| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ1 | JACK-CLOSED | 19 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:21 2022 Page 1
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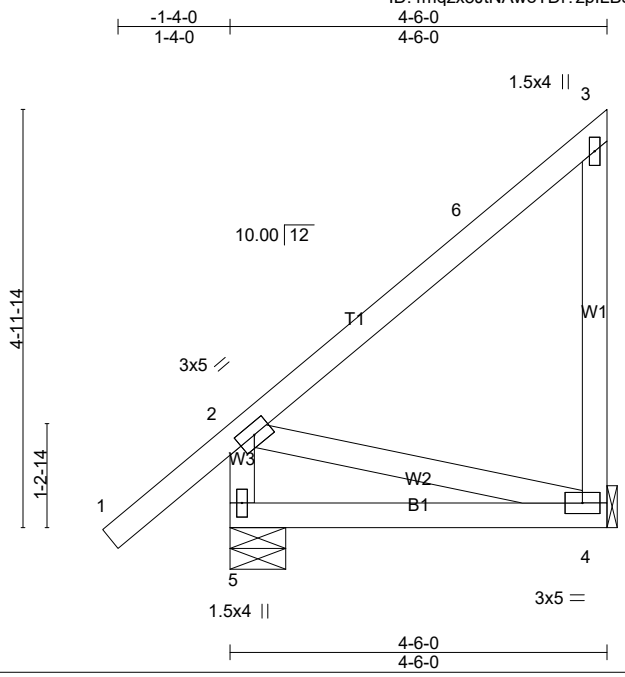


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.37 | Vert(LL) | -0.02 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | -0.04 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MP | | | | | | | 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-0 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=305/0-8-0 (min. 0-1-8), 4=162/Mechanical
Max Horz 5=191(LC 13)
Max Uplift5=-25(LC 16), 4=-88(LC 13)
Max Grav 5=360(LC 2), 4=224(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-318/151
BOT CHORD 4-5=-334/301
WEBS 2-4=-244/284

**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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ1A | JACK-CLOSED GIRDER | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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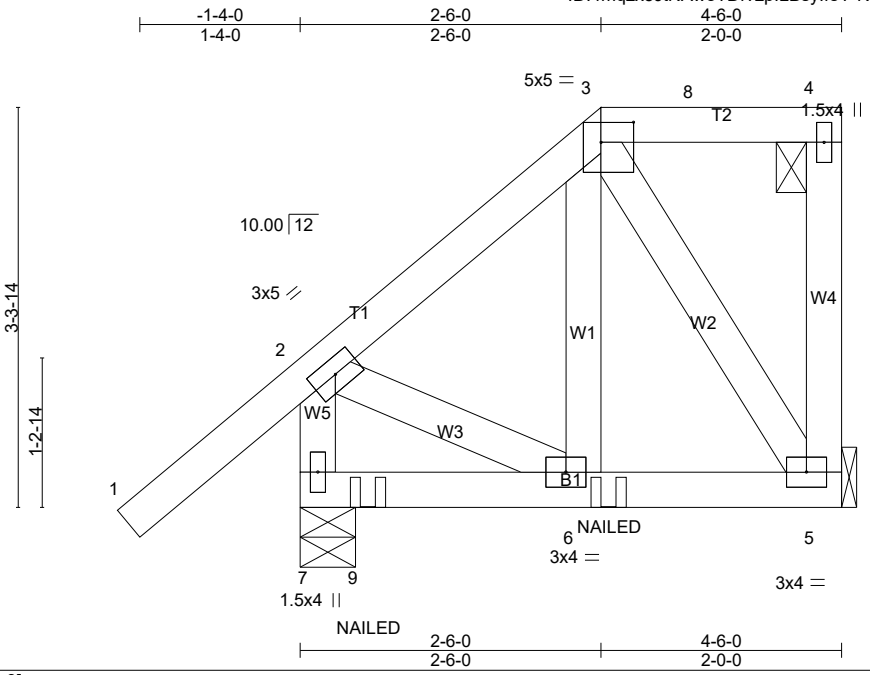


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0]

| 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 | 0.42 | Vert(LL) | -0.00 | 6-7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.00 | 6-7 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | -0.00 | 5 | 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.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 7=435/0-5-8 (min. 0-1-8), 5=196/Mechanical
Max Horz 7=134(LC 13)
Max Uplift 7=-120(LC 16), 5=-108(LC 13)
Max Grav 7=626(LC 36), 5=267(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-513/191

**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, Lu=50-0-0
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) 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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=120, 5=108.
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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Continued on page 2

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-66, 2-3=-66, 3-4=-66, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-41(F) 9=-123(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ1B | JACK-CLOSED | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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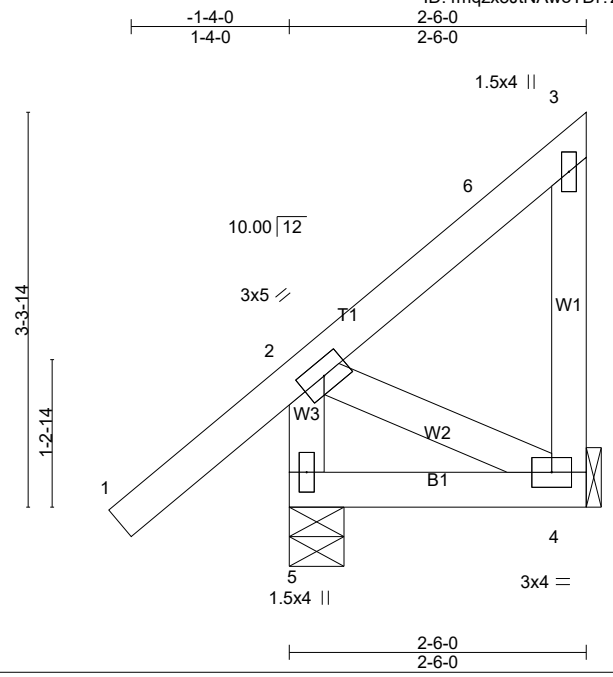


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | -0.00 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | 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 2-6-0 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=236/0-5-8 (min. 0-1-8), 4=58/Mechanical
Max Horz 5=128(LC 13)
Max Uplift5=-29(LC 16), 4=-69(LC 13)
Max Grav 5=281(LC 2), 4=102(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-259/137

**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) 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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ1C | JACK-CLOSED | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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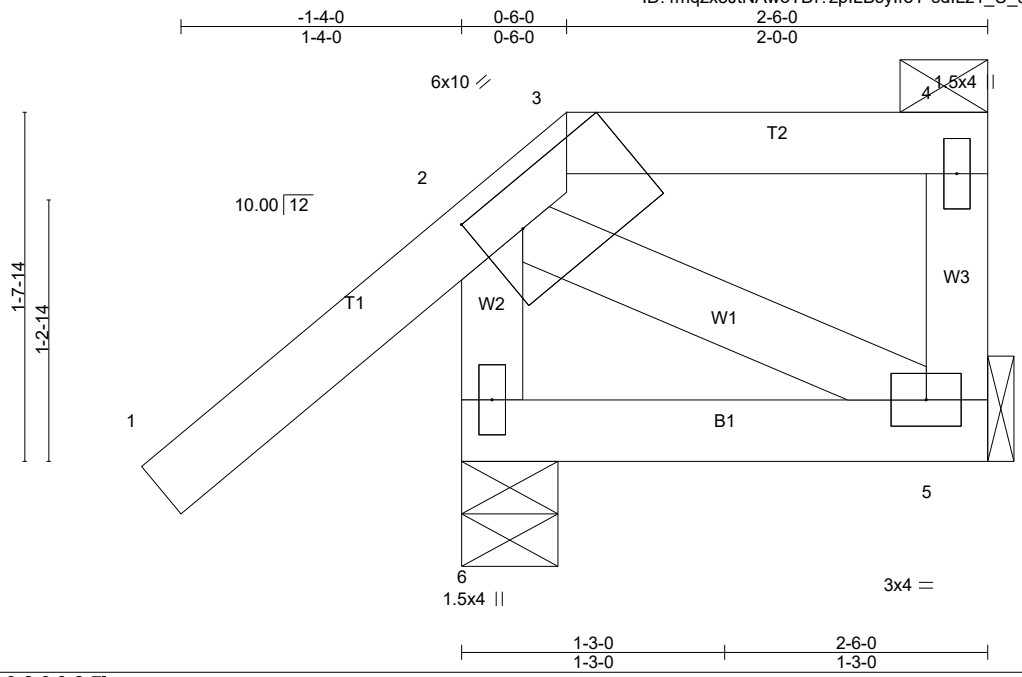


Scale = 1:10.9

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

| 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 | 0.37 | Vert(LL) | -0.00 | 6 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 17 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 2-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
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) 6=236/0-5-8 (min. 0-1-8), 5=58/Mechanical
Max Horz 6=71(LC 13)
Max Uplift 6=-45(LC 16), 5=-32(LC 13)
Max Grav 6=352(LC 36), 5=137(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-329/155

**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) -1-5-2 to 2-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; 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
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) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ2 | JACK-CLOSED | 15 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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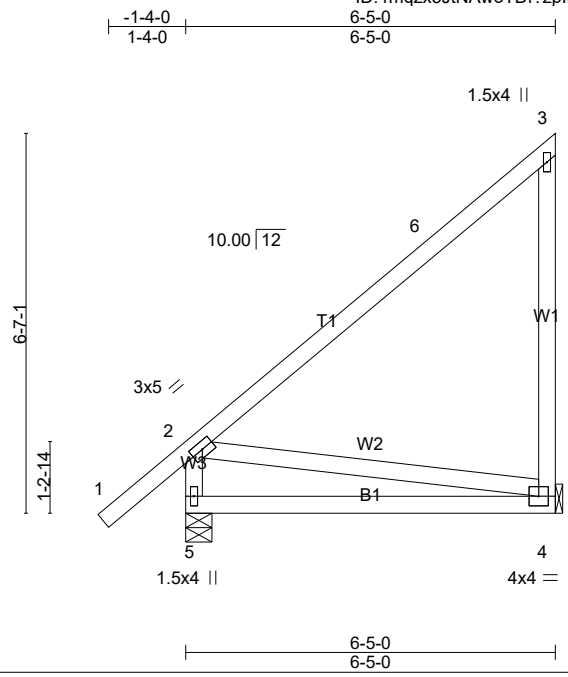


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.92 | Vert(LL) | -0.08 | 4-5 | >871 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.17 | 4-5 | >435 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MP | | | | | | | Weight: 44 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-5 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=381/0-5-8 (min. 0-1-8), 4=251/Mechanical
Max Horz 5=251(LC 13)
Max Uplift 5=-10(LC 16), 4=-113(LC 16)
Max Grav 5=448(LC 2), 4=333(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-387/170, 2-6=-254/214, 3-4=-290/233
BOT CHORD 4-5=-432/392
WEBS 2-4=-312/361

**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 100 lb uplift at joint(s) 5 except (jt=lb) 4=113.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ2A | JACK-CLOSED | 2 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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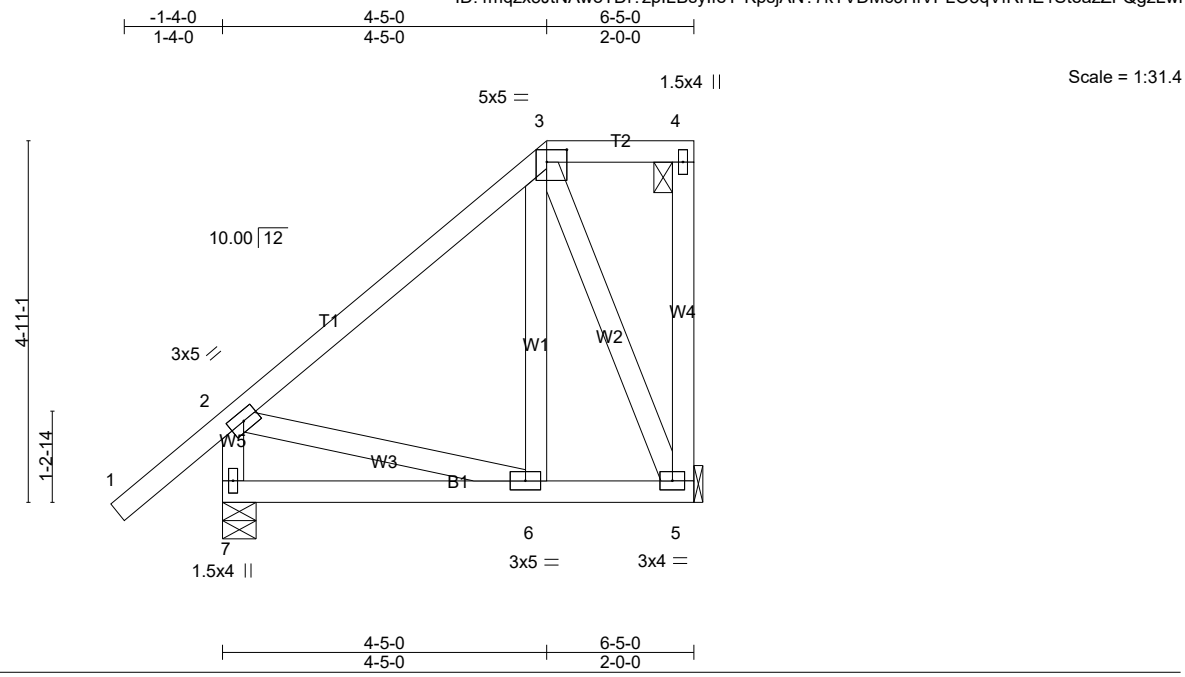


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0]

| **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 | 0.57 | Vert(LL) | -0.01 | 6-7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.14 | Vert(CT) | -0.02 | 6-7 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 51 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 7=381/0-5-8 (min. 0-1-8), 5=251/Mechanical
Max Horz 7=195(LC 13)
Max Uplift 7=-37(LC 16), 5=-86(LC 13)
Max Grav 7=634(LC 36), 5=299(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-599/162, 2-3=-319/66
BOT CHORD 6-7=-332/301
WEBS 3-5=-275/165

**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, Lu=50-0-0
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) 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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ2B | JACK-CLOSED GIRDER | 2 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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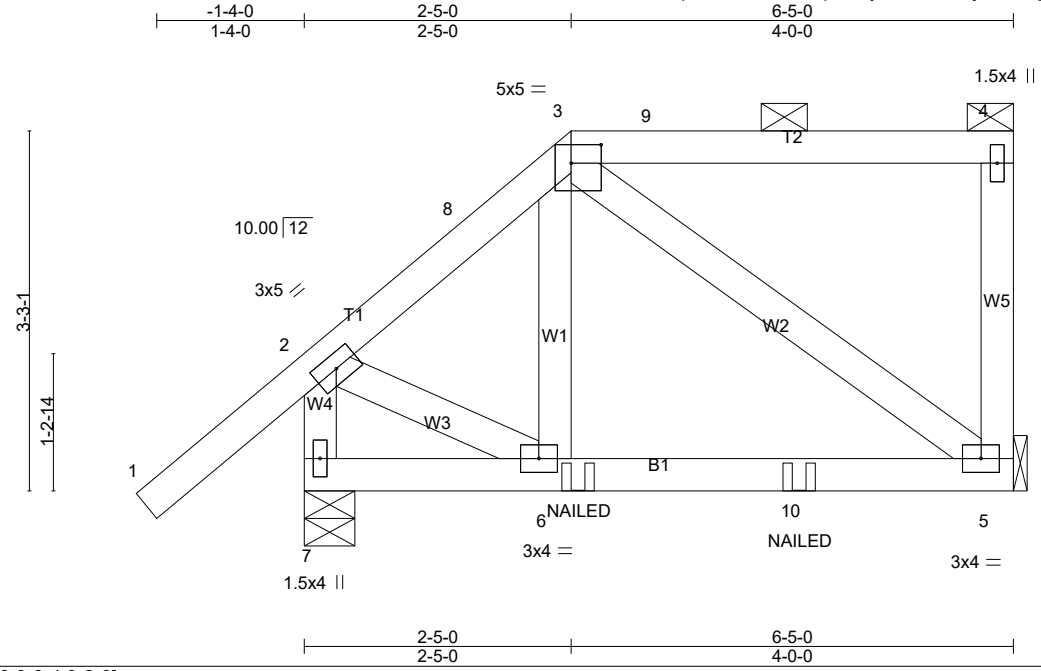


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0]

| 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 | 0.66 | Vert(LL) | 0.02 | 5-6 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.03 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.12 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 42 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 7=415/0-5-8 (min. 0-1-8), 5=288/Mechanical
Max Horz 7=132(LC 13)
Max Uplift 7=-122(LC 16), 5=-150(LC 13)
Max Grav 7=584(LC 36), 5=433(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-582/256, 2-8=-312/171, 3-8=-255/185
WEBS 2-6=-95/255, 3-5=-258/201

**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, Lu=50-0-0
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) 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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=122, 5=150.
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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

Continued on page 2

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-66, 2-3=-66, 3-4=-66, 5-7=-20
   Concentrated Loads (lb)
      Vert: 6=-36(F) 10=-36(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ2C | JACK-CLOSED | 4 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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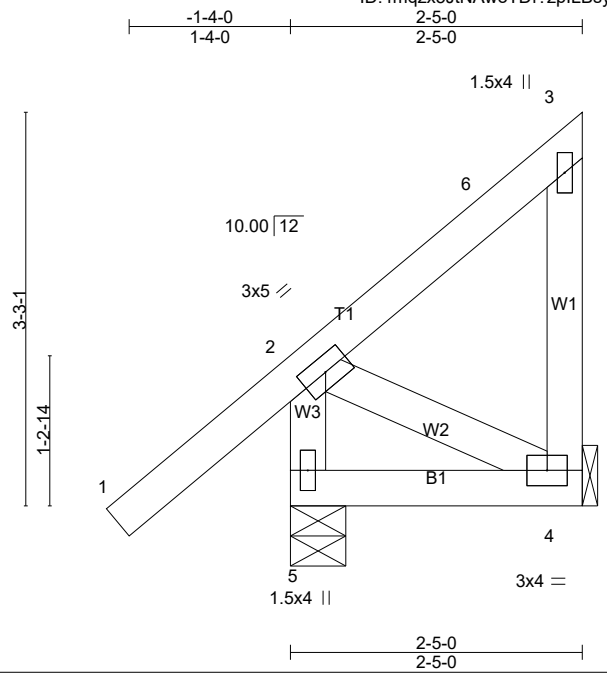


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | -0.00 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MP | | | | | | | Weight: 19 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 2-5-0 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=234/0-5-8 (min. 0-1-8), 4=53/Mechanical
Max Horz 5=125(LC 13)
Max Uplift5=-30(LC 16), 4=-68(LC 13)
Max Grav 5=279(LC 2), 4=96(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-257/137

**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) 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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ6 | Jack-Closed | 4 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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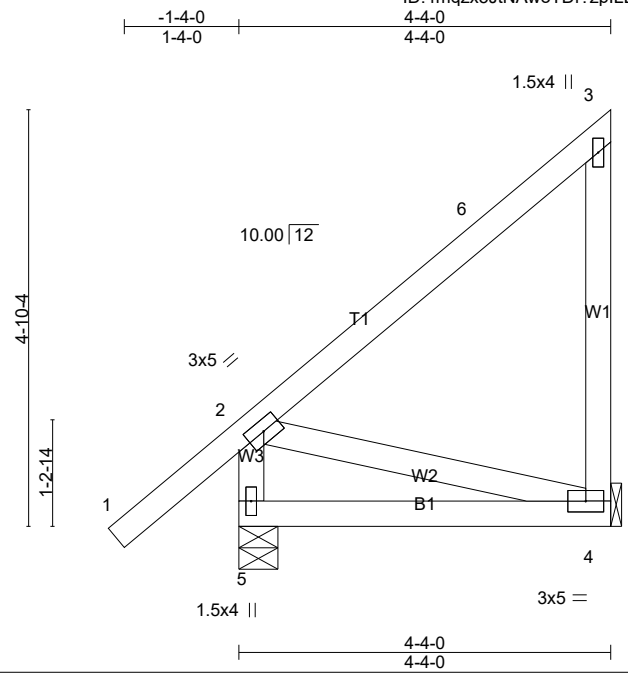


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | -0.02 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.03 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MP | | | | | | | Weight: 31 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 4-4-0 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=299/0-5-8 (min. 0-1-8), 4=154/Mechanical
Max Horz 5=186(LC 13)
Max Uplift5=-25(LC 16), 4=-86(LC 13)
Max Grav 5=352(LC 2), 4=215(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-312/150
BOT CHORD 4-5=-324/293
WEBS 2-4=-237/277

**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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ6A | Jack-Closed Girder | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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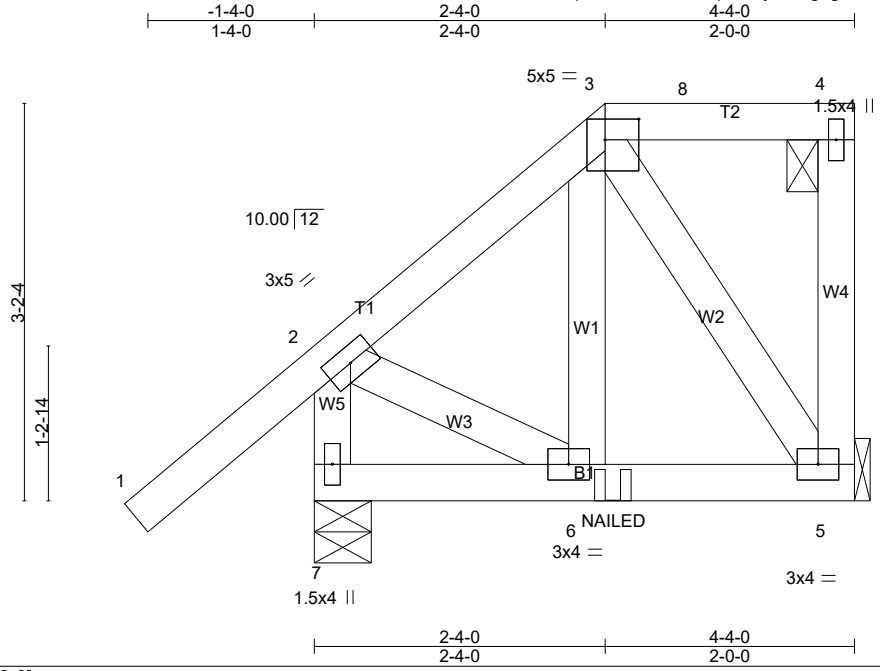


Plate Offsets (X,Y)-- [3:0-3-4,0-2-0]

| 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 | 0.42 | Vert(LL) | -0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 33 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

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

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

**REACTIONS.** (lb/size) 7=313/0-5-8 (min. 0-1-8), 5=169/Mechanical
Max Horz 7=129(LC 15)
Max Uplift 7=-84(LC 16), 5=-99(LC 13)
Max Grav 7=499(LC 36), 5=242(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-481/185

**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, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-3=-66, 3-4=-66, 5-7=-20

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ6A | Jack-Closed Girder | 1 | 1 | Job Reference (optional) |



**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 6=-30(B)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ6B | Jack-Closed | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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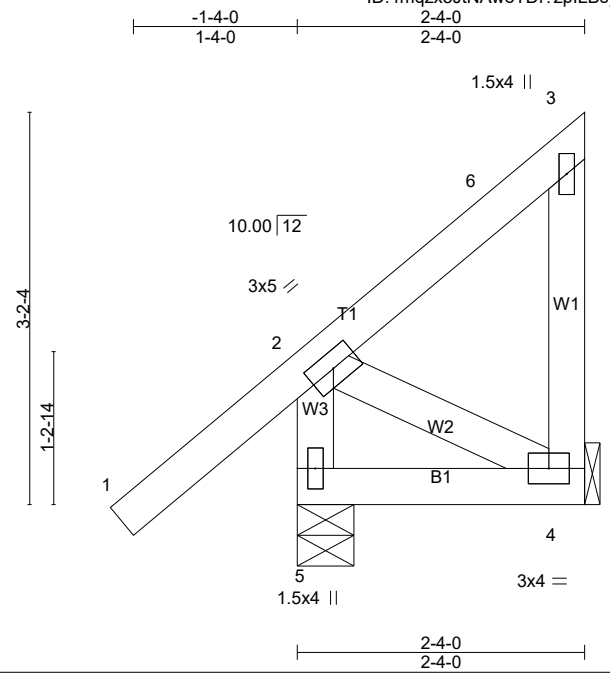


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | -0.00 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 19 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 2-4-0 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) 5=232/0-5-8 (min. 0-1-8), 4=48/Mechanical
Max Horz 5=123(LC 13)
Max Uplift5=-30(LC 16), 4=-68(LC 13)
Max Grav 5=276(LC 2), 4=90(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-256/137

**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) 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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ6C | Jack-Closed Girder | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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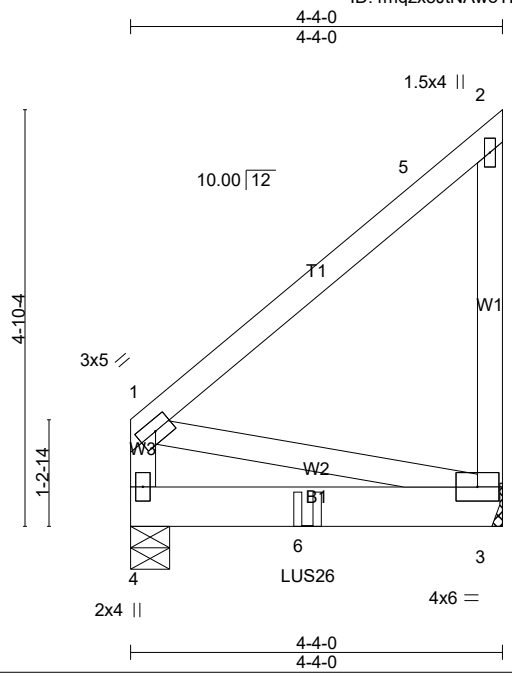


Scale = 1:26.8

| 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 | 0.49 | Vert(LL) | -0.03 | 3-4 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.05 | 3-4 | >975 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.07 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 31 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 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) 4=607/0-5-8 (min. 0-1-8), 3=564/Mechanical
Max Horz 4=161(LC 13)
Max Uplift 4=-41(LC 12), 3=-119(LC 13)
Max Grav 4=623(LC 2), 3=582(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 4-6=-272/252, 3-6=-272/252

**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 100 lb uplift at joint(s) 4 except (jt=lb) 3=119.
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.
9) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 2-0-12 from the left end to connect truss(es) H7A (1 ply 2x4 SP) to front face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 3-4=-20
Concentrated Loads (lb)
Vert: 6=-823(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ8 | Jack-Closed | 2 | 1 | Job Reference (optional) |

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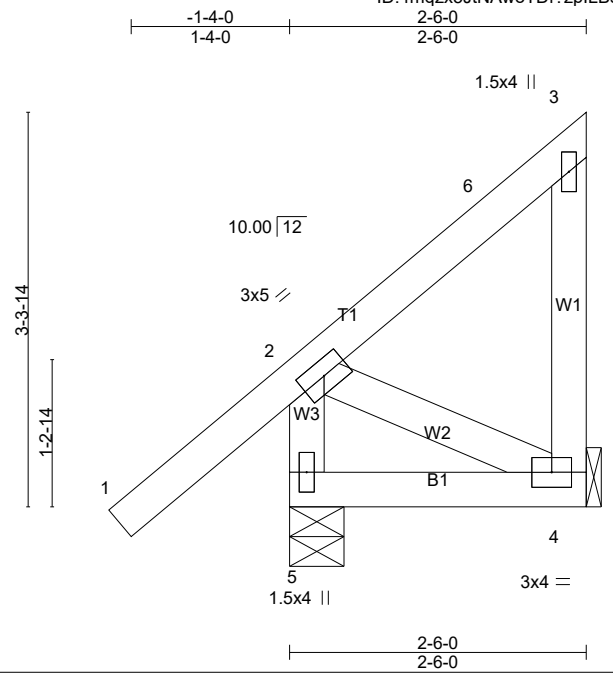


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | -0.00 | 4-5 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.05 | Vert(CT) | -0.00 | 4-5 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | 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 2-6-0 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=236/0-5-8 (min. 0-1-8), 4=58/Mechanical
Max Horz 5=128(LC 13)
Max Uplift5=-29(LC 16), 4=-69(LC 13)
Max Grav 5=281(LC 2), 4=102(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-259/137

**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) 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 100 lb uplift at joint(s) 5, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | EJ8A | Jack-Closed Girder | 1 | 1 | Job Reference (optional) |

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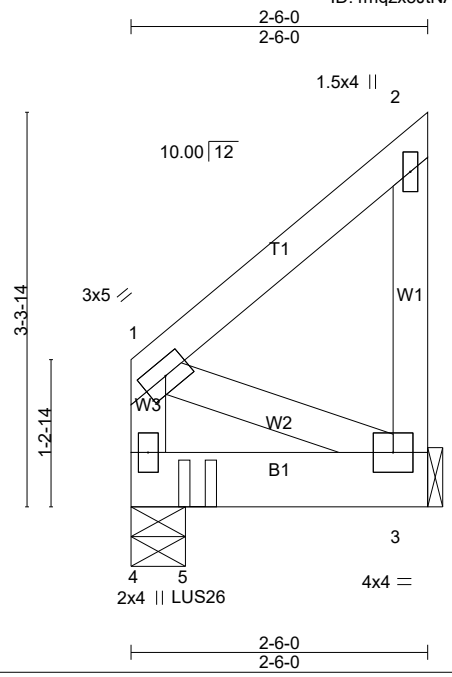


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| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.00 | 3-4 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.40 | Vert(CT) | -0.01 | 3-4 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.04 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-0 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=850/0-5-8 (min. 0-1-8), 3=271/Mechanical
Max Horz 4=104(LC 13)
Max Uplift 4=-84(LC 12), 3=-80(LC 13)
Max Grav 4=988(LC 2), 3=314(LC 2)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=130mph 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 100 lb uplift at joint(s) 4, 3.
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.
9) Use Simpson Strong-Tie LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 0-6-12 from the left end to connect truss(es) T8 (1 ply 2x4 SP) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-930(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | GR1 | Monopitch Girder | 1 | 2 | Job Reference (optional) |

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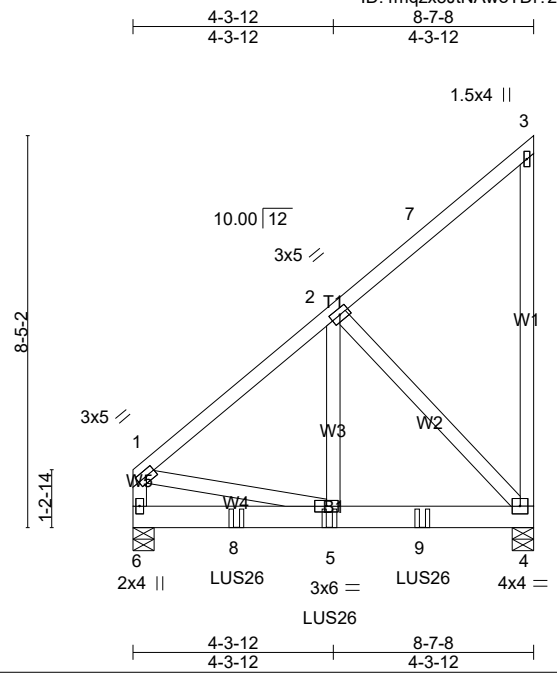


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.01 | 5-6 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.32 | Vert(CT) | -0.02 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.25 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 140 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**REACTIONS.** (lb/size) 6=1085/0-5-8 (min. 0-1-8), 4=1066/0-5-8 (min. 0-1-8)
Max Horz 6=296(LC 13)
Max Uplift 6=-67(LC 16), 4=-207(LC 13)
Max Grav 6=1263(LC 2), 4=1241(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1179/147, 1-6=-1038/138
BOT CHORD 6-8=-480/447, 5-8=-480/447, 5-9=-298/860, 4-9=-298/860
WEBS 2-5=-98/1215, 2-4=-1253/301, 1-5=-146/882

**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) 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
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 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 100 lb uplift at joint(s) 6 except (jt=lb) 4=207.
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.
10) 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 2-2-12 from the left end to 6-2-12 to connect truss(es) T3A (1 ply 2x4 SP) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 4-6=-20

Continued on page 2

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 5=-478(B) 8=-478(B) 9=-478(B)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1A | Hip | 1 | 1 | Job Reference (optional) |

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| 5-5-8 | 12-7-14 | 19-10-5 | 27-0-11 | 34-3-2 | 41-5-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|
| 5-5-8 | 7-2-6 | 7-2-6 | 7-2-6 | 7-2-6 | 7-2-6 | 6-6-0 | 1-4-0 |

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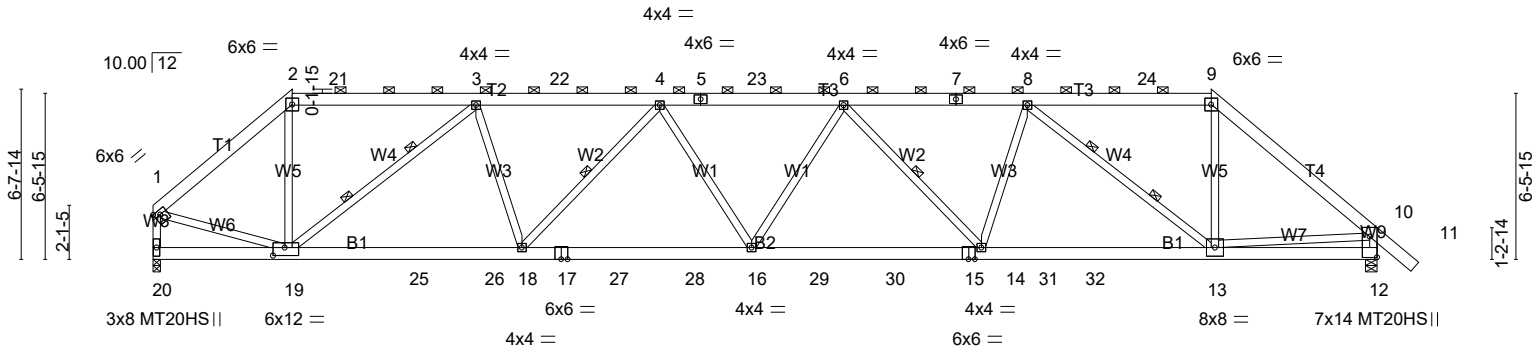



| 5-5-8 | 14-5-8 | 23-5-8 | 32-5-8 | 41-5-8 | 47-11-8 |
|---|---|---|---|---|---|
| 5-5-8 | 9-0-0 | 9-0-0 | 9-0-0 | 9-0-0 | 6-6-0 |

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

| **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 | 0.61 | Vert(LL) | -0.36 | 16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.58 | 14-16 | >984 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 1.00 | Horz(CT) | 0.17 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 361 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W9: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-5 max.): 2-9.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-14
2 Rows at 1/3 pts 3-19, 8-13

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

**REACTIONS.** (lb/size) 20=2053/0-3-8 (min. 0-2-15), 12=2164/0-5-8 (min. 0-2-15)
Max Horz 20=-193(LC 14)
Max Uplift 20=-240(LC 16), 12=-283(LC 17)
Max Grav 20=2474(LC 38), 12=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2726/416, 2-21=-2052/387, 3-21=-2053/386, 3-22=-4363/696, 4-22=-4363/696, 4-5=-4992/803, 5-23=-4992/803, 6-23=-4992/803, 6-7=-4509/717, 7-8=-4509/717, 8-24=-2391/435, 9-24=-2390/435, 9-10=-3166/470, 1-20=-2433/371, 10-12=-2448/451
BOT CHORD 19-25=-548/4126, 25-26=-548/4126, 18-26=-548/4126, 17-18=-661/4911, 17-27=-661/4911, 27-28=-661/4911, 16-28=-661/4911, 16-29=-643/4966, 29-30=-643/4966, 15-30=-643/4966, 14-15=-643/4966, 14-31=-499/4302, 31-32=-499/4302, 13-32=-499/4302, 12-13=-110/413
WEBS 2-19=-94/1185, 3-19=-2683/405, 3-18=-47/994, 4-18=-973/211, 4-16=-55/291, 6-14=-846/199, 8-14=-39/902, 8-13=-2492/393, 9-13=-118/1463, 1-19=-216/2148, 10-13=-249/2137

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=240 , 12=283.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1A | Hip | 1 | 1 | Job Reference (optional) |



**NOTES-**

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.

**LOAD CASE(S)** Standard

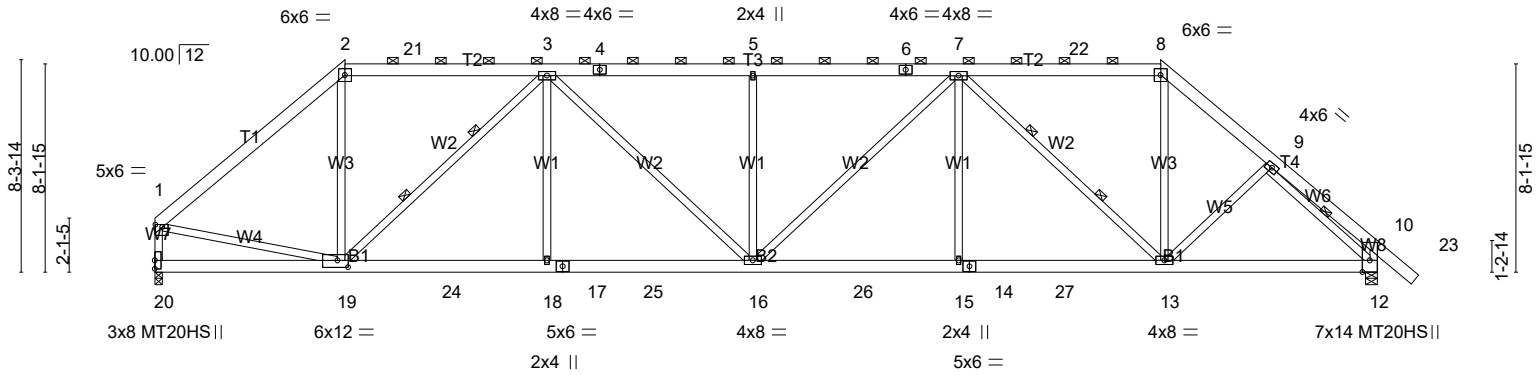
| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1B | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:36 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-z7bFhU8ew9?WpS4bM0c9tdJTNGEKqhtPKqTur_zLwnf

| 7-5-8 | 15-4-10 | 23-5-8 | 31-6-6 | 39-5-8 | 43-8-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|
| 7-5-8 | 7-11-2 | 8-0-14 | 8-0-14 | 7-11-2 | 4-3-0 | 4-3-0 | 1-4-0 |

Scale = 1:90.4




| 7-5-8 | 15-4-10 | 23-5-8 | 31-6-6 | 39-5-8 | 47-11-8 |
|---|---|---|---|---|---|
| 7-5-8 | 7-11-2 | 8-0-14 | 8-0-14 | 7-11-2 | 8-6-0 |

Plate Offsets (X,Y)-- [1:0-3-4,0-1-4], [19:0-5-0,0-3-4]

| **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 | 0.84 | Vert(LL) | -0.25 | 16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.76 | Vert(CT) | -0.41 | 15-16 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.14 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 387 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W2,W7: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-9 max.): 2-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-12
2 Rows at 1/3 pts 3-19, 7-13

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

**REACTIONS.** (lb/size) 20=2053/0-3-8 (min. 0-2-13), 12=2164/0-5-8 (min. 0-2-15)
Max Horz 20=-234(LC 14)
Max Uplift20=-236(LC 16), 12=-278(LC 17)
Max Grav 20=2398(LC 38), 12=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2809/440, 2-21=-2098/429, 3-21=-2099/429, 3-4=-4043/706, 4-5=-4043/706, 5-6=-4043/706, 6-7=-4043/706, 7-22=-2318/450, 8-22=-2317/450, 8-9=-3009/515, 9-10=-689/175, 1-20=-2329/381, 10-12=-766/220
BOT CHORD 19-20=-188/336, 19-24=-455/3658, 18-24=-455/3658, 17-18=-455/3658, 17-25=-455/3658, 16-25=-455/3658, 16-26=-396/3764, 15-26=-396/3764, 14-15=-396/3764, 14-27=-396/3764, 13-27=-396/3764, 12-13=-217/2088
WEBS 2-19=-86/1185, 3-19=-2156/337, 3-18=0/422, 3-16=-157/689, 5-16=-629/217, 7-16=-146/560, 7-15=0/421, 7-13=-2000/322, 8-13=-163/1319, 9-13=-146/382, 1-19=-202/2098, 9-12=-2400/331

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=236 , 12=278.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1B | Hip | 1 | 1 | Job Reference (optional) |



**NOTES-**

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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1C | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:37 2022 Page 1
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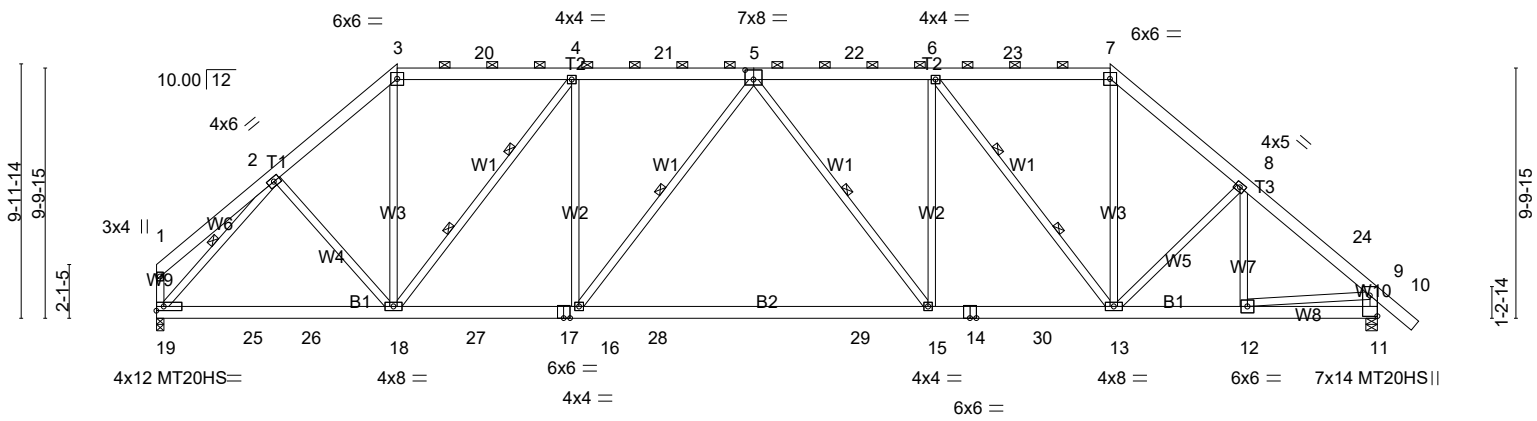
| 4-8-12 | 9-5-8 | 16-5-8 | 23-5-8 | 30-5-8 | 37-5-8 | 42-8-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|---|
| 4-8-12 | 4-8-12 | 7-0-0 | 7-0-0 | 7-0-0 | 7-0-0 | 5-3-0 | 5-3-0 | 1-4-0 |

Scale = 1:90.5




| 9-5-8 | 16-5-8 | 30-5-8 | 37-5-8 | 42-8-8 | 47-11-8 |
|---|---|---|---|---|---|
| 9-5-8 | 7-0-0 | 14-0-0 | 7-0-0 | 5-3-0 | 5-3-0 |

Plate Offsets (X,Y)-- [5:0-4-0,0-4-8], [11: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 | 0.75 | Vert(LL) | -0.38 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.65 | 15-16 | >877 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.93 | Horz(CT) | 0.11 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 410 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 5-15, 2-19
2 Rows at 1/3 pts 4-18, 6-13

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

**REACTIONS.** (lb/size) 19=2053/0-3-8 (min. 0-2-13), 11=2164/0-5-8 (min. 0-2-15)
Max Horz 19=-275(LC 12)
Max Uplift19=-231(LC 16), 11=-274(LC 17)
Max Grav 19=2381(LC 2), 11=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-350/128, 2-3=-2729/511, 3-20=-2089/447, 4-20=-2090/447, 4-21=-3164/575, 5-21=-3164/575, 5-22=-3242/582, 6-22=-3242/582, 6-23=-2235/476, 7-23=-2234/476, 7-8=-2929/544, 8-24=-2803/449, 9-24=-2923/423, 1-19=-362/115, 9-11=-2439/433
BOT CHORD 19-25=-311/1798, 25-26=-311/1798, 18-26=-311/1798, 18-27=-352/3164, 17-27=-352/3164, 16-17=-352/3164, 16-28=-383/3381, 28-29=-383/3381, 15-29=-383/3381, 14-15=-280/3242, 14-30=-280/3242, 13-30=-280/3242, 12-13=-188/2153, 11-12=-38/310
WEBS 2-18=-108/508, 3-18=-170/1249, 4-18=-1776/259, 4-16=-19/773, 5-16=-471/194, 5-15=-356/189, 6-15=-0/725, 6-13=-1703/241, 7-13=-186/1347, 8-13=-369/232, 2-19=-2631/400, 9-12=-173/1899

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=231 , 11=274.

Continued on page 2

**NOTES-**

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.

**LOAD CASE(S)** Standard

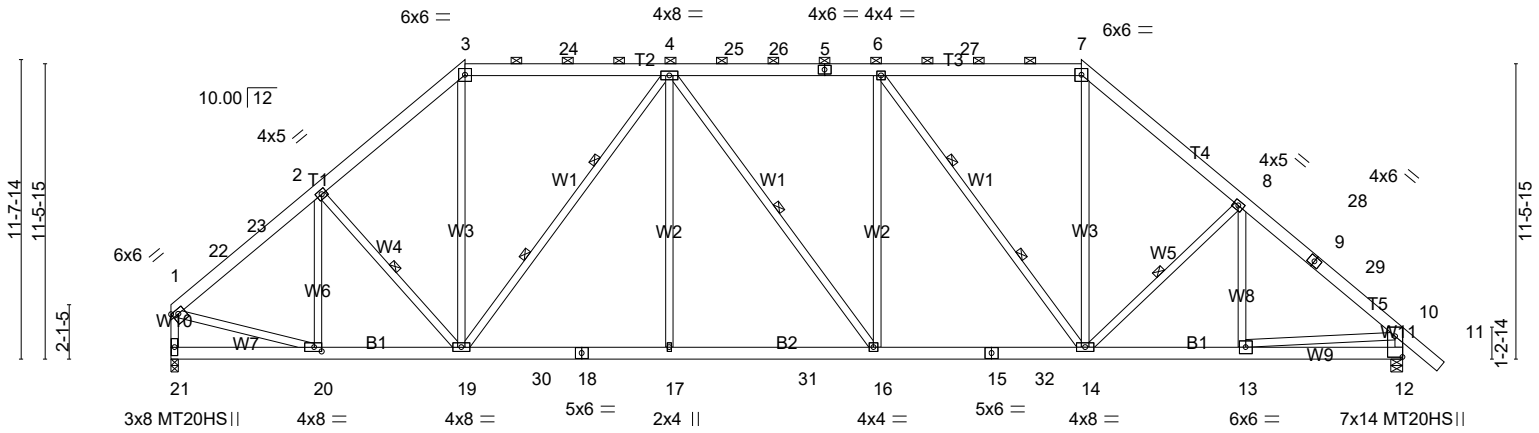
| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1D | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:39 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-OiGOJWBXC4O5gvpA19AsVGx_IUHZ11Ir0oiYSJzLwnc

| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 | 1-4-0 |

Scale = 1:89.7




| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 |
|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 |

Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [12:Edge,0-3-8], [20:0-3-8,0-2-0]

| **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 | 0.86 | Vert(LL) | -0.18 | 16-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.29 | 16-17 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 429 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-2 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-19, 4-16, 8-14
2 Rows at 1/3 pts 4-19, 6-14

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

**REACTIONS.** (lb/size) 21=2053/0-3-8 (min. 0-2-13), 12=2164/0-5-8 (min. 0-2-15)
Max Horz 21=-316(LC 12)
Max Uplift 21=-225(LC 16), 12=-268(LC 17)
Max Grav 21=2381(LC 2), 12=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-2575/378, 22-23=-2448/388, 2-23=-2446/413, 2-3=-2680/533, 3-24=-2032/472, 4-24=-2033/471, 4-25=-2901/577, 25-26=-2901/577, 5-26=-2901/577, 5-6=-2901/577, 6-27=-2139/487, 7-27=-2138/487, 7-8=-2813/546, 8-28=-2776/455, 9-28=-2808/433, 9-29=-2812/430, 10-29=-2976/424, 1-21=-2314/362, 10-12=-2433/435
BOT CHORD 20-21=-262/328, 19-20=-287/1879, 19-30=-291/2868, 18-30=-291/2868, 17-18=-291/2868, 17-31=-291/2868, 16-31=-291/2868, 15-16=-242/2901, 15-32=-242/2901, 14-32=-242/2901, 13-14=-177/2160, 12-13=-59/364
WEBS 2-20=-462/137, 2-19=-280/371, 3-19=-164/1147, 4-19=-1419/249, 4-17=0/459, 6-16=-10/397, 6-14=-1291/248, 7-14=-163/1219, 8-14=-490/212, 1-20=-218/1878, 10-13=-145/1826

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=225 12=268.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1D | Hip | 1 | 1 | Job Reference (optional) |



**NOTES-**

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.

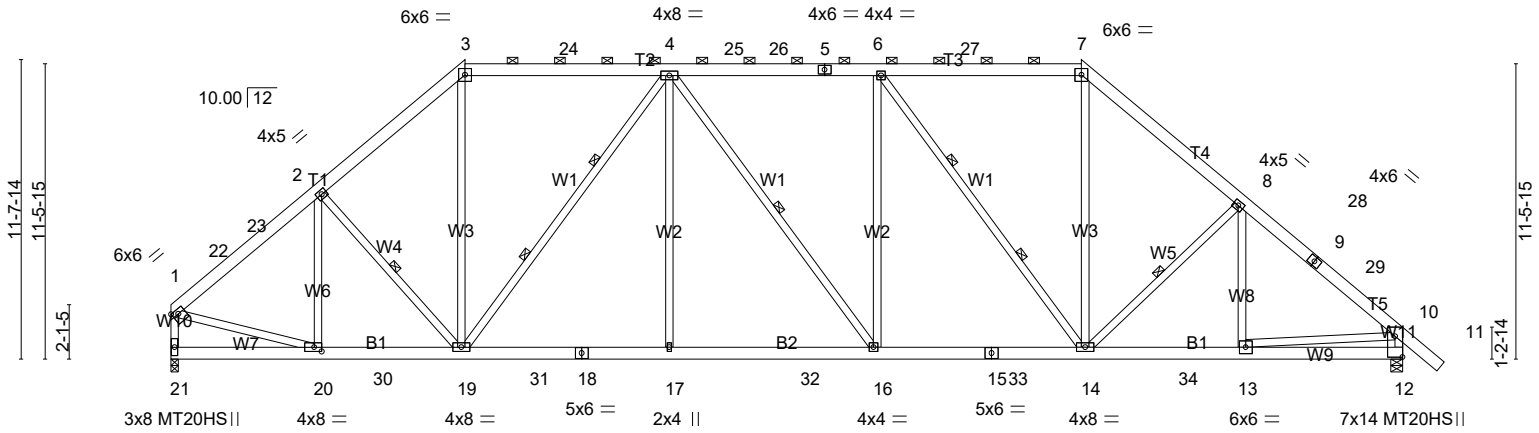
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H1E | Piggyback Base | 1 | 1 | Job Reference (optional) |



| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 | 1-4-0 |

Scale = 1:89.7




| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 |
|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 |

Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [12:Edge,0-3-8], [20:0-3-8,0-2-0]

| **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 | 0.86 | Vert(LL) | -0.18 | 16-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.29 | 16-17 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.10 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 429 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-2 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-19, 4-16, 8-14
2 Rows at 1/3 pts 4-19, 6-14

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

**REACTIONS.** (lb/size) 21=2053/0-3-8 (min. 0-2-13), 12=2164/0-5-8 (min. 0-2-15)
Max Horz 21=-316(LC 12)
Max Uplift 21=-225(LC 16), 12=-268(LC 17)
Max Grav 21=2381(LC 2), 12=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-2575/378, 22-23=-2448/388, 2-23=-2446/413, 2-3=-2680/533, 3-24=-2032/472, 4-24=-2033/471, 4-25=-2901/577, 25-26=-2901/577, 5-26=-2901/577, 5-6=-2901/577, 6-27=-2139/487, 7-27=-2138/487, 7-8=-2813/546, 8-28=-2776/455, 9-28=-2808/433, 9-29=-2812/430, 10-29=-2976/424, 1-21=-2314/362, 10-12=-2433/435
BOT CHORD 20-21=-262/328, 20-30=-287/1879, 19-30=-287/1879, 19-31=-291/2868, 18-31=-291/2868, 17-18=-291/2868, 17-32=-291/2868, 16-32=-291/2868, 15-16=-242/2901, 15-33=-242/2901, 14-33=-242/2901, 14-34=-177/2160, 13-34=-177/2160, 12-13=-59/364
WEBS 2-20=-462/137, 2-19=-278/372, 3-19=-164/1150, 4-19=-1421/249, 4-17=0/461, 6-16=-10/399, 6-14=-1291/248, 7-14=-163/1222, 8-14=-490/212, 1-20=-218/1878, 10-13=-145/1826

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=225 12=268.

Continued on page 2

**NOTES-**

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.

**LOAD CASE(S)** Standard

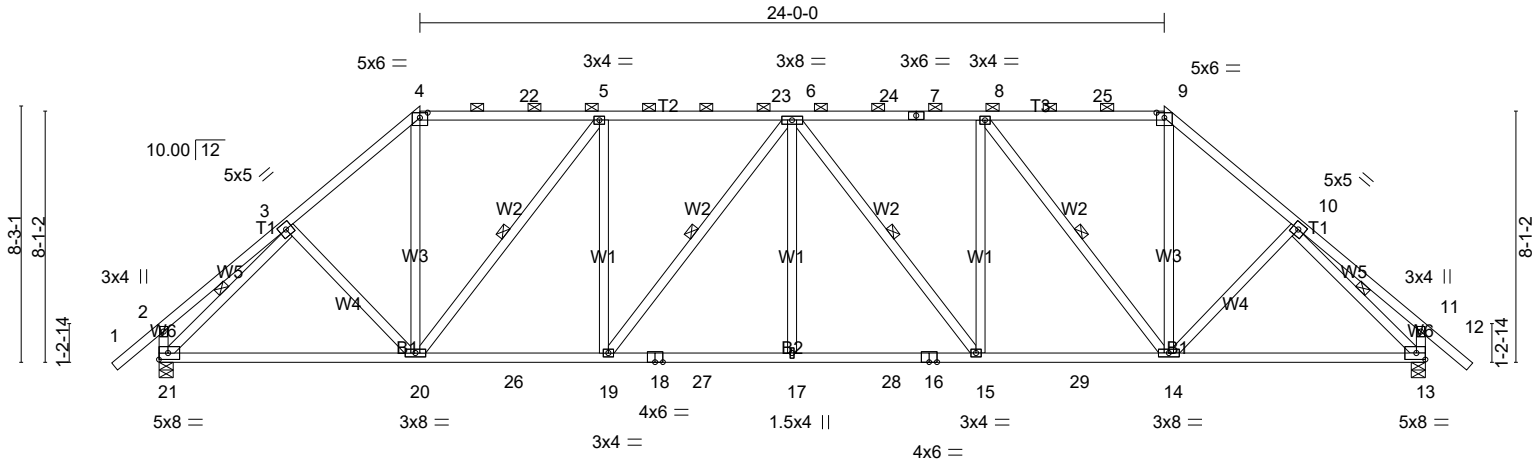
| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2A | HIP | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:42 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-oHyWyXDPV?mfXNXkjHjZ7uZTFhEKERkIimwC3dzLwnZ

1-4-0 4-2-8 8-5-0 14-4-2 20-5-0 26-5-14 32-5-0 36-7-8 40-10-0 42-2-0
1-4-0 4-2-8 4-2-8 5-11-2 6-0-14 6-0-14 5-11-2 4-2-8 4-2-8 1-4-0

Scale = 1:74.3




8-5-0 14-4-2 20-5-0 26-5-14 32-5-0 40-10-0
8-5-0 5-11-2 6-0-14 6-0-14 5-11-2 8-5-0

Plate Offsets (X,Y)-- [4:0-3-0,0-2-1], [9:0-3-0,0-2-1]

| 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 | 1.00 | Vert(LL) | -0.24 | 17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.37 | 15-17 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.17 | 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 283 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 3-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-9.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-19, 6-15, 8-14, 3-21, 10-13

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

**REACTIONS.** (lb/size) 21=1851/0-5-8 (min. 0-2-9), 13=1851/0-5-8 (min. 0-2-9)
Max Horz 21=238(LC 15)
Max Uplift 21=-234(LC 16), 13=-234(LC 17)
Max Grav 21=2153(LC 2), 13=2153(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-342/132, 3-4=-2556/441, 4-22=-1946/387, 5-22=-1949/386, 5-23=-2921/506, 6-23=-2921/506, 6-24=-2921/506, 7-24=-2921/506, 7-8=-2921/506, 8-25=-1949/386, 9-25=-1946/387, 9-10=-2556/441, 10-11=-342/132, 2-21=-546/172, 11-13=-546/172
BOT CHORD 20-21=-280/1761, 20-26=-322/2921, 19-26=-322/2921, 18-19=-323/3179, 18-27=-323/3179, 17-27=-323/3179, 17-28=-323/3179, 16-28=-323/3179, 15-16=-323/3179, 15-29=-261/2921, 14-29=-261/2921, 13-14=-162/1761
WEBS 3-20=-155/340, 4-20=-148/1193, 5-20=-1586/242, 5-19=-28/569, 6-19=-459/118, 6-17=0/309, 6-15=-459/118, 8-15=-28/569, 8-14=-1586/242, 9-14=-148/1193, 10-14=-155/341, 3-21=-2367/315, 10-13=-2367/315

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=234, 13=234.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

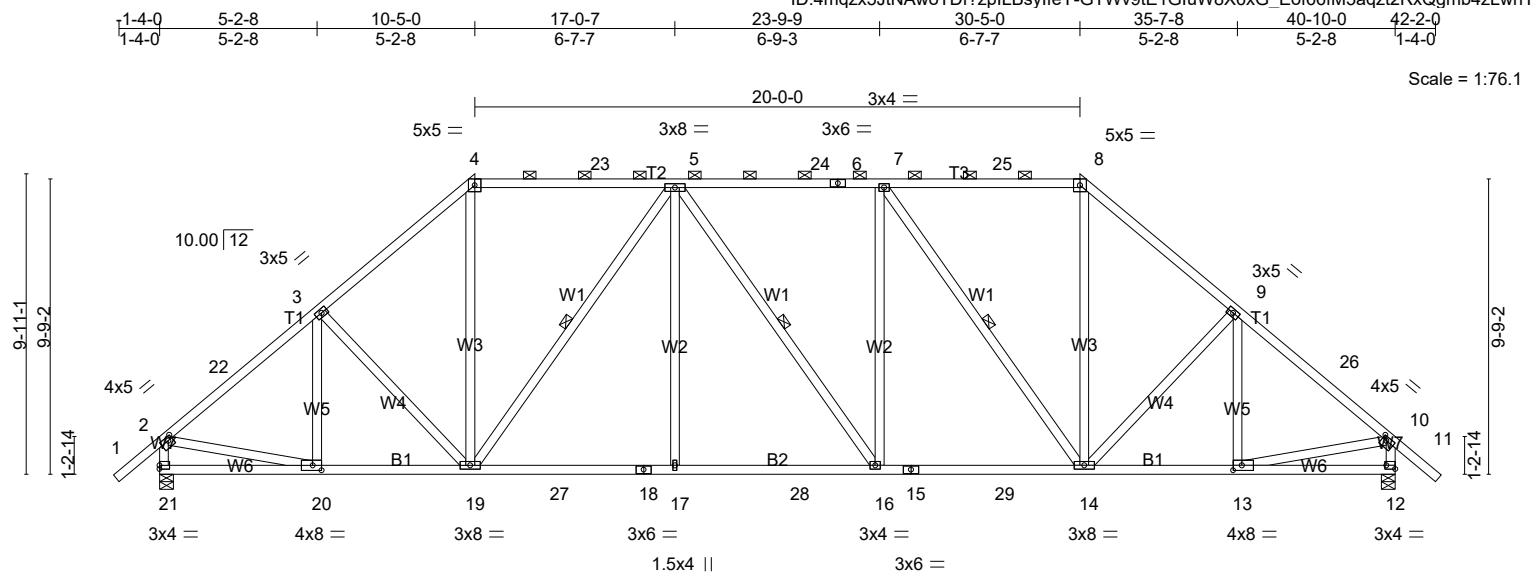
Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2B | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:43 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-GTWv9tE1GIuW8X6xG_Eof66fM5aqzt2RxQgmb4zLwnY



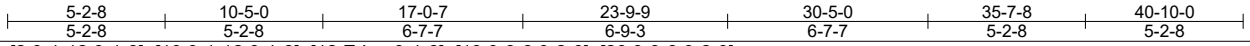




Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [10:0-1-12,0-1-8], [12:Edge,0-1-8], [13:0-3-8,0-2-0], [20:0-3-8,0-2-0]

| 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 | 0.92 | Vert(LL) | -0.19 | 14-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.31 | 14-16 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.12 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 294 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T2,T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 5-16, 7-14

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

**REACTIONS.** (lb/size) 21=1851/0-5-8 (min. 0-2-9), 12=1851/0-5-8 (min. 0-2-9)
Max Horz 21=279(LC 15)
Max Uplift 21=-228(LC 16), 12=-228(LC 17)
Max Grav 21=2153(LC 2), 12=2153(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-2394/354, 3-22=-2331/375, 3-4=-2456/459, 4-23=-1852/409, 5-23=-1854/409, 5-24=-2587/487, 6-24=-2587/487, 6-7=-2587/487, 7-25=-1854/409, 8-25=-1852/409, 8-9=-2455/459, 9-26=-2331/375, 10-26=-2394/354, 2-21=-2097/380, 10-12=-2097/380
BOT CHORD 20-21=-251/360, 19-20=-253/1791, 19-27=-247/2586, 18-27=-247/2586, 17-18=-247/2586, 17-28=-247/2586, 16-28=-247/2586, 15-16=-205/2587, 15-29=-205/2587, 14-29=-205/2587, 13-14=-137/1791
WEBS 3-20=-255/91, 3-19=-355/219, 4-19=-141/1079, 5-19=-1264/211, 5-17=0/375, 7-16=-13/354, 7-14=-1265/210, 8-14=-141/1075, 9-14=-356/218, 9-13=-255/91, 2-20=-142/1722, 10-13=-142/1722

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=228, 12=228.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2C | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:45 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-CsdfaZFIow8EOqGJOPHGlXB?QvIuRnhkPk9sgyzLwnW

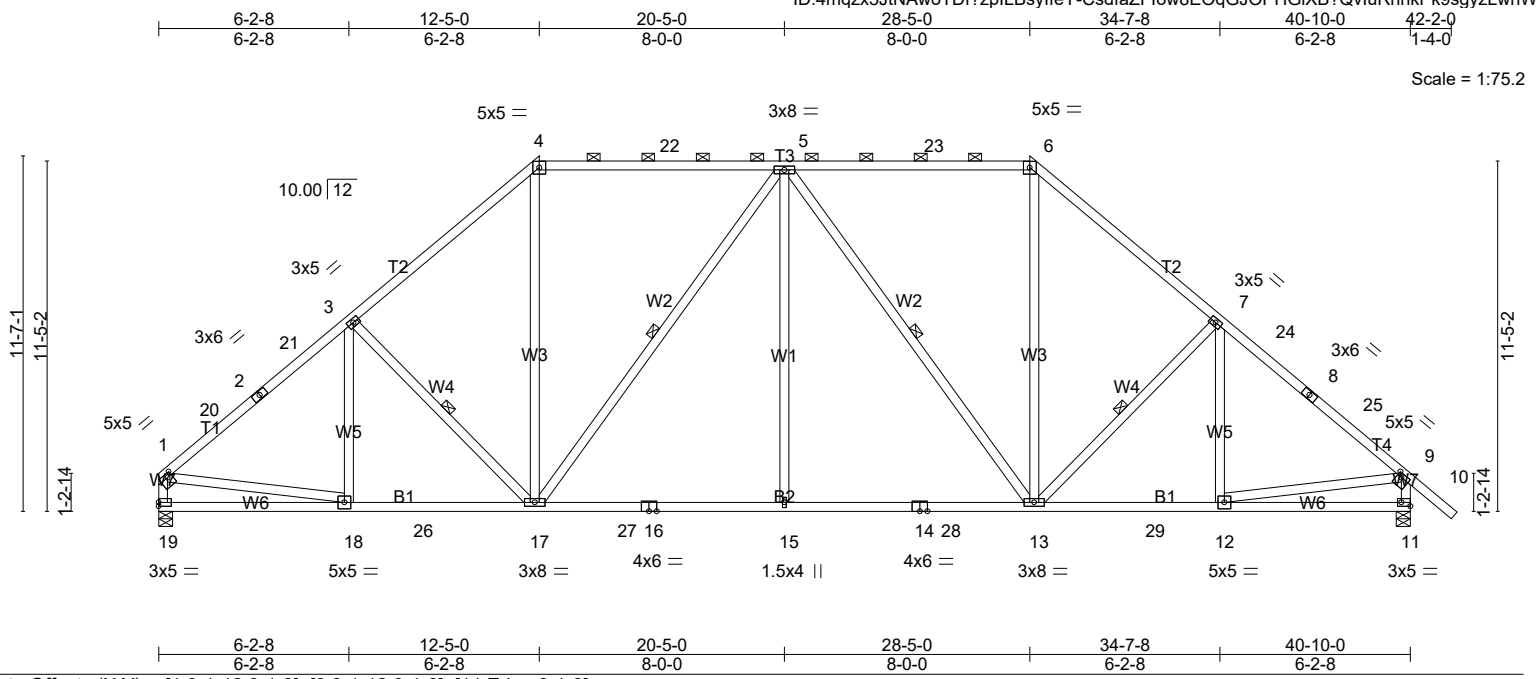



Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [9:0-1-12,0-1-8], [11:Edge,0-1-8]

| 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 | 0.95 | Vert(LL) | -0.19 | 15-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.33 | 15-17 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.79 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 286 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except*
T3: 2x4 SP DSS, T1,T4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-17, 5-17, 5-13, 7-13

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

**REACTIONS.** (lb/size) 19=1745/0-5-8 (min. 0-2-7), 11=1853/0-5-8 (min. 0-2-9)
Max Horz 19=-310(LC 12)
Max Uplift 19=-187(LC 16), 11=-221(LC 17)
Max Grav 19=2076(LC 39), 11=2184(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2507/345, 2-20=-2364/350, 2-21=-2332/354, 3-21=-2164/376, 3-4=-2209/468, 4-22=-1638/425, 5-22=-1641/424, 5-23=-1640/425, 6-23=-1637/425, 6-7=-2202/466, 7-24=-2157/380, 8-24=-2328/357, 8-25=-2345/355, 9-25=-2503/349, 1-19=-2012/310, 9-11=-2120/380
BOT CHORD 18-19=-275/398, 18-26=-234/1839, 17-26=-234/1839, 17-27=-169/2130, 16-27=-169/2130, 15-16=-169/2130, 14-15=-169/2130, 14-28=-169/2130, 13-28=-169/2130, 13-29=-124/1801, 12-29=-124/1801
WEBS 3-17=-538/220, 4-17=-122/906, 5-17=-833/200, 5-15=0/489, 5-13=-835/199, 6-13=-119/903, 7-13=-523/215, 1-18=-145/1649, 9-12=-103/1605

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=187, 11=221.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2D | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:46 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-g2B1nvGwZDG5?_rWy7oVHkkBEIdaAEJtdOuQCPzLwnV

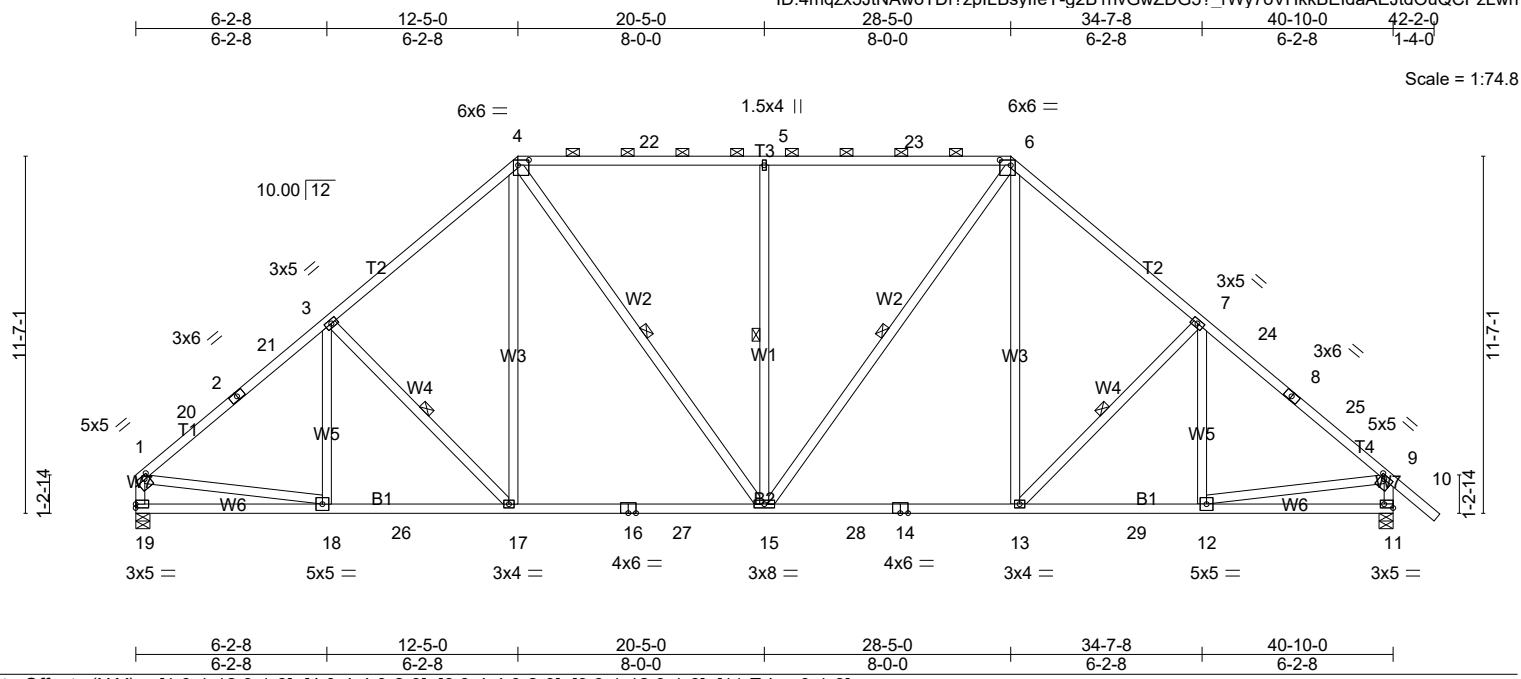



Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [9:0-1-12,0-1-8], [11:Edge,0-1-8]

| 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 | 0.88 | Vert(LL) | -0.19 | 15-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.33 | 15-17 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 287 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except* T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-17, 4-15, 5-15, 6-15, 7-13

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

**REACTIONS.** (lb/size) 19=1745/0-5-8 (min. 0-2-7), 11=1853/0-5-8 (min. 0-2-9)
Max Horz 19=-313(LC 14)
Max Uplift 19=-187(LC 16), 11=-220(LC 17)
Max Grav 19=2076(LC 39), 11=2184(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2507/345, 2-20=-2363/350, 2-21=-2332/354, 3-21=-2164/376, 3-4=-2209/469, 4-22=-2100/476, 5-22=-2100/476, 5-23=-2100/476, 6-23=-2100/476, 6-7=-2202/468, 7-24=-2158/380, 8-24=-2328/357, 8-25=-2345/355, 9-25=-2503/349, 1-19=-2012/310, 9-11=-2120/380
BOT CHORD 18-19=-277/403, 18-26=-236/1841, 17-26=-236/1841, 16-17=-178/1629, 16-27=-178/1629, 15-27=-178/1629, 15-28=-54/1628, 14-28=-54/1628, 13-14=-54/1628, 13-29=-125/1801, 12-29=-125/1801
WEBS 3-17=-554/225, 4-17=-75/667, 4-15=-198/815, 5-15=-1163/253, 6-15=-198/817, 6-13=-72/657, 7-13=-539/220, 1-18=-146/1646, 9-12=-104/1604

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=187, 11=220.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2E | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:47 2022 Page 1
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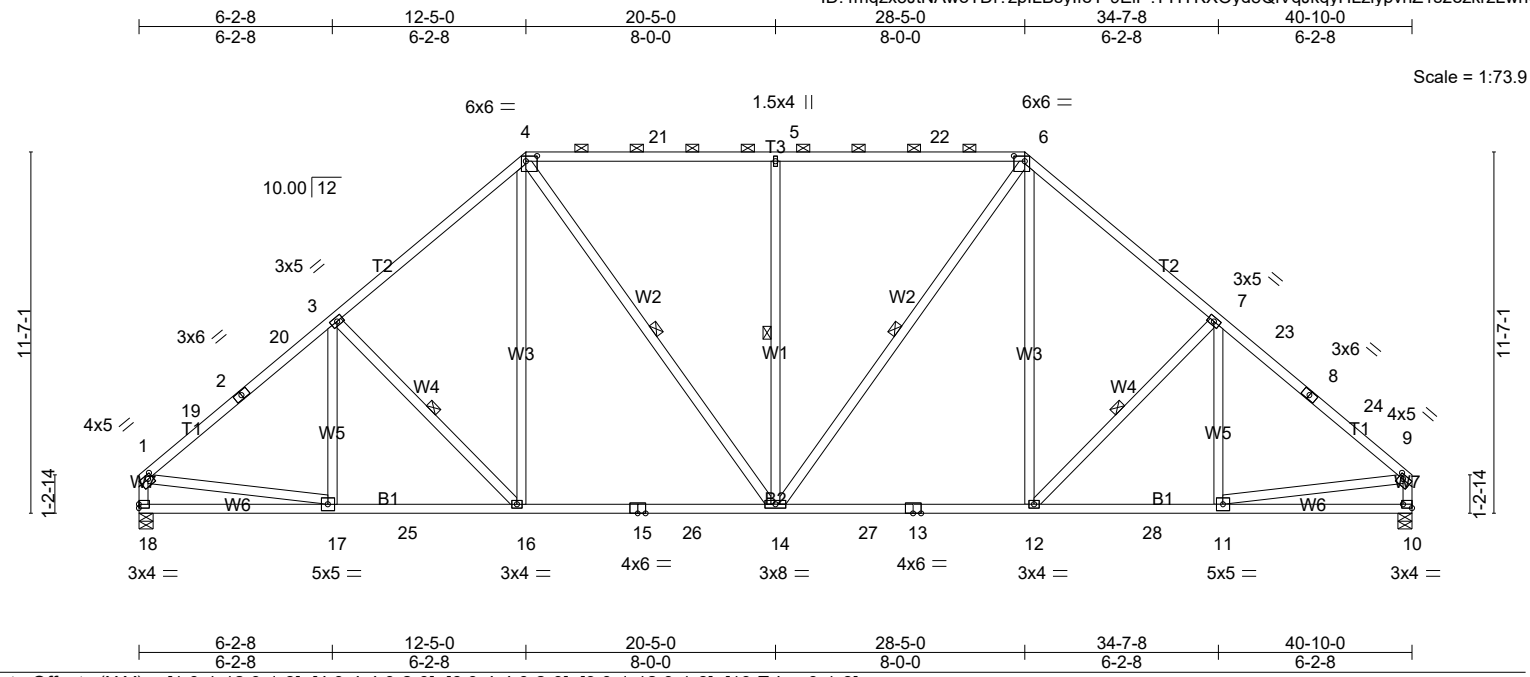


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [9:0-1-12,0-1-8], [10:Edge,0-1-8]

| 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 | 0.88 | Vert(LL) | -0.19 | 14-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.33 | 14-16 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.08 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 284 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 *Except* T3: 2x4 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 3-16, 4-14, 5-14, 6-14, 7-12 |

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

**REACTIONS.** (lb/size) 18=1747/0-5-8 (min. 0-2-7), 10=1747/0-5-8 (min. 0-2-7)
Max Horz 18=291(LC 15)
Max Uplift 18=-187(LC 16), 10=-187(LC 17)
Max Grav 18=2078(LC 38), 10=2078(LC 38)

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

| | |
|---|---|
| TOP CHORD | 1-19=-2509/346, 2-19=-2366/350, 2-20=-2334/355, 3-20=-2167/377, 3-4=-2213/470, 4-21=-2102/476, 5-21=-2102/476, 5-22=-2102/476, 6-22=-2102/476, 6-7=-2213/470, 7-23=-2167/377, 8-23=-2334/355, 8-24=-2366/350, 9-24=-2509/346, 1-18=-2014/310, 9-10=-2014/310 |
| BOT CHORD | 17-18=-290/387, 17-25=-249/1826, 16-25=-249/1826, 15-16=-191/1630, 15-26=-191/1630, 14-26=-191/1630, 14-27=-68/1630, 13-27=-68/1630, 12-13=-68/1630, 12-28=-204/1817, 11-28=-204/1817 |
| WEBS | 3-16=-554/225, 4-16=-75/667, 4-14=-198/816, 5-14=-1163/253, 6-14=-198/816, 6-12=-75/667, 7-12=-553/225, 1-17=-147/1648, 9-11=-147/1648 |

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 18=187, 10=187.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2H | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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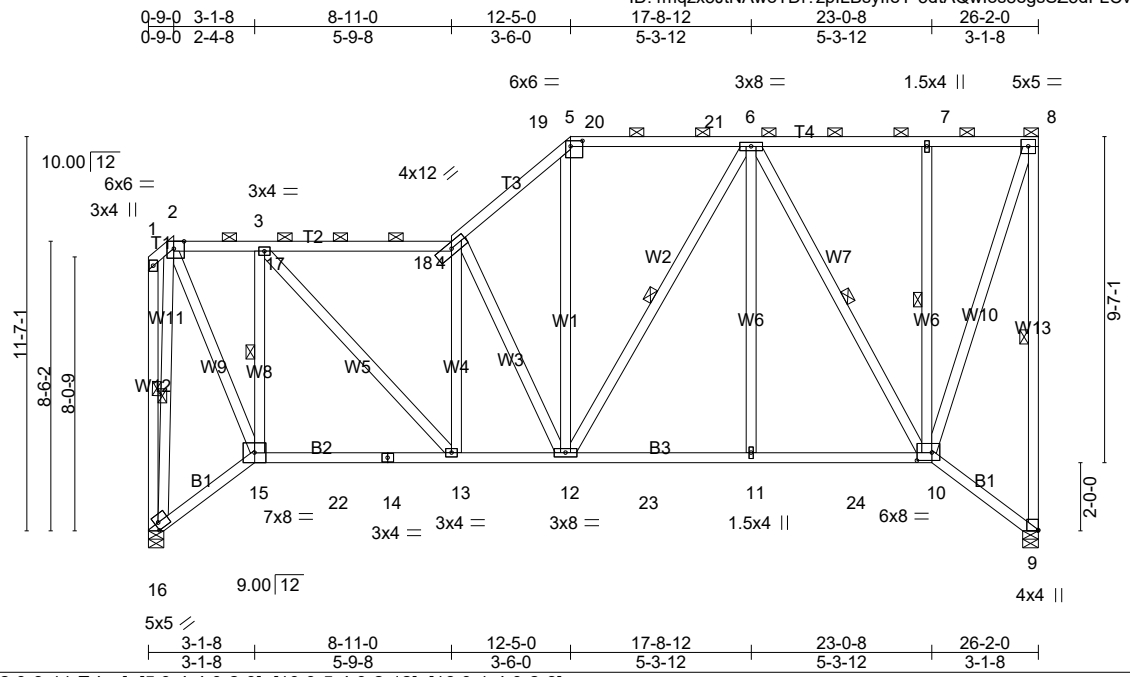


Plate Offsets (X,Y)-- [2:0-3-11,Edge], [5:0-4-4,0-2-0], [10:0-5-4,0-2-12], [16:0-1-4,0-2-8]

| 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 | 0.89 | Vert(LL) | -0.10 | 11-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.16 | 13-15 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.14 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 258 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*
W13: 2x4 SP DSS

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 2-4, 5-8.
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.
WEBS 1 Row at midpt 8-9, 3-15, 6-12, 6-10, 7-10, 1-16, 2-16

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

**REACTIONS.** (lb/size) 9=1115/0-5-8 (min. 0-1-9), 16=1115/0-5-8 (min. 0-1-8)
Max Horz 16=421(LC 13)
Max Uplift9=-235(LC 13), 16=-154(LC 12)
Max Grav 9=1729(LC 40), 16=1618(LC 40)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-287/281, 2-3=-750/324, 3-17=-1499/287, 17-18=-1499/288, 4-18=-1496/288, 4-19=-1530/266, 5-19=-1460/280, 5-20=-1114/255, 20-21=-1114/255, 6-21=-1114/255, 6-7=-511/181, 7-8=-503/181, 8-9=-1699/382, 1-16=-326/293
BOT CHORD 15-16=-618/677, 15-22=-644/885, 14-22=-644/885, 13-14=-644/885, 12-13=-605/1481, 12-23=-369/1055, 11-23=-369/1055, 11-24=-369/1055, 10-24=-369/1055
WEBS 2-15=-464/1784, 3-15=-1501/303, 3-13=-206/1052, 4-13=-670/212, 4-12=-755/302, 5-12=-65/642, 6-12=-183/285, 6-11=0/322, 6-10=-1097/277, 7-10=-535/166, 8-10=-411/1637, 2-16=-1475/161

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 9, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=235, 16=154.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H2J | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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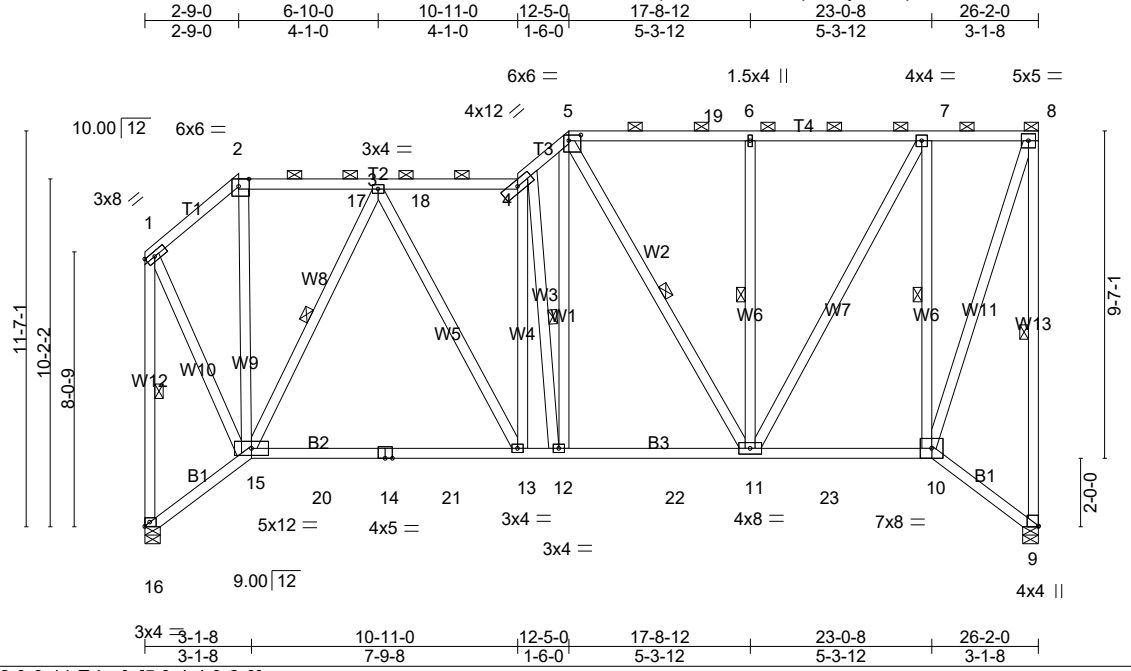


Plate Offsets (X,Y)-- [2:0-3-11,Edge], [5:0-4-4,0-2-0]

| 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 | 0.94 | Vert(LL) | -0.18 | 13-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.32 | 13-15 | >985 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.12 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 266 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*
W13: 2x4 SP DSS

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-13 max.): 2-4, 5-8.
BOT CHORD Rigid ceiling directly applied or 7-4-7 oc bracing.
WEBS 1 Row at midpt 8-9, 3-15, 4-12, 5-11, 6-11, 7-10, 1-16

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

**REACTIONS.** (lb/size) 9=1115/0-5-8 (min. 0-1-10), 16=1115/0-5-8 (min. 0-1-8)
Max Horz 16=421(LC 13)
Max Uplift9=-235(LC 13), 16=-144(LC 16)
Max Grav 9=1786(LC 40), 16=1561(LC 40)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-731/357, 2-17=-570/301, 3-17=-572/300, 3-18=-1375/252, 4-18=-1372/252, 4-5=-1627/318, 5-19=-1104/215, 6-19=-1104/215, 6-7=-1104/215, 7-8=-521/182, 8-9=-1757/385, 1-16=-1543/439
BOT CHORD 15-16=-599/620, 15-20=-570/1095, 14-20=-570/1095, 14-21=-570/1095, 13-21=-570/1095, 12-13=-509/1366, 12-22=-462/1201, 11-22=-462/1201, 11-23=-236/546, 10-23=-236/546
WEBS 2-15=-162/272, 3-15=-1259/235, 3-13=-94/643, 4-13=-358/186, 4-12=-920/258, 5-12=-276/910, 5-11=-270/184, 6-11=-713/170, 7-11=-277/1149, 7-10=-1542/407, 8-10=-413/1698, 1-15=-191/1209

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 9, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=235, 16=144.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6A | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:52 2022 Page 1
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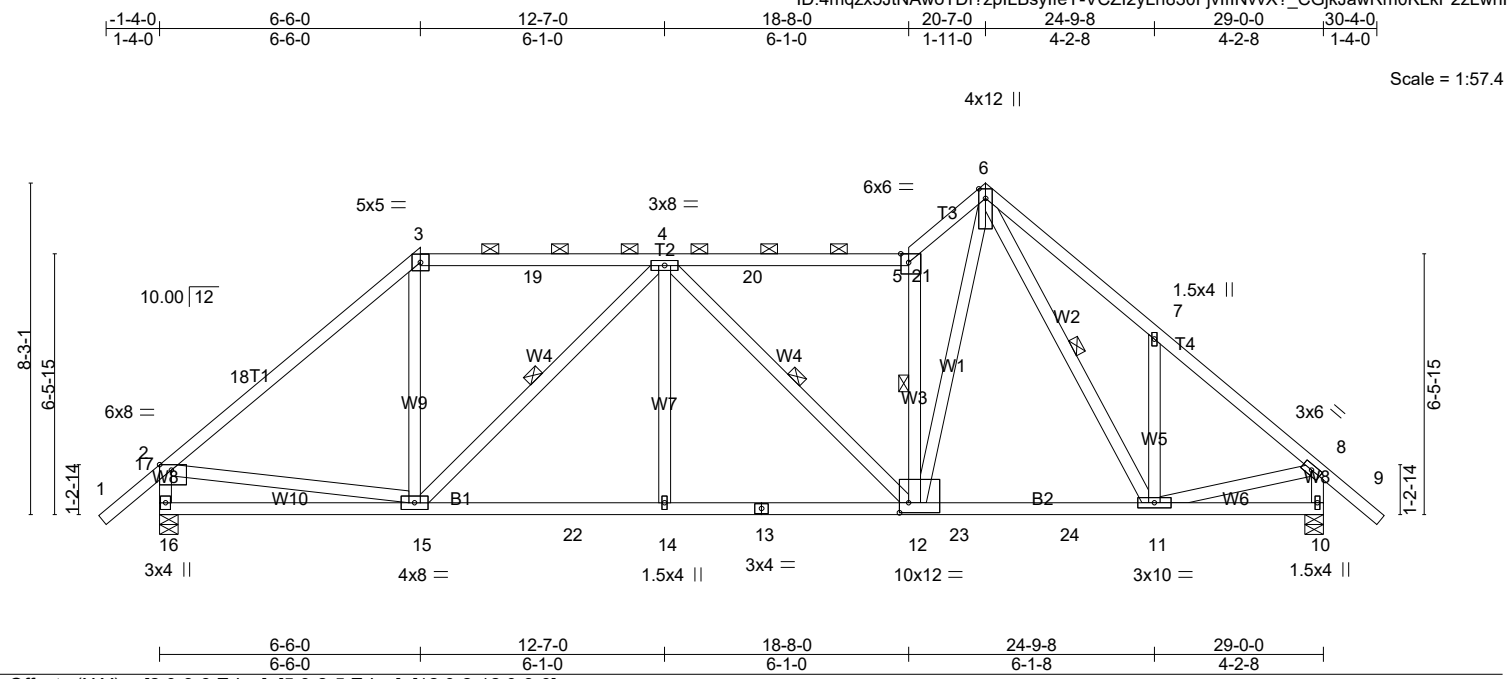


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-2-5,Edge], [12:0-2-12,0-3-0]

| 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 | 0.84 | Vert(LL) | -0.12 | 12-14 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.21 | 12-14 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.05 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 199 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except* T3,T4: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W8: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-14 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
WEBS 1 Row at midpt 4-15, 4-12, 5-12, 6-11

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

**REACTIONS.** (lb/size) 16=1341/0-5-8 (min. 0-1-13), 10=1341/0-5-8 (min. 0-1-13)
Max Horz 16=240(LC 15)
Max Uplift16=-207(LC 16), 10=-116(LC 16)
Max Grav 16=1561(LC 2), 10=1561(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-1704/240, 3-18=-1635/271, 3-19=-1260/277, 4-19=-1263/277, 4-20=-1594/321, 20-21=-1592/321, 5-21=-1590/321, 5-6=-2096/459, 6-7=-1603/423, 7-8=-1597/250, 2-16=-1501/304, 8-10=-1524/283
BOT CHORD 15-16=-246/508, 15-22=-163/1936, 14-22=-163/1936, 13-14=-163/1936, 12-13=-163/1936, 12-23=-21/1066, 23-24=-21/1066, 11-24=-21/1066
WEBS 3-15=-12/628, 4-15=-962/147, 4-14=0/282, 4-12=-486/94, 5-12=-1706/385, 6-12=-354/2225, 6-11=-209/310, 7-11=-404/239, 2-15=-119/1161, 8-11=-80/1134

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=207, 10=116.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6AA | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:53 2022 Page 1
ID:4mqzx5JtNAwoTDf?zpILBsyIfeY-zO6gFILJvN96L3tss5Q83DXMm76JJTpvE_5IyVzLwnO

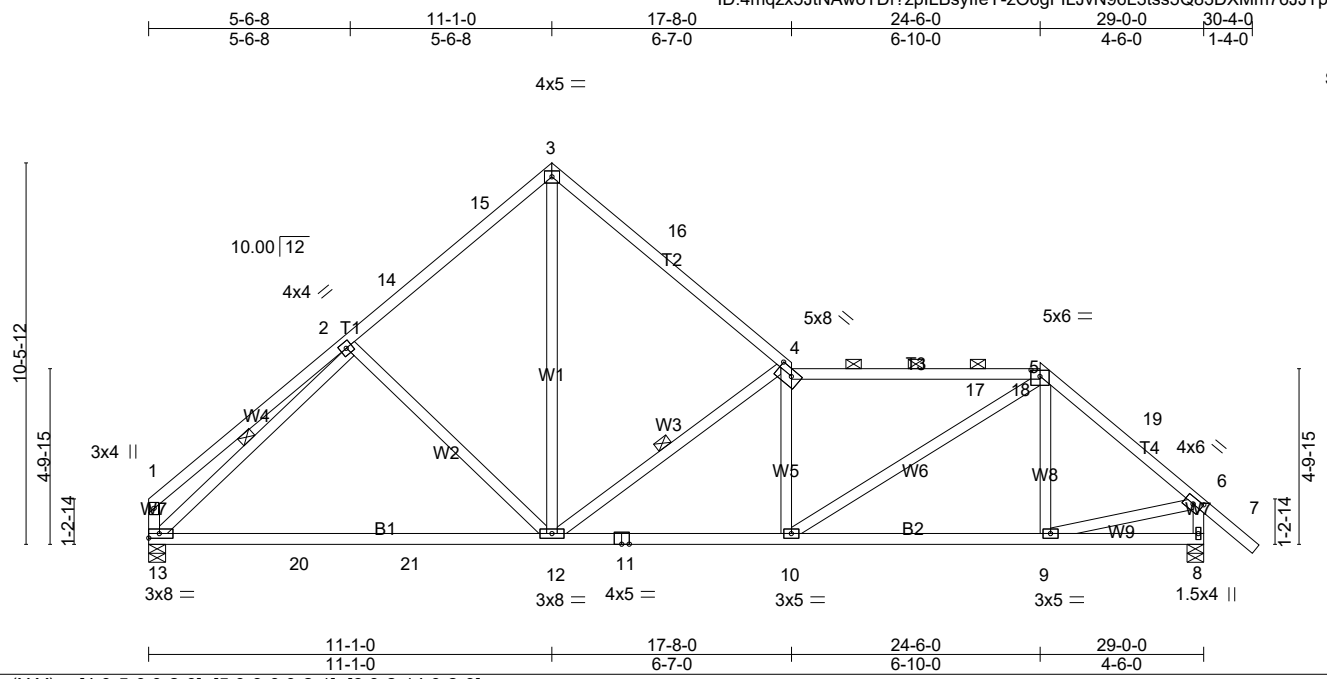


Plate Offsets (X,Y)-- [4:0-5-0,0-2-0], [5:0-3-0,0-2-1], [6:0-2-14,0-2-0]

| 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 | 0.92 | Vert(LL) | -0.28 | 12-13 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.58 | 12-13 | >599 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 181 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T2,T3: 2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 13=1234/0-5-8 (min. 0-1-8), 8=1344/0-5-8 (min. 0-1-10)
Max Horz 13=-284(LC 12)
Max Uplift13=-91(LC 17), 8=-180(LC 17)
Max Grav 13=1432(LC 2), 8=1627(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-494/118, 2-14=-1438/275, 14-15=-1285/294, 3-15=-1225/315, 3-16=-1263/295, 4-16=-1467/270, 4-17=-2199/388, 17-18=-2199/388, 5-18=-2199/388, 5-19=-1433/246, 6-19=-1631/229, 1-13=-428/115, 6-8=-1597/279
BOT CHORD 13-20=-140/1189, 20-21=-140/1189, 12-21=-140/1189, 11-12=-195/2181, 10-11=-195/2181, 9-10=-50/1185
WEBS 2-12=-288/250, 3-12=-217/1185, 4-12=-1454/340, 4-10=-557/166, 5-10=-179/1213, 2-13=-1331/209, 6-9=-49/1164

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) The Fabrication Tolerance at joint 4 = 8%
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=180.
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.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6B | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:54 2022 Page 1
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-1-4-0 | 4-3-0 | 8-6-0 | 14-6-0 | 20-6-0 | 24-9-0 | 29-0-0 | 30-4-0
1-4-0 | 4-3-0 | 4-3-0 | 6-0-0 | 6-0-0 | 4-3-0 | 4-3-0 | 1-4-0

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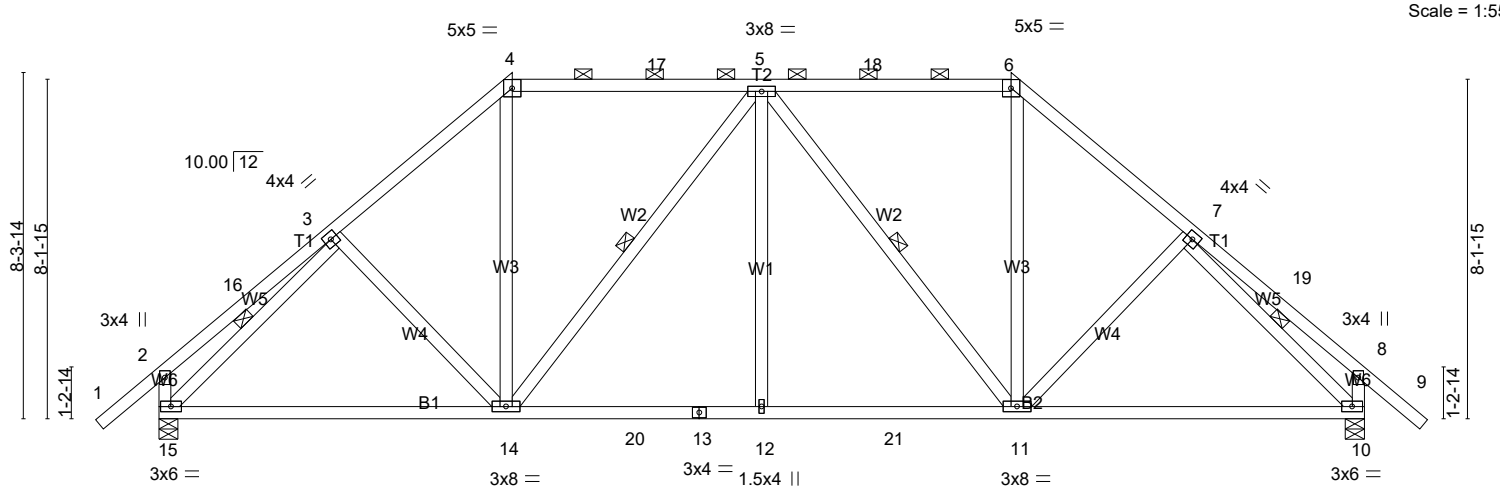


8-6-0 | 14-6-0 | 20-6-0 | 29-0-0
8-6-0 | 6-0-0 | 6-0-0 | 8-6-0

| 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 | 0.79 | Vert(LL) | -0.12 | 14-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.24 | 14-15 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.06 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 198 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 or 4-0-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-2 max.): 4-6. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-14, 5-11, 3-15, 7-10 |

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

**REACTIONS.** (lb/size) 15=1341/0-5-8 (min. 0-2-0), 10=1341/0-5-8 (min. 0-2-0)
Max Horz 15=240(LC 15)
Max Uplift 15=-167(LC 16), 10=-167(LC 17)
Max Grav 15=1717(LC 39), 10=1717(LC 39)

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

| | |
|---|---|
| TOP CHORD | 2-16=-298/110, 3-4=-1532/316, 4-17=-1159/291, 5-17=-1162/291, 5-18=-1162/291, 6-18=-1159/291, 6-7=-1532/316, 8-19=-298/110, 2-15=-530/166, 8-10=-530/166 |
| BOT CHORD | 14-15=-186/1123, 14-20=-134/1543, 13-20=-134/1543, 12-13=-134/1543, 12-21=-134/1543, 11-21=-134/1543, 10-11=-80/1123 |
| WEBS | 4-14=-69/564, 5-14=-623/157, 5-12=0/312, 5-11=-623/157, 6-11=-69/564, 3-15=-1503/199, 7-10=-1503/199 |

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=167, 10=167.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6BA | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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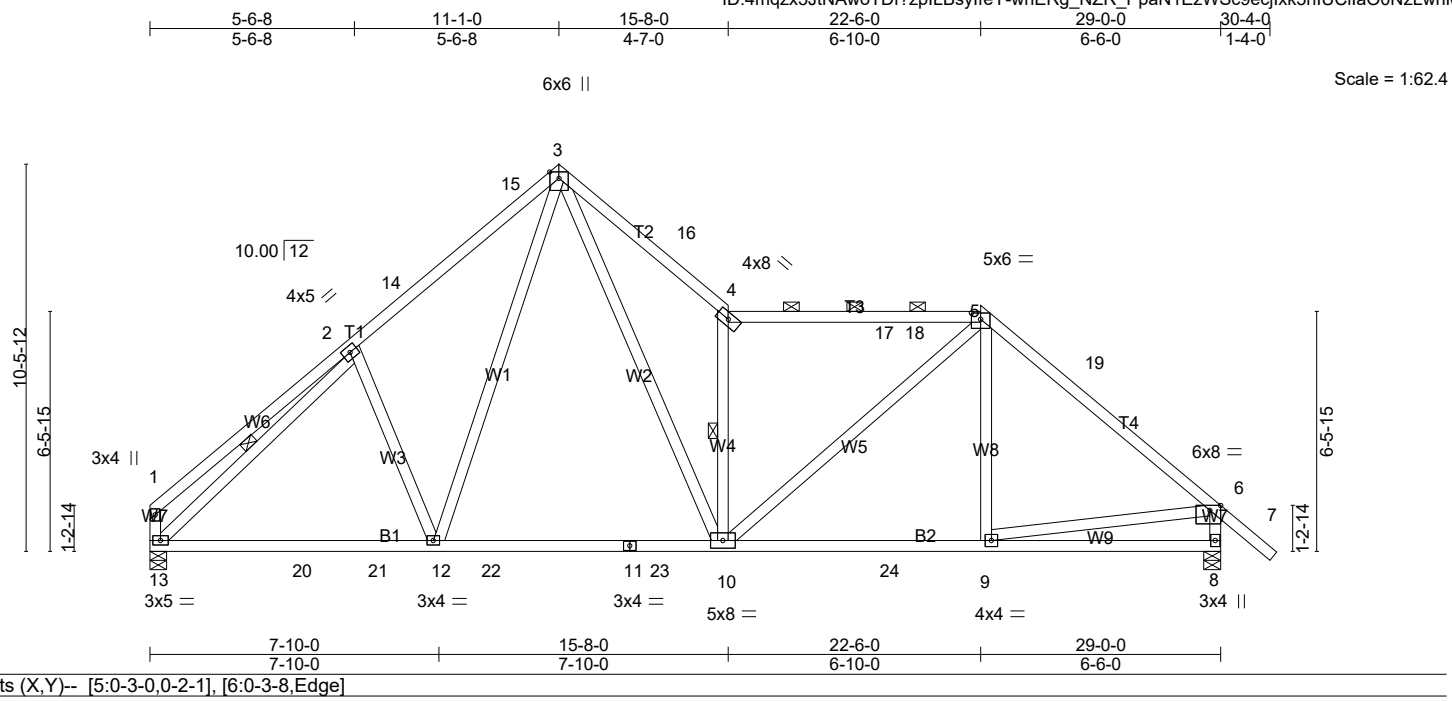


Plate Offsets (X,Y)-- [5:0-3-0,0-2-1], [6:0-3-8,Edge]

| 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 | 0.86 | Vert(LL) | -0.21 | 10-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.68 | Vert(CT) | -0.32 | 10-12 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.04 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 193 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP DSS, T4: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W7: 2x4 SP No.2

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

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

**REACTIONS.** (lb/size) 13=1234/0-5-8 (min. 0-1-11), 8=1344/0-5-8 (min. 0-2-0)
Max Horz 13=-284(LC 12)
Max Uplift 13=-91(LC 17), 8=-180(LC 17)
Max Grav 13=1432(LC 2), 8=1669(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-333/155, 2-14=-1567/343, 14-15=-1407/363, 3-15=-1319/383, 3-16=-2139/535, 4-16=-2259/515, 4-17=-1672/335, 17-18=-1672/335, 5-18=-1672/335, 5-19=-1472/263, 6-19=-1678/240, 1-13=-322/138, 6-8=-1612/295
BOT CHORD 13-20=-127/1279, 20-21=-127/1279, 12-21=-127/1279, 12-22=-32/1018, 11-22=-32/1018, 11-23=-32/1018, 10-23=-32/1018, 10-24=-24/1166, 9-24=-24/1166, 8-9=-119/353
WEBS 2-12=-286/268, 3-12=-153/504, 3-10=-367/1668, 4-10=-1837/480, 5-10=-86/717, 2-13=-1448/151, 6-9=-71/1005

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=180.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6C | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:56 2022 Page 1
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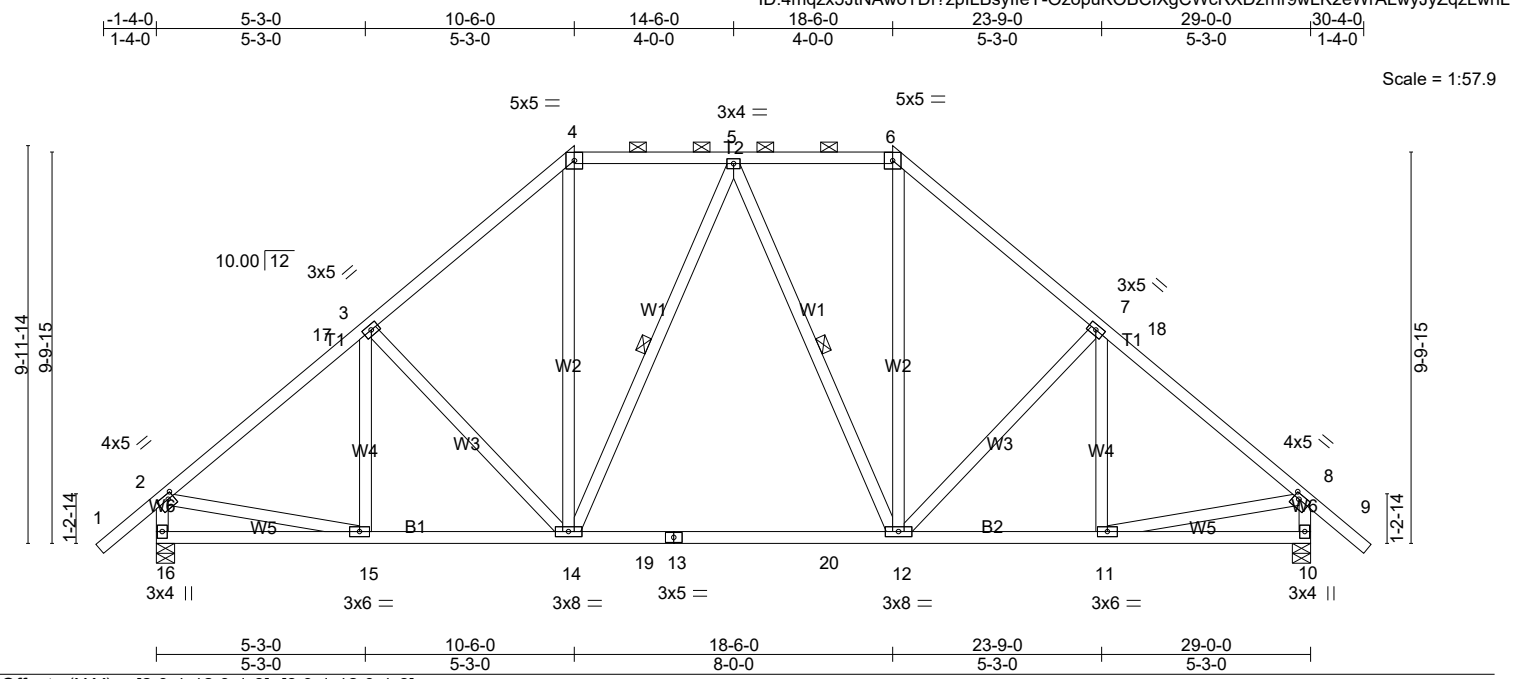


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [8:0-1-12,0-1-8]

| 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 | 0.71 | Vert(LL) | -0.20 | 12-14 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.78 | Vert(CT) | -0.33 | 12-14 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.49 | Horz(CT) | 0.04 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 212 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 3-3-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-1 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 5-12

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

**REACTIONS.** (lb/size) 16=1341/0-5-8 (min. 0-2-2), 10=1341/0-5-8 (min. 0-2-2)
Max Horz 16=-281(LC 14)
Max Uplift 16=-158(LC 16), 10=-158(LC 17)
Max Grav 16=1806(LC 39), 10=1806(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1933/250, 3-17=-1570/261, 3-4=-1594/328, 4-5=-1048/307, 5-6=-1048/307, 6-7=-1594/328, 7-18=-1570/261, 8-18=-1933/250, 2-16=-1750/290, 8-10=-1750/290
BOT CHORD 15-16=-247/362, 14-15=-147/1340, 14-19=-78/1073, 13-19=-78/1073, 13-20=-78/1073, 12-20=-78/1073, 11-12=-51/1340
WEBS 3-14=-409/192, 4-14=-84/502, 5-14=-322/166, 5-12=-322/166, 6-12=-84/502, 7-12=-409/191, 2-15=-58/1184, 8-11=-58/1184

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=158, 10=158.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6CA | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:58 2022 Page 1
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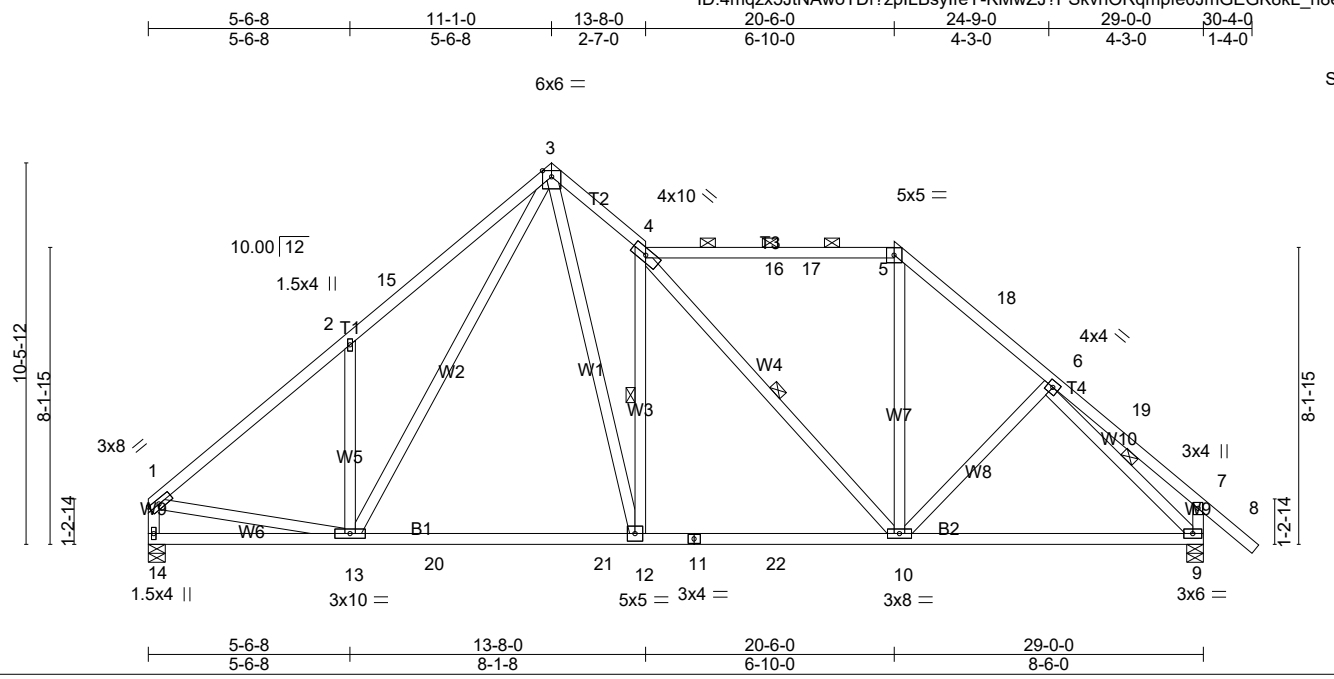


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.18 | 12-13 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.30 | 12-13 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 204 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T3: 2x4 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-11 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 4-12, 4-10, 6-9 |

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

**REACTIONS.** (lb/size) 14=1234/0-5-8 (min. 0-1-11), 9=1344/0-5-8 (min. 0-2-0)
Max Horz 14=-284(LC 12)
Max Uplift 14=-91(LC 17), 9=-180(LC 17)
Max Grav 14=1432(LC 2), 9=1712(LC 41)

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

| | |
|---|---|
| TOP CHORD | 1-2=-1674/248, 2-15=-1717/451, 3-15=-1588/489, 3-4=-1783/472, 4-16=-1093/289, 16-17=-1093/289, 5-17=-1093/289, 5-18=-1321/308, 6-18=-1521/291, 7-19=-301/114, 1-14=-1387/210, 7-9=-533/169 |
| BOT CHORD | 13-14=-250/332, 13-20=-55/1053, 20-21=-55/1053, 12-21=-55/1053, 11-12=-45/1393, 11-22=-45/1393, 10-22=-45/1393, 9-10=-74/1117 |
| WEBS | 2-13=-509/335, 3-13=-287/596, 3-12=-310/1543, 4-12=-1315/390, 4-10=-480/78, 5-10=-35/490, 1-13=-62/1095, 6-9=-1491/187 |

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 9=180.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6D | Hip | 2 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:20:59 2022 Page 1
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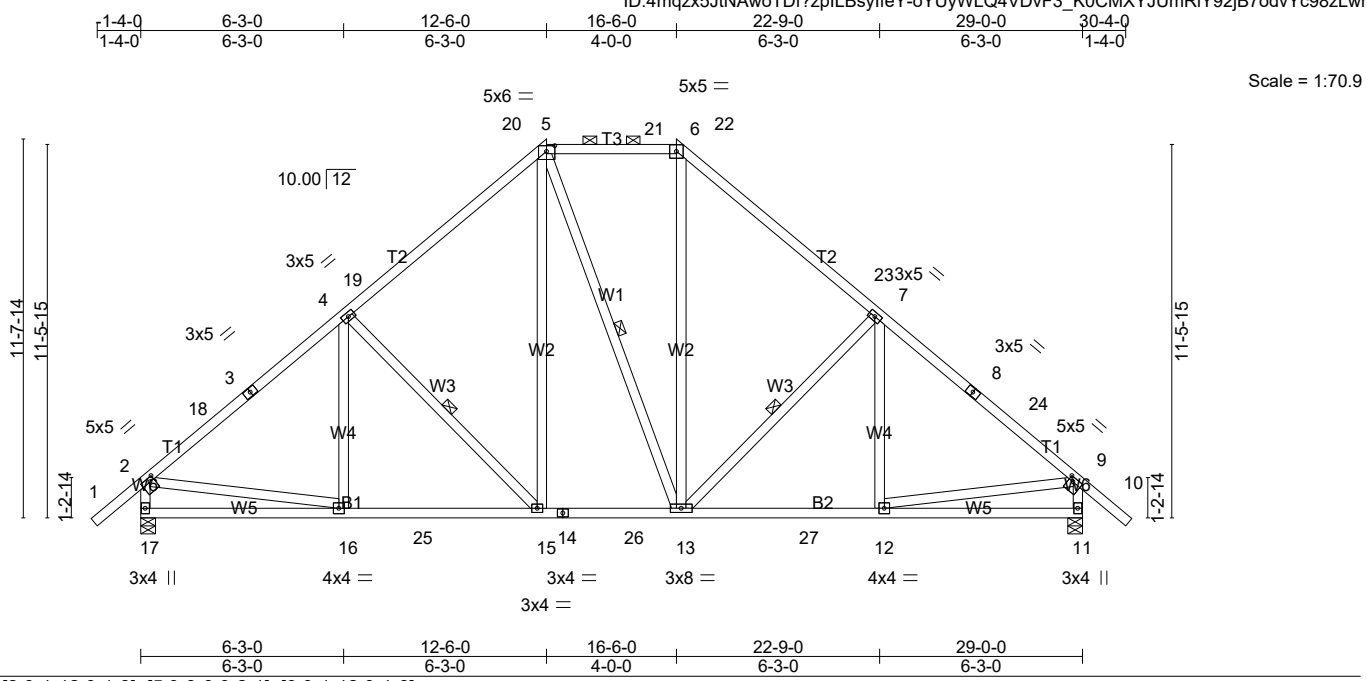


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [5:0-3-0,0-2-1], [9:0-1-12,0-1-8]

| 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 | 0.76 | Vert(LL) | -0.08 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.13 | 15-16 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.04 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 215 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except* T3: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 17=1341/0-5-8 (min. 0-2-3), 11=1341/0-5-8 (min. 0-2-3)
Max Horz 17=-322(LC 14)
Max Uplift 17=-148(LC 16), 11=-148(LC 17)
Max Grav 17=1866(LC 39), 11=1866(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2096/227, 3-18=-1941/232, 3-4=-1738/258, 4-19=-1695/295, 19-20=-1418/333, 5-20=-1206/337, 5-21=-1091/325, 6-21=-1091/325, 6-22=-1206/337, 22-23=-1419/333, 7-23=-1696/295, 7-8=-1738/258, 8-24=-1940/232, 9-24=-2096/227, 2-17=-1806/287, 9-11=-1805/287
BOT CHORD 16-17=-298/417, 16-25=-141/1520, 15-25=-141/1520, 14-15=-42/1095, 14-26=-42/1095, 13-26=-42/1095, 13-27=-33/1491, 12-27=-33/1491
WEBS 4-15=-591/228, 5-15=-102/588, 6-13=-86/544, 7-13=-590/228, 2-16=-12/1305, 9-12=-12/1304

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=148, 11=148.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H6DA | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:00 2022 Page 1
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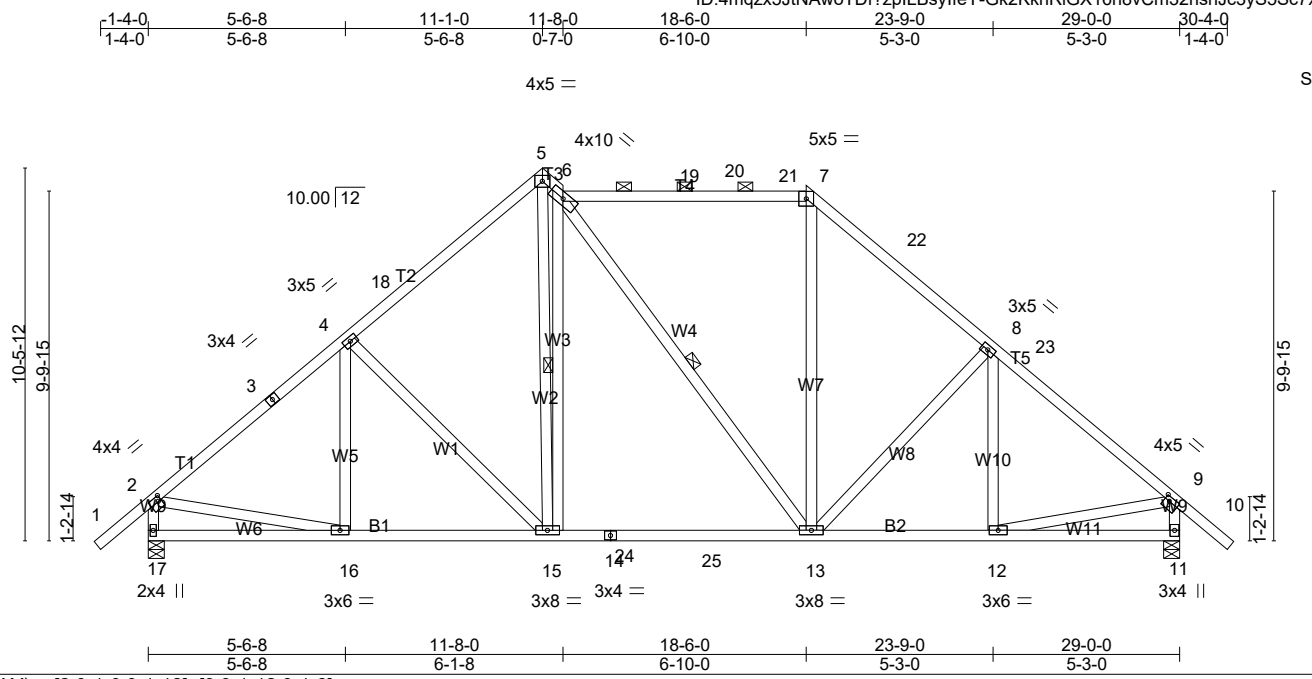


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [9:0-1-12,0-1-8]

| 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 | 0.73 | Vert(LL) | -0.14 | 13-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(CT) | -0.24 | 13-15 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.04 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 217 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T4: 2x4 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-15 max.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 6-15, 6-13 |

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

**REACTIONS.** (lb/size) 17=1341/0-5-8 (min. 0-1-13), 11=1341/0-5-8 (min. 0-1-15)
Max Horz 17=295(LC 15)
Max Uplift 17=-123(LC 16), 11=-180(LC 17)
Max Grav 17=1561(LC 2), 11=1661(LC 41)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1651/237, 3-4=-1402/259, 4-18=-1407/290, 5-18=-1262/328, 5-6=-1295/377, 6-19=-1005/311, 19-20=-1005/311, 20-21=-1005/311, 7-21=-1005/311, 7-22=-1289/327, 8-22=-1440/309, 8-23=-1405/258, 9-23=-1751/238, 2-17=-1506/288, 9-11=-1606/288 |
| BOT CHORD | 16-17=-265/352, 15-16=-132/1219, 15-24=-76/1060, 14-24=-76/1060, 14-25=-76/1060, 13-25=-76/1060, 12-13=-48/1199 |
| WEBS | 4-15=-328/205, 5-15=-347/1544, 6-15=-1345/335, 7-13=-37/381, 8-13=-432/181, 2-16=-39/1058, 9-12=-52/1074 |

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=123, 11=180.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | H7A | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:01 2022 Page 1
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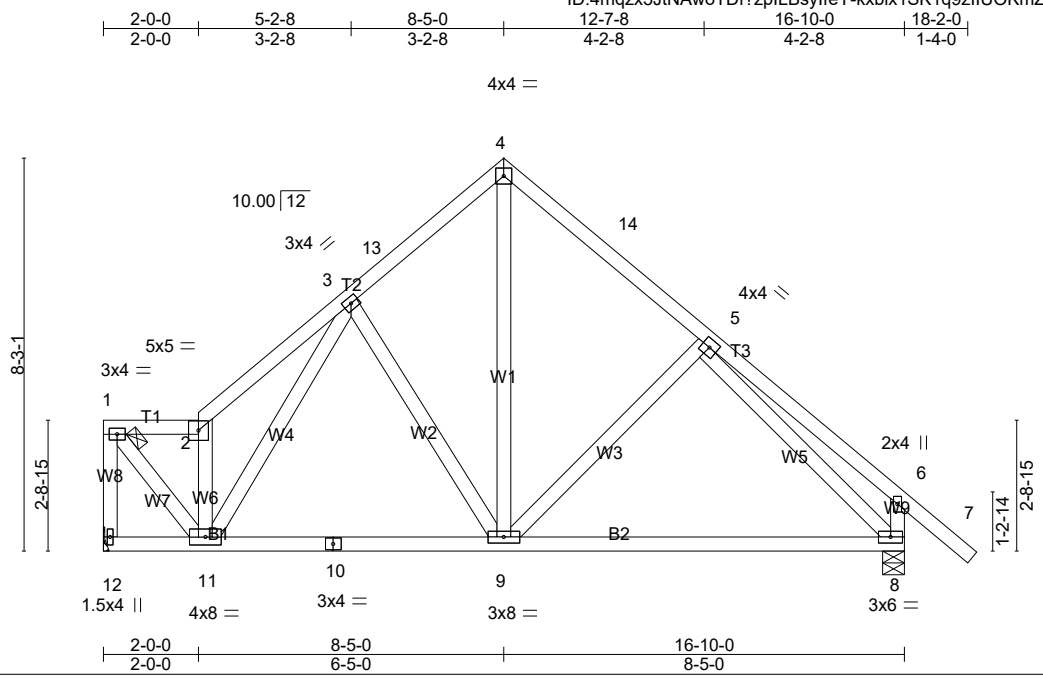


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.39 | Vert(LL) | -0.11 | 8-9 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.23 | 8-9 | >862 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 117 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 5-11-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
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) 12=708/Mechanical, 8=822/0-5-8 (min. 0-1-8)
Max Horz 12=-246(LC 12)
Max Uplift 12=-64(LC 16), 8=-90(LC 17)
Max Grav 12=843(LC 39), 8=959(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-824/117, 1-2=-651/114, 2-3=-882/208, 3-13=-710/179, 4-13=-583/201, 4-14=-583/187, 5-14=-703/171, 6-8=-347/157
BOT CHORD 10-11=-41/637, 9-10=-41/637, 8-9=0/567
WEBS 1-11=-128/1014, 2-11=-711/185, 3-9=-343/160, 4-9=-146/487, 5-8=-725/88

**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, Lu=50-0-0
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) 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.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 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.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | HG1 | HIP GIRDER | 1 | 2 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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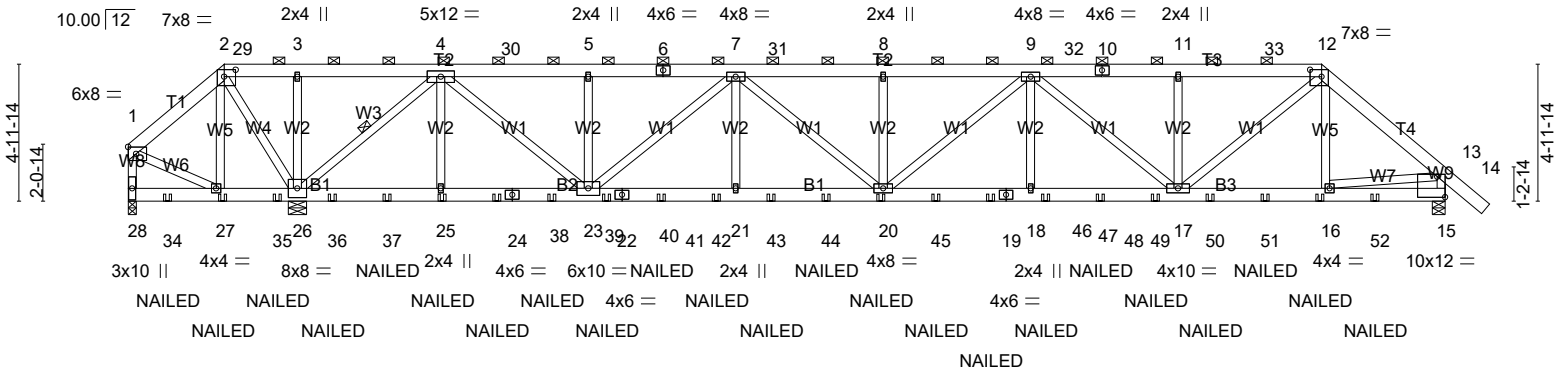
| 3-6-0 | 6-2-0 | 11-4-12 | 16-9-4 | 22-1-12 | 27-6-4 | 32-10-12 | 38-3-4 | 43-6-0 | 48-0-0 | 49-4-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 3-6-0 | 2-8-0 | 5-2-12 | 5-4-8 | 5-4-8 | 5-4-8 | 5-4-8 | 5-4-8 | 5-2-12 | 4-6-0 | 1-4-0 |

Scale = 1:84.0




| 3-6-0 | 6-2-0 | 11-4-12 | 16-9-4 | 22-1-12 | 27-6-4 | 32-10-12 | 38-3-4 | 43-6-0 | 48-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 3-6-0 | 2-8-0 | 5-2-12 | 5-4-8 | 5-4-8 | 5-4-8 | 5-4-8 | 5-4-8 | 5-2-12 | 4-6-0 |

Plate Offsets (X,Y)-- [2:0-5-0,0-3-0], [12:0-5-0,0-3-0], [15:Edge,0-9-0]

| **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 | 0.78 | Vert(LL) | -0.22 | 18-20 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.35 | 18-20 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.95 | Horz(CT) | 0.07 | 15 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 755 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-12.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-26

**REACTIONS.** (lb/size) 28=-2841/0-3-8 (min. 0-1-8), 26=8084/0-8-0 (min. 0-5-6), 15=3024/0-5-8 (min. 0-1-15)
Max Horz 28=-155(LC 12)
Max Uplift 28=-3316(LC 55), 26=-3118(LC 13), 15=-1099(LC 17)
Max Grav 28=1201(LC 12), 26=9126(LC 38), 15=3313(LC 55)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1214/3447, 2-29=-1693/4887, 3-29=-1693/4887, 3-4=-1693/4887, 4-30=-2937/1144, 5-30=-2937/1144, 5-6=-2937/1144, 6-7=-2937/1144, 7-31=-6346/2359, 8-31=-6346/2359, 8-9=-6346/2359, 9-32=-5358/1909, 10-32=-5358/1909, 10-11=-5358/1909, 11-33=-5358/1909, 12-33=-5358/1909, 12-13=-3880/1360, 1-28=-1264/3531, 13-15=-3194/1159
BOT CHORD 27-35=-2658/1065, 26-35=-2658/1065, 26-36=-558/333, 36-37=-558/333, 25-37=-558/333, 25-38=-558/333, 24-38=-558/333, 24-39=-558/333, 23-39=-558/333, 23-40=-1838/5216, 22-40=-1838/5216, 22-41=-1838/5216, 41-42=-1838/5216, 21-42=-1838/5216, 21-43=-1838/5216, 43-44=-1838/5216, 20-44=-1838/5216, 20-45=-2193/6407, 45-46=-2193/6407, 19-46=-2193/6407, 18-19=-2193/6407, 18-47=-2193/6407, 47-48=-2193/6407, 48-49=-2193/6407, 17-49=-2193/6407, 17-50=-917/2914, 50-51=-917/2914, 16-51=-917/2914, 16-52=-118/302, 15-52=-118/302
WEBS 2-27=-576/1616, 2-26=-4467/1570, 3-26=-767/196, 4-26=-5786/2052, 4-25=-182/452, 4-23=-1631/4571, 5-23=-439/150, 7-23=-2981/1067, 7-21=-199/536, 7-20=-583/1553, 8-20=-422/144, 9-18=-204/547, 9-17=-1594/574, 11-17=-709/151, 12-17=-1108/3234, 1-27=-2917/1089, 13-16=-866/2670

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 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, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

Continued on page 2

**NOTES-**

8) Provide adequate drainage to prevent water ponding.
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 100 lb uplift at joint(s) except (jt=lb) 28=3316, 26=3118, 15=1099.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-66, 2-12=-66, 12-13=-66, 13-14=-66, 15-28=-20
   Concentrated Loads (lb)
   Vert: 27=-268(F) 25=-158(F) 20=-158(F) 16=-158(F) 34=-268(F) 35=-268(F) 36=-158(F) 37=-158(F) 38=-158(F) 39=-158(F) 40=-158(F) 41=-158(F) 42=-158(F) 43=-158(F) 44=-158(F) 45=-158(F) 46=-158(F) 47=-158(F) 48=-158(F) 49=-158(F) 50=-158(F) 51=-158(F) 52=-247(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | HG2 | HIP GIRDER | 1 | 2 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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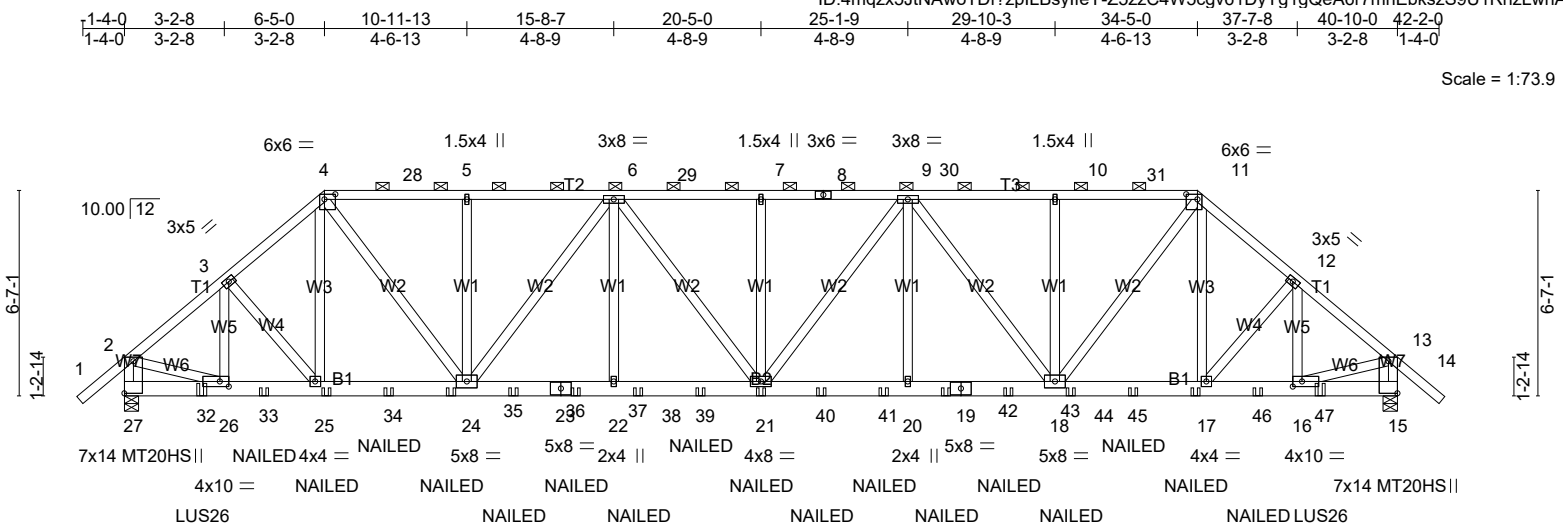


| 3-2-8 | 6-5-0 | 10-11-13 | 15-8-7 | 20-5-0 | 25-1-9 | 29-10-3 | 34-5-0 | 37-7-8 | 40-10-0 |
|---|---|---|---|---|---|---|---|---|---|
| 3-2-8 | 3-2-8 | 4-6-13 | 4-8-9 | 4-8-9 | 4-8-9 | 4-8-9 | 4-6-13 | 3-2-8 | 3-2-8 |

Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [11:0-4-4,0-2-0], [15:Edge,0-3-8], [16:0-3-8,0-2-0], [26:0-3-8,0-2-0], [27: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 | 0.54 | Vert(LL) | -0.27 | 21 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.42 | 20-21 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.81 | Horz(CT) | 0.11 | 15 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 652 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-3 max.): 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 27=4518/0-5-8 (min. 0-2-14), 15=4518/0-5-8 (min. 0-2-14)
Max Horz 27=197(LC 15)
Max Uplift 27=-1434(LC 16), 15=-1434(LC 17)
Max Grav 27=4854(LC 38), 15=4854(LC 38)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5278/1670, 3-4=-5721/1857, 4-28=-6592/2128, 5-28=-6592/2128, 5-6=-6592/2128, 6-29=-8289/2689, 7-29=-8289/2689, 7-8=-8289/2689, 8-30=-8289/2689, 9-30=-8289/2689, 9-10=-6592/2128, 10-31=-6592/2128, 11-31=-6592/2128, 11-12=-5721/1857, 12-13=-5278/1670, 2-27=-4649/1518, 13-15=-4649/1518
BOT CHORD 27-32=-230/342, 26-32=-230/342, 26-33=-1273/4004, 25-33=-1273/4004, 25-34=-1344/4358, 34-35=-1344/4358, 24-35=-1344/4358, 24-36=-2394/7907, 23-36=-2394/7907, 23-37=-2394/7907, 22-37=-2394/7907, 22-38=-2394/7907, 38-39=-2394/7907, 21-39=-2394/7907, 21-40=-2358/7907, 40-41=-2358/7907, 20-41=-2358/7907, 20-42=-2358/7907, 19-42=-2358/7907, 19-43=-2358/7907, 18-43=-2358/7907, 18-44=-1236/4358, 44-45=-1236/4358, 17-45=-1236/4358, 17-46=-1153/4004, 16-46=-1153/4004, 16-47=-71/253, 15-47=-71/253
WEBS 3-26=-824/253, 3-25=-221/563, 4-25=-228/570, 4-24=-1159/3771, 5-24=-616/142, 6-24=-2175/720, 6-22=-240/757, 6-21=-300/732, 7-21=-368/133, 9-21=-300/732, 9-20=-240/757, 9-18=-2175/719, 10-18=-616/142, 11-18=-1160/3771, 11-17=-228/570, 12-17=-221/563, 12-16=-824/253, 2-26=-1173/3925, 13-16=-1173/3925

**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, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

Continued on page 2

**NOTES-**

8) Provide adequate drainage to prevent water ponding.
9) All plates are MT20 plates unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 27=1434, 15=1434.
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.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 35-10-8 oc max. starting at 2-5-12 from the left end to 38-4-4 to connect truss(es) EJ2B (1 ply 2x4 SP) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-66, 2-4=-66, 4-11=-66, 11-13=-66, 13-14=-66, 15-27=-20
   Concentrated Loads (lb)
      Vert: 25=-263(B) 21=-263(B) 17=-263(B) 32=-413(B) 33=-279(B) 34=-263(B) 35=-263(B) 36=-263(B) 37=-263(B) 38=-263(B) 39=-263(B) 40=-263(B) 41=-263(B) 42=-263(B) 43=-263(B) 44=-263(B) 45=-263(B) 46=-279(B) 47=-413(B)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | HG6 | Roof Special Girder | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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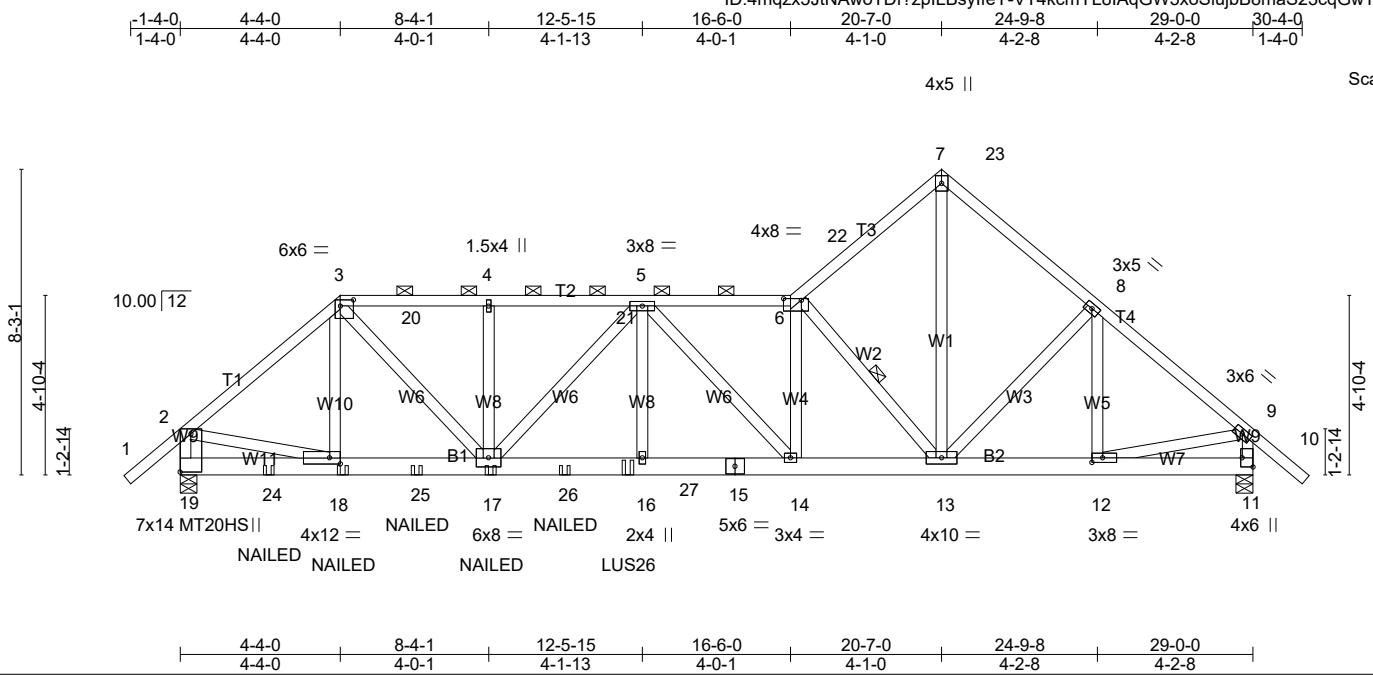


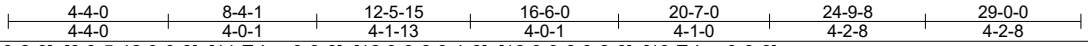


Plate Offsets (X,Y)-- [3:0-4-4,0-2-0], [6:0-5-12,0-0-8], [11:Edge,0-3-8], [12:0-3-8,0-1-8], [18:0-3-8,0-2-0], [19:Edge,0-3-8]

| 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 | 0.73 | Vert(LL) | -0.19 | 16-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.31 | 16-17 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.91 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 221 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

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

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

**REACTIONS.** (lb/size) 19=2311/0-5-8 (min. 0-3-0), 11=1736/0-5-8 (min. 0-2-5)
Max Horz 19=-237(LC 68)
Max Uplift 19=-681(LC 16), 11=-277(LC 16)
Max Grav 19=2523(LC 2), 11=1967(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2794/791, 3-20=-3459/949, 4-20=-3459/949, 4-21=-3459/949, 5-21=-3459/949, 5-6=-3338/830, 6-22=-2053/515, 7-22=-1955/534, 7-23=-1881/540, 8-23=-2075/525, 8-9=-2098/444, 2-19=-2400/723, 9-11=-1900/440
BOT CHORD 19-24=-247/343, 18-24=-247/343, 18-25=-556/2099, 17-25=-556/2099, 17-26=-850/3976, 26-27=-850/3976, 16-27=-850/3976, 15-16=-850/3976, 14-15=-850/3976, 13-14=-657/3360, 12-13=-204/1527
WEBS 3-17=-457/2039, 4-17=-532/120, 5-17=-808/84, 5-16=-131/717, 5-14=-938/325, 6-14=-164/691, 6-13=-2887/733, 7-13=-564/2197, 8-12=-292/114, 2-18=-456/2002, 9-12=-224/1459

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 19=681, 11=277.
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.

Continued on page 2

**NOTES-**

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 LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 12-1-4 from the left end to connect truss(es) EJ6C (1 ply 2x6 SP) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-2=-66, 2-3=-66, 3-6=-66, 6-7=-66, 7-9=-66, 9-10=-66, 11-19=-20
   Concentrated Loads (lb)
      Vert: 18=-148(F) 17=-148(F) 24=-222(F) 25=-148(F) 26=-148(F) 27=-549(F)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | HG6A | Roof Special Girder | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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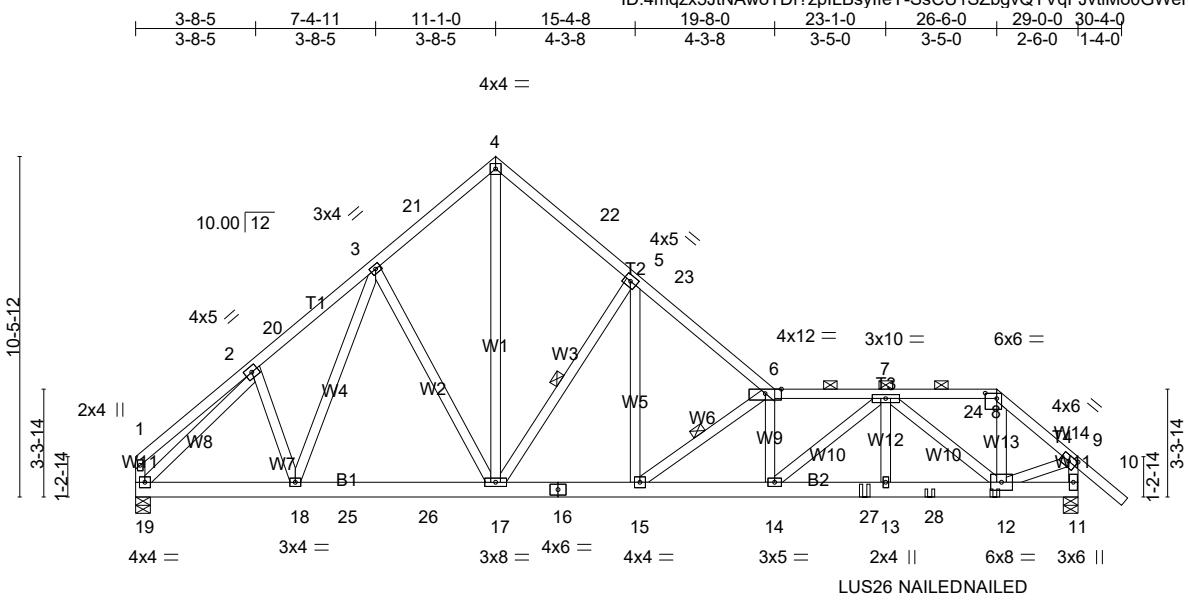


Plate Offsets (X,Y)-- [8:0-4-4,0-2-0], [9:0-2-14,0-2-0]

| **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 | 0.64 | Vert(LL) | -0.17 | 14-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.28 | 14-15 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.85 | Horz(CT) | 0.06 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 229 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-9-7 oc bracing: 14-15
6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 5-17, 6-15

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

**REACTIONS.** (lb/size) 19=1300/0-5-8 (min. 0-1-12), 11=1611/0-5-8 (min. 0-2-3)
Max Horz 19=-281(LC 12)
Max Uplift19=-130(LC 17), 11=-395(LC 17)
Max Grav 19=1508(LC 2), 11=1874(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-296/124, 2-20=-1682/358, 3-20=-1504/373, 3-21=-1479/385, 4-21=-1380/401, 4-22=-1380/396, 5-22=-1502/367, 5-23=-2191/474, 6-23=-2430/455, 6-7=-3537/715, 7-24=-1207/351, 8-24=-1207/351, 8-9=-1713/443, 1-19=-267/106, 9-11=-1831/493
BOT CHORD 18-19=-179/1283, 18-25=-102/1216, 25-26=-102/1216, 17-26=-102/1216, 16-17=-165/1773, 15-16=-165/1773, 14-15=-573/3511, 14-27=-516/2791, 13-27=-516/2791, 13-28=-516/2791, 12-28=-516/2791
WEBS 3-17=-360/219, 4-17=-405/1474, 5-17=-1388/372, 5-15=-235/1262, 6-15=-2109/502, 6-14=-650/198, 7-14=-192/1137, 7-13=-105/393, 7-12=-2057/400, 8-12=-216/864, 2-19=-1577/201, 9-12=-281/1352

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=130, 11=395.

Continued on page 2

**NOTES-**

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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 22-5-4 from the left end to connect truss(es) EJ8A (1 ply 2x6 SP) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-66, 4-6=-66, 6-8=-66, 8-9=-66, 9-10=-66, 11-19=-20
   Concentrated Loads (lb)
      Vert: 12=-41(B) 27=-251(B) 28=-41(B)

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1 | GABLE | 5 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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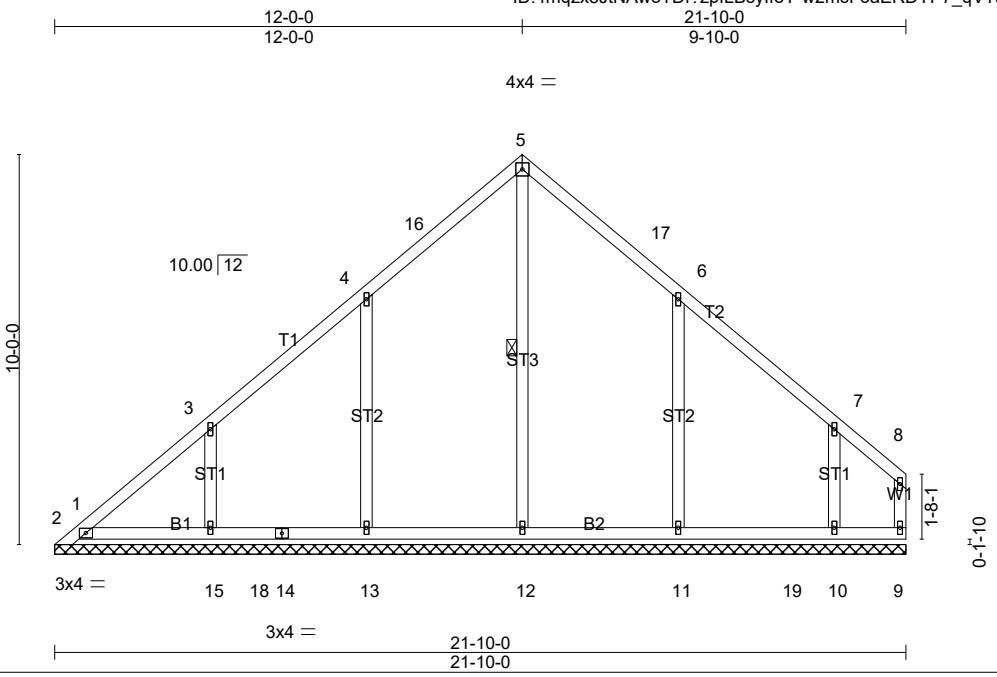


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.27 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 115 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. |
| WEBS | 1 Row at midpt 5-12 |

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

**REACTIONS.** All bearings 21-10-0.
(lb) - Max Horz 1=261(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 9, 12 except 1=-251(LC 30), 2=-105(LC 16), 13=-183(LC 16), 15=-155(LC 16), 11=-182(LC 17), 10=-178(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 9 except 2=338(LC 2), 12=547(LC 33), 13=564(LC 30), 15=416(LC 30), 11=568(LC 31), 10=382(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-333/342, 2-3=-273/264, 4-16=-281/291, 5-16=-253/309, 5-17=-253/309, 6-17=-281/282
WEBS 5-12=-349/142, 4-13=-361/232, 3-15=-306/200, 6-11=-365/233, 7-10=-272/195

**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 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12 except (jt=lb) 1=251, 2=105, 13=183, 15=155, 11=182, 10=178.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1B | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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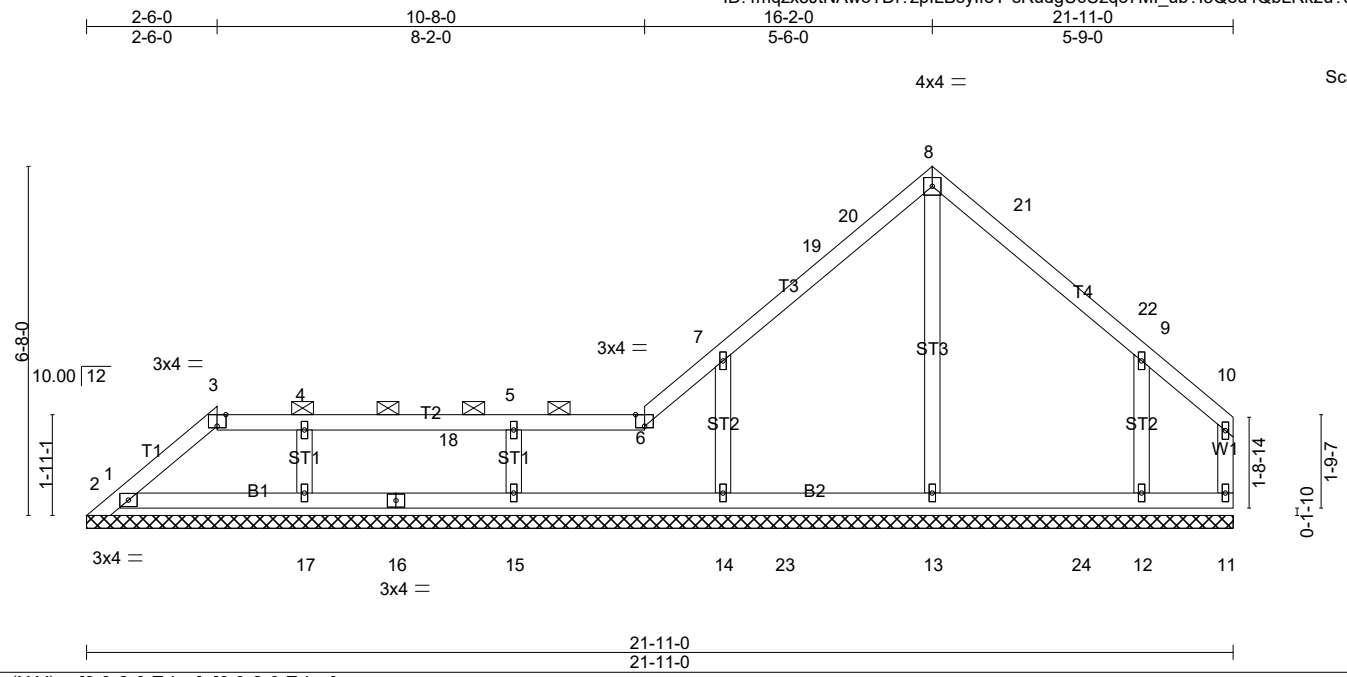


Plate Offsets (X,Y)-- [3:0-2-0,Edge], [6:0-2-0,Edge]

| 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 | 0.41 | 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 | 0.22 | 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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
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.** All bearings 21-11-0.
(lb) - Max Horz 1=179(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 17 except 1=-309(LC 51), 11=-104(LC 52), 2=-207(LC 16), 14=-144(LC 16), 15=-101(LC 12), 12=-199(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 2=540(LC 51), 13=465(LC 30), 14=575(LC 41), 15=573(LC 40), 17=531(LC 40), 12=464(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-275/298
WEBS 8-13=-293/0, 7-14=-496/204, 5-15=-493/149, 4-17=-449/137, 9-12=-359/221

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17 except (jt=lb) 1=309, 11=104, 2=207, 14=144, 15=101, 12=199.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1C | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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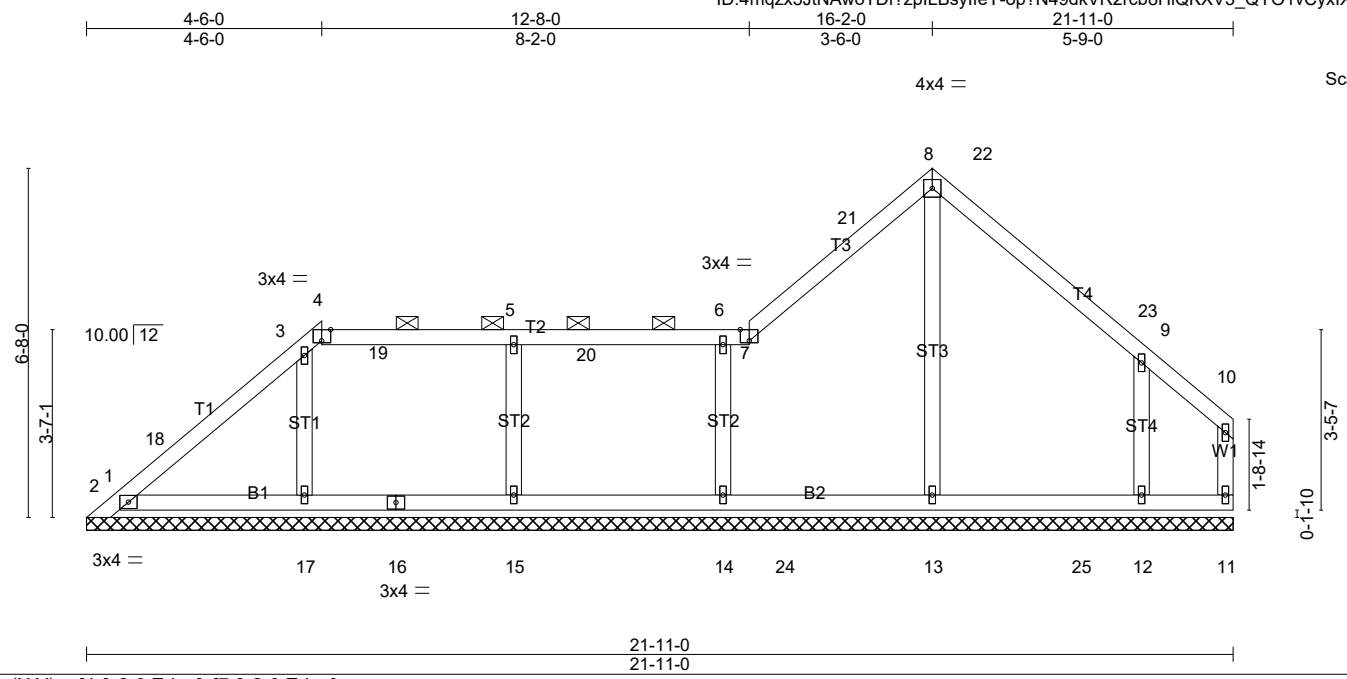


Plate Offsets (X,Y)-- [4:0-2-0,Edge], [7:0-2-0,Edge]

| 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 | 0.44 | 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 | 0.25 | Horz(CT) | -0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 98 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, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
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.** All bearings 21-11-0.
(lb) - Max Horz 1=179(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 11, 15 except 1=-364(LC 51), 2=-165(LC 16), 14=-111(LC 16), 17=-116(LC 16), 12=-187(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 2=608(LC 41), 13=544(LC 51), 14=438(LC 40), 15=629(LC 40), 17=412(LC 51), 12=426(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-239/328
WEBS 8-13=-338/40, 6-14=-359/212, 5-15=-549/119, 3-17=-326/162, 9-12=-356/214

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 15 except (jt=lb) 1=364, 2=165, 14=111, 17=116, 12=187.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1D | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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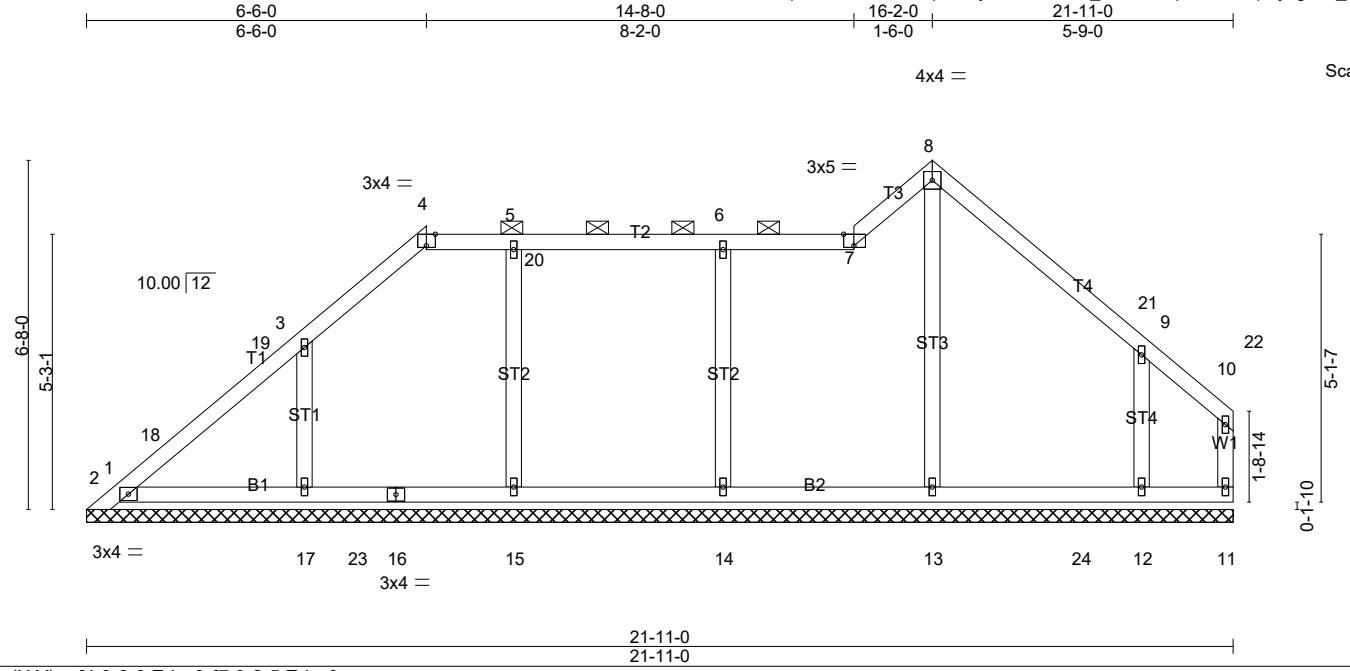


Plate Offsets (X,Y)-- [4:0-2-0,Edge], [7:0-2-5,Edge]

| 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 | 0.39 | 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 | 0.24 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 103 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, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
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.** All bearings 21-11-0.
(lb) - Max Horz 1=179(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 11, 14, 15 except 1=-278(LC 51), 2=-126(LC 16), 17=-142(LC 16), 12=-220(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 2=520(LC 41), 13=455(LC 3), 14=594(LC 48), 15=570(LC 48), 17=560(LC 51), 12=443(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-231/281
WEBS 8-13=-308/30, 6-14=-501/167, 5-15=-460/94, 3-17=-464/188, 9-12=-352/224

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 14, 15 except (jt=lb) 1=278, 2=126, 17=142, 12=220.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1E | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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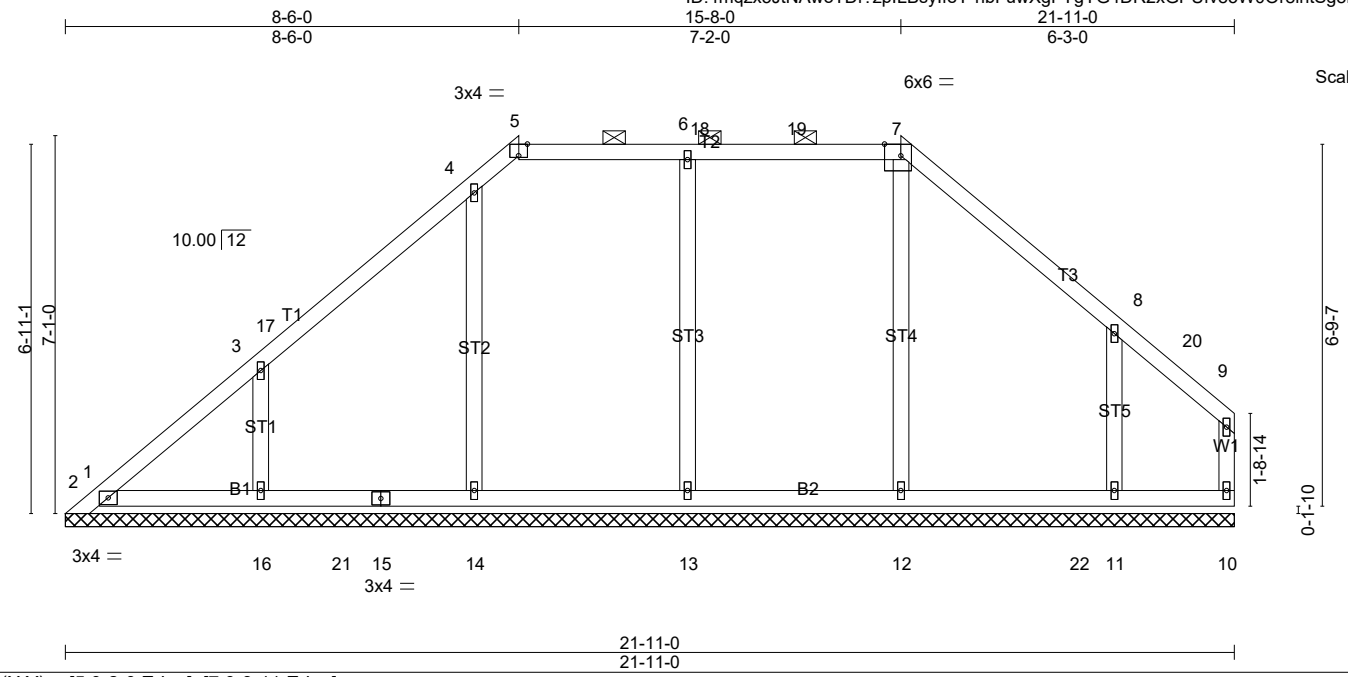


Plate Offsets (X,Y)-- [5:0-2-0,Edge], [7:0-3-11,Edge]

| 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 | 0.44 | 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 | 0.45 | Horz(CT) | -0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | 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
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
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.** All bearings 21-11-0.
(lb) - Max Horz 1=188(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14 except 1=-182(LC 47), 16=-179(LC 16), 11=-188(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 10 except 2=349(LC 39), 12=453(LC 45), 13=631(LC 44), 14=578(LC 47), 16=553(LC 39), 11=580(LC 49)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 7-12=-302/29, 6-13=-549/122, 4-14=-396/113, 3-16=-475/222, 8-11=-480/216

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14 except (jt=lb) 1=182, 16=179, 11=188.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1F | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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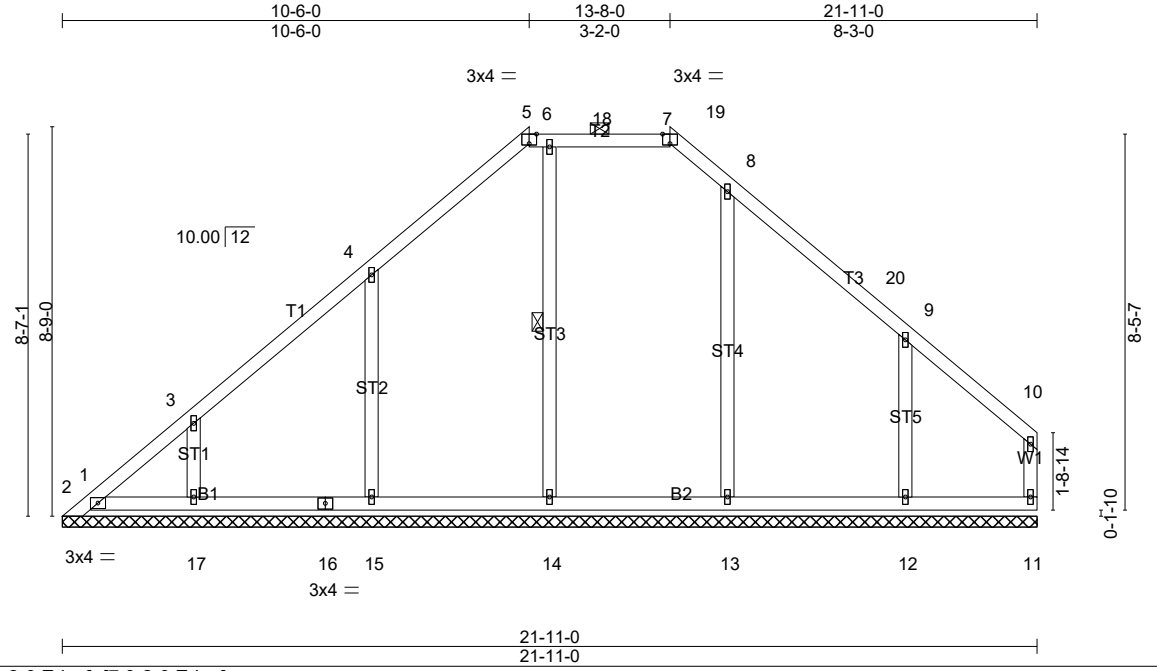


Plate Offsets (X,Y)-- [5:0-2-0,Edge], [7:0-2-0,Edge]

| 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 | 0.39 | 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 | 0.39 | Horz(CT) | -0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 113 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, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-14

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

**REACTIONS.** All bearings 21-11-0.
(lb) - Max Horz 1=229(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 13 except 1=-144(LC 14), 15=-174(LC 16), 17=-146(LC 16), 12=-217(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 2 except 14=513(LC 52), 15=643(LC 47), 17=489(LC 39), 13=524(LC 45), 12=613(LC 49)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-278/260, 3-4=-266/242
WEBS 6-14=-309/117, 4-15=-530/223, 3-17=-418/187, 8-13=-396/54, 9-12=-479/244

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 13 except (jt=lb) 1=144, 15=174, 17=146, 12=217.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1F | GABLE | 1 | 1 | Job Reference (optional) |



**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB1H1J | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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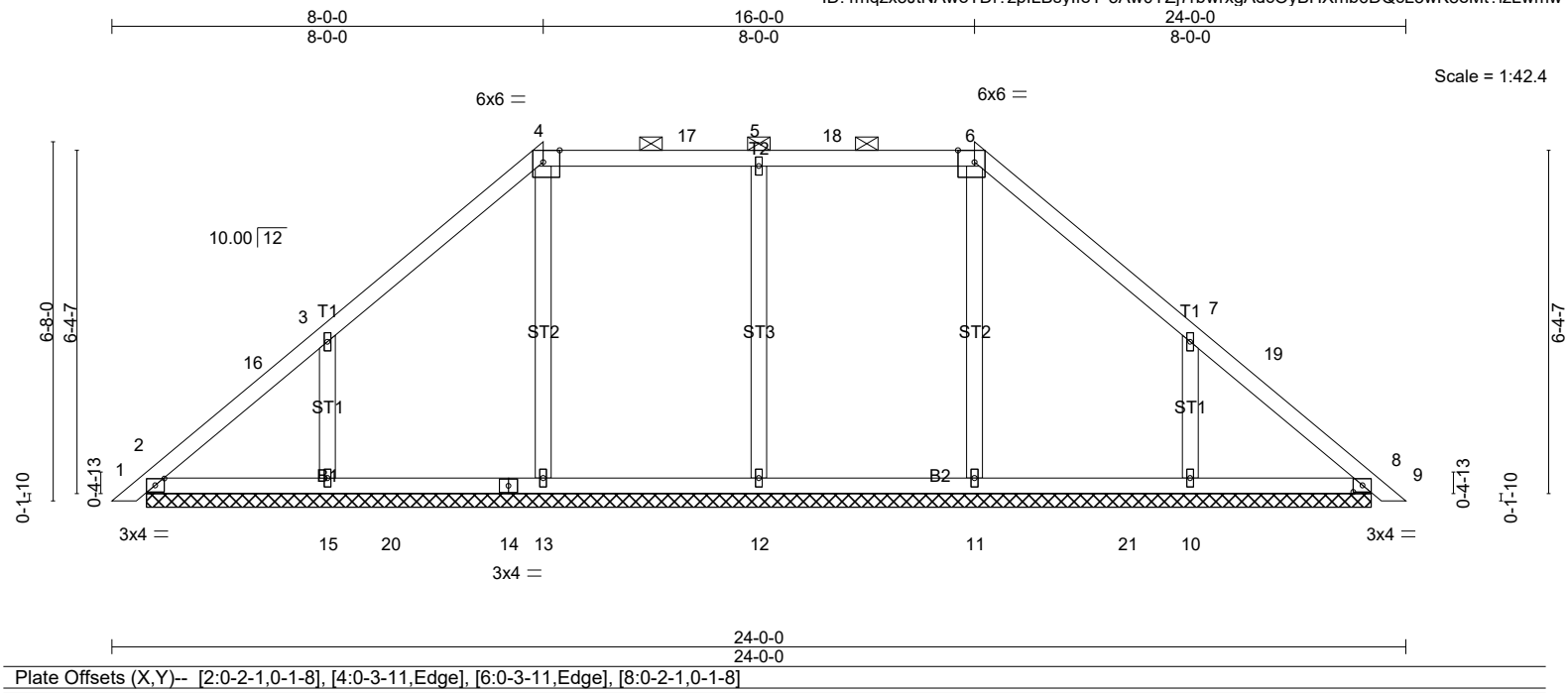


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-3-11,Edge], [6:0-3-11,Edge], [8:0-2-1,0-1-8]

| **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 | 0.48 | Vert(LL) | 0.00 | 9 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | 0.00 | 9 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.42 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 110 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, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 22-8-9.
(lb) - Max Horz 2=-159(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 13 except 15=-185(LC 16), 10=-184(LC 17)
Max Grav All reactions 250 lb or less at joint(s) except 2=269(LC 39), 12=661(LC 38), 13=428(LC 53), 15=623(LC 39), 11=408(LC 57), 10=623(LC 39), 8=269(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=-581/127, 4-13=-255/77, 3-15=-529/226, 6-11=-255/37, 7-10=-529/224

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 13 except (jt=lb) 15=185, 10=184.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB2 | GABLE | 3 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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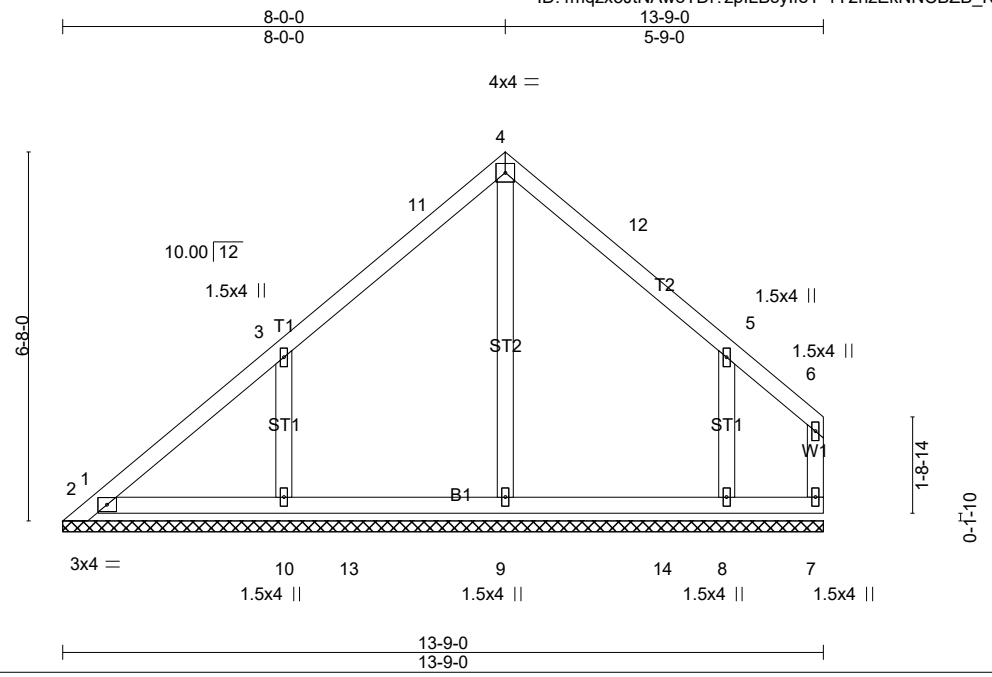


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | -0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 65 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.** All bearings 13-9-0.
(lb) - Max Horz 1=179(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-187(LC 30), 2=-103(LC 16), 10=-177(LC 16), 8=-177(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=308(LC 2), 9=510(LC 30), 10=449(LC 30), 8=419(LC 31)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-303/43, 3-10=-341/221, 5-8=-314/211

**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) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=187, 2=103, 10=177, 8=177.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB6 | Piggyback | 7 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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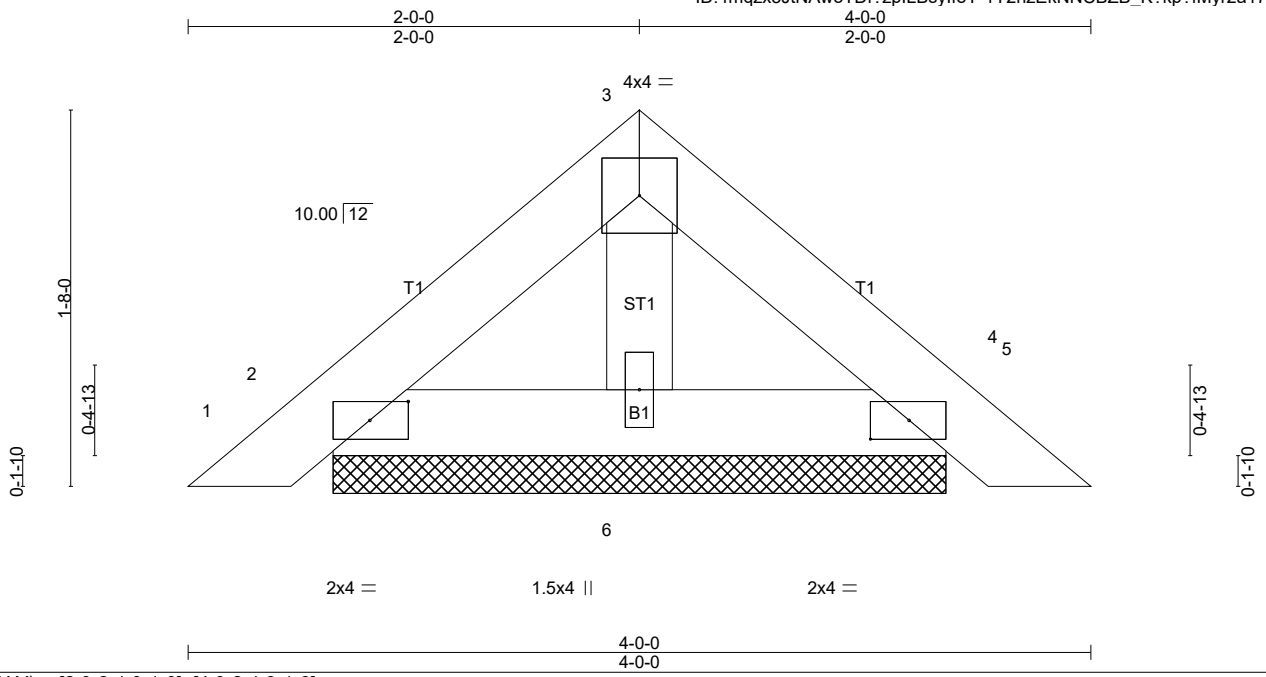


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

| **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 | 0.03 | Vert(LL) | 0.00 | 4 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | 0.00 | 4 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 13 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 4-0-0 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=98/2-8-9 (min. 0-1-8), 4=98/2-8-9 (min. 0-1-8), 6=92/2-8-9 (min. 0-1-8)
Max Horz 2=-37(LC 14)
Max Uplift2=-24(LC 16), 4=-28(LC 17)
Max Grav 2=117(LC 2), 4=117(LC 2), 6=105(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PB9 | Piggyback | 7 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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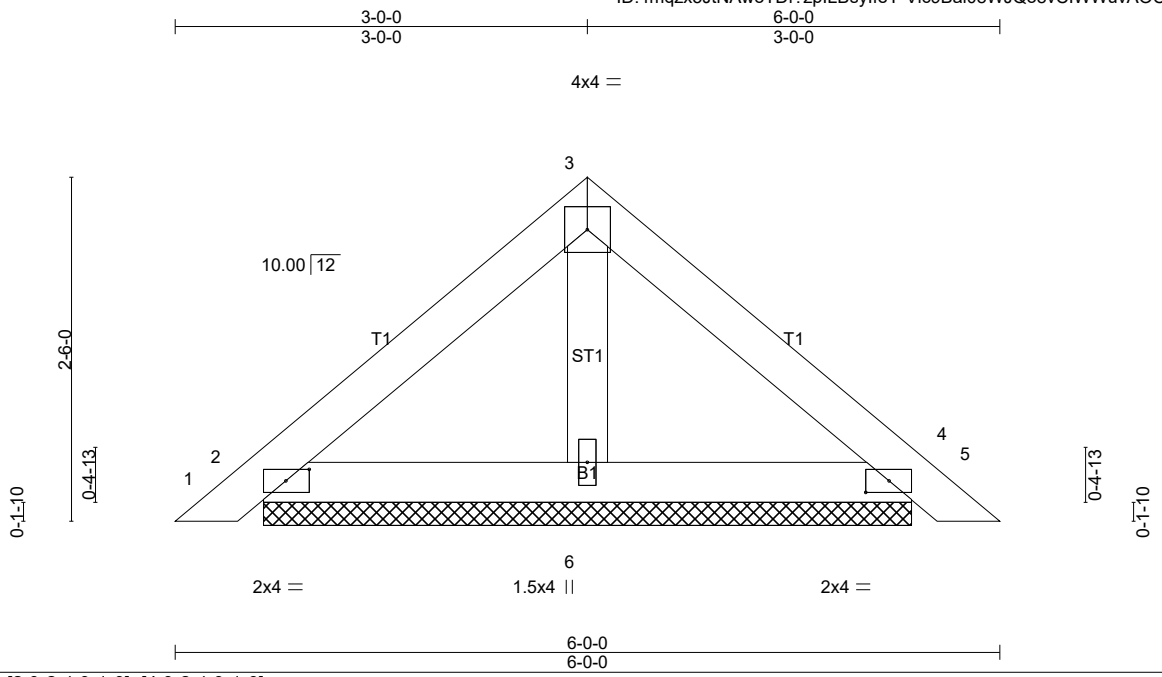


Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

| 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 | 0.12 | Vert(LL) | 0.00 | 5 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 21 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=147/4-8-9 (min. 0-1-8), 4=147/4-8-9 (min. 0-1-8), 6=167/4-8-9 (min. 0-1-8)
Max Horz 2=-57(LC 14)
Max Uplift 2=-33(LC 16), 4=-40(LC 17)
Max Grav 2=174(LC 2), 4=174(LC 2), 6=189(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 4.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH1E | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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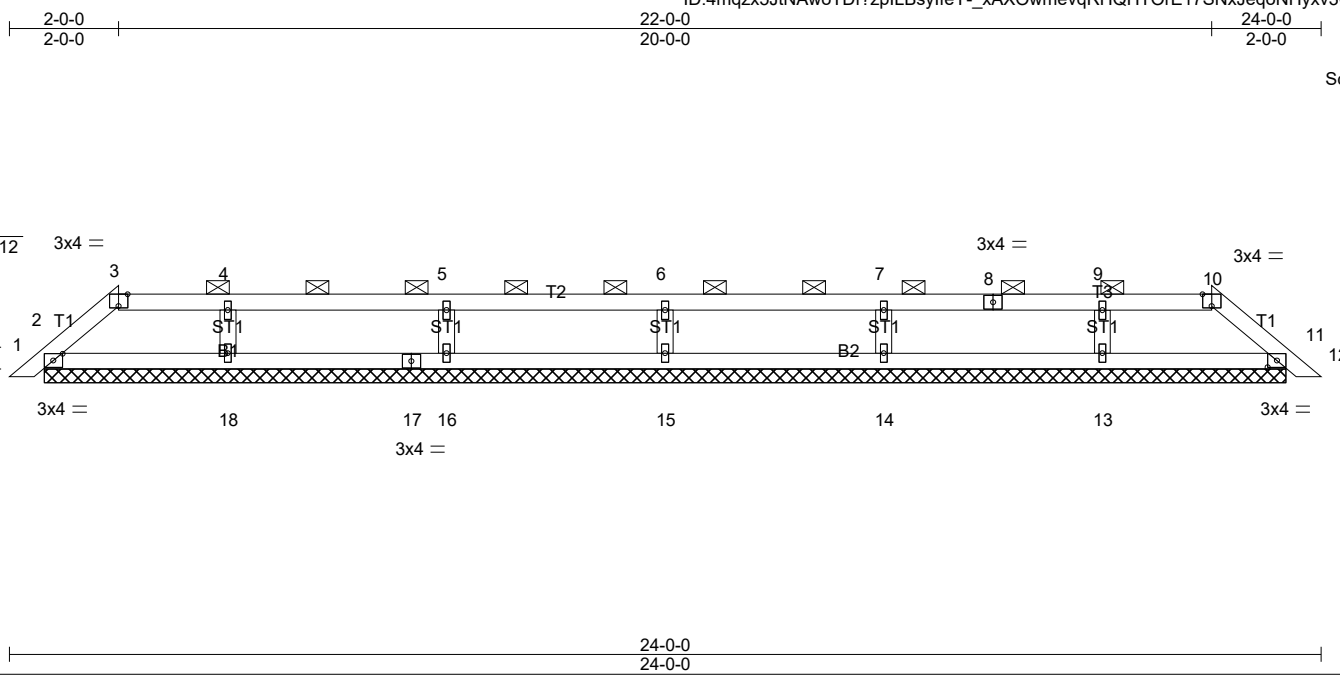


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [3:0-2-0,Edge], [10:0-2-0,Edge], [11:0-2-1,0-1-8]

| 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 | 0.38 | Vert(LL) | 0.00 | 12 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | 0.00 | 12 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 77 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, except 2-0-0 oc purlins (6-0-0 max.): 3-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 22-8-9.
(lb) - Max Horz 2=-35(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 18, 14, 13, 11
Max Grav All reactions 250 lb or less at joint(s) except 2=252(LC 39), 15=568(LC 38), 16=588(LC 38), 18=514(LC 38), 14=588(LC 38), 13=514(LC 38), 11=252(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-15=-487/109, 5-16=-508/114, 4-18=-432/99, 7-14=-508/114, 9-13=-432/98

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 15, 16, 18, 14, 13, 11.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH1F | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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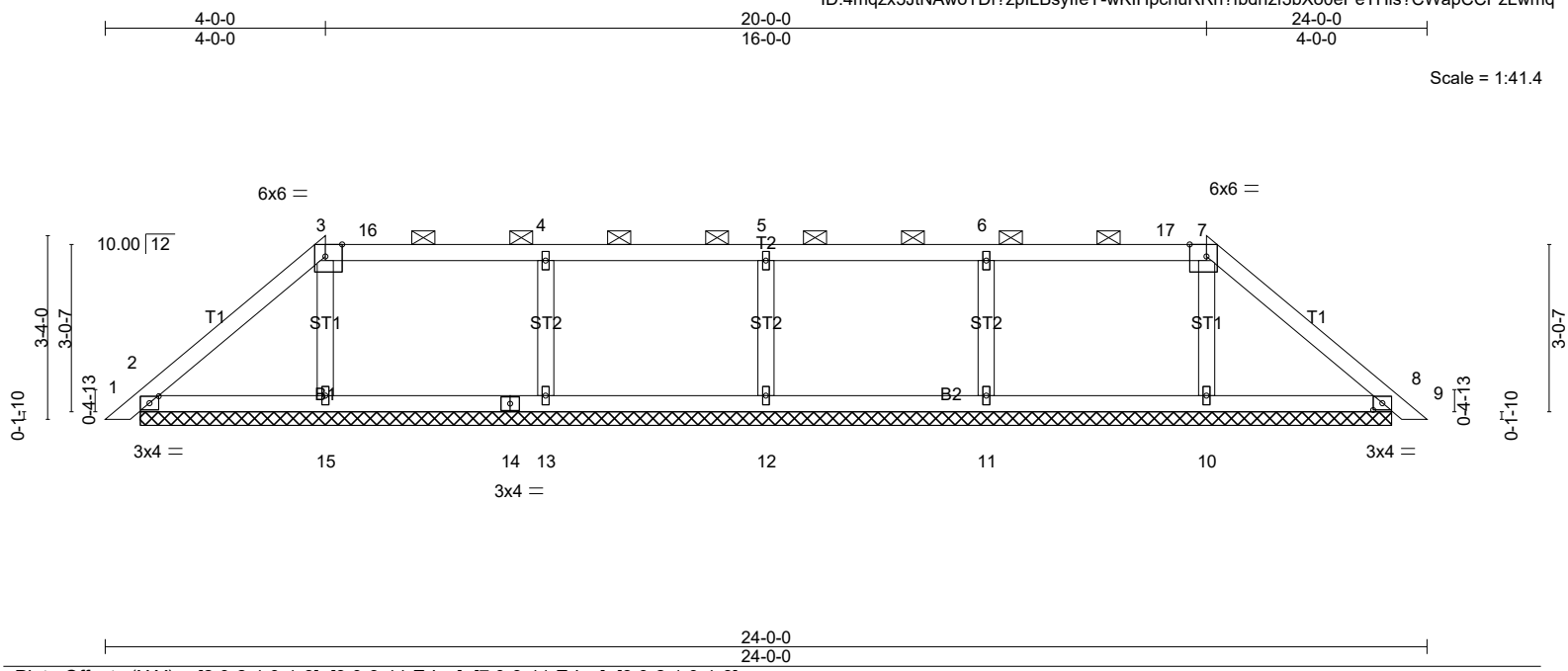


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [3:0-3-11,Edge], [7:0-3-11,Edge], [8:0-2-1,0-1-8]

| 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 | 0.43 | Vert(LL) | 0.00 | 9 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | 0.01 | 9 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 91 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, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 22-8-9.
(lb) - Max Horz 2=76(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 13, 15, 11, 10, 8
Max Grav All reactions 250 lb or less at joint(s) except 2=287(LC 39), 12=552(LC 38), 13=621(LC 38), 15=361(LC 39), 11=621(LC 38), 10=361(LC 39), 8=287(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=-471/108, 4-13=-542/120, 3-15=-265/99, 6-11=-542/120, 7-10=-265/82

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 12, 13, 15, 11, 10, 8.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH1H | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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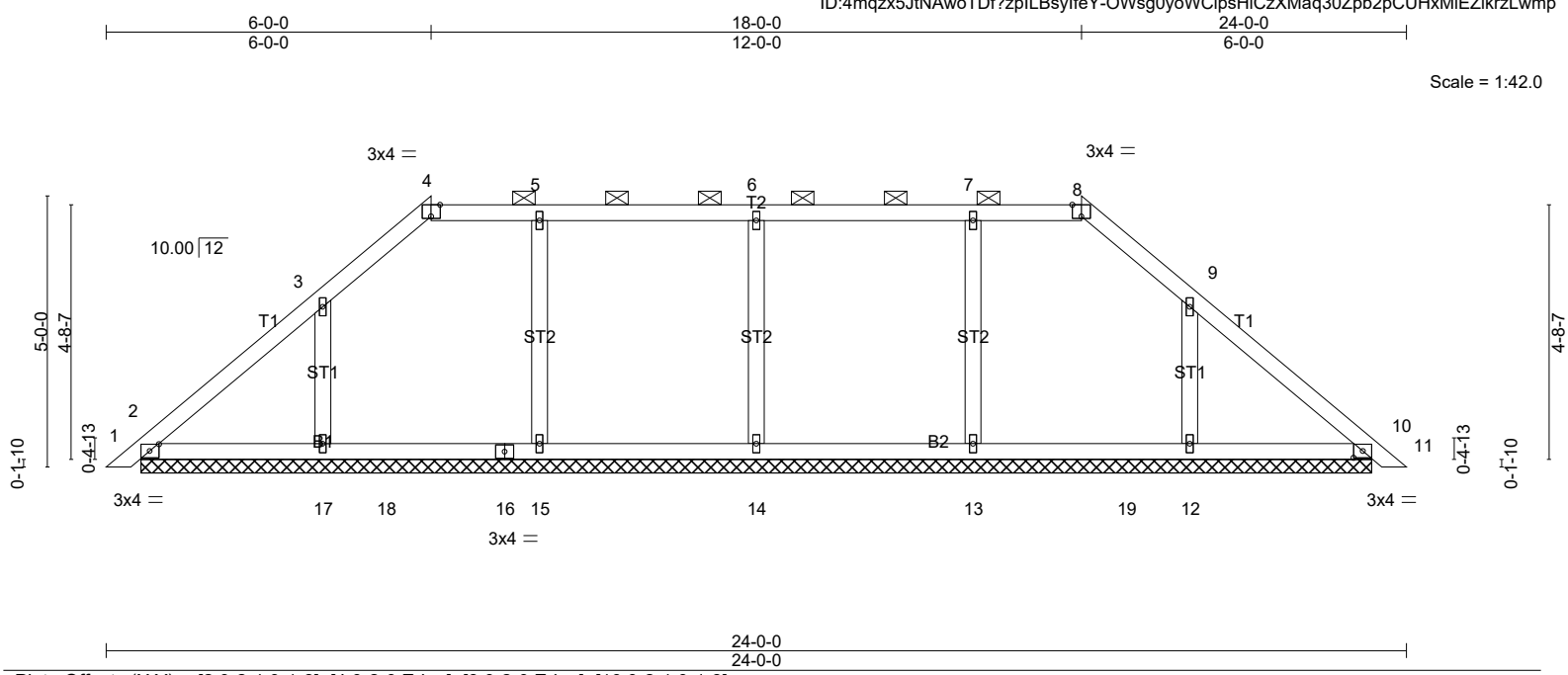


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-0,Edge], [8:0-2-0,Edge], [10:0-2-1,0-1-8]

| 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 | 0.40 | Vert(LL) | 0.00 | 11 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | 0.00 | 11 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 101 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, except 2-0-0 oc purlins (6-0-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 22-8-9.
(lb) - Max Horz 2=-117(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 13 except 17=-137(LC 16), 12=-134(LC 17)
Max Grav All reactions 250 lb or less at joint(s) except 2=324(LC 39), 14=611(LC 44), 15=538(LC 44), 17=514(LC 47), 13=538(LC 44), 12=510(LC 49), 10=324(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-14=-522/121, 5-15=-425/98, 3-17=-408/175, 7-13=-425/94, 9-12=-408/171

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 13 except (jt=lb) 17=137, 12=134.
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.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH2D | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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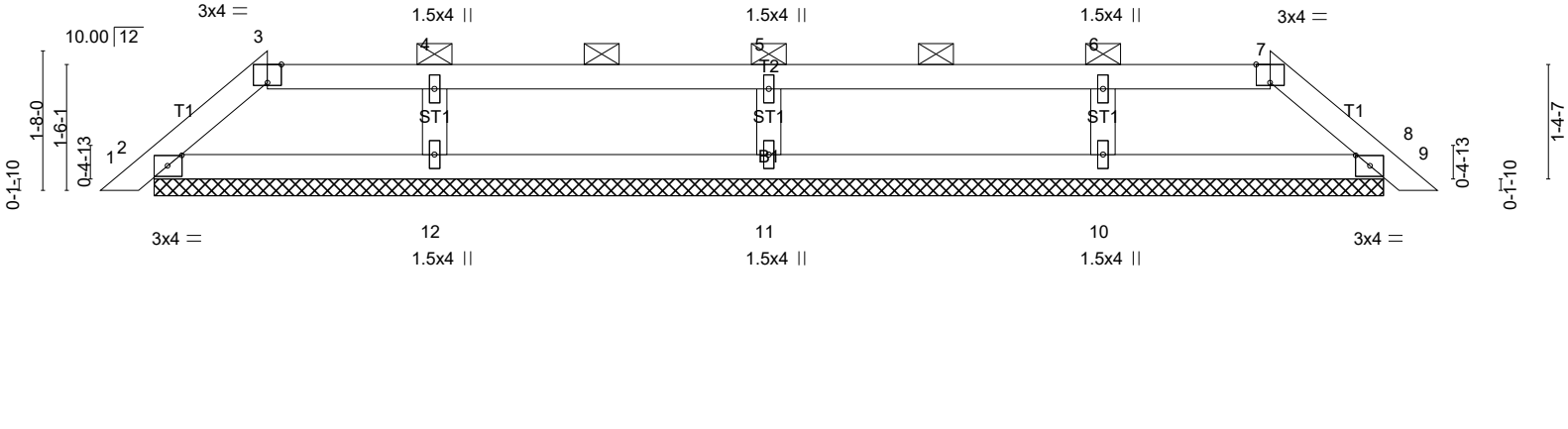


16-0-0
16-0-0

Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [3:0-2-0,Edge], [7:0-2-0,Edge], [8:0-2-1,0-1-8]

| **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 | 0.40 | Vert(LL) | 0.00 | 9 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | 0.00 | 9 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 51 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, except 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 14-8-9.
(lb) - Max Horz 2=-35(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 11, 12, 10
Max Grav All reactions 250 lb or less at joint(s) except 2=255(LC 39), 8=255(LC 39), 11=602(LC 38), 12=506(LC 38), 10=506(LC 38)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-11=-522/130, 4-12=-425/105, 6-10=-425/105

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 8, 11, 12, 10.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH2E | Piggyback | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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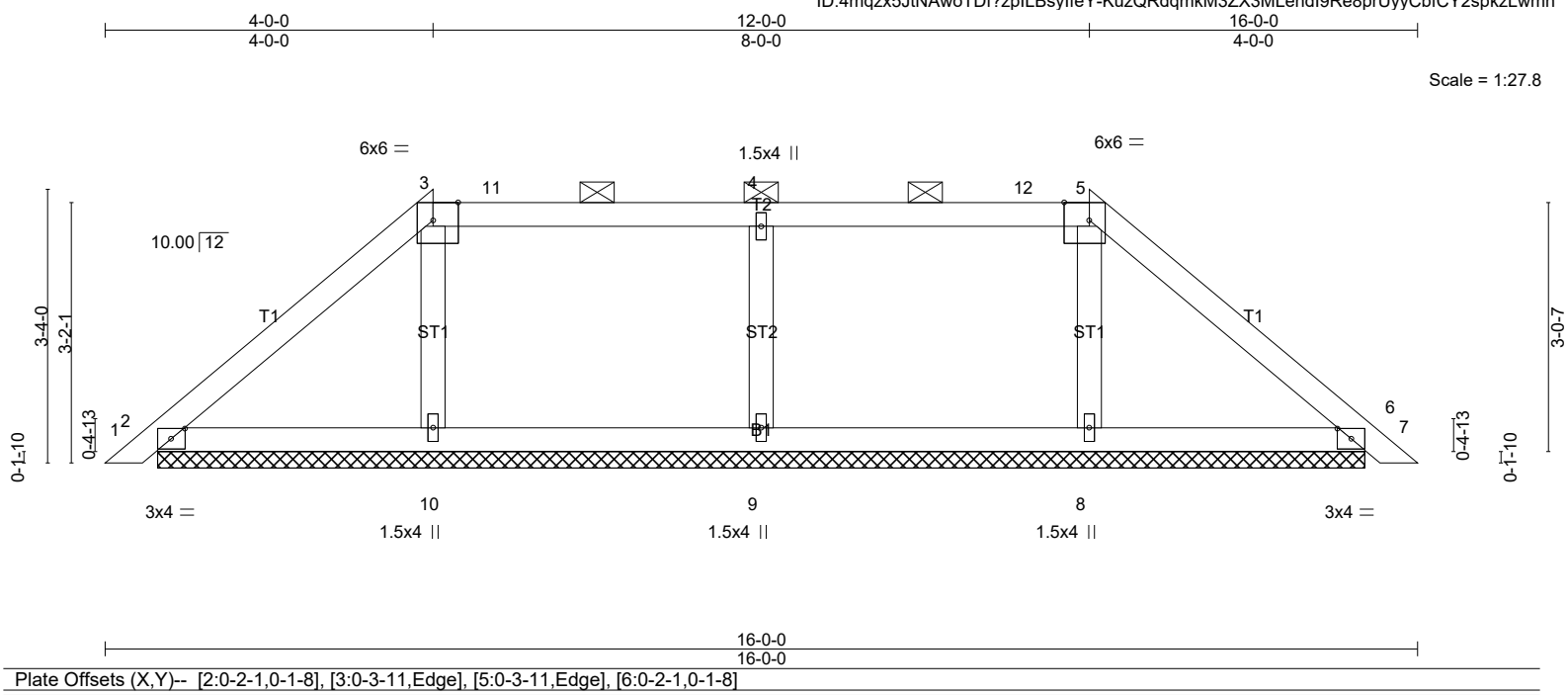


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [3:0-3-11,Edge], [5:0-3-11,Edge], [6:0-2-1,0-1-8]

| **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 | 0.48 | Vert(LL) | 0.00 | 7 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | 0.01 | 7 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 60 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, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 14-8-9.
(lb) - Max Horz 2=-76(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) except 2=294(LC 39), 6=294(LC 39), 9=659(LC 38), 10=356(LC 39), 8=356(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-580/135, 3-10=-253/99, 5-8=-253/84

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 2, 6, 9, 10, 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.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBH2F | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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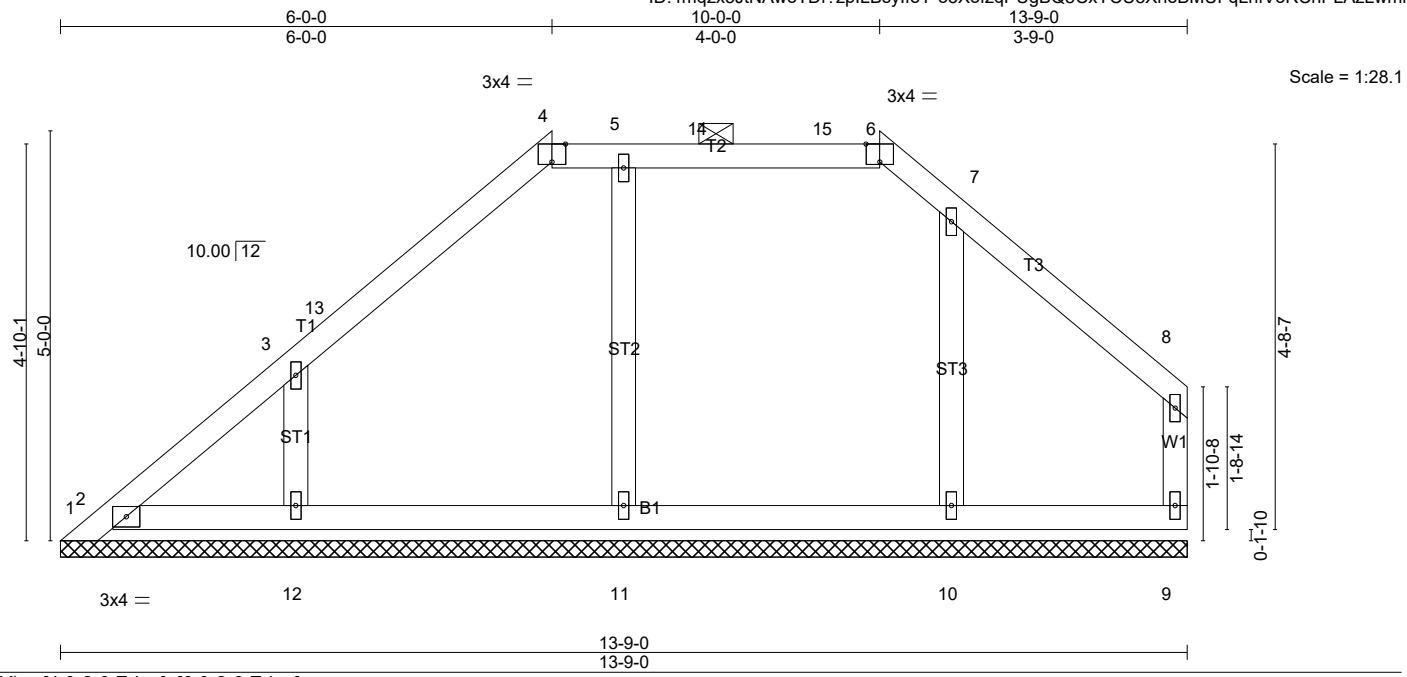


Plate Offsets (X,Y)-- [4:0-2-0,Edge], [6:0-2-0,Edge]

| 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 | 0.29 | 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 | 0.16 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 61 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, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 13-9-0.
(lb) - Max Horz 1=136(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 11, 10 except 12=-134(LC 16)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2 except 11=477(LC 38), 12=495(LC 39), 10=377(LC 57)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-11=-392/125, 3-12=-426/174, 7-10=-289/89

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 2, 11, 10 except (jt=lb) 12=134.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | PBHIK | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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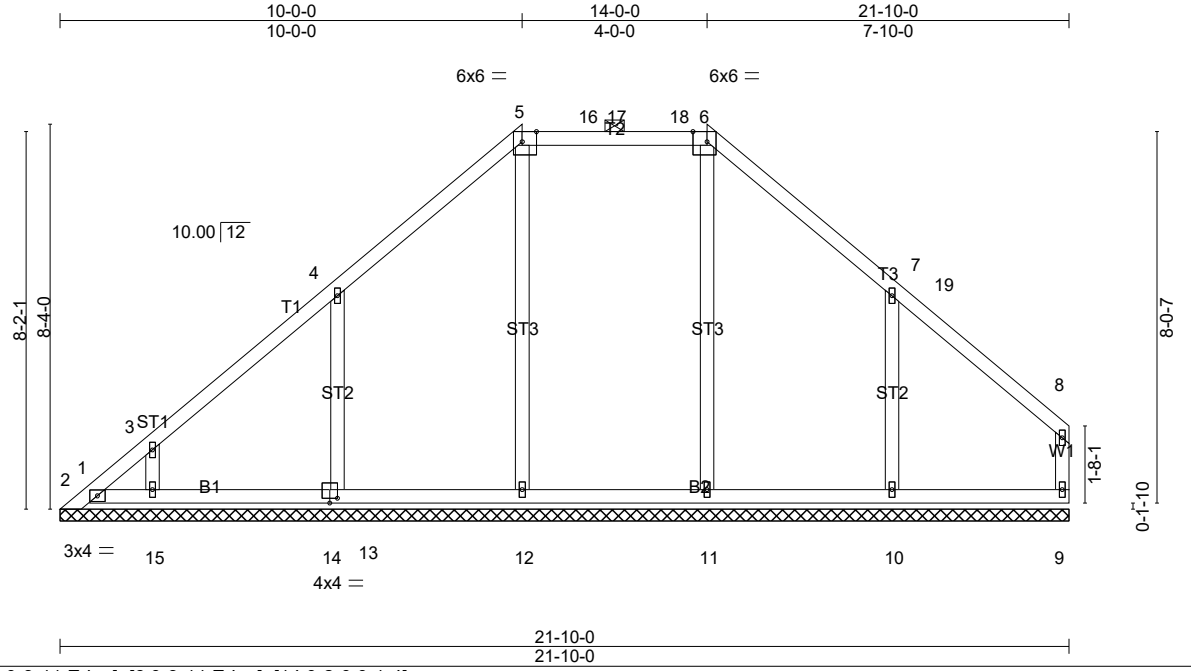


Plate Offsets (X,Y)-- [5:0-3-11,Edge], [6:0-3-11,Edge], [14:0-2-0,0-1-4]

| 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 | 0.47 | 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 | 0.35 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 111 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, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 21-10-0.
(lb) - Max Horz 1=218(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 12, 11 except 1=-115(LC 12), 13=-185(LC 16), 15=-145(LC 16), 10=-192(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 2 except 9=257(LC 39), 12=503(LC 52), 13=663(LC 47), 15=476(LC 39), 11=455(LC 50), 10=664(LC 49)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-264/229, 2-3=-268/246, 3-4=-310/234, 4-5=-299/273, 5-16=-229/253, 16-17=-229/253, 17-18=-229/253, 6-18=-229/253, 6-7=-269/273
WEBS 5-12=-301/126, 4-13=-551/234, 3-15=-411/187, 6-11=-302/48, 7-10=-551/238

**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, Lu=50-0-0
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 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, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 12, 11 except (jt=lb) 1=115, 13=185, 15=145, 10=192.
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.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T1 | Piggyback Base | 3 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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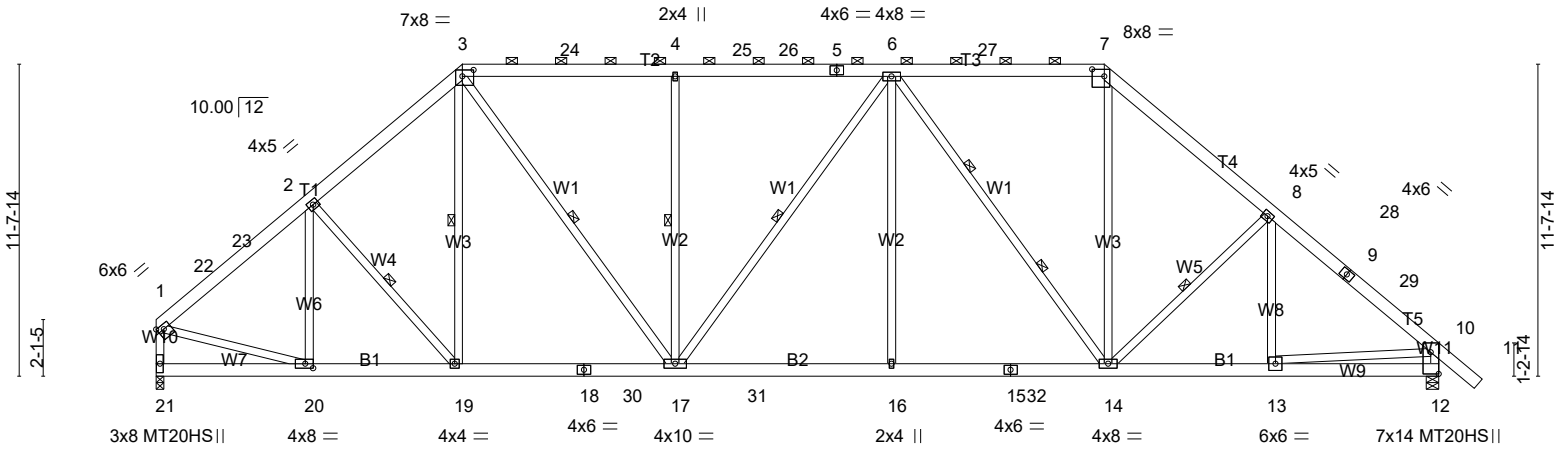
| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 | 49-3-8 |
|---|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 | 1-4-0 |

Scale = 1:86.1




| 5-8-12 | 11-5-8 | 19-4-15 | 27-6-1 | 35-5-8 | 41-8-8 | 47-11-8 |
|---|---|---|---|---|---|---|
| 5-8-12 | 5-8-12 | 7-11-7 | 8-1-3 | 7-11-7 | 6-3-0 | 6-3-0 |

Plate Offsets (X,Y)-- [1:0-2-12,0-2-0], [3:0-5-0,0-3-0], [7:0-5-8,0-3-4], [12:Edge,0-3-8], [20:0-3-8,0-2-0]

| **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 | 0.86 | Vert(LL) | -0.17 | 16-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.66 | Vert(CT) | -0.28 | 16-17 | >999 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 430 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-11 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-19, 3-19, 3-17, 4-17, 6-17, 8-14
2 Rows at 1/3 pts 6-14

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

**REACTIONS.** (lb/size) 21=2053/0-3-8 (min. 0-2-13), 12=2164/0-5-8 (min. 0-2-15)
Max Horz 21=-320(LC 12)
Max Uplift 21=-225(LC 16), 12=-267(LC 17)
Max Grav 21=2381(LC 2), 12=2516(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-2576/378, 22-23=-2449/388, 2-23=-2448/413, 2-3=-2682/536, 3-24=-2827/570, 4-24=-2827/570, 4-25=-2827/570, 25-26=-2827/570, 5-26=-2827/570, 5-6=-2827/570, 6-27=-2109/486, 7-27=-2109/486, 7-8=-2810/548, 8-28=-2776/455, 9-28=-2807/434, 9-29=-2812/430, 10-29=-2975/425, 1-21=-2314/362, 10-12=-2433/435
BOT CHORD 20-21=-266/332, 19-20=-290/1881, 18-19=-249/2019, 18-30=-249/2019, 17-30=-249/2019, 17-31=-241/2860, 16-31=-241/2860, 15-16=-241/2860, 15-32=-241/2860, 14-32=-241/2860, 13-14=-178/2160, 12-13=-58/364
WEBS 2-20=-465/139, 2-19=-308/341, 3-19=-61/499, 3-17=-243/1395, 4-17=-930/230, 6-16=0/463, 6-14=-1282/249, 7-14=-170/1244, 8-14=-520/220, 1-20=-219/1882, 10-13=-147/1825

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=225 , 12=267.

Continued on page 2

**NOTES-**

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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T1A | Piggyback Base | 7 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:38 2022 Page 1
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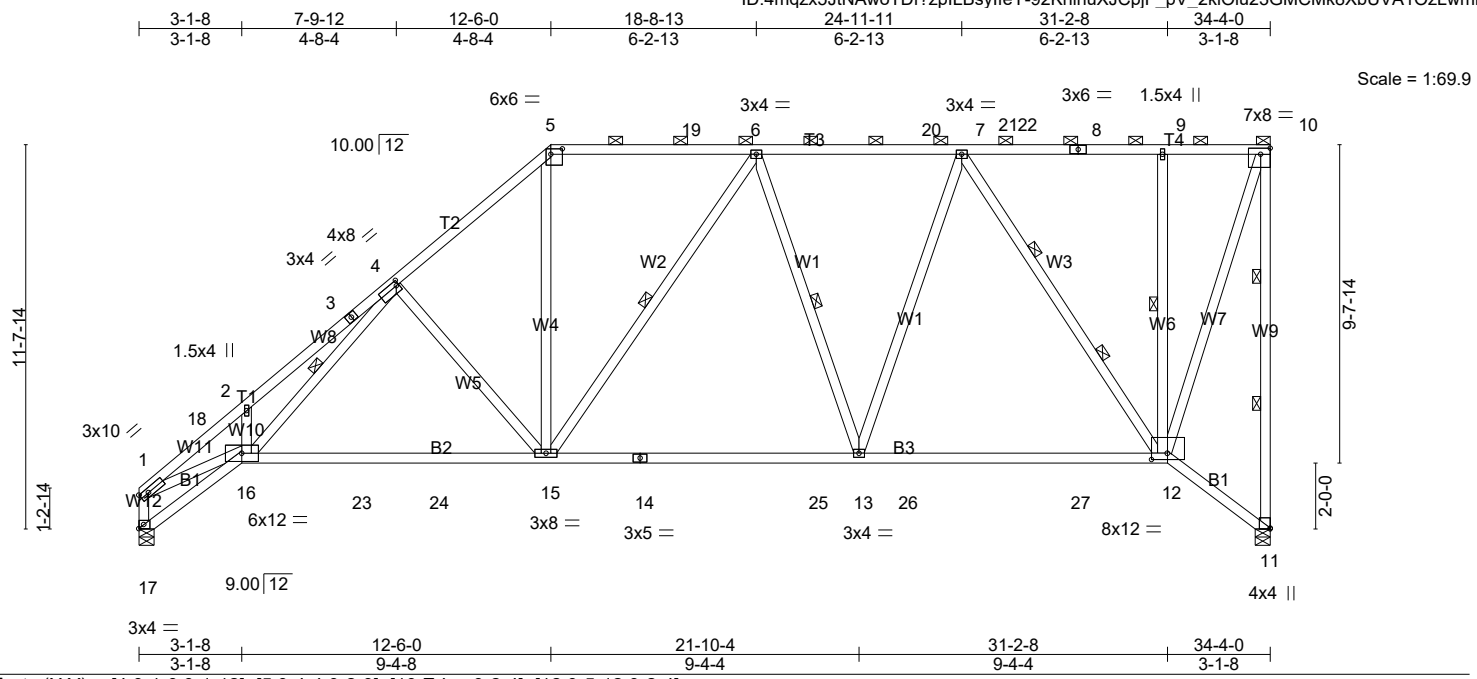


Plate Offsets (X,Y)-- [4:0-1-0,0-1-12], [5:0-4-4,0-2-0], [12:0-5-12,0-2-4], [10:Edge,0-2-4]

| 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 | 0.94 | Vert(LL) | -0.28 | 12-13 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(CT) | -0.54 | 15-16 | >764 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.33 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 258 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T3,T4: 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* W9: 2x4 SP DSS, W11: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 6-10-9 oc bracing.
WEBS 1 Row at midpt 4-16, 6-15, 6-13, 9-12
2 Rows at 1/3 pts 10-11, 7-12

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

**REACTIONS.** (lb/size) 11=1467/0-5-8 (min. 0-1-15), 17=1467/0-5-8 (min. 0-1-8)
Max Horz 17=434(LC 13)
Max Uplift 11=-286(LC 13), 17=-183(LC 16)
Max Grav 11=2197(LC 34), 17=1708(LC 35)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-4098/1300, 2-18=-4010/1312, 2-3=-4163/1450, 3-4=-3918/1472, 4-5=-2134/422, 5-19=-1584/371, 6-19=-1584/371, 6-20=-1740/348, 20-21=-1740/348, 21-22=-1740/348, 7-22=-1740/348, 7-8=-672/217, 8-9=-672/217, 9-10=-662/216, 10-11=-2180/403, 1-17=-1713/577
BOT CHORD 16-17=-759/773, 16-23=-815/1896, 23-24=-815/1896, 15-24=-815/1896, 14-15=-531/1871, 14-25=-531/1871, 13-25=-531/1871, 13-26=-418/1542, 26-27=-418/1542, 12-27=-418/1542
WEBS 2-16=-384/211, 4-16=-1099/2171, 4-15=-858/388, 5-15=-135/965, 6-15=-510/247, 6-13=-416/243, 7-13=-116/728, 7-12=-1569/336, 9-12=-645/183, 10-12=-437/2178, 1-16=-953/3174

**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, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 11, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=286, 17=183.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T1A | Piggyback Base | 7 | 1 | Job Reference (optional) |



**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T1B | Piggyback Base | 5 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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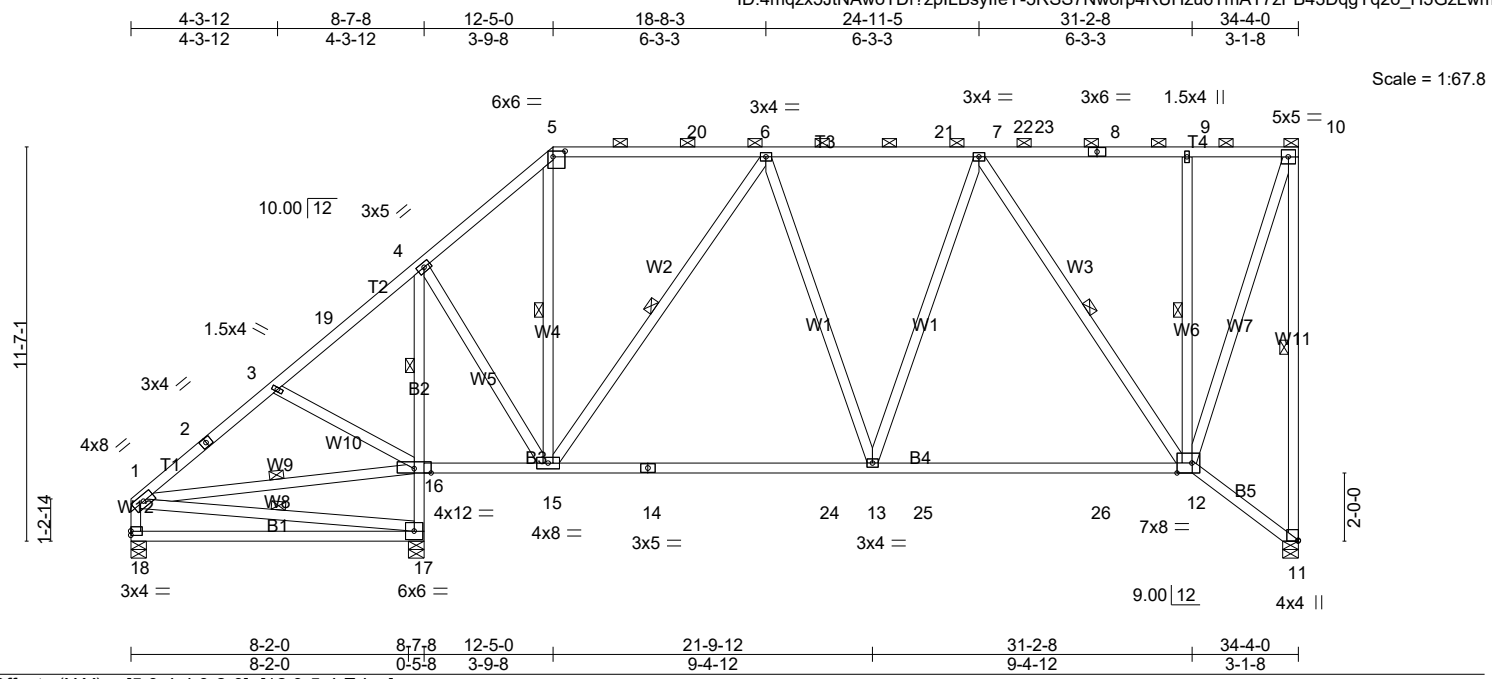


Plate Offsets (X,Y)-- [5:0-4-4,0-2-0], [12:0-5-4,Edge]

| 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 | 0.84 | Vert(LL) | -0.23 | 12-13 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.41 | 12-13 | >755 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 281 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T3: 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.2 *Except* B2: 2x4 SP No.3, B4: 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 *Except* W11: 2x4 SP DSS |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-12 max.): 5-10. |
| BOT CHORD | Rigid ceiling directly applied or 3-11-15 oc bracing. Except: 1 Row at midpt 4-16 |
| WEBS | 1 Row at midpt 10-11, 5-15, 6-15, 7-12, 9-12, 1-17, 1-16 |

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

**REACTIONS.** (lb/size) 11=1099/0-5-8 (min. 0-1-9), 18=331/0-5-8 (min. 0-1-8), 17=1504/0-5-8 (min. 0-2-1)
Max Horz 18=430(LC 15)
Max Uplift 11=-205(LC 13), 18=-17(LC 12), 17=-317(LC 13)
Max Grav 11=1767(LC 34), 18=521(LC 41), 17=1756(LC 34)

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

| | |
|---|---|
| TOP CHORD | 1-2=-563/73, 2-3=-394/103, 3-19=-263/209, 4-19=-235/258, 4-5=-774/213, 5-20=-571/208, 6-20=-571/208, 6-21=-1186/260, 21-22=-1186/260, 22-23=-1186/260, 7-23=-1186/260, 7-8=-539/195, 8-9=-539/195, 9-10=-529/194, 10-11=-1750/274, 1-18=-436/83 |
| BOT CHORD | 17-18=-535/632, 16-17=-1667/496, 4-16=-1585/360, 14-15=-317/1169, 14-24=-317/1169, 13-24=-317/1169, 13-25=-289/1130, 25-26=-289/1130, 12-26=-289/1130 |
| WEBS | 3-16=-424/199, 4-15=-113/1142, 6-15=-1054/169, 7-13=0/294, 7-12=-1058/177, 9-12=-647/182, 10-12=-301/1727, 1-17=-587/551, 1-16=-378/393 |

**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, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 11=205, 17=317.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T3 | Scissor | 5 | 1 | Job Reference (optional) |

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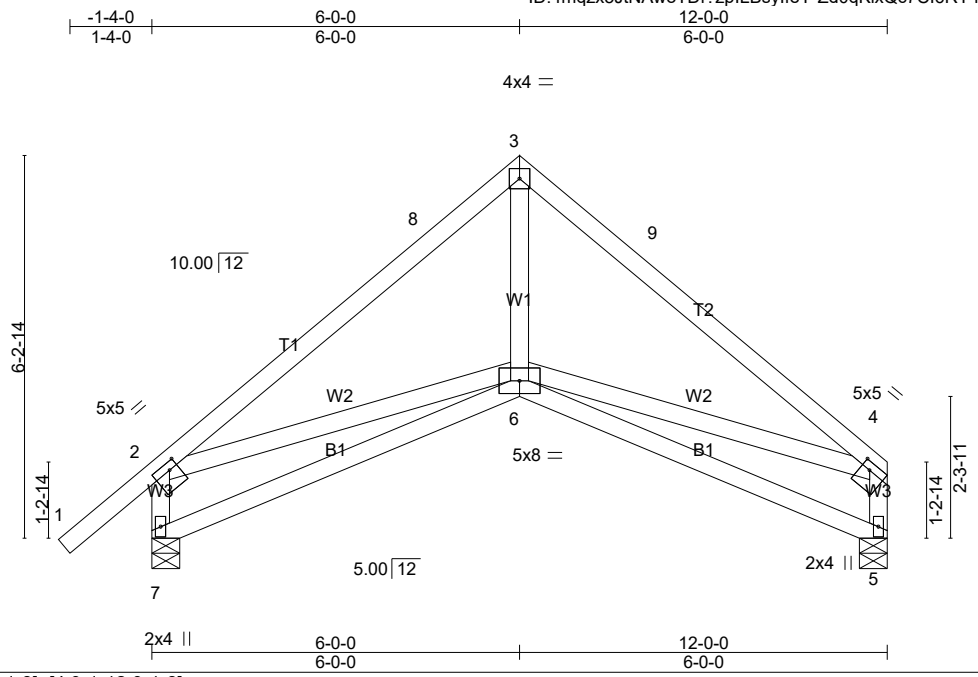


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-1-12,0-1-8]

| **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 | 0.68 | Vert(LL) | -0.04 | 5-6 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.09 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 71 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 4-4-5 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=616/0-5-8 (min. 0-1-8), 5=498/0-5-8 (min. 0-1-8)
Max Horz 7=184(LC 13)
Max Uplift 7=-72(LC 16), 5=-39(LC 17)
Max Grav 7=720(LC 2), 5=577(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-821/101, 3-8=-589/123, 3-9=-602/116, 4-9=-810/93, 2-7=-724/217, 4-5=-580/151
BOT CHORD 6-7=-238/337
WEBS 3-6=0/419, 2-6=0/366, 4-6=-68/422

**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) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T3A | Scissor | 3 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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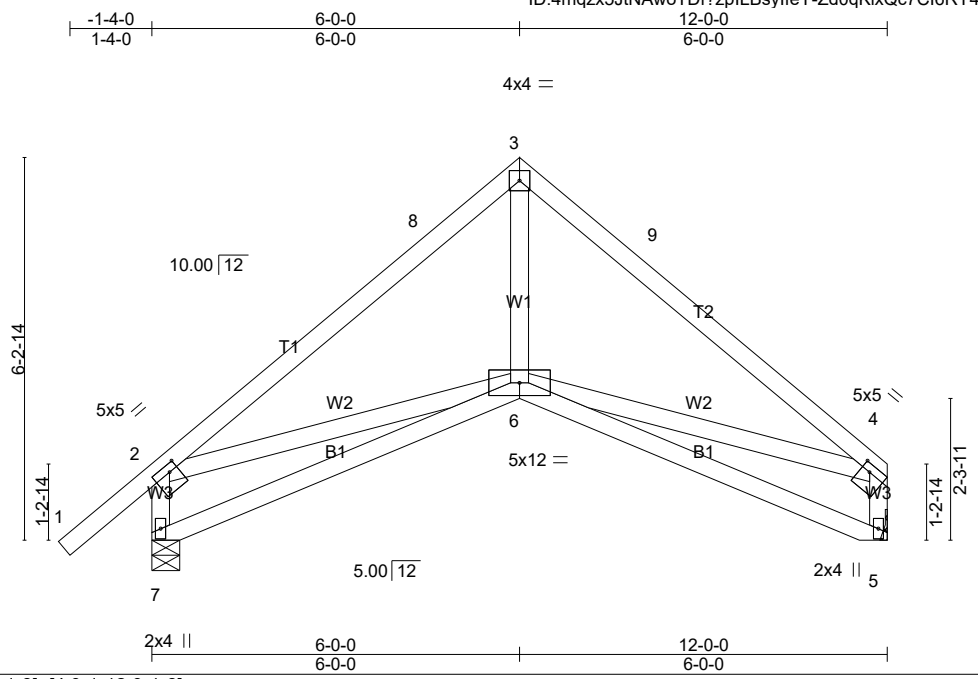


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-1-12,0-1-8]

| 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 | 0.68 | Vert(LL) | -0.04 | 5-6 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.09 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.16 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 71 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 4-4-5 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=616/0-5-8 (min. 0-1-8), 5=498/Mechanical
Max Horz 7=184(LC 13)
Max Uplift 7=-72(LC 16), 5=-39(LC 17)
Max Grav 7=720(LC 2), 5=577(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-821/101, 3-8=-589/123, 3-9=-602/116, 4-9=-810/93, 2-7=-724/217, 4-5=-580/151
BOT CHORD 6-7=-238/337
WEBS 3-6=0/419, 2-6=0/366, 4-6=-68/422

**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) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T3G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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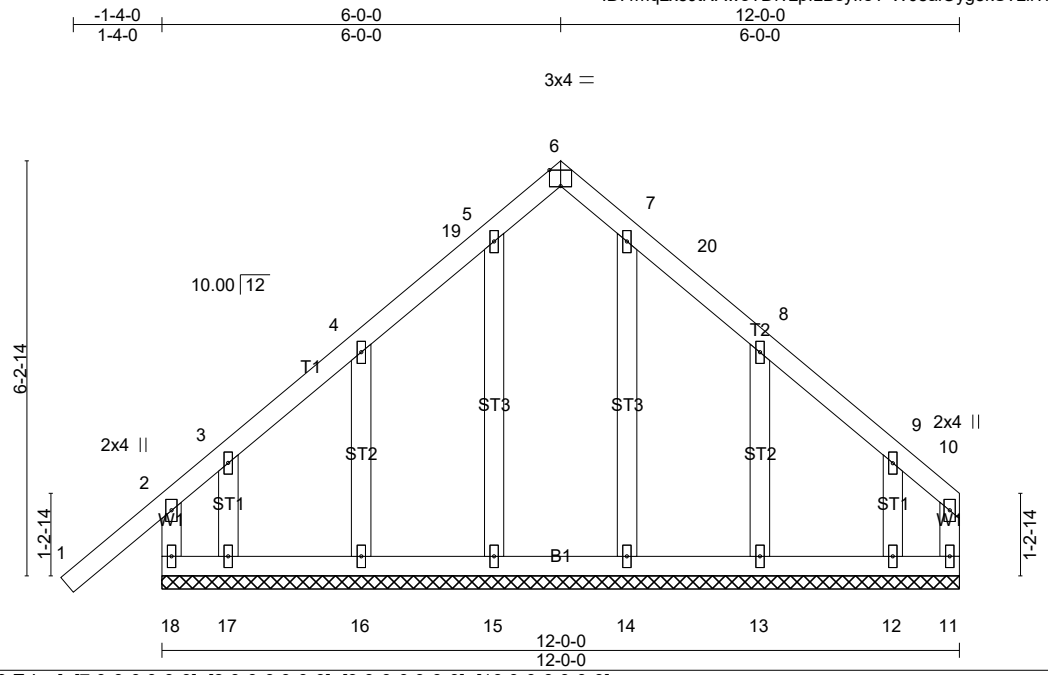


Plate Offsets (X,Y)-- [6:0-2-0,Edge], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0]

| **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 | 0.24 | Vert(LL) | 0.00 | 1 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.01 | 1 | n/r | 120 | | |
| 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-R | | | | | | | Weight: 75 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.** All bearings 12-0-0.
(lb) - Max Horz 18=179(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 18=-114(LC 12), 11=-131(LC 15), 16=-104(LC 16), 17=-160(LC 16), 13=-105(LC 17), 12=-167(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 11, 15, 16, 17, 14, 13, 12 except 18=299(LC 31)

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

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 114 lb uplift at joint 18, 131 lb uplift at joint 11, 104 lb uplift at joint 16, 160 lb uplift at joint 17, 105 lb uplift at joint 13 and 167 lb uplift at joint 12.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T4 | Scissor | 1 | 1 | Job Reference (optional) |

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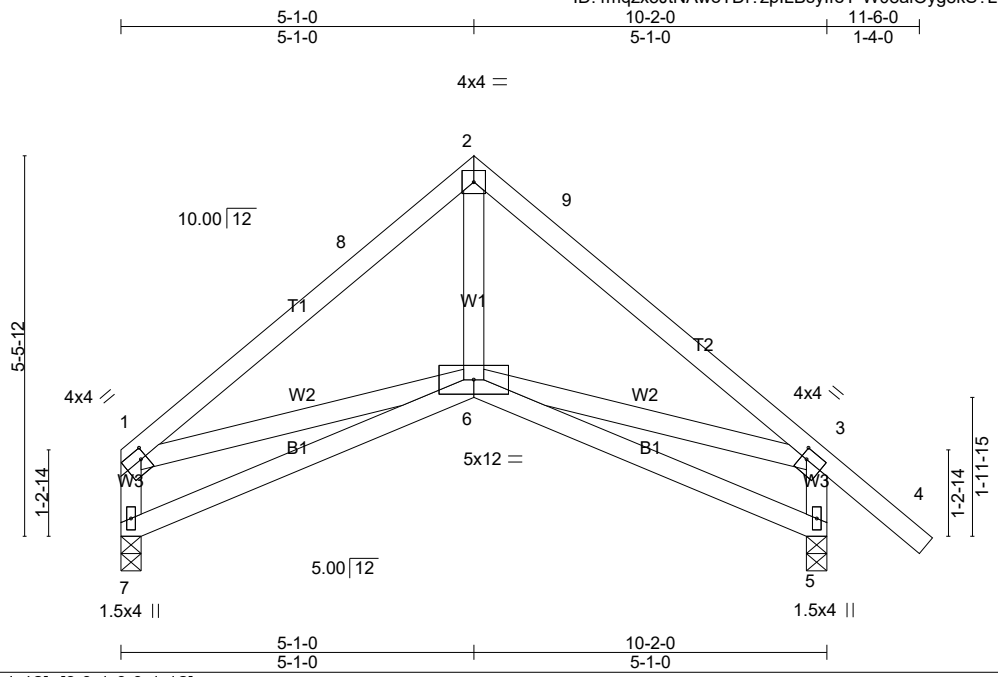


Plate Offsets (X,Y)-- [1:0-1-0,0-1-12], [3:0-1-0,0-1-12]

| 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) | -0.02 | 6-7 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.20 | Vert(CT) | -0.05 | 5-6 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 61 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 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=417/0-3-8 (min. 0-1-8), 5=538/0-3-8 (min. 0-1-8)
Max Horz 7=-162(LC 12)
Max Uplift7=-32(LC 16), 5=-66(LC 17)
Max Grav 7=484(LC 2), 5=630(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-656/18, 2-8=-481/38, 2-9=-465/57, 3-9=-666/37, 1-7=-480/104, 3-5=-618/189
BOT CHORD 6-7=-155/268
WEBS 2-6=0/337, 1-6=0/296, 3-6=-57/385

**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) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 7 and 66 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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T4G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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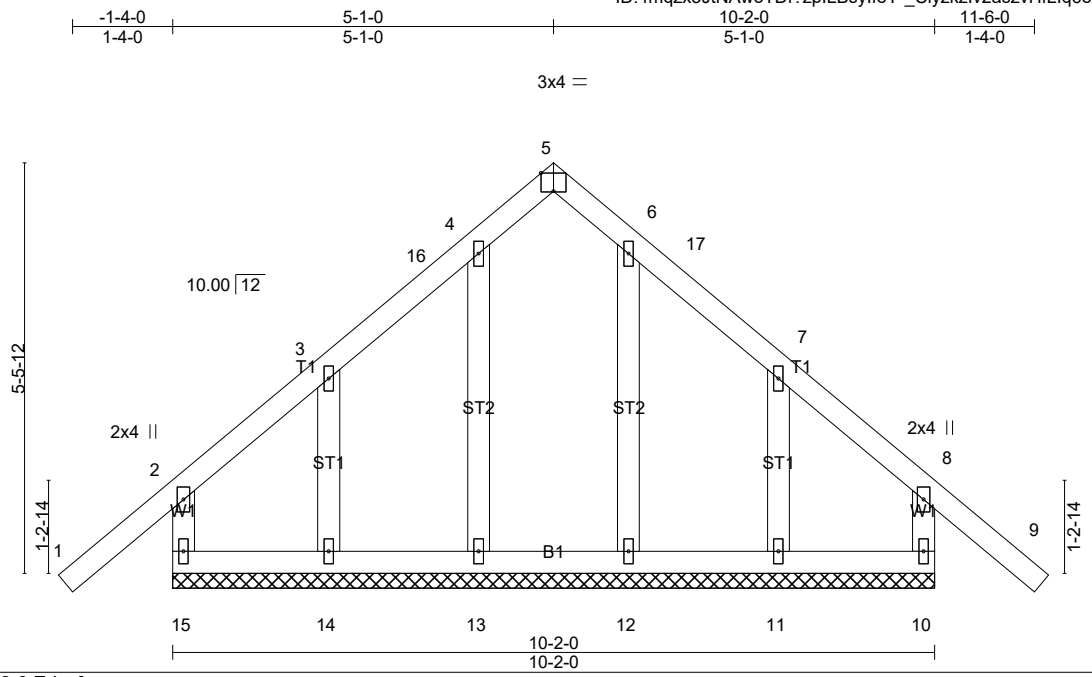


Plate Offsets (X,Y)-- [5:0-2-0,Edge]

| **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 | 0.24 | Vert(LL) | -0.02 | 9 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.03 | 9 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 62 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.** All bearings 10-2-0.
(lb) - Max Horz 15=171(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 15, 10 except 14=-149(LC 16), 11=-148(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 14, 12, 11

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

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) 15, 10 except (jt=lb) 14=149, 11=148.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T5 | Scissor | 3 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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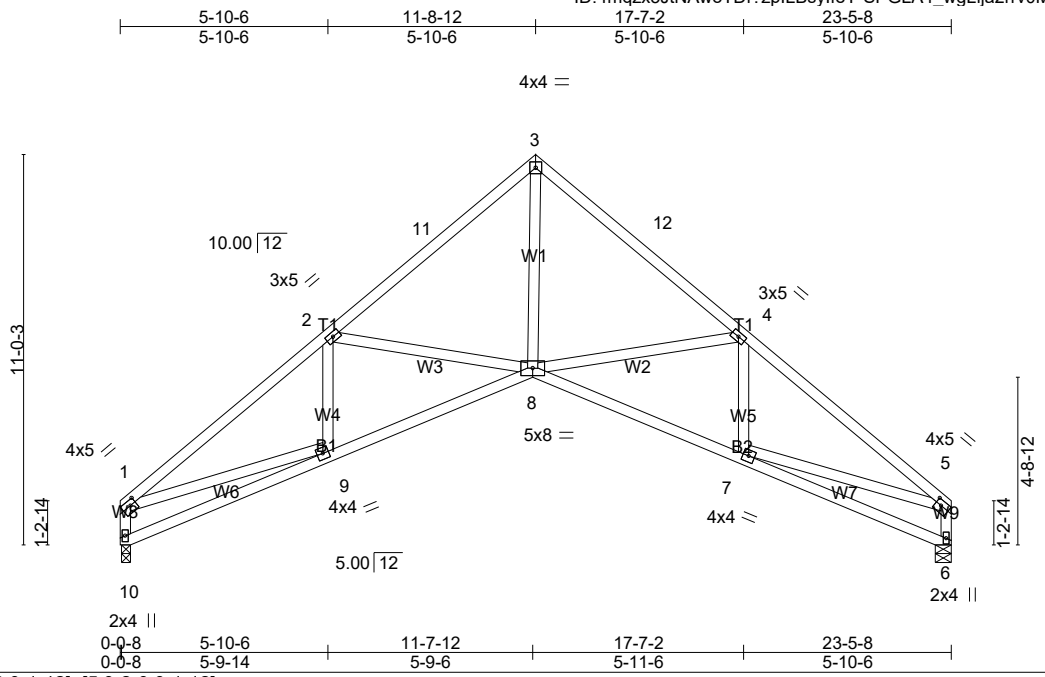


Plate Offsets (X,Y)-- [1:0-2-0,0-1-12], [5:0-2-0,0-1-12]

| **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 | 0.61 | Vert(LL) | -0.11 | 8 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.20 | 7-8 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | 0.19 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 139 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 3-1-9 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) 10=998/0-3-0 (min. 0-1-8), 6=998/0-5-8 (min. 0-1-8)
Max Horz 10=280(LC 15)
Max Uplift 10=-81(LC 16), 6=-81(LC 17)
Max Grav 10=1158(LC 2), 6=1158(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2128/274, 2-11=-1674/203, 3-11=-1509/224, 3-12=-1482/222, 4-12=-1647/201, 4-5=-2091/264, 1-10=-1160/206, 5-6=-1156/196
BOT CHORD 9-10=-306/396, 8-9=-245/1741, 7-8=-154/1646
WEBS 2-8=-445/269, 3-8=-134/1493, 4-8=-452/284, 5-7=-81/1408, 1-9=-59/1428

**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) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T5G | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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0-0-8 4-11-4 5-1-0 9-10-8 11-8-12 17-7-2 23-5-8
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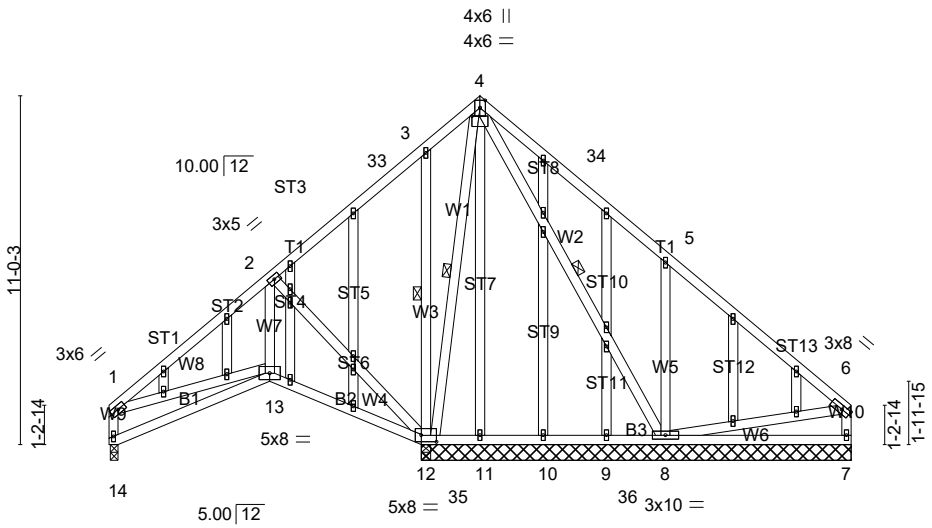


0-0-8 5-1-0 9-10-8 17-7-2 23-5-8
0-0-8 5-0-8 4-9-8 7-8-10 5-10-6

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

| 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 | 0.66 | Vert(LL) | -0.03 | 7-8 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.24 | Vert(CT) | -0.05 | 7-8 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 234 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.
WEBS 1 Row at midpt 3-12, 4-12, 4-8

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

**REACTIONS.** All bearings 13-7-0 except (jt=length) 14=0-3-0.
(lb) - Max Horz 14=-277(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 14, 9 except 12=-228(LC 16), 8=-260(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 7, 11, 10, 9 except 14=381(LC 30), 12=1064(LC 29), 12=882(LC 1), 8=715(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-422/25, 3-33=-102/357, 3-4=-98/267, 4-34=-90/262, 5-6=-127/258, 1-14=-344/65
BOT CHORD 13-14=-300/361, 12-13=-167/395
WEBS 2-13=-86/369, 2-12=-631/222, 3-12=-312/189, 4-12=-392/0, 5-8=-551/355, 6-8=-282/200

**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 1.5x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
10) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 9 except (jt=lb) 12=228, 8=260.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T6 | Piggyback Base | 7 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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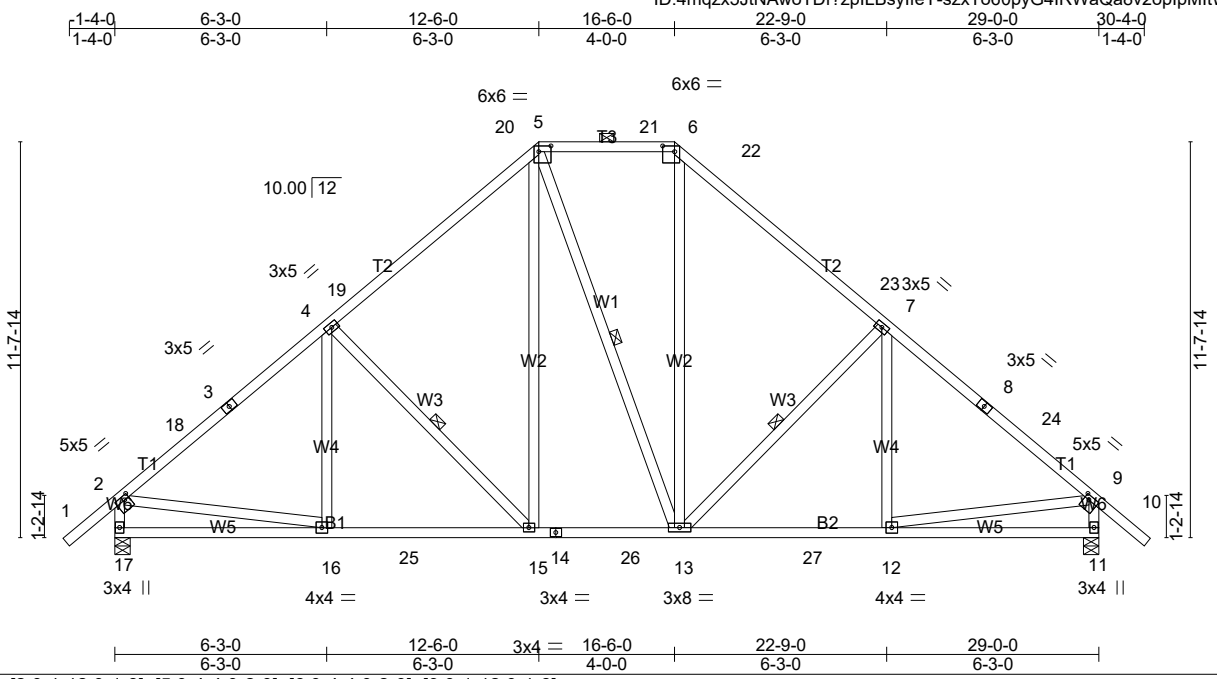


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [5:0-4-4,0-2-0], [6:0-4-4,0-2-0], [9:0-1-12,0-1-8]

| 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 | 0.76 | Vert(LL) | -0.08 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.13 | 15-16 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.04 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 216 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1 *Except* T3: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

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

**REACTIONS.** (lb/size) 17=1341/0-5-8 (min. 0-2-3), 11=1341/0-5-8 (min. 0-2-3)
Max Horz 17=325(LC 15)
Max Uplift 17=-147(LC 16), 11=-147(LC 17)
Max Grav 17=1866(LC 39), 11=1866(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-2096/227, 3-18=-1941/232, 3-4=-1738/258, 4-19=-1698/296, 19-20=-1417/335, 5-20=-1201/340, 5-21=-1079/326, 6-21=-1079/326, 6-22=-1202/340, 22-23=-1418/335, 7-23=-1699/296, 7-8=-1738/258, 8-24=-1940/232, 9-24=-2096/227, 2-17=-1806/287, 9-11=-1805/287
BOT CHORD 16-17=-300/419, 16-25=-143/1522, 15-25=-143/1522, 14-15=-44/1085, 14-26=-44/1085, 13-26=-44/1085, 13-27=-34/1491, 12-27=-34/1491
WEBS 4-15=-607/232, 5-15=-105/599, 6-13=-90/556, 7-13=-606/232, 2-16=-13/1305, 9-12=-14/1304

**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, Lu=50-0-0
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) 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=147, 11=147.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T7 | Common | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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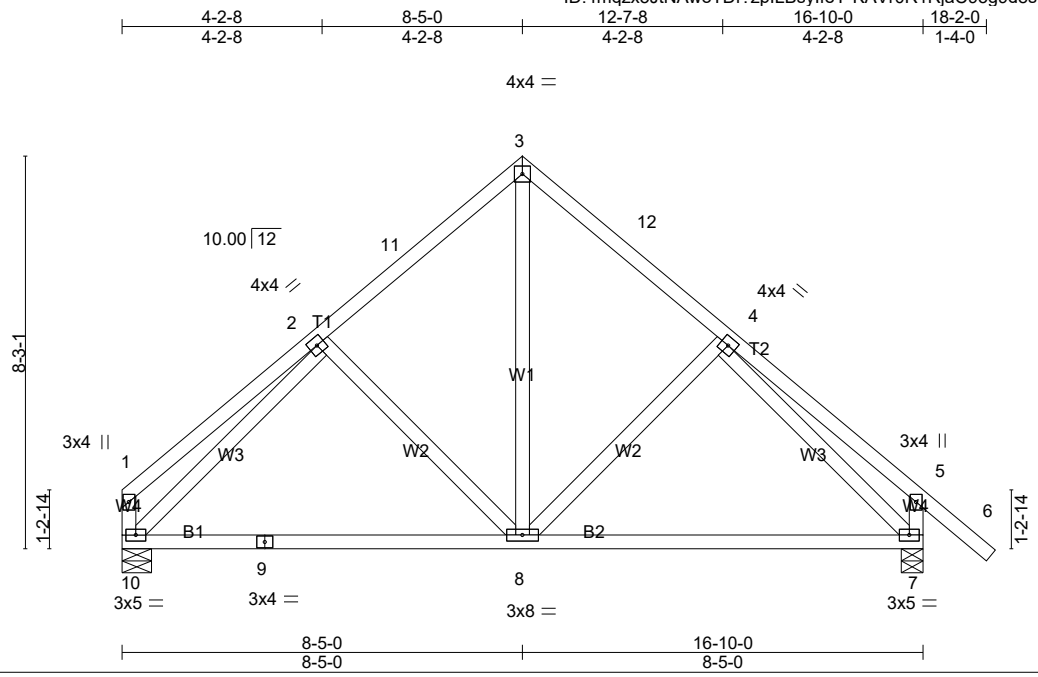


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.34 | Vert(LL) | -0.09 | 8-10 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.65 | Vert(CT) | -0.19 | 7-8 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.49 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | 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

**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) 10=708/0-7-8 (min. 0-1-8), 7=822/0-5-8 (min. 0-1-8)
Max Horz 10=-229(LC 12)
Max Uplift 10=-57(LC 16), 7=-90(LC 17)
Max Grav 10=821(LC 2), 7=959(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-709/168, 3-11=-589/186, 3-12=-586/185, 4-12=-706/170, 5-7=-344/162
BOT CHORD 9-10=-84/635, 8-9=-84/635, 7-8=-1/568
WEBS 3-8=-121/460, 2-10=-703/107, 4-7=-733/78

**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 100 lb uplift at joint(s) 10, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T7G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:50 2022 Page 1
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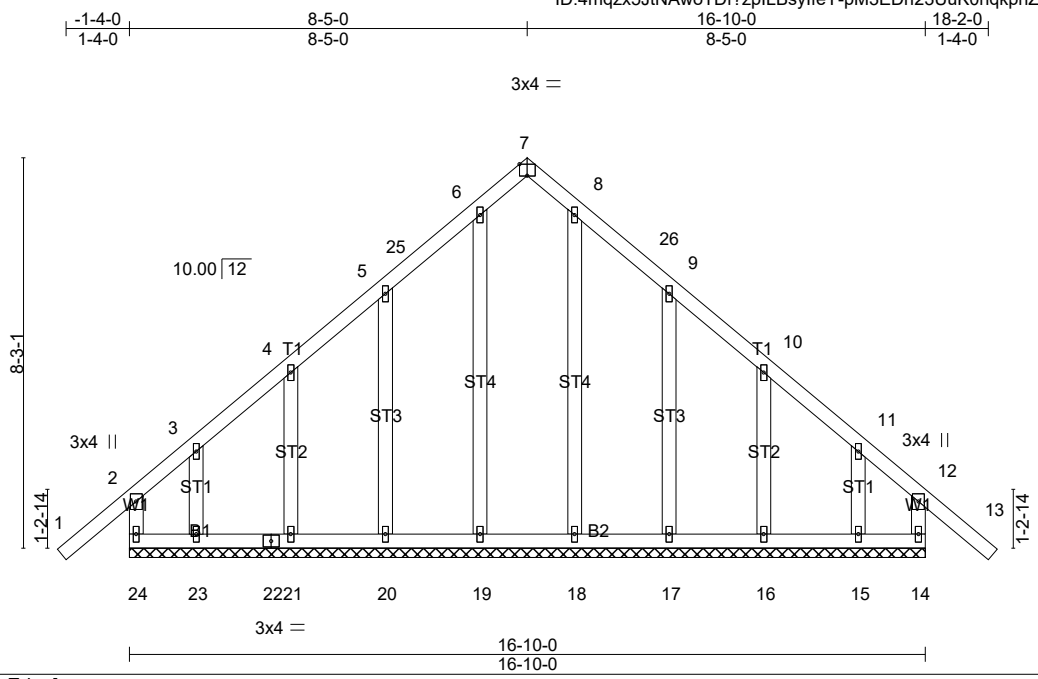


Plate Offsets (X,Y)-- [7:0-2-0,Edge]

| 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 | 0.24 | Vert(LL) | -0.02 | 13 | n/r | 180 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | -0.03 | 13 | n/r | 120 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 118 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.** All bearings 16-10-0.
(lb) - Max Horz 24=-240(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 21, 16 except 24=-123(LC 12), 14=-102(LC 13), 20=-122(LC 16), 23=-185(LC 16), 17=-123(LC 17), 15=-179(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 23, 18, 17, 16, 15 except 24=285(LC 31), 14=267(LC 30)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) 21, 16 except (jt=lb) 24=123, 14=102, 20=122, 23=185, 17=123, 15=179.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T8 | Common | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:51 2022 Page 1
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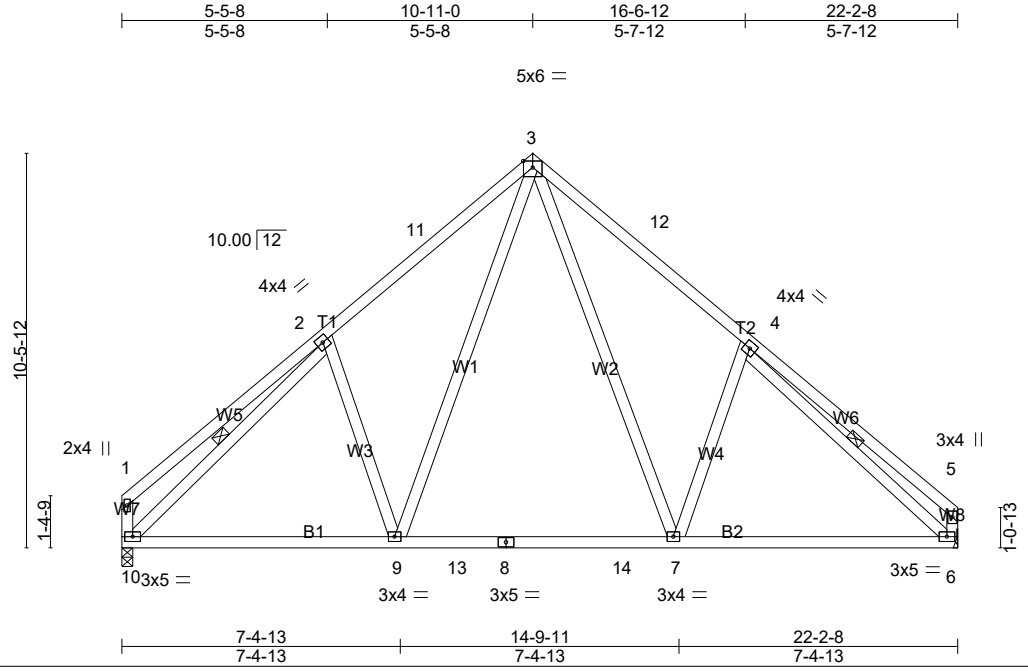


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.57 | Vert(LL) | -0.16 | 7-9 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.55 | Vert(CT) | -0.21 | 7-9 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.40 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 148 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 4-6-11 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 2-10, 4-6 |

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

**REACTIONS.** (lb/size) 10=945/0-3-8 (min. 0-1-8), 6=945/Mechanical
Max Horz 10=-265(LC 12)
Max Uplift 10=-76(LC 16), 6=-78(LC 17)
Max Grav 10=1096(LC 2), 6=1096(LC 2)

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

| | |
|---|---|
| TOP CHORD | 1-2=-275/153, 2-11=-1116/307, 3-11=-960/327, 3-12=-997/334, 4-12=-1162/314, 4-5=-363/161, 1-10=-281/136, 5-6=-342/142 |
| BOT CHORD | 9-10=-129/935, 9-13=-5/656, 8-13=-5/656, 8-14=-5/656, 7-14=-5/656, 6-7=-84/877 |
| WEBS | 2-9=-298/271, 3-9=-171/530, 3-7=-183/584, 4-7=-344/282, 2-10=-1045/88, 4-6=-1001/71 |

**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, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9 | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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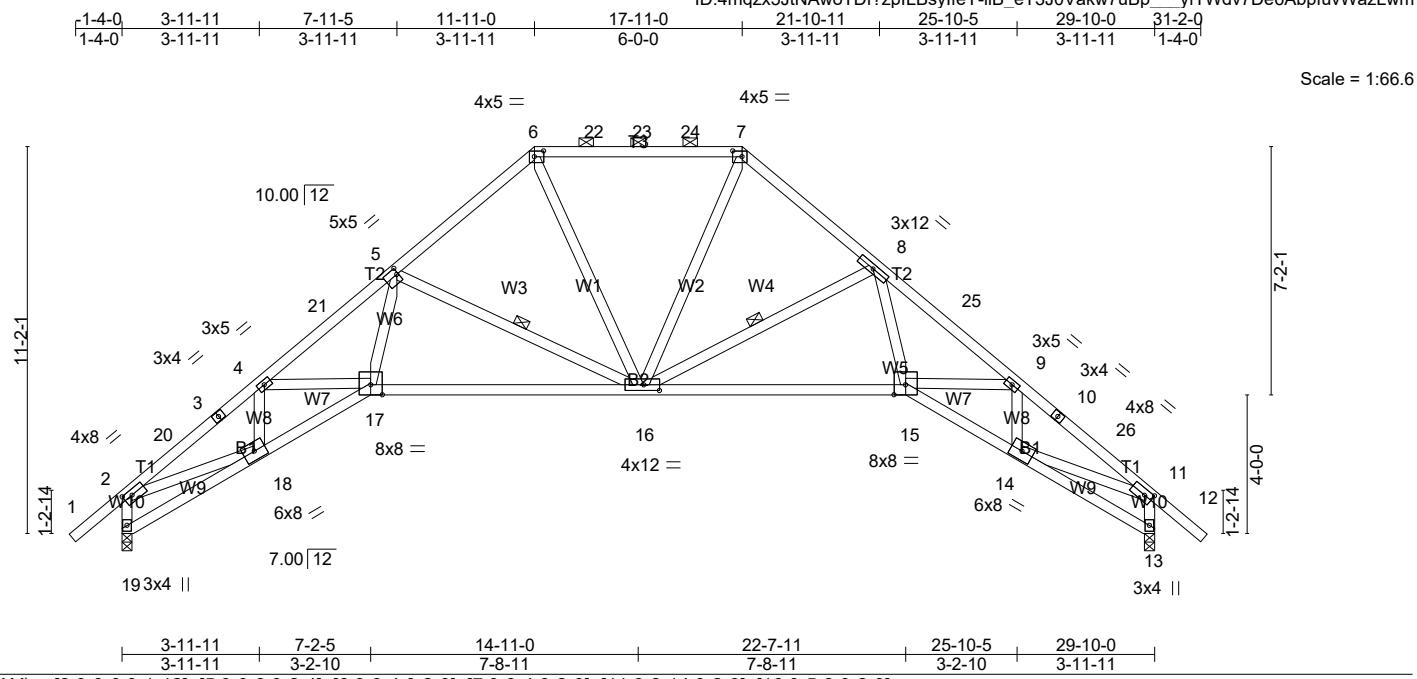



Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [5:0-0-8,0-2-4], [6:0-3-4,0-2-0], [7:0-3-4,0-2-0], [11:0-2-14,0-2-0], [16:0-5-8,0-2-0]

| 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 | 0.62 | Vert(LL) | -0.30 | 16-17 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.52 | 16-17 | >678 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.62 | 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 192 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W9: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-16, 8-16

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

**REACTIONS.** (lb/size) 19=1377/0-3-8 (min. 0-1-13), 13=1377/0-3-8 (min. 0-1-13)
Max Horz 19=-316(LC 14)
Max Uplift 19=-155(LC 16), 13=-155(LC 17)
Max Grav 19=1869(LC 39), 13=1869(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-3846/369, 3-20=-3728/372, 3-4=-3692/387, 4-21=-4343/375, 5-21=-4173/391, 5-6=-1971/263, 6-22=-1746/262, 22-23=-1746/262, 23-24=-1746/262, 7-24=-1746/262, 7-8=-1983/264, 8-25=-4170/320, 9-25=-4341/304, 9-10=-3694/319, 10-26=-3731/305, 11-26=-3847/292, 2-19=-1868/268, 11-13=-1868/272
BOT CHORD 18-19=-335/408, 17-18=-408/3330, 16-17=-240/2855, 15-16=-1/2828, 14-15=-147/3332
WEBS 4-18=-753/96, 4-17=0/363, 5-17=-150/1776, 5-16=-1655/292, 6-16=-35/913, 7-16=-58/922, 8-16=-1628/187, 8-15=-18/1780, 9-15=-53/361, 9-14=-753/83, 2-18=-195/2874, 11-14=-146/2878

**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, Lu=50-0-0
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) 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.
9) Bearing at joint(s) 19, 13 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 100 lb uplift at joint(s) except (jt=lb) 19=155 , 13=155.
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.

Continued on page 2

**NOTES-**

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

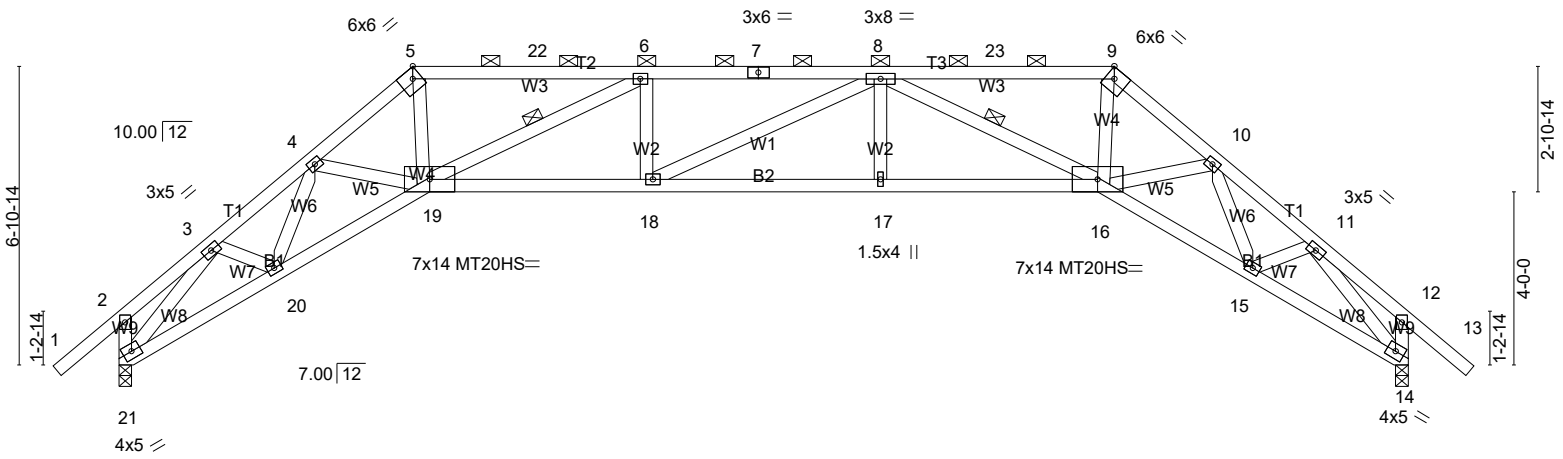
**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9A | Hip | 1 | 1 | Job Reference (optional) |



-1-4-0 | 2-3-3 | 4-6-6 | 6-9-10 | 12-2-9 | 17-7-7 | 23-0-6 | 25-3-10 | 27-6-13 | 29-10-0 | 31-2-0
1-4-0 | 2-3-3 | 2-3-3 | 2-3-3 | 5-4-15 | 5-4-15 | 5-4-15 | 2-3-3 | 2-3-3 | 2-3-3 | 1-4-0

Scale = 1:53.3




3-7-2 | 7-2-5 | 12-2-9 | 17-7-7 | 22-7-11 | 26-2-14 | 29-10-0
3-7-2 | 3-7-2 | 5-0-4 | 5-4-15 | 5-0-4 | 3-7-2 | 3-7-2

Plate Offsets (X,Y)-- [5:0-2-4,Edge], [9:Edge,0-2-11]

| 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) | -0.49 | 17-18 | >728 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.73 | 17-18 | >483 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.79 | 14 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 174 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T2,T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-9.
BOT CHORD Rigid ceiling directly applied or 8-8-0 oc bracing.
WEBS 1 Row at midpt 6-19, 8-16

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

**REACTIONS.** (lb/size) 21=1377/0-3-8 (min. 0-1-9), 14=1377/0-3-8 (min. 0-1-9)
Max Horz 21=-211(LC 14)
Max Uplift 21=-176(LC 16), 14=-177(LC 17)
Max Grav 21=1603(LC 2), 14=1603(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-3171/370, 4-5=-4225/481, 5-22=-3579/419, 6-22=-3579/419, 6-7=-5129/516, 7-8=-5129/516, 8-23=-3579/337, 9-23=-3579/337, 9-10=-4225/377, 10-11=-3171/345, 2-21=-459/161, 12-14=-459/163
BOT CHORD 20-21=-382/1991, 19-20=-465/3172, 18-19=-530/5129, 17-18=-454/5129, 16-17=-454/5129, 15-16=-166/3172, 14-15=-133/1991
WEBS 3-20=-35/790, 4-20=-937/109, 4-19=-75/517, 5-19=-229/2376, 6-19=-1748/268, 8-16=-1748/267, 9-16=-145/2376, 10-16=-124/517, 10-15=-937/108, 11-15=-37/790, 3-21=-2767/260, 11-14=-2767/241

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 3x4 MT20 unless otherwise indicated.
9) The Fabrication Tolerance at joint 5 = 8%, joint 9 = 8%
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) Bearing at joint(s) 21, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

**NOTES-**

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=176, 14=177.
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.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9B | Hip | 1 | 1 | Job Reference (optional) |



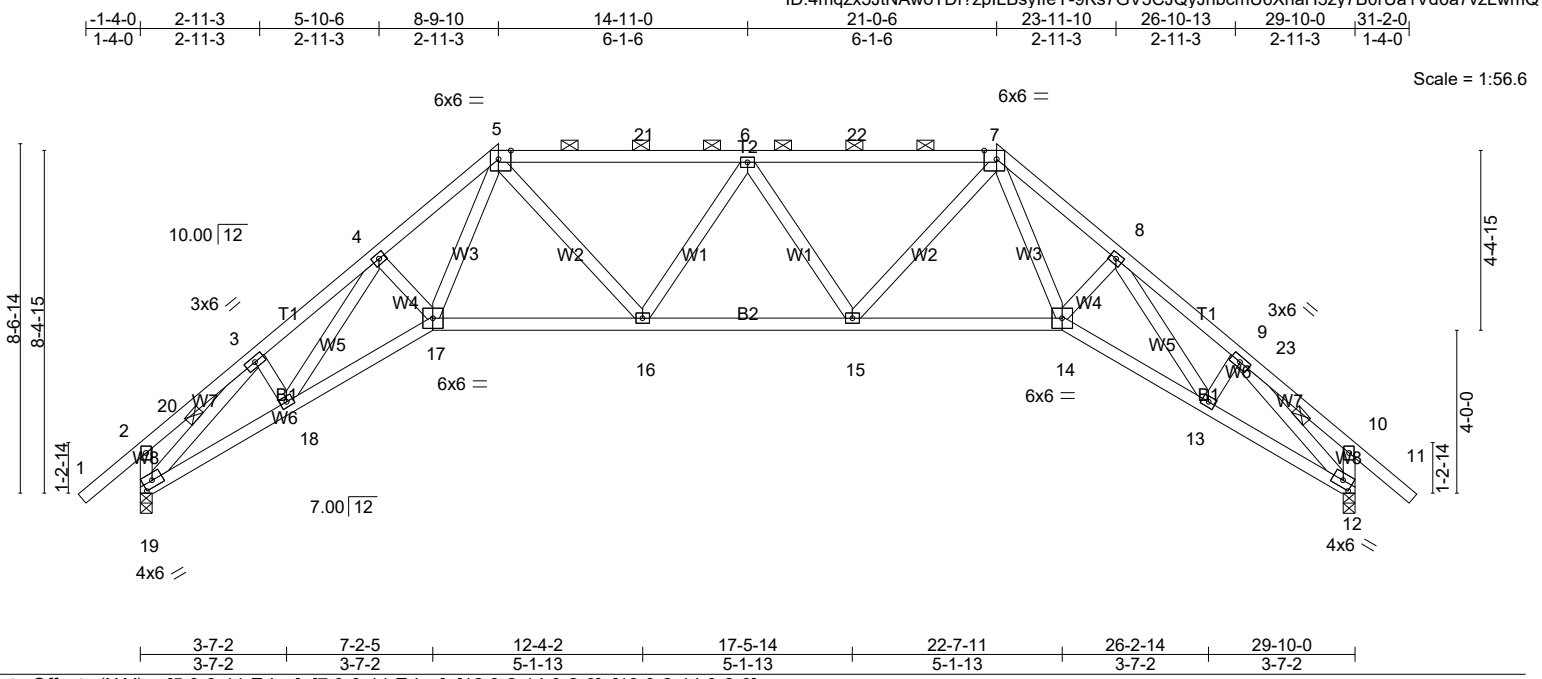



Plate Offsets (X,Y)-- [5:0-3-11,Edge], [7:0-3-11,Edge], [12:0-2-14,0-2-0], [19:0-2-14,0-2-0]

| **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 | 0.87 | Vert(LL) | -0.26 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.43 | 15-16 | >825 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.57 | 12 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 184 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 or 2-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-3-11 oc bracing: 18-19
8-11-3 oc bracing: 17-18.
WEBS 1 Row at midpt 3-19, 9-12

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

**REACTIONS.** (lb/size) 19=1377/0-3-8 (min. 0-1-11), 12=1377/0-3-8 (min. 0-1-11)
Max Horz 19=-249(LC 14)
Max Uplift19=-170(LC 16), 12=-170(LC 17)
Max Grav 19=1767(LC 39), 12=1767(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-294/115, 3-4=-2902/401, 4-5=-3634/406, 5-21=-2806/334, 6-21=-2808/334, 6-22=-2808/332, 7-22=-2806/332, 7-8=-3634/396, 8-9=-2902/375, 10-23=-294/112, 2-19=-528/171, 10-12=-528/173
BOT CHORD 18-19=-404/2286, 17-18=-439/3043, 16-17=-282/2322, 15-16=-280/3091, 14-15=-105/2322, 13-14=-124/3043, 12-13=-150/2286
WEBS 3-18=0/533, 4-18=-1000/62, 4-17=-64/357, 5-17=-201/1677, 5-16=-118/745, 6-16=-538/184, 6-15=-538/185, 7-15=-120/745, 7-14=-109/1677, 8-14=-107/357, 8-13=-1000/111, 9-13=-17/533, 3-19=-2985/262, 9-12=-2985/241

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are 3x4 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Bearing at joint(s) 19, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2

**NOTES-**

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=170, 12=170.
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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9C | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:56 2022 Page 1
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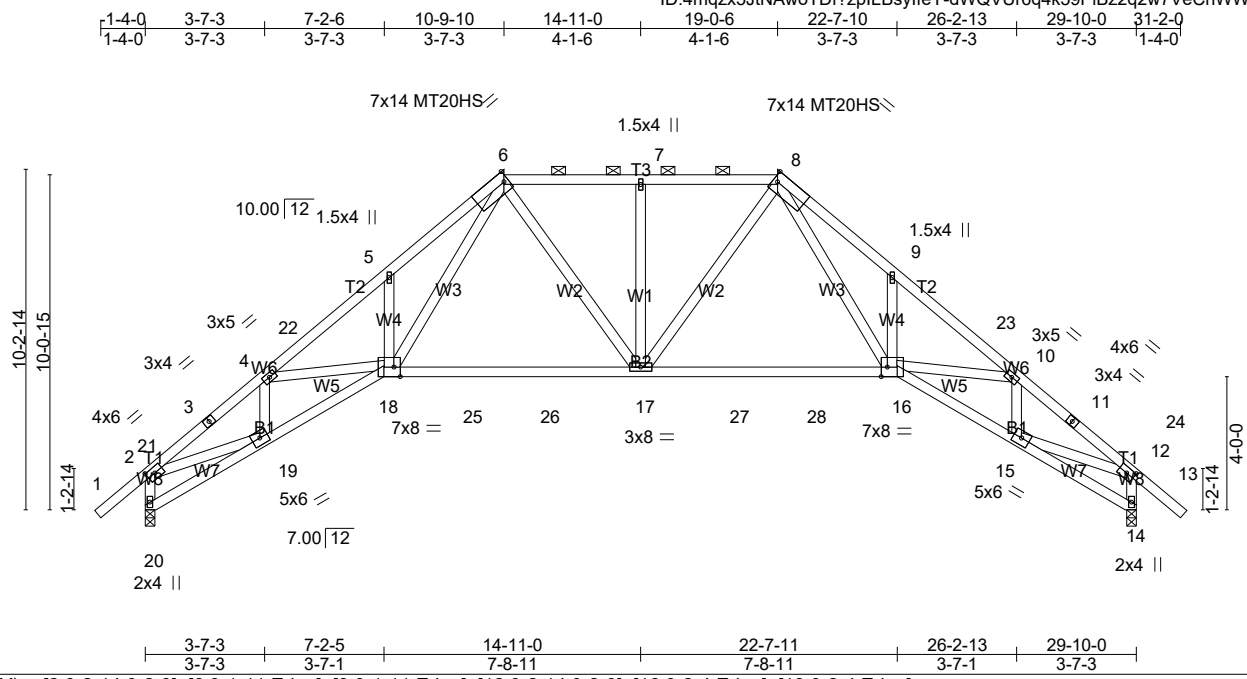


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [6:0-1-11,Edge], [8:0-1-11,Edge], [12:0-2-14,0-2-0], [16:0-2-4,Edge], [18:0-2-4,Edge]

| **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 | 0.61 | Vert(LL) | -0.29 | 17-18 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.87 | Vert(CT) | -0.52 | 17-18 | >676 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.59 | 14 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 193 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*
W7: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-7 max.): 6-8.
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) 20=1377/0-3-8 (min. 0-1-13), 14=1377/0-3-8 (min. 0-1-13)
Max Horz 20=-290(LC 14)
Max Uplift 20=-162(LC 16), 14=-162(LC 17)
Max Grav 20=1833(LC 39), 14=1833(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-3533/343, 3-21=-3407/354, 3-4=-3402/367, 4-22=-4083/353, 5-22=-3935/373, 5-6=-4054/533, 6-7=-1915/297, 7-8=-1915/297, 8-9=-4054/479, 9-23=-3935/326, 10-23=-4083/306, 10-11=-3402/317, 11-24=-3407/297, 12-24=-3533/294, 2-20=-1828/257, 12-14=-1828/270
BOT CHORD 19-20=-311/358, 18-19=-396/3041, 18-25=-173/1789, 25-26=-173/1789, 17-26=-173/1789, 17-27=-45/1789, 27-28=-45/1789, 16-28=-45/1789, 15-16=-154/3041
WEBS 4-19=-761/103, 4-18=0/509, 5-18=-398/199, 6-18=-373/2381, 6-17=-123/495, 7-17=-611/130, 8-17=-124/495, 8-16=-229/2381, 9-16=-398/205, 10-16=-68/524, 10-15=-761/91, 2-19=-194/2611, 12-15=-156/2611

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Bearing at joint(s) 20, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=162 , 14=162.

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.

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

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9D | Hip | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:21:58 2022 Page 1
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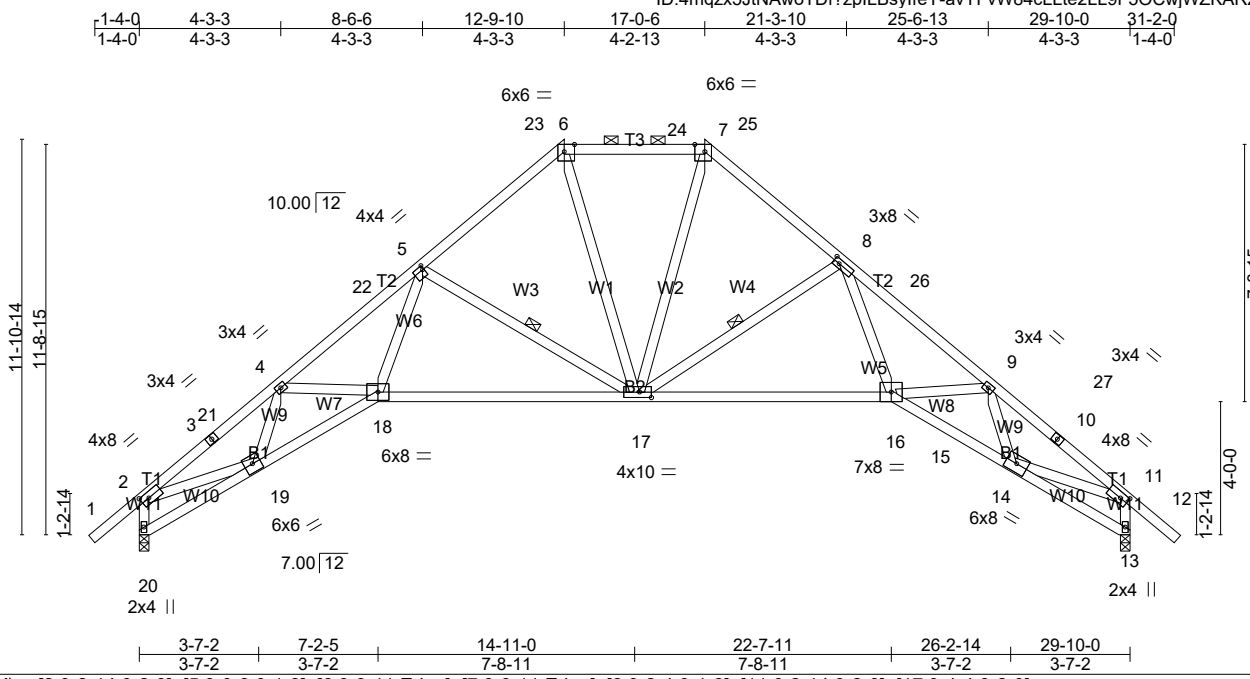


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-0-8,0-1-8], [6:0-3-11,Edge], [7:0-3-11,Edge], [8:0-2-4,0-1-8], [11:0-2-14,0-2-0], [17:0-4-4,0-2-0]

| 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 | 0.72 | Vert(LL) | -0.31 | 17-18 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.96 | Vert(CT) | -0.53 | 17-18 | >665 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.63 | 13 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 194 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*
W10: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-5 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-17, 8-17

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

**REACTIONS.** (lb/size) 20=1377/0-3-8 (min. 0-1-14), 13=1377/0-3-8 (min. 0-1-14)
Max Horz 20=-331(LC 14)
Max Uplift 20=-151(LC 16), 13=-151(LC 17)
Max Grav 20=1898(LC 39), 13=1898(LC 39)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3697/349, 3-21=-3596/349, 4-21=-3592/365, 4-22=-4527/387, 5-22=-4223/404, 5-23=-2080/260, 6-23=-1747/263, 6-24=-1728/264, 7-24=-1728/264, 7-25=-1765/265, 8-25=-2091/262, 8-26=-4219/317, 9-26=-4530/299, 9-27=-3603/293, 10-27=-3605/278, 10-11=-3707/270, 2-20=-1887/271, 11-13=-1888/270
BOT CHORD 19-20=-357/420, 18-19=-433/3540, 17-18=-188/2753, 16-17=0/2717, 15-16=-11/3758, 14-15=-149/3549
WEBS 4-19=-1036/117, 4-18=0/321, 5-18=-179/1919, 5-17=-1514/295, 6-17=-54/928, 7-17=-77/943, 8-17=-1483/196, 8-16=-30/1936, 9-15=-42/335, 9-14=-1042/94, 2-19=-162/2765, 11-14=-114/2778

**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, Lu=50-0-0
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) 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.
9) Bearing at joint(s) 20, 13 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 100 lb uplift at joint(s) except (jt=lb) 20=151 , 13=151.

Continued on page 2

**NOTES-**

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.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9E | PIGGYBACK BASE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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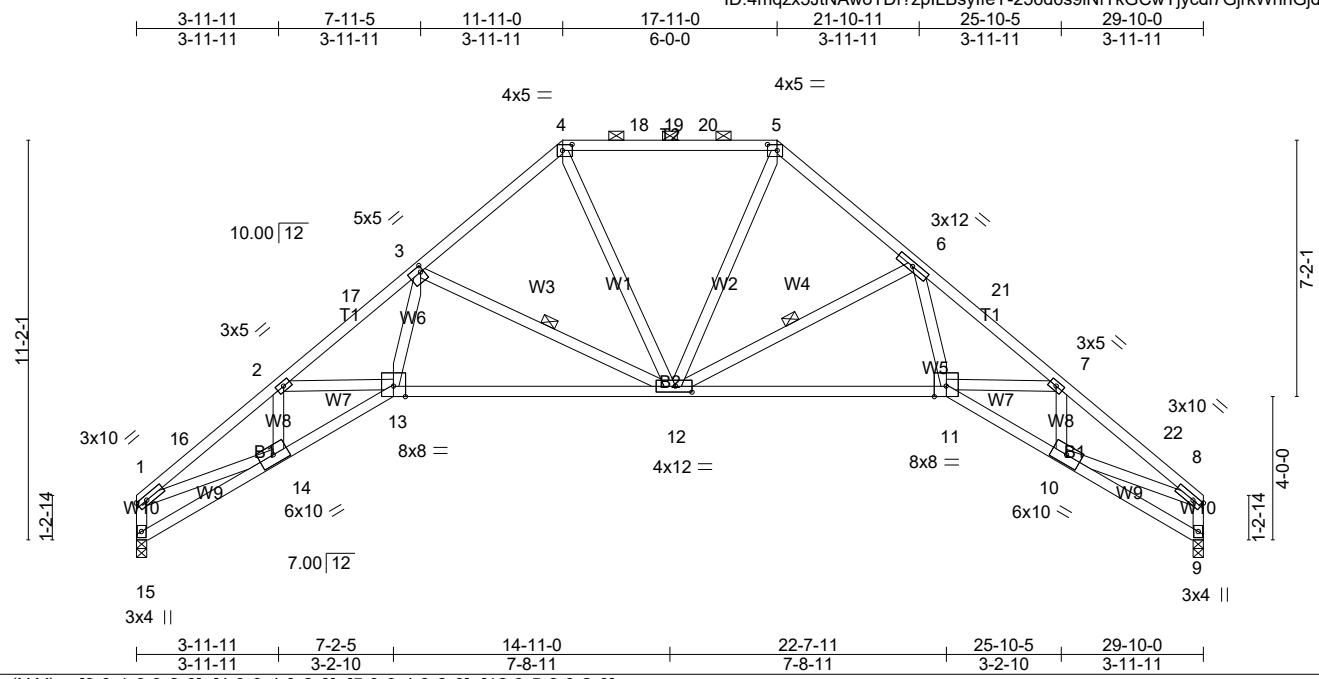


Plate Offsets (X,Y)-- [3:0-1-0,0-2-0], [4:0-3-4,0-2-0], [5:0-3-4,0-2-0], [12:0-5-8,0-2-0]

| **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 | 0.62 | Vert(LL) | -0.30 | 12-13 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.95 | Vert(CT) | -0.53 | 12-13 | >673 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.62 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 186 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | T2: 2x4 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* |
| | W9: 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-14 max.): 4-5. |
| BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS | 1 Row at midpt 3-12, 6-12 |

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

**REACTIONS.** (lb/size) 15=1273/0-3-8 (min. 0-1-11), 9=1273/0-3-8 (min. 0-1-11)
Max Horz 15=-284(LC 12)
Max Uplift 15=-122(LC 16), 9=-122(LC 17)
Max Grav 15=1765(LC 38), 9=1765(LC 38)

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

| | |
|---|---|
| TOP CHORD | 1-16=-3893/424, 2-16=-3790/441, 2-17=-4383/454, 3-17=-4187/469, 3-4=-1982/306, 4-18=-1758/307, 18-19=-1758/307, 19-20=-1758/307, 5-20=-1758/307, 5-6=-1994/308, 6-21=-4184/462, 7-21=-4381/447, 7-22=-3792/428, 8-22=-3895/410, 1-15=-1770/246, 8-9=-1770/232 |
| BOT CHORD | 14-15=-329/382, 13-14=-466/3385, 12-13=-267/2876, 11-12=-160/2850, 10-11=-336/3387 |
| WEBS | 2-14=-765/112, 2-13=0/345, 3-13=-180/1806, 3-12=-1669/309, 4-12=-65/920, 5-12=-67/929, 6-12=-1642/247, 6-11=-114/1810, 7-11=-60/343, 7-10=-764/117, 1-14=-248/2912, 8-10=-261/2915 |

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 15, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=122, 9=122.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9F | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Apr 29 08:22:01 2022 Page 1
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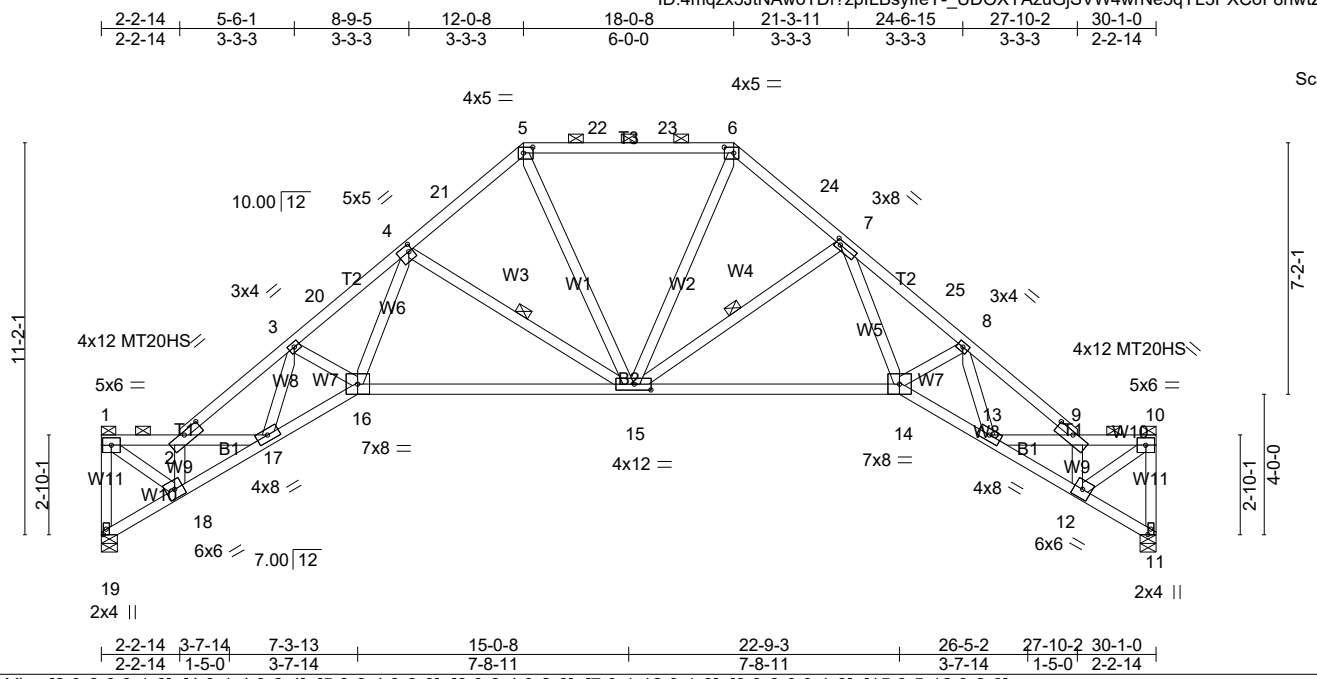


Plate Offsets (X,Y)-- [2:0-6-0,0-1-0], [4:0-1-4,0-2-4], [5:0-3-4,0-2-0], [6:0-3-4,0-2-0], [7:0-1-12,0-1-8], [9:0-6-0,0-1-0], [15:0-5-12,0-2-0]

| **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 | 0.61 | Vert(LL) | -0.30 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.53 | 15-16 | >669 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.64 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 196 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W10: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-3-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-9 max.): 1-17, 5-6, 10-13.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-15, 7-15

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

**REACTIONS.** (lb/size) 19=1284/0-5-8 (min. 0-1-10), 11=1284/0-5-8 (min. 0-1-10)
Max Horz 19=-304(LC 12)
Max Uplift 19=-100(LC 16), 11=-100(LC 17)
Max Grav 19=1682(LC 42), 11=1682(LC 42)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-1643/258, 1-2=-2222/359, 2-17=-42/870, 2-3=-4194/607, 3-20=-4374/621, 4-20=-4249/643, 4-21=-1946/334, 5-21=-1810/349, 5-22=-1771/349, 22-23=-1771/349, 6-23=-1771/349, 6-24=-1823/351, 7-24=-1956/336, 7-25=-4243/604, 8-25=-4374/580, 8-9=-4196/535, 9-13=-87/873, 9-10=-2222/260, 10-11=-1643/225
BOT CHORD 18-19=-344/334, 17-18=-478/2585, 16-17=-531/3728, 15-16=-285/2585, 14-15=-261/2545, 13-14=-478/3730, 12-13=-364/2584
WEBS 3-17=-497/39, 4-16=-276/2030, 4-15=-1436/280, 5-15=-103/957, 6-15=-106/970, 7-15=-1403/255, 7-14=-241/2045, 8-13=-497/74, 9-12=-2836/404, 2-18=-2837/439, 1-18=-384/2704, 10-12=-344/2704

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 19, 11 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 100 lb uplift at joint(s) except (jt=lb) 19=100 , 11=100.
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.

Continued on page 2

**NOTES-**

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

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9G | GABLE | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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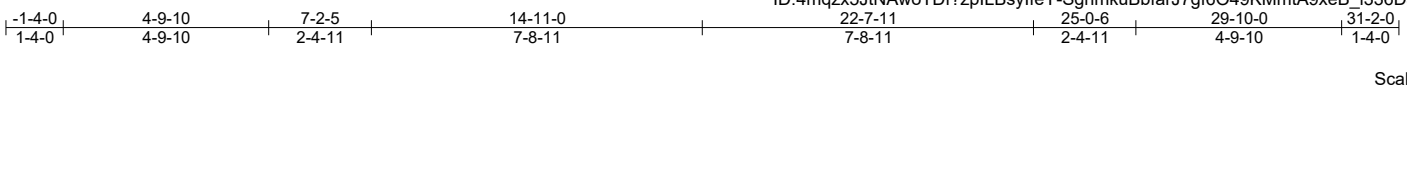


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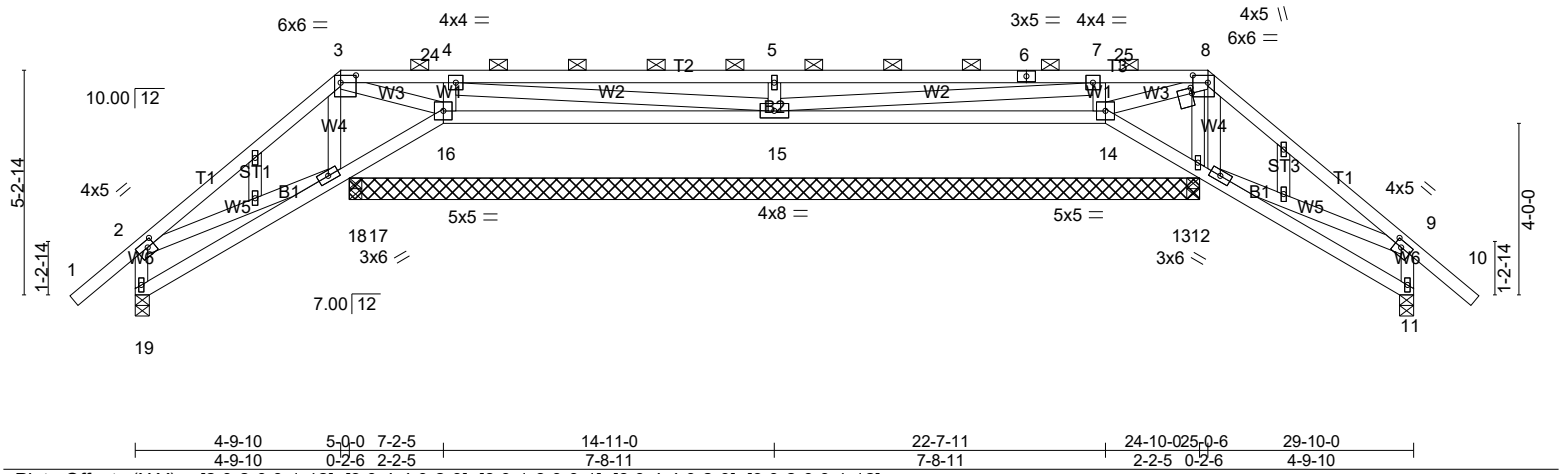





Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [3:0-4-4,0-2-0], [8:0-1-8,0-0-1], [8:0-4-4,0-2-0], [9:0-2-0,0-1-12]

| 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 | 0.87 | Vert(LL) | -0.07 | 14-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.14 | 14-15 | >652 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 164 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP DSS
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, and 2-0-0 oc purlins (6-0-0 max.): 3-8.
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.** All bearings 19-10-0 except (jt=length) 19=0-4-0, 11=0-4-0, 17=0-3-8.
(lb) - Max Horz 19=-170(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 19, 14, 13, 17 except 16=-124(LC 13), 11=-120(LC 17), 15=-120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 13, 13, 17 except 19=633(LC 39), 16=960(LC 38), 14=940(LC 38), 11=631(LC 39), 15=1190(LC 38)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-451/65, 8-9=-442/71, 2-19=-652/201, 9-11=-651/200
BOT CHORD 18-19=-183/284, 17-18=-57/315, 16-17=-40/295
WEBS 3-16=-271/29, 4-16=-768/169, 5-15=-1007/227, 7-14=-747/168

**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, Lu=50-0-0
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) Provide adequate drainage to prevent water ponding.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 14, 13, 17 except (jt=lb) 16=124, 11=120, 15=120.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 14, 15, 13, 17.

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9G | GABLE | 1 | 1 | Job Reference (optional) |



**NOTES-**

15) 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.

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

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9H | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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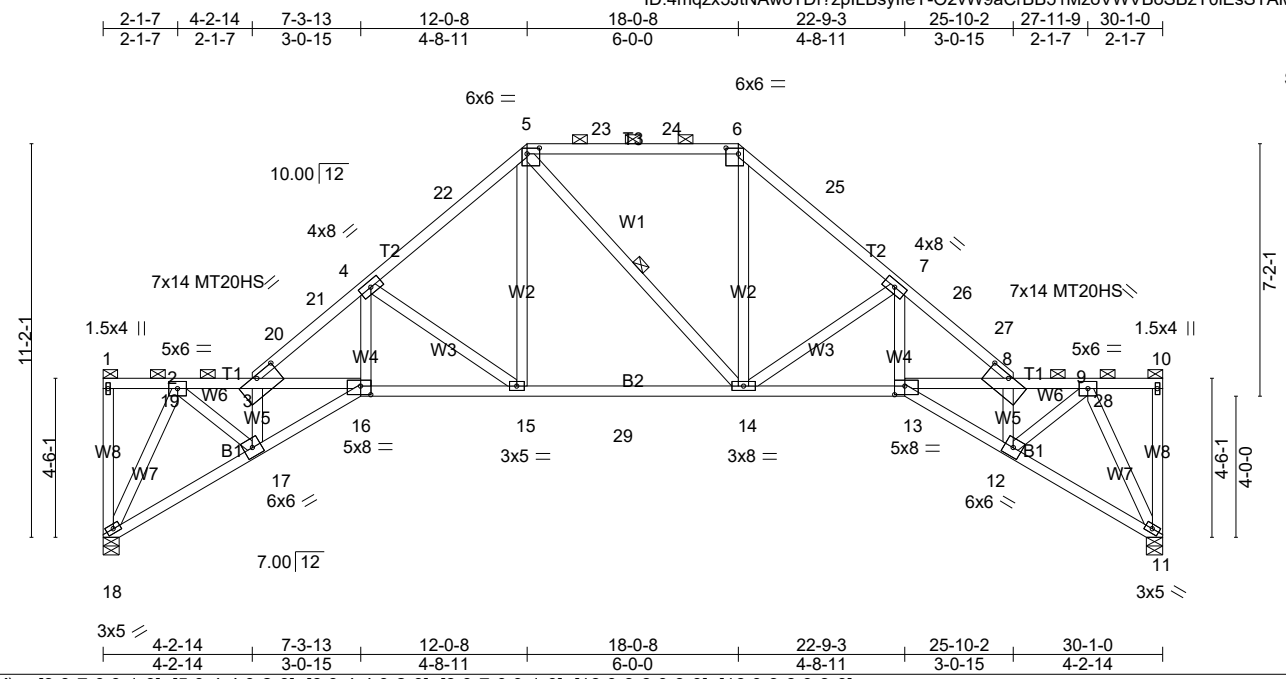


Plate Offsets (X,Y)-- [3:0-7-0,0-1-0], [5:0-4-4,0-2-0], [6:0-4-4,0-2-0], [8:0-7-0,0-1-0], [13:0-3-8,0-3-0], [16:0-3-8,0-3-0]

| **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 | 0.72 | Vert(LL) | -0.29 | 15-16 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.48 | 14-15 | >751 | 240 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.65 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 204 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W6: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-9 max.): 1-16, 5-6, 10-13.
BOT CHORD Rigid ceiling directly applied or 6-7-3 oc bracing.
WEBS 1 Row at midpt 5-14

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

**REACTIONS.** (lb/size) 18=1284/0-5-8 (min. 0-1-8), 11=1284/0-5-8 (min. 0-1-8)
Max Horz 18=-323(LC 12)
Max Uplift 18=-110(LC 16), 11=-110(LC 17)
Max Grav 18=1490(LC 2), 11=1490(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3010/597, 3-16=-7/314, 3-20=-4555/819, 20-21=-4495/819, 4-21=-4350/835, 4-22=-2396/446, 5-22=-2184/463, 5-23=-1663/390, 23-24=-1663/390, 6-24=-1663/390, 6-25=-2186/444, 7-25=-2398/427, 7-26=-4349/713, 26-27=-4493/697, 8-27=-4554/696, 8-13=-59/313, 8-9=-3010/420
BOT CHORD 17-18=-397/1120, 16-17=-808/3575, 15-16=-611/3150, 15-29=-237/1661, 14-29=-237/1661, 13-14=-530/3149, 12-13=-599/3576, 11-12=-225/1025
WEBS 2-18=-2105/393, 2-17=-475/2789, 3-17=-3127/600, 4-16=-410/2056, 4-15=-1773/447, 5-15=-167/1086, 6-14=-139/1054, 7-14=-1770/367, 7-13=-294/2053, 8-12=-3127/519, 9-12=-399/2789, 9-11=-2105/371

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
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, with BCDL = 10.0psf.
9) Bearing at joint(s) 18, 11 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 100 lb uplift at joint(s) except (jt=lb) 18=110 , 11=110.
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.

Continued on page 2

**NOTES-**

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

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9J | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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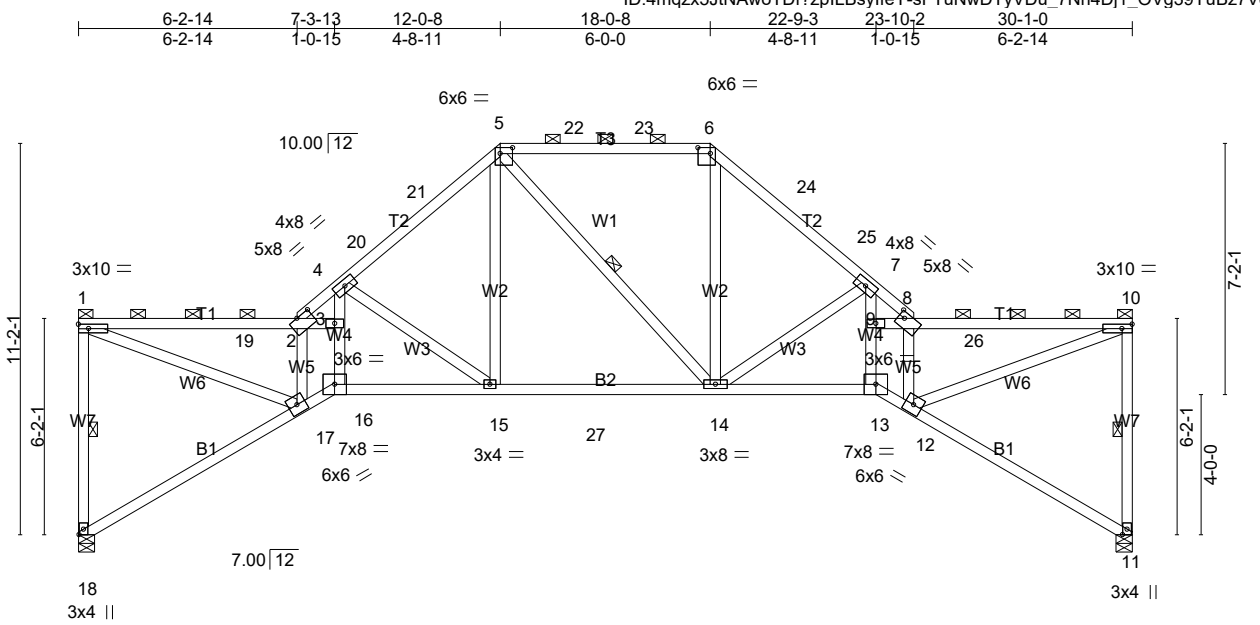


Plate Offsets (X,Y)-- [2:0-4-11,0-0-0], [5:0-4-4,0-2-0], [6:0-4-4,0-2-0], [8:0-2-1,0-2-0]

| 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 | 0.96 | Vert(LL) | -0.27 | 14-15 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.46 | 14-15 | >776 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.54 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 200 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP DSS *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W6: 2x4 SP No.2, W4: 2x4 SP DSS

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-15 max.): 1-3, 5-6, 9-10.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 1-18, 10-11, 5-14

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

**REACTIONS.** (lb/size) 18=1284/0-5-8 (min. 0-1-10), 11=1284/0-5-8 (min. 0-1-10)
Max Horz 18=-342(LC 12)
Max Uplift 18=-124(LC 16), 11=-124(LC 17)
Max Grav 18=1631(LC 41), 11=1631(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1566/339, 1-19=-3146/747, 2-19=-3146/747, 2-3=-848/151, 2-4=-3604/830, 4-20=-2219/470, 20-21=-2108/485, 5-21=-2065/502, 5-22=-1579/406, 22-23=-1579/406, 6-23=-1579/406, 6-24=-2067/465, 24-25=-2110/448, 7-25=-2221/433, 7-8=-3602/696, 8-9=-850/102, 8-26=-3145/551, 10-26=-3145/551, 10-11=-1566/301
BOT CHORD 17-18=-387/365, 16-17=-1003/3667, 15-16=-770/2775, 15-27=-354/1578, 14-27=-354/1578, 13-14=-614/2774, 12-13=-778/3666
WEBS 1-17=-693/3337, 2-17=-3008/702, 3-16=-506/1958, 3-4=-447/1718, 4-15=-1456/498, 5-15=-207/978, 6-14=-152/945, 7-14=-1453/342, 9-13=-390/1955, 7-9=-300/1716, 8-12=-3007/672, 10-12=-644/3337

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 18, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=124, 11=124.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9K | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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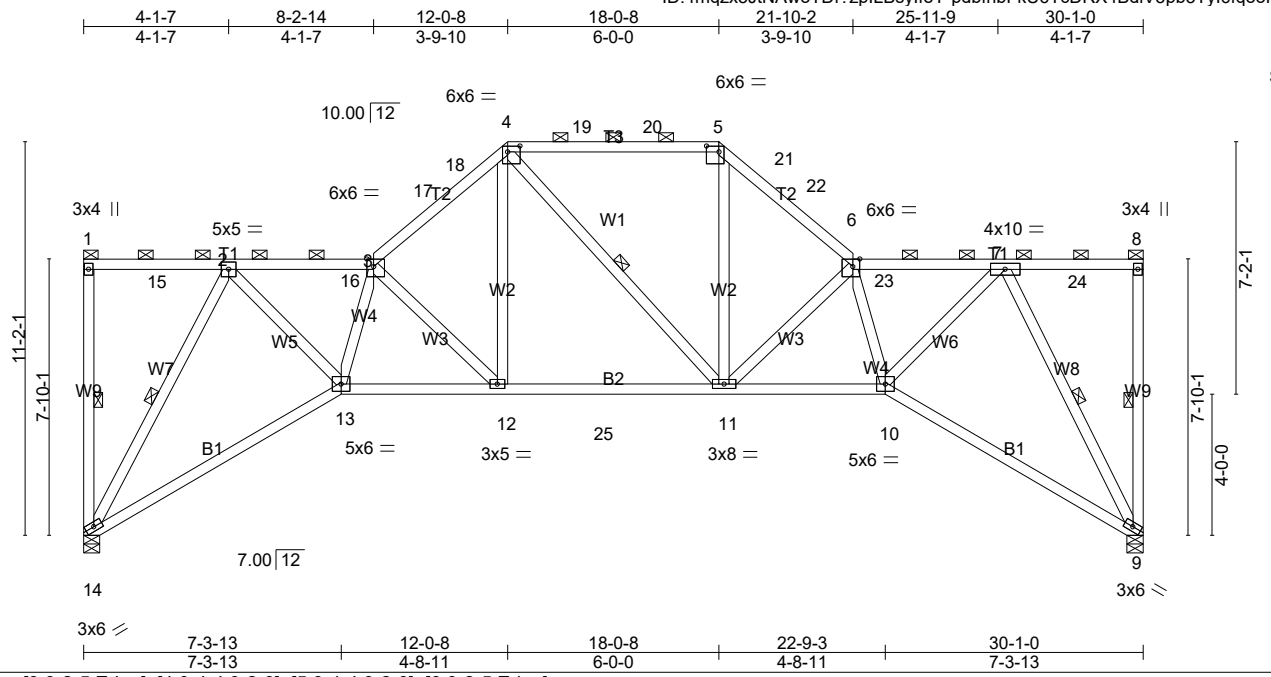





Plate Offsets (X,Y)-- [3:0-2-5,Edge], [4:0-4-4,0-2-0], [5:0-4-4,0-2-0], [6:0-2-5,Edge]

| 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 | 0.64 | Vert(LL) | -0.19 | 11-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.73 | Vert(CT) | -0.33 | 11-12 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 1.00 | Horz(CT) | 0.39 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 214 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-8 max.): 1-3, 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 6-7-3 oc bracing.
WEBS 1 Row at midpt 1-14, 8-9, 4-11, 7-9, 2-14

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

**REACTIONS.** (lb/size) 14=1284/0-5-8 (min. 0-1-12), 9=1284/0-5-8 (min. 0-1-12)
Max Horz 14=-360(LC 12)
Max Uplift 14=-143(LC 16), 9=-143(LC 17)
Max Grav 14=1798(LC 41), 9=1798(LC 41)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-2548/639, 3-16=-2544/639, 3-17=-2368/520, 17-18=-2306/521, 4-18=-2292/536, 4-19=-1754/409, 19-20=-1754/409, 5-20=-1754/409, 5-21=-2294/477, 21-22=-2309/462, 6-22=-2370/461, 6-23=-2542/426, 7-23=-2546/425
BOT CHORD 13-14=-576/1348, 12-13=-800/2749, 12-25=-463/1752, 11-25=-463/1752, 10-11=-612/2751, 9-10=-340/1290
WEBS 2-13=-441/2106, 3-13=-820/216, 3-12=-1365/465, 4-12=-256/1067, 5-11=-169/1069, 6-11=-1365/263, 6-10=-834/216, 7-10=-403/2126, 7-9=-2418/492, 2-14=-2455/481

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=143, 9=143.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9L | Piggyback Base | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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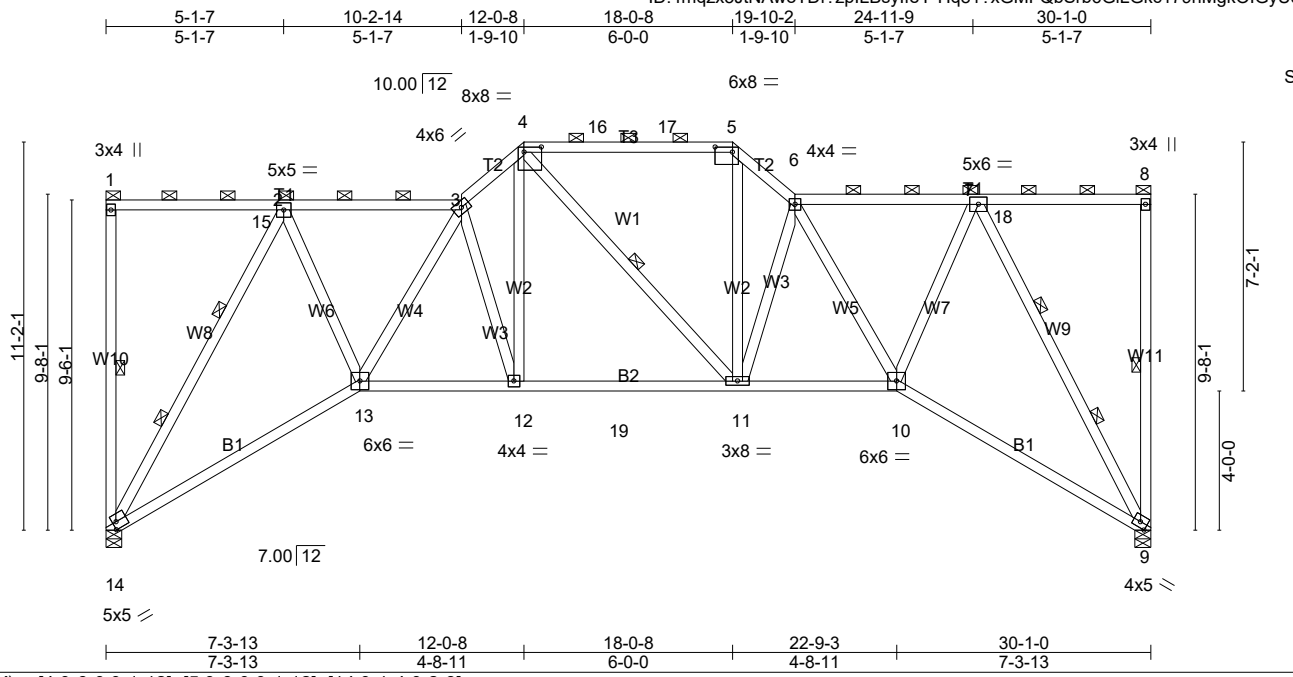


Plate Offsets (X,Y)-- [4:0-6-0,0-1-12], [5:0-6-0,0-1-12], [14:0-1-4,0-2-8]

| **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 | 0.99 | Vert(LL) | -0.19 | 11-12 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.30 | 11-12 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.92 | Horz(CT) | 0.35 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 235 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* T3: 2x4 SP DSS |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* W9,W8: 2x4 SP No.1 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-13 max.): 1-3, 4-5, 6-8. |
| BOT CHORD | Rigid ceiling directly applied or 6-11-11 oc bracing. |
| WEBS | 1 Row at midpt 1-14, 8-9, 4-11<br>2 Rows at 1/3 pts 7-9, 2-14 |

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

**REACTIONS.** (lb/size) 14=1284/0-5-8 (min. 0-1-15), 9=1284/0-5-8 (min. 0-1-15)
Max Horz 14=382(LC 13)
Max Uplift14=-198(LC 12), 9=-200(LC 13)
Max Grav 14=1977(LC 42), 9=1977(LC 42)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1980/520, 3-4=-2691/590, 4-16=-1997/397, 16-17=-1997/397, 5-17=-1997/397, 5-6=-2600/482, 6-7=-1921/295 |
| BOT CHORD | 13-14=-672/1521, 12-13=-713/2413, 12-19=-572/1994, 11-19=-572/1994, 10-11=-565/2360, 9-10=-396/1462 |
| WEBS | 2-13=-340/1784, 3-13=-897/218, 3-12=-1299/444, 4-12=-351/1348, 5-11=-189/1207, 6-11=-1146/185, 6-10=-918/221, 7-10=-328/1774, 7-9=-2676/551, 2-14=-2721/506 |

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=198, 9=200.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9M | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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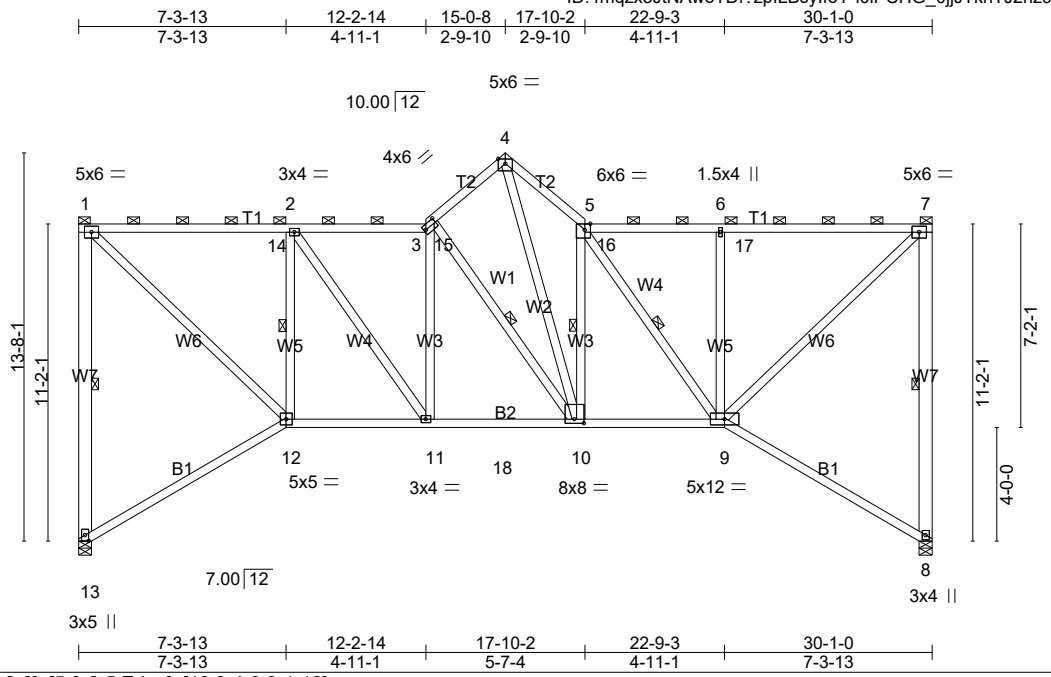


Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-2-5,Edge], [10:0-4-0,0-1-12]

| **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) | -0.16 | 10-11 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(CT) | -0.25 | 10-11 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.97 | Horz(CT) | 0.24 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code IRC2015/TPI2014 | | Matrix-MS | | | | | | | Weight: 266 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP DSS *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W7: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-2 max.): 1-3, 5-7.
BOT CHORD Rigid ceiling directly applied or 7-3-7 oc bracing.
WEBS 1 Row at midpt 1-13, 7-8, 2-12, 3-10, 5-10, 5-9

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

**REACTIONS.** (lb/size) 13=1277/0-5-8 (min. 0-1-13), 8=1277/0-5-8 (min. 0-1-13)
Max Horz 13=-457(LC 12)
Max Uplift 13=-204(LC 16), 8=-204(LC 17)
Max Grav 13=1876(LC 40), 8=1876(LC 40)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1816/388, 1-14=-1482/468, 2-14=-1482/468, 2-15=-1773/436, 3-15=-1769/436, 3-4=-1458/353, 4-5=-2256/519, 5-16=-1500/254, 6-16=-1505/254, 6-17=-1482/248, 7-17=-1482/248, 7-8=-1815/412
BOT CHORD 12-13=-520/534, 11-12=-661/1510, 11-18=-625/1764, 10-18=-625/1764, 9-10=-546/1760
WEBS 1-12=-405/2032, 2-12=-1282/360, 2-11=-180/605, 3-11=-391/204, 3-10=-1100/358, 4-10=-493/2351, 5-10=-1295/258, 5-9=-604/178, 6-9=-918/216, 7-9=-477/2031

**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, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 13, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=204, 8=204.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | T9N | Roof Special | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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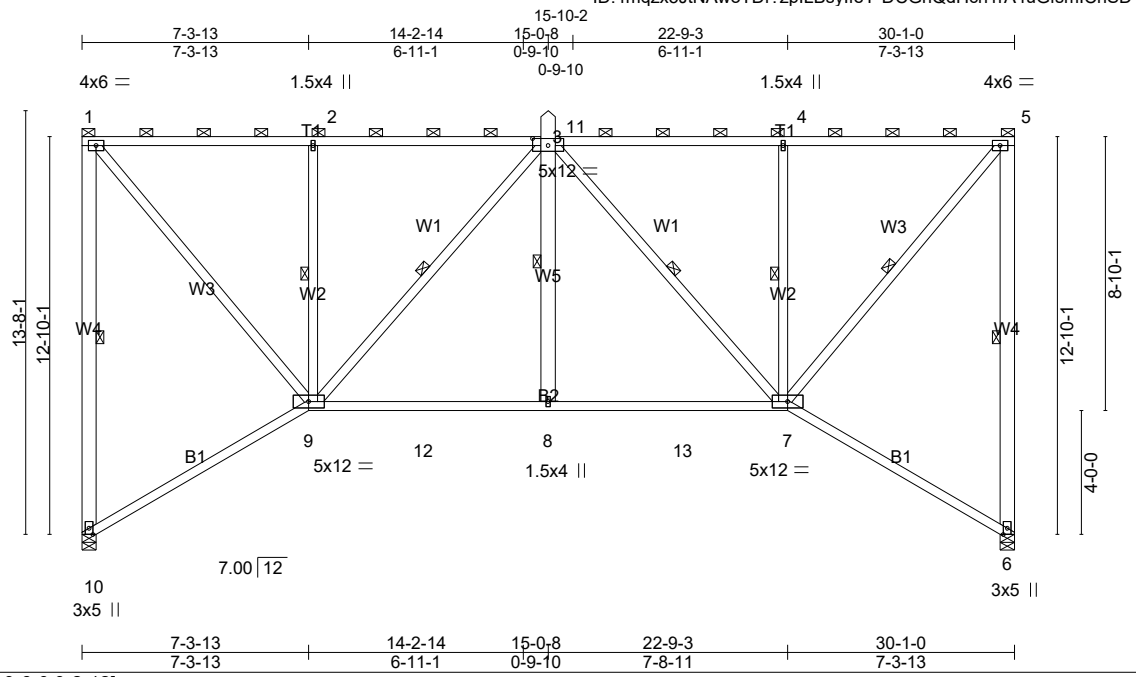


Plate Offsets (X,Y)-- [3:0-6-0,0-2-12]

| **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 | 0.81 | Vert(LL) | -0.12 | 7-8 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.84 | Vert(CT) | -0.23 | 7-8 | >999 | 240 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.14 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | Weight: 261 lb | FT = 20% |
| BCDL | 10.0 | | | | | | | | | | | |

**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W4,W5: 2x6 SP No.2

**BRACING-**
TOP CHORD 2-0-0 oc purlins (5-2-0 max.): 1-3, 3-5, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-10 oc bracing.
WEBS 1 Row at midpt 1-10, 5-6, 2-9, 3-9, 8-11, 3-7, 4-7, 5-7

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

**REACTIONS.** (lb/size) 10=1277/0-5-8 (min. 0-1-8), 6=1277/0-5-8 (min. 0-1-8)
Max Horz 10=-458(LC 12)
Max Uplift 10=-315(LC 12), 6=-315(LC 13)
Max Grav 10=1481(LC 2), 6=1481(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1418/399, 1-2=-988/447, 2-3=-1000/451, 3-4=-1000/216, 4-5=-988/212, 5-6=-1418/458
BOT CHORD 9-10=-597/614, 9-12=-590/1325, 8-12=-590/1325, 8-13=-589/1325, 7-13=-589/1325
WEBS 1-9=-384/1527, 2-9=-675/248, 3-9=-558/230, 3-8=0/457, 3-7=-558/230, 4-7=-675/248, 5-7=-503/1527

**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, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=315, 6=315.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5A | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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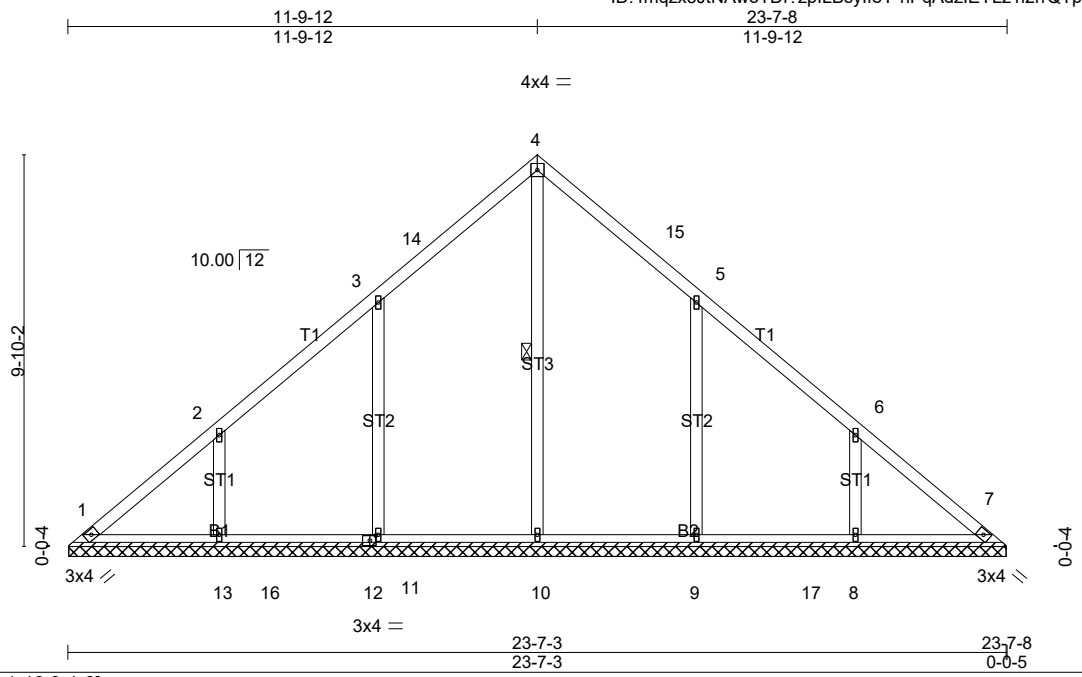


Plate Offsets (X,Y)-- [12:0-1-13,0-1-8]

| 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 | 0.27 | 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 | 0.26 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 119 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.
WEBS 1 Row at midpt 4-10

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

**REACTIONS.** All bearings 23-6-14.
(lb) - Max Horz 1=-235(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 11=-180(LC 16), 13=-168(LC 16), 9=-180(LC 17), 8=-168(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=434(LC 32), 11=549(LC 29), 13=444(LC 29), 9=555(LC 30), 8=444(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-355/230, 2-13=-326/210, 5-9=-355/229, 6-8=-326/210

**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 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=180, 13=168, 9=180, 8=168.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5B | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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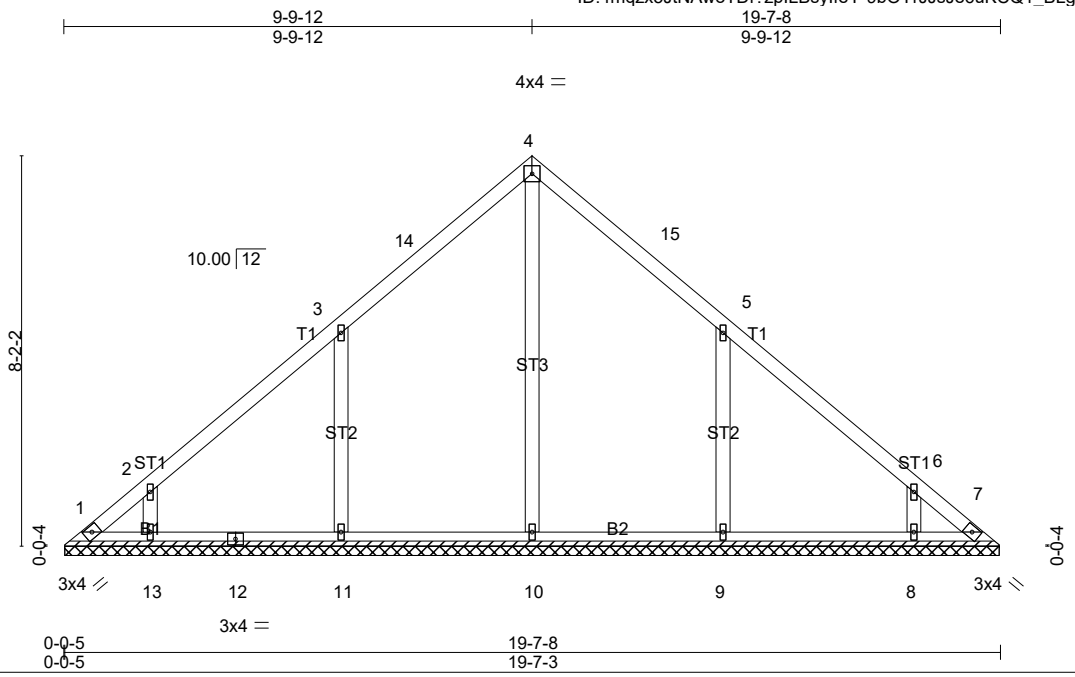



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 92 lb | FT = 20% |

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

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

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

**REACTIONS.** All bearings 19-6-14.
(lb) - Max Horz 1=-194(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-187(LC 16), 13=-132(LC 16), 9=-187(LC 17), 8=-132(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=424(LC 32), 11=508(LC 29), 13=325(LC 2), 9=507(LC 30), 8=325(LC 2)

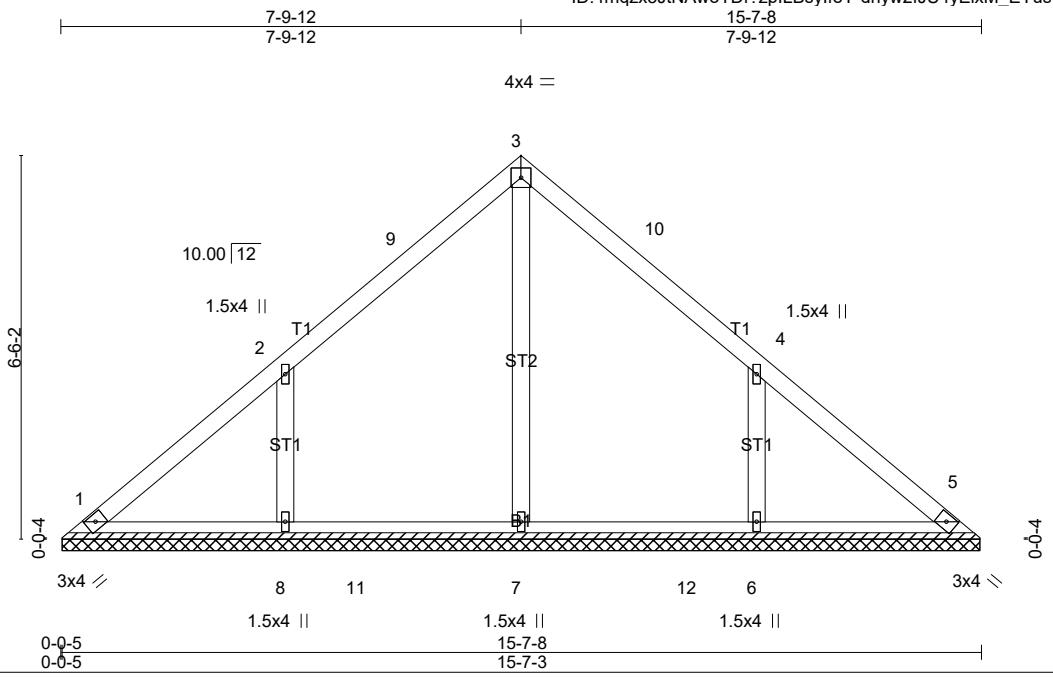
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-11=-366/237, 2-13=-270/175, 5-9=-365/236, 6-8=-270/175

**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 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=187, 13=132, 9=187, 8=132.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5C | Valley | 1 | 1 | Job Reference (optional) |






| 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 | 0.26 | 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 | 0.15 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 68 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.** All bearings 15-6-14.
(lb) - Max Horz 1=-153(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-188(LC 16), 6=-187(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=391(LC 32), 8=474(LC 29), 6=474(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-358/230, 4-6=-358/230

**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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=188, 6=187.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5D | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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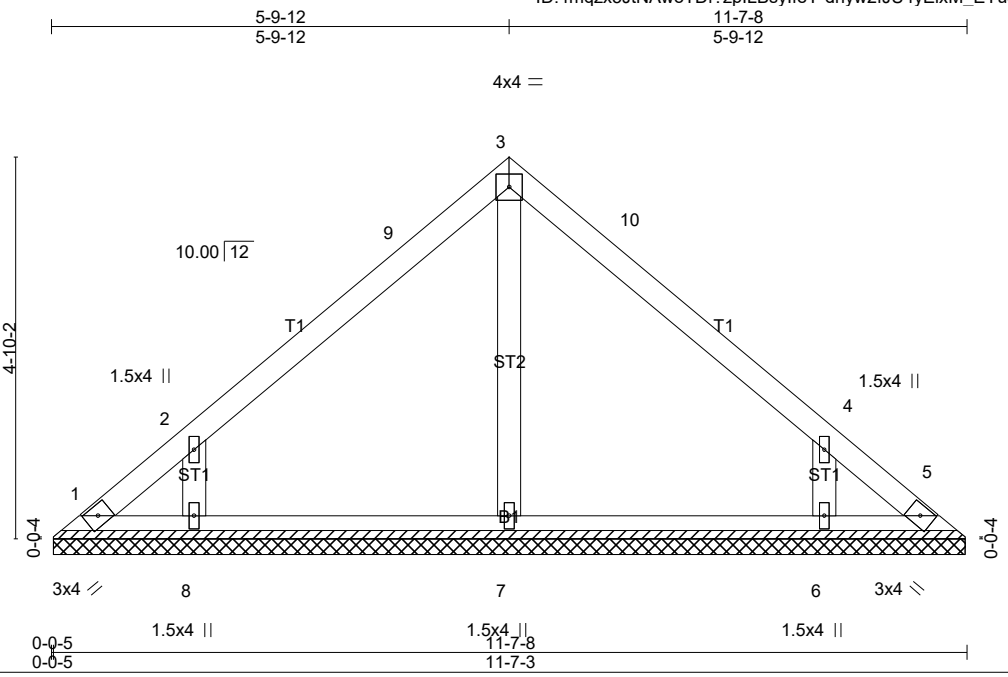


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 47 lb | FT = 20% |

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

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

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

**REACTIONS.** All bearings 11-6-14.
(lb) - Max Horz 1=111(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-164(LC 16), 6=-164(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=297(LC 2), 8=379(LC 29), 6=379(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-321/210, 4-6=-321/210

**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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=164, 6=164.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5E | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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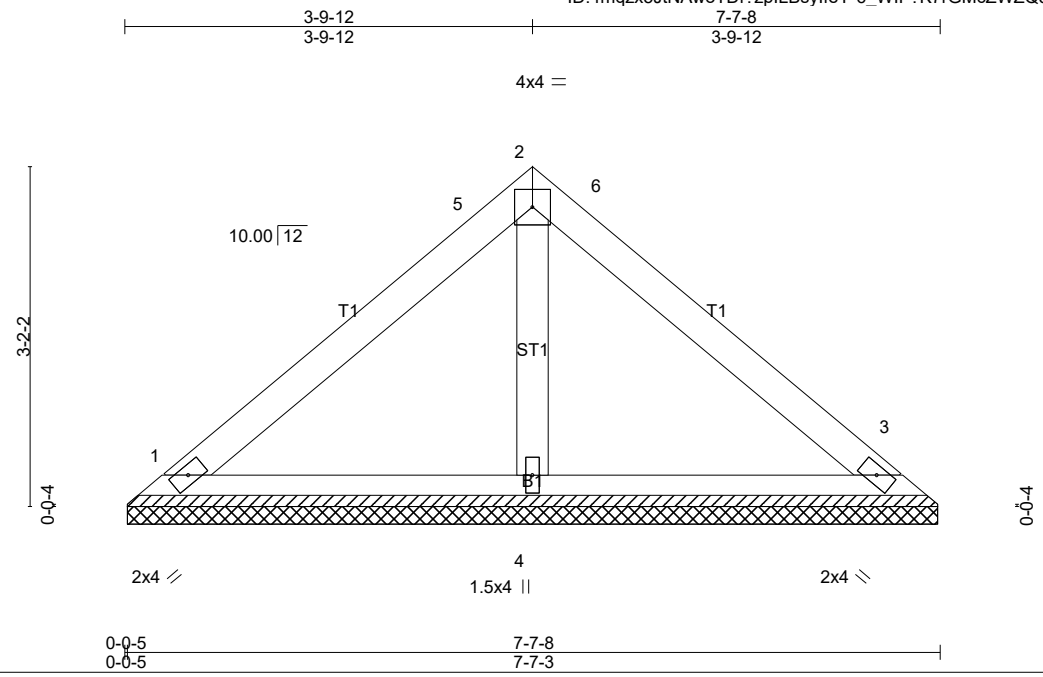


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.30 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 28 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=170/7-6-14 (min. 0-1-8), 3=170/7-6-14 (min. 0-1-8), 4=248/7-6-14 (min. 0-1-8)
Max Horz 1=-70(LC 12)
Max Uplift1=-33(LC 17), 3=-41(LC 17)
Max Grav 1=200(LC 2), 3=200(LC 2), 4=282(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 100 lb uplift at joint(s) 1, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V5F | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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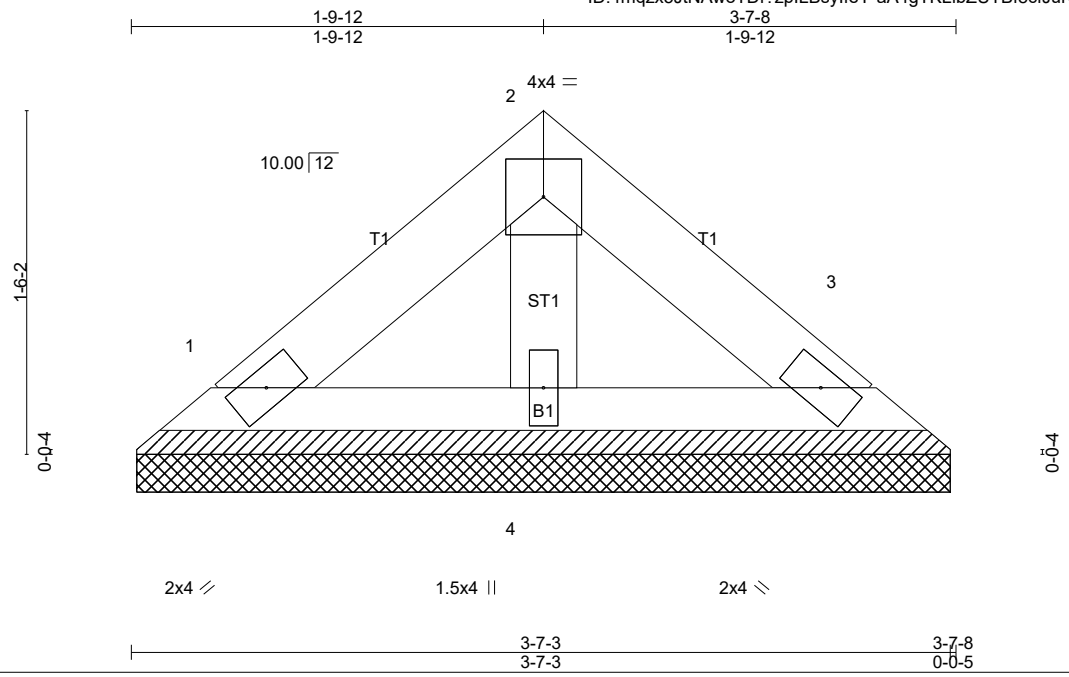


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 12 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 3-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** (lb/size) 1=70/3-6-14 (min. 0-1-8), 3=70/3-6-14 (min. 0-1-8), 4=102/3-6-14 (min. 0-1-8)
Max Horz 1=-29(LC 12)
Max Uplift 1=-14(LC 17), 3=-17(LC 17)
Max Grav 1=83(LC 2), 3=83(LC 2), 4=116(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 100 lb uplift at joint(s) 1, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V8A | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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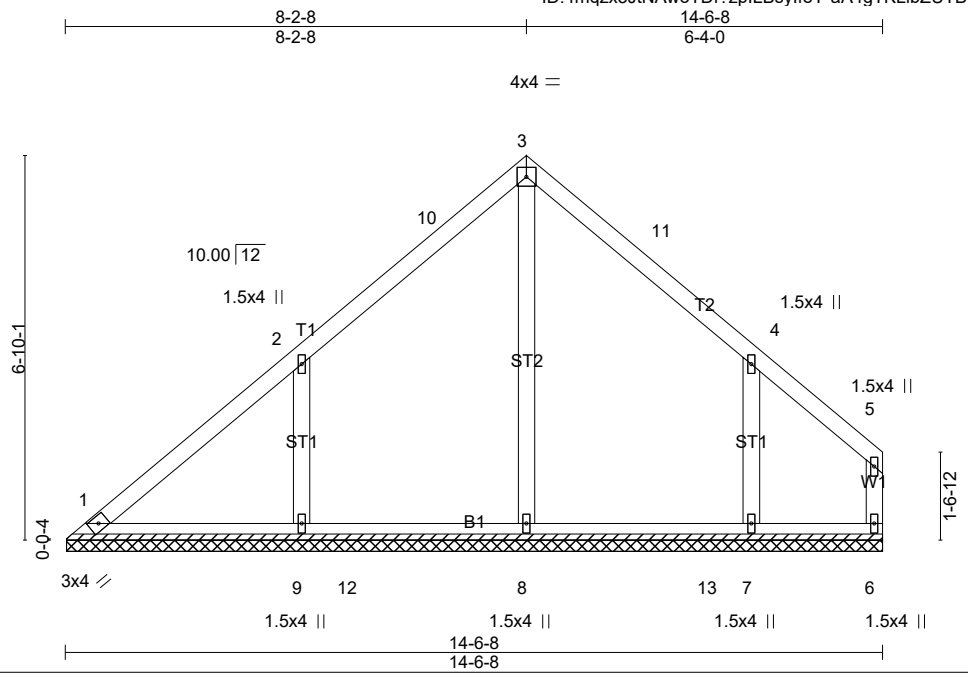


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.31 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.18 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | -0.00 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 69 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.** All bearings 14-6-3.
(lb) - Max Horz 1=178(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6 except 9=-197(LC 16), 7=-178(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=502(LC 29), 9=507(LC 29), 7=432(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-293/47, 2-9=-376/241, 4-7=-319/212

**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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 9=197, 7=178.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V8B | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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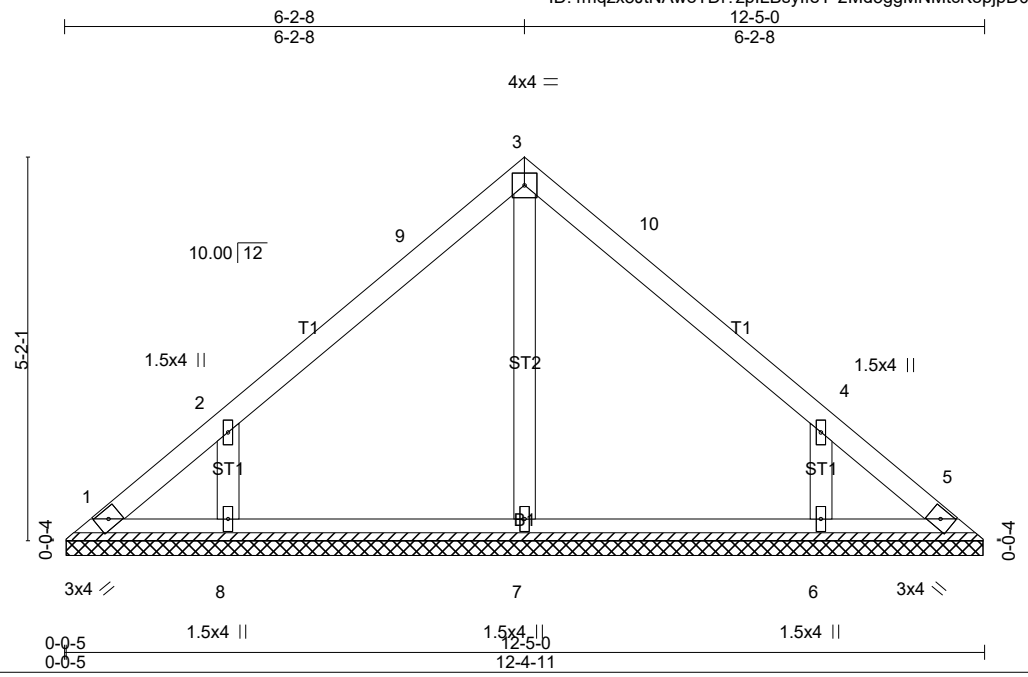


| **LOADING** (psf) | | **SPACING-** | 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 52 lb | FT = 20% |

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

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

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

**REACTIONS.** All bearings 12-4-6.
(lb) - Max Horz 1=120(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 16), 6=-162(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=299(LC 2), 8=378(LC 29), 6=378(LC 30)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-315/205, 4-6=-315/205

**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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=162.
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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V8C | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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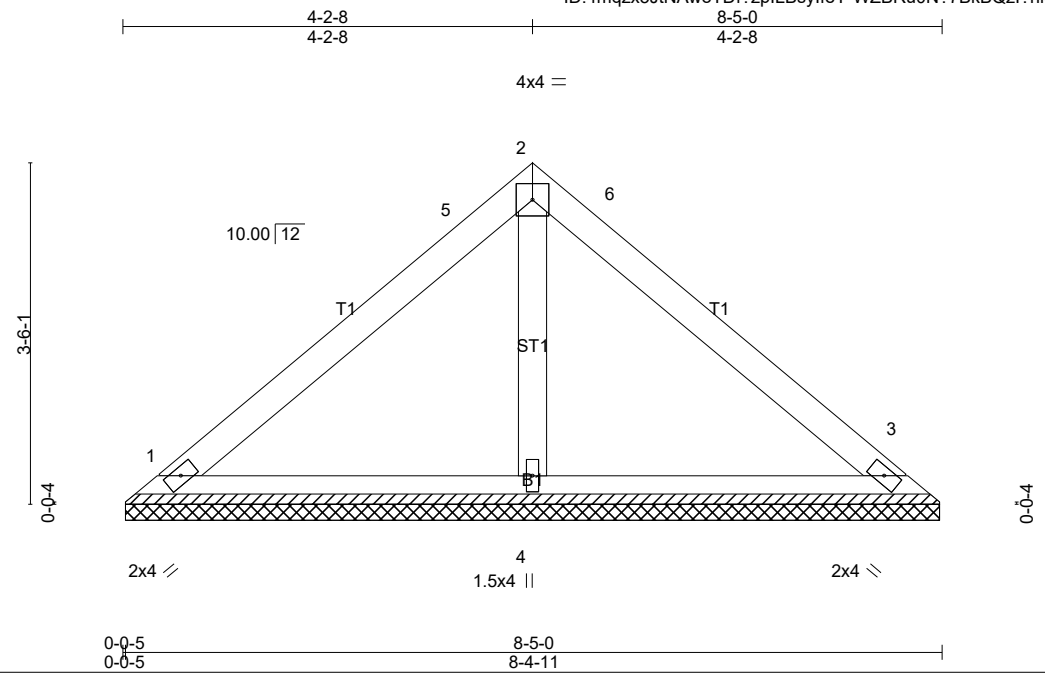


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | 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
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=190/8-4-6 (min. 0-1-8), 3=190/8-4-6 (min. 0-1-8), 4=277/8-4-6 (min. 0-1-8)
Max Horz 1=-78(LC 12)
Max Uplift1=-37(LC 17), 3=-46(LC 17)
Max Grav 1=223(LC 2), 3=223(LC 2), 4=314(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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 100 lb uplift at joint(s) 1, 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 | POSTON PLAN ROOF |
|---|---|---|---|---|---|
| 21-6297-A | V8D | Valley | 1 | 1 | Job Reference (optional) |

Riverside Roof Truss, LLC, Danville, VA. 24541, Debbie Layton

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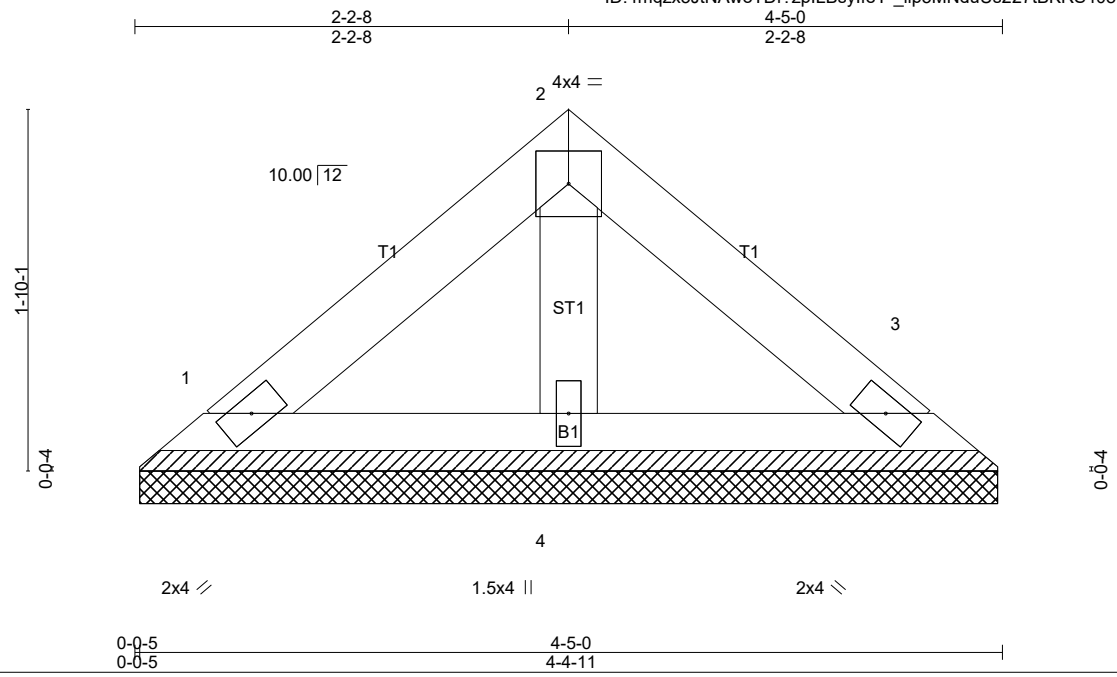


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 23.1/30.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 15 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-5-0 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=90/4-4-6 (min. 0-1-8), 3=90/4-4-6 (min. 0-1-8), 4=131/4-4-6 (min. 0-1-8)
Max Horz 1=-37(LC 12)
Max Uplift1=-17(LC 17), 3=-22(LC 17)
Max Grav 1=106(LC 2), 3=106(LC 2), 4=149(LC 2)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph 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
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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