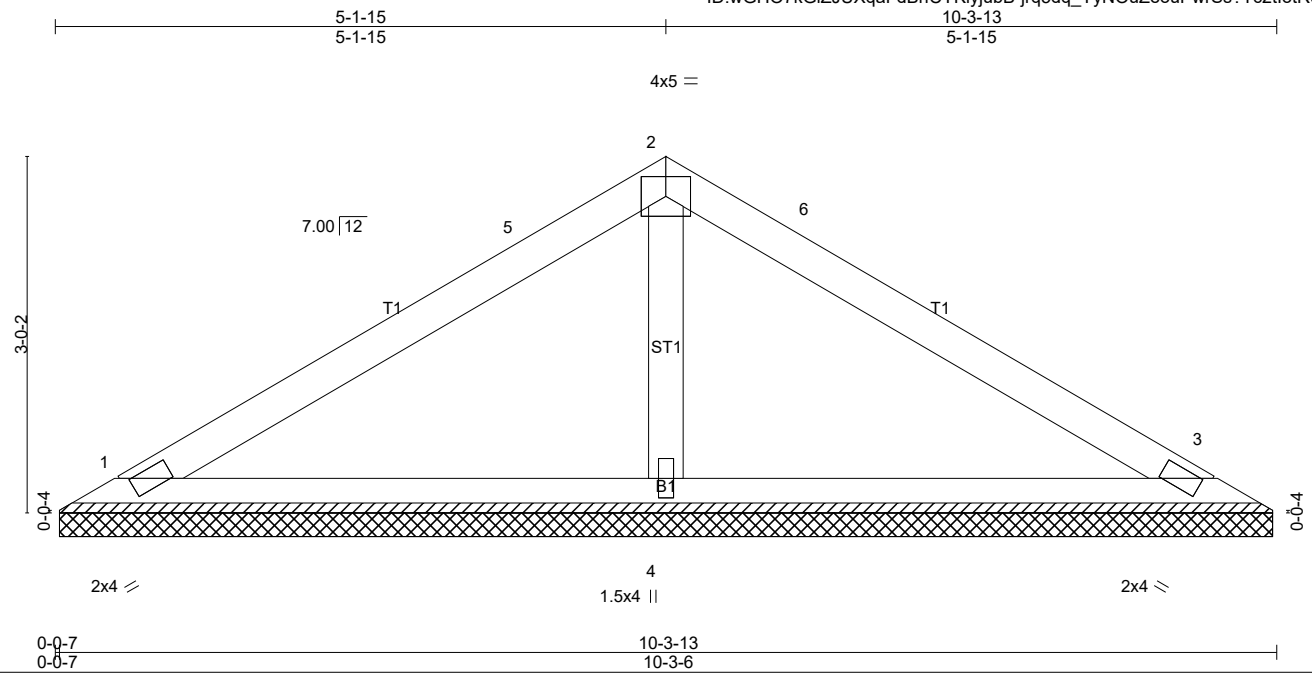


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.40 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 35 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.** (lb/size) 1=189/10-2-15 (min. 0-1-8), 3=189/10-2-15 (min. 0-1-8), 4=418/10-2-15 (min. 0-1-8)
Max Horz 1=-67(LC 12)
Max Uplift1=-34(LC 16), 3=-43(LC 17), 4=-15(LC 16)
Max Grav 1=221(LC 2), 3=221(LC 2), 4=481(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-146/47, 2-5=-38/65, 2-6=-38/57, 3-6=-146/38
BOT CHORD 1-4=-12/59, 3-4=-12/59
WEBS 2-4=-336/94

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 34 lb uplift at joint 1, 43 lb uplift at joint 3 and 15 lb uplift at joint 4.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V03 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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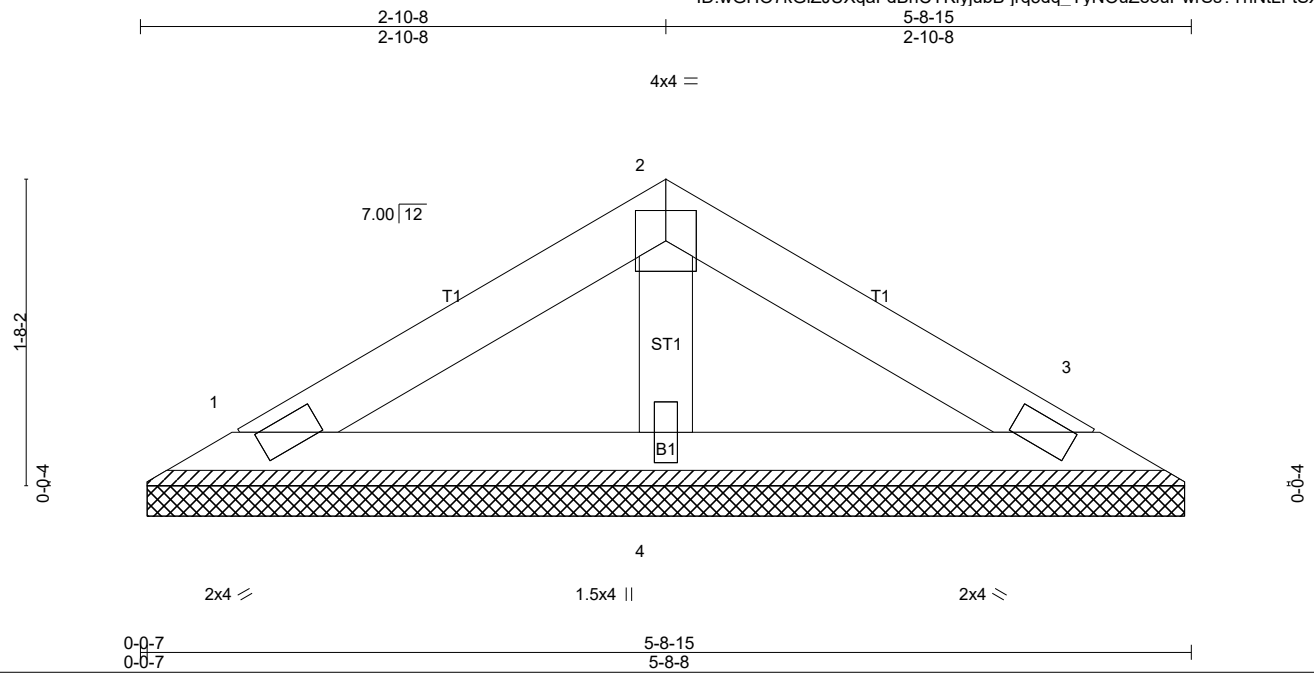


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 18 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**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 5-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=106/5-8-2 (min. 0-1-8), 3=106/5-8-2 (min. 0-1-8), 4=190/5-8-2 (min. 0-1-8)
Max Horz 1=-34(LC 12)
Max Uplift1=-22(LC 16), 3=-27(LC 17)
Max Grav 1=124(LC 2), 3=124(LC 2), 4=218(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-65/31, 2-3=-64/27
BOT CHORD 1-4=-6/27, 3-4=-6/27
WEBS 2-4=-160/49

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 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 3-6-0 tall by 2-0-0 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 22 lb uplift at joint 1 and 27 lb uplift at joint 3.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V04 | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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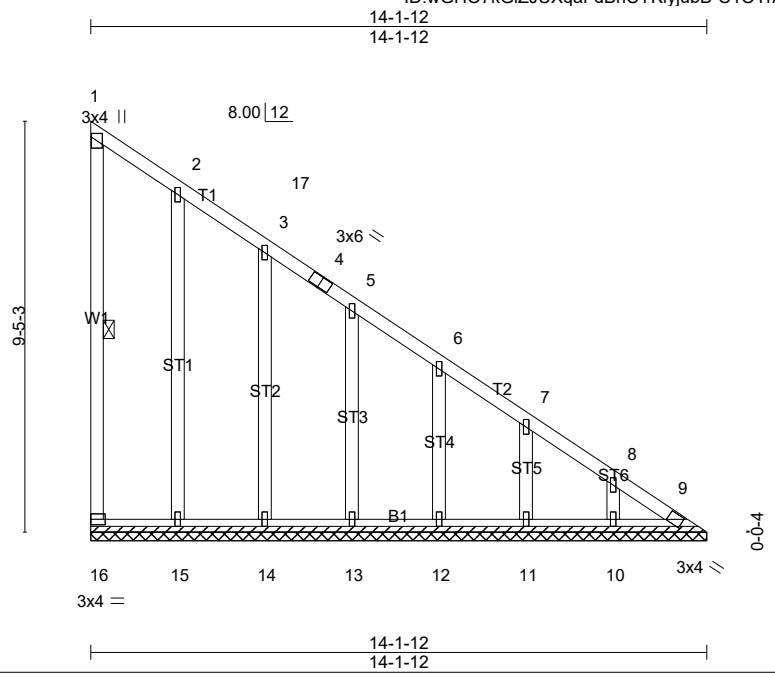


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 96 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 9-1-12 oc bracing. |
| WEBS | 1 Row at midpt 1-16 |

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

**REACTIONS.** (lb/size) 16=66/14-1-12 (min. 0-1-10), 15=181/14-1-12 (min. 0-1-10), 14=172/14-1-12 (min. 0-1-10), 13=172/14-1-12 (min. 0-1-10), 12=172/14-1-12 (min. 0-1-10), 11=172/14-1-12 (min. 0-1-10), 10=176/14-1-12 (min. 0-1-10), 9=54/14-1-12 (min. 0-1-10)
Max Horz 16=-340(LC 12)
Max Uplift 16=-69(LC 14), 15=-71(LC 17), 14=-59(LC 17), 13=-66(LC 17), 12=-63(LC 17), 11=-64(LC 17), 10=-65(LC 17), 9=-73(LC 15)
Max Grav 16=99(LC 30), 15=248(LC 23), 14=202(LC 30), 13=200(LC 2), 12=201(LC 30), 11=200(LC 30), 10=204(LC 30), 9=174(LC 12)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-16=-74/43, 1-2=-126/123, 2-17=-198/216, 3-17=-210/196, 3-4=-257/258, 4-5=-264/238, 5-6=-325/309, 6-7=-385/358, 7-8=-446/408, 8-9=-502/457 |
| BOT CHORD | 15-16=-385/432, 14-15=-385/432, 13-14=-385/432, 12-13=-385/432, 11-12=-385/432, 10-11=-385/432, 9-10=-385/432 |
| WEBS | 2-15=-206/150, 3-14=-160/105, 5-13=-161/87, 6-12=-160/88, 7-11=-161/88, 8-10=-159/86 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
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 3-6-0 tall by 2-0-0 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 69 lb uplift at joint 16, 71 lb uplift at joint 15, 59 lb uplift at joint 14, 66 lb uplift at joint 13, 63 lb uplift at joint 12, 64 lb uplift at joint 11, 65 lb uplift at joint 10 and 73 lb uplift at joint 9.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V05 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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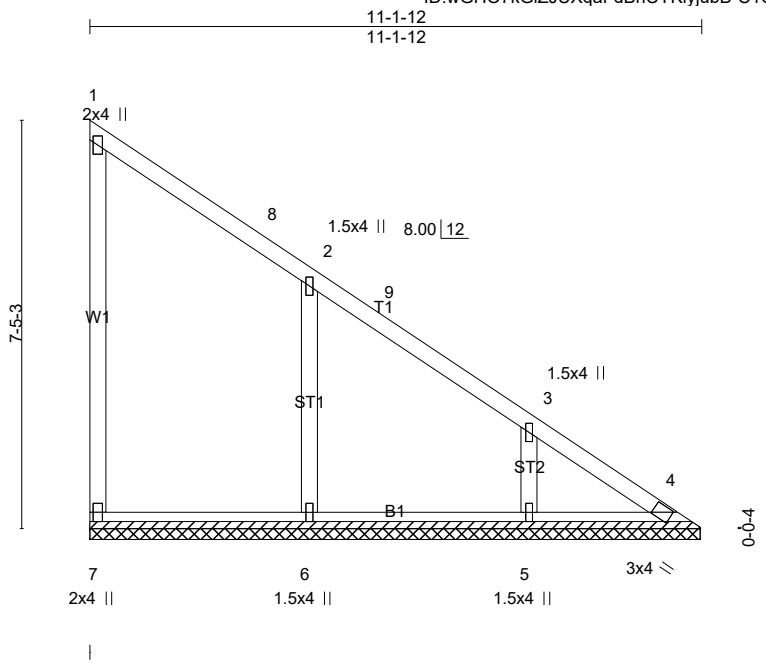


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 54 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 7=135/11-1-6 (min. 0-1-8), 4=82/11-1-6 (min. 0-1-8), 6=378/11-1-6 (min. 0-1-8), 5=312/11-1-6 (min. 0-1-8)
Max Horz 7=-264(LC 12)
Max Uplift 7=-50(LC 12), 4=-34(LC 13), 6=-82(LC 17), 5=-119(LC 17)
Max Grav 7=226(LC 30), 4=159(LC 29), 6=509(LC 30), 5=362(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-144/106, 1-8=-130/145, 2-8=-175/111, 2-9=-267/277, 3-9=-291/253, 3-4=-392/359
BOT CHORD 6-7=-304/347, 5-6=-304/347, 4-5=-304/347
WEBS 2-6=-357/212, 3-5=-285/165

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 7, 34 lb uplift at joint 4, 82 lb uplift at joint 6 and 119 lb uplift at joint 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V06 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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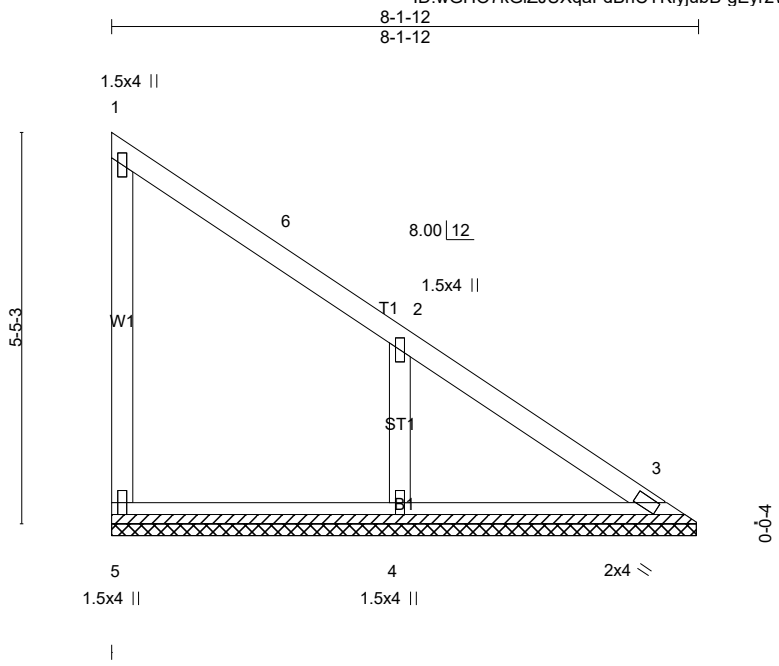


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.43 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 5=127/8-1-6 (min. 0-1-8), 3=116/8-1-6 (min. 0-1-8), 4=405/8-1-6 (min. 0-1-8)
Max Horz 5=-189(LC 12)
Max Uplift5=-38(LC 12), 3=-6(LC 13), 4=-136(LC 17)
Max Grav 5=159(LC 30), 3=160(LC 29), 4=470(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-5=-143/108, 1-6=-119/130, 2-6=-156/112, 2-3=-278/265 |
| BOT CHORD | 4-5=-229/262, 3-4=-229/262 |
| WEBS | 2-4=-376/219 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 5, 6 lb uplift at joint 3 and 136 lb uplift at joint 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V07 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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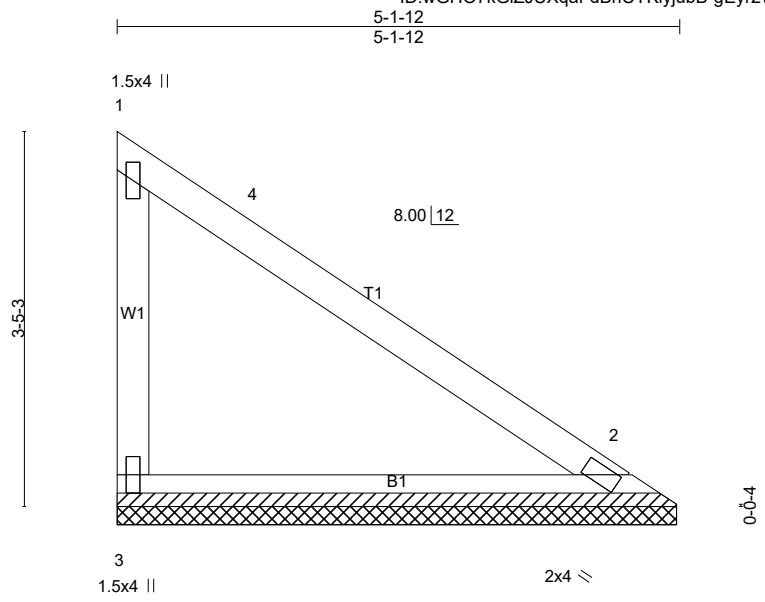


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| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 20 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=195/5-1-6 (min. 0-1-8), 2=195/5-1-6 (min. 0-1-8)
Max Horz 3=-114(LC 12)
Max Uplift 3=-53(LC 17), 2=-13(LC 17)
Max Grav 3=233(LC 30), 2=226(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-188/137, 1-4=-114/132, 2-4=-135/112
BOT CHORD 2-3=-143/166

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 13 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V08 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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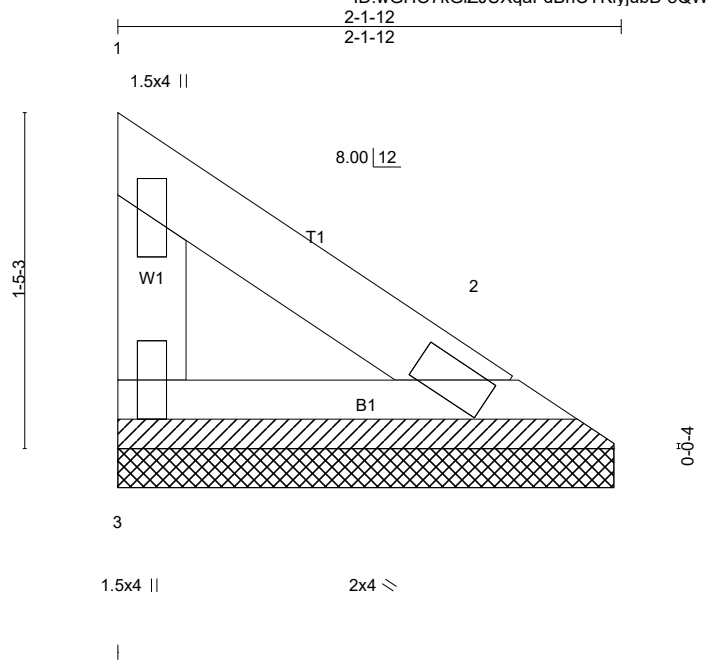


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 7 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 2-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 3=65/2-1-6 (min. 0-1-8), 2=65/2-1-6 (min. 0-1-8)
Max Horz 3=-38(LC 12)
Max Uplift3=-18(LC 17), 2=-4(LC 17)
Max Grav 3=78(LC 30), 2=76(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-63/46, 1-2=-45/44
BOT CHORD 2-3=-48/56

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3 and 4 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V09 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.330 s Feb 24 2020 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Feb 9 09:01:06 2022 Page 1
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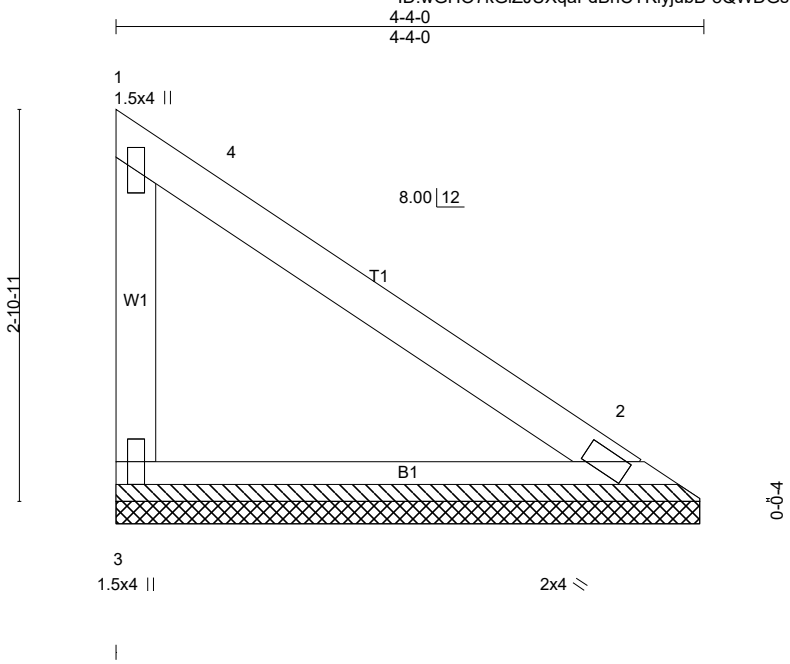


Scale = 1:17.0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.35 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 17 lb | FT = 20% |

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

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

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

**REACTIONS.** (lb/size) 3=160/4-3-10 (min. 0-1-8), 2=160/4-3-10 (min. 0-1-8)
Max Horz 3=-93(LC 12)
Max Uplift 3=-43(LC 17), 2=-11(LC 17)
Max Grav 3=191(LC 30), 2=185(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-154/113, 1-4=-92/108, 2-4=-111/92
BOT CHORD 2-3=-118/137

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 3 and 11 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V10 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.330 s Feb 24 2020 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Wed Feb 9 09:01:07 2022 Page 1
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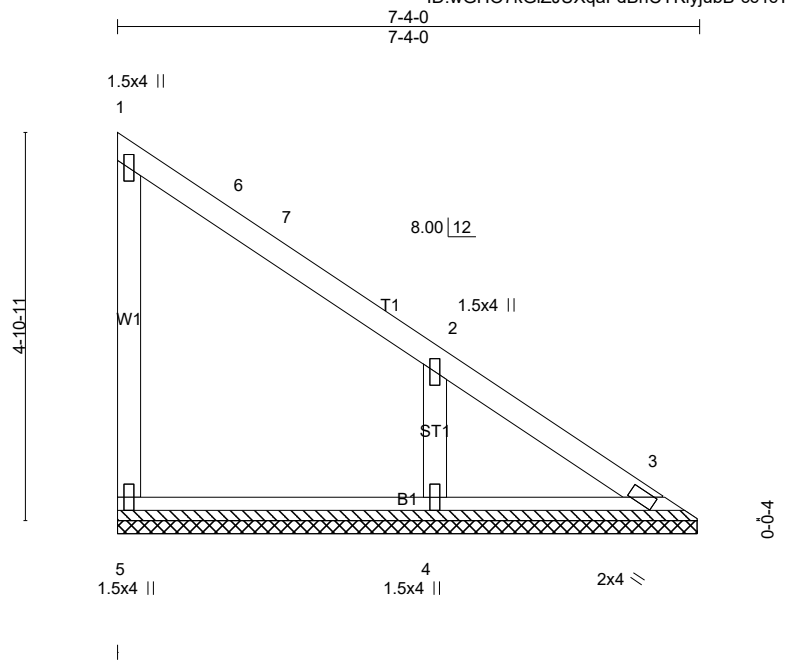


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 32 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 5=133/7-3-10 (min. 0-1-8), 3=78/7-3-10 (min. 0-1-8), 4=367/7-3-10 (min. 0-1-8)
Max Horz 5=-169(LC 12)
Max Uplift 5=-35(LC 12), 3=-13(LC 13), 4=-131(LC 17)
Max Grav 5=164(LC 30), 3=120(LC 29), 4=427(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension

| | |
|---|---|
| TOP CHORD | 1-5=-144/109, 1-6=-113/126, 6-7=-115/113, 2-7=-148/111, 2-3=-260/246 |
| BOT CHORD | 4-5=-206/237, 3-4=-206/237 |
| WEBS | 2-4=-341/202 |

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5, 13 lb uplift at joint 3 and 131 lb uplift at joint 4.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V11 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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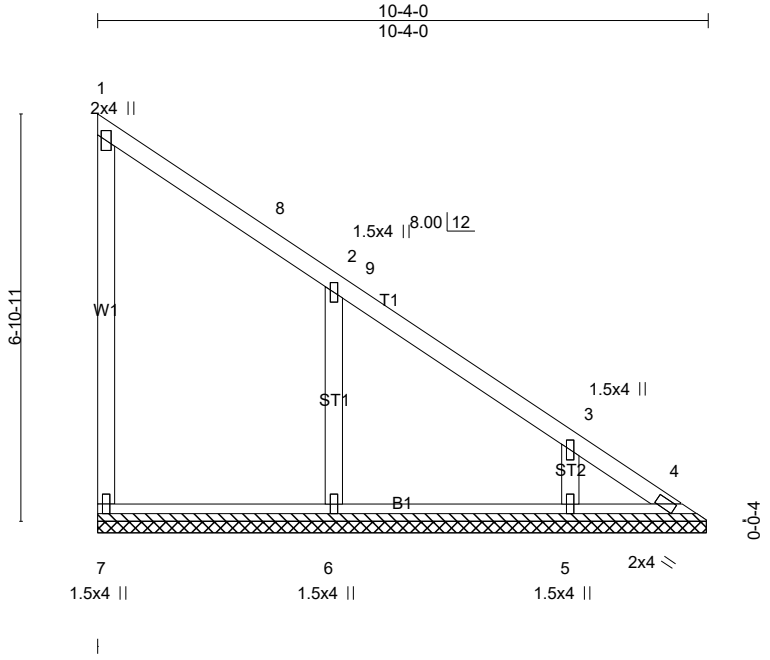


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.49 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 49 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

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

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

**REACTIONS.** (lb/size) 7=134/10-3-10 (min. 0-1-8), 4=38/10-3-10 (min. 0-1-8), 6=382/10-3-10 (min. 0-1-8), 5=283/10-3-10 (min. 0-1-8)
Max Horz 7=-244(LC 12)
Max Uplift 7=-47(LC 12), 4=-53(LC 15), 6=-96(LC 17), 5=-112(LC 17)
Max Grav 7=224(LC 30), 4=125(LC 12), 6=514(LC 30), 5=328(LC 2)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-143/106, 1-8=-126/140, 2-8=-170/105, 2-9=-261/272, 3-9=-287/269, 3-4=-377/344
BOT CHORD 6-7=-283/324, 5-6=-283/324, 4-5=-283/324
WEBS 2-6=-359/213, 3-5=-263/156

**NOTES-**

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 7, 53 lb uplift at joint 4, 96 lb uplift at joint 6 and 112 lb uplift at joint 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | GARY ROBINSON-SUMMIT-LOT#1 ROOF |
|---|---|---|---|---|---|
| 22-0799-A | V12 | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541

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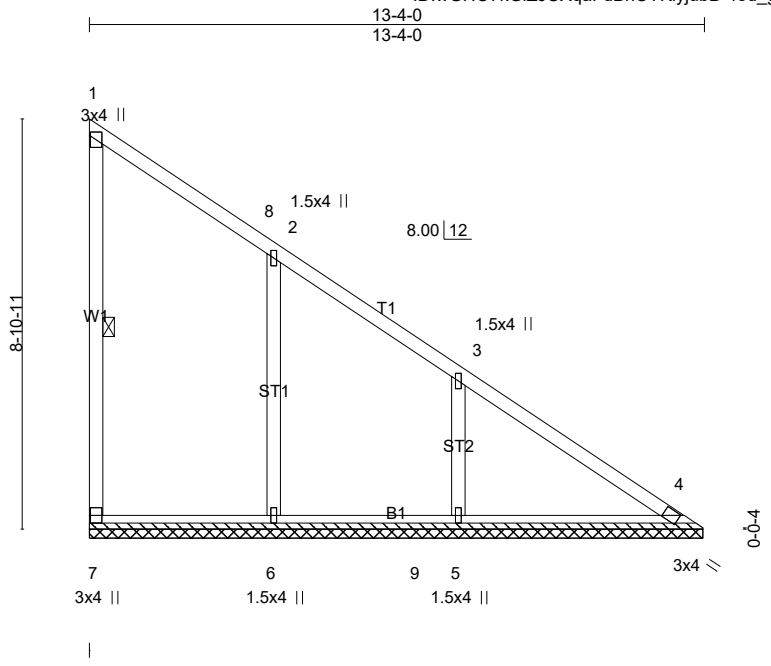


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 68 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 9-6-13 oc bracing. |
| WEBS | 1 Row at midpt 1-7 |

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

**REACTIONS.** (lb/size) 7=142/13-3-10 (min. 0-1-11), 4=172/13-3-10 (min. 0-1-11), 6=341/13-3-10 (min. 0-1-11), 5=441/13-3-10 (min. 0-1-11)
Max Horz 7=-319(LC 12)
Max Uplift 7=-59(LC 12), 4=-17(LC 13), 6=-126(LC 17), 5=-163(LC 17)
Max Grav 7=231(LC 30), 4=246(LC 29), 6=530(LC 30), 5=542(LC 30)

**FORCES.** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-159/109, 1-8=-141/161, 2-8=-185/127, 2-3=-295/283, 3-4=-439/412
BOT CHORD 6-7=-362/409, 6-9=-362/409, 5-9=-362/409, 4-5=-362/409
WEBS 2-6=-330/198, 3-5=-395/217

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 7, 17 lb uplift at joint 4, 126 lb uplift at joint 6 and 163 lb uplift at joint 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard