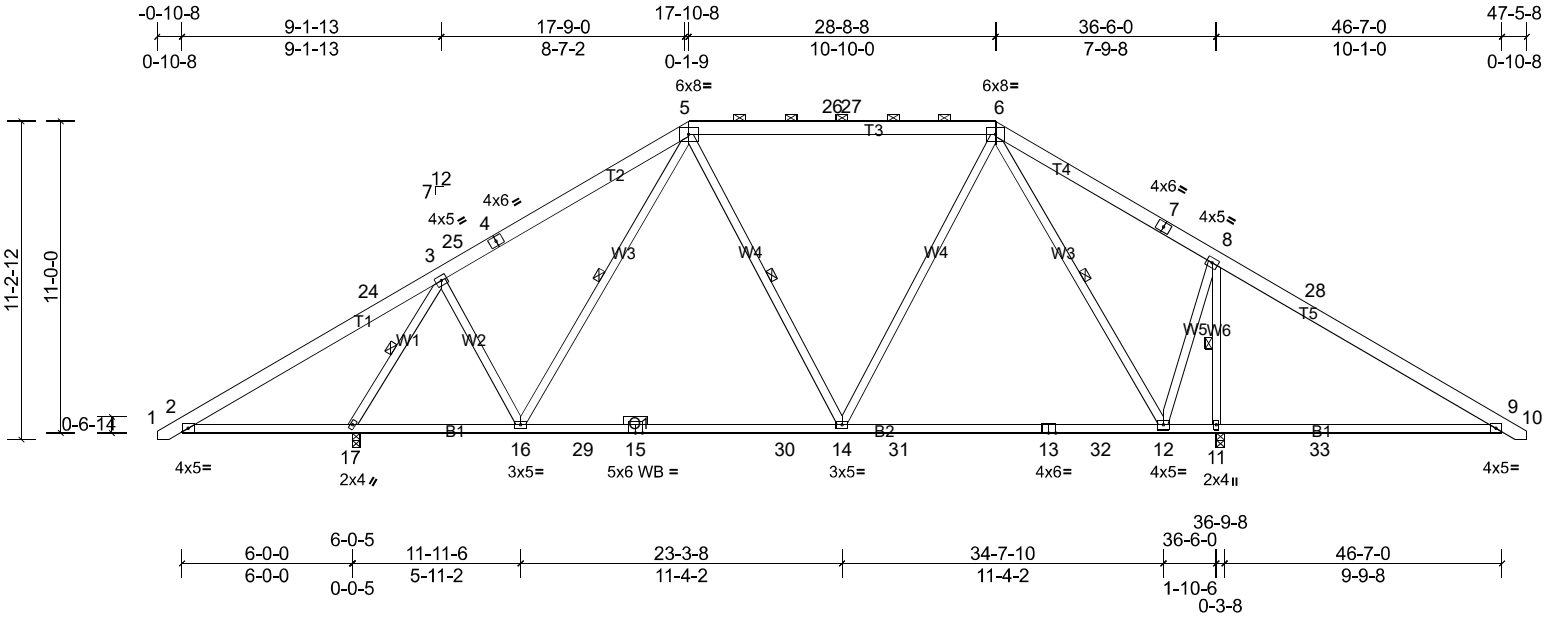
| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | A | Piggyback Base | 3 | 1 | Job Reference (optional) |






Scale = 1:81.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.83 | Vert(LL) | -0.41 | 14-16 | >888 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.65 | 14-16 | >566 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.02 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 303 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 *Except* T3:2x6 SP 2400F 2.0E |
| BOT CHORD | 2x4 SP No.2 *Except* B2:2x4 SP 2400F 2.0E |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**REACTIONS** (lb/size) 11=1956/0-3-8, (min. 0-2-12), 17=1489/0-3-8, (min. 0-2-1)
Max Horiz 17=-215 (LC 13)
Max Grav 11=2343 (LC 44), 17=1732 (LC 53)

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6. |
| BOT CHORD | Rigid ceiling directly applied or 4-1-1 oc bracing. |
| WEBS | 1 Row at midpt 5-16, 5-14, 6-12, 3-17, 8-11 |

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

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

| | |
|---|---|
| TOP CHORD | 2-24=-325/587, 3-24=-276/758, 3-25=-1028/103, 4-25=-999/110, 4-5=-844/165, 5-26=-765/133, 26-27=-765/133, 6-27=-765/133, 6-7=-136/436, 8-28=-366/917, 9-28=-420/721 |
| BOT CHORD | 2-17=-507/365, 16-17=-135/714, 16-29=-58/822, 15-29=-58/822, 15-30=-58/822, 14-30=-58/822, 14-31=-15/599, 13-31=-15/599, 13-32=-15/599, 12-32=-15/599, 11-12=-623/448, 11-33=-623/448, 9-33=-623/448 |
| WEBS | 6-14=-16/634, 6-12=-1225/324, 3-16=-3/519, 3-17=-1860/412, 8-12=-24/1308, 8-11=-2129/427 |

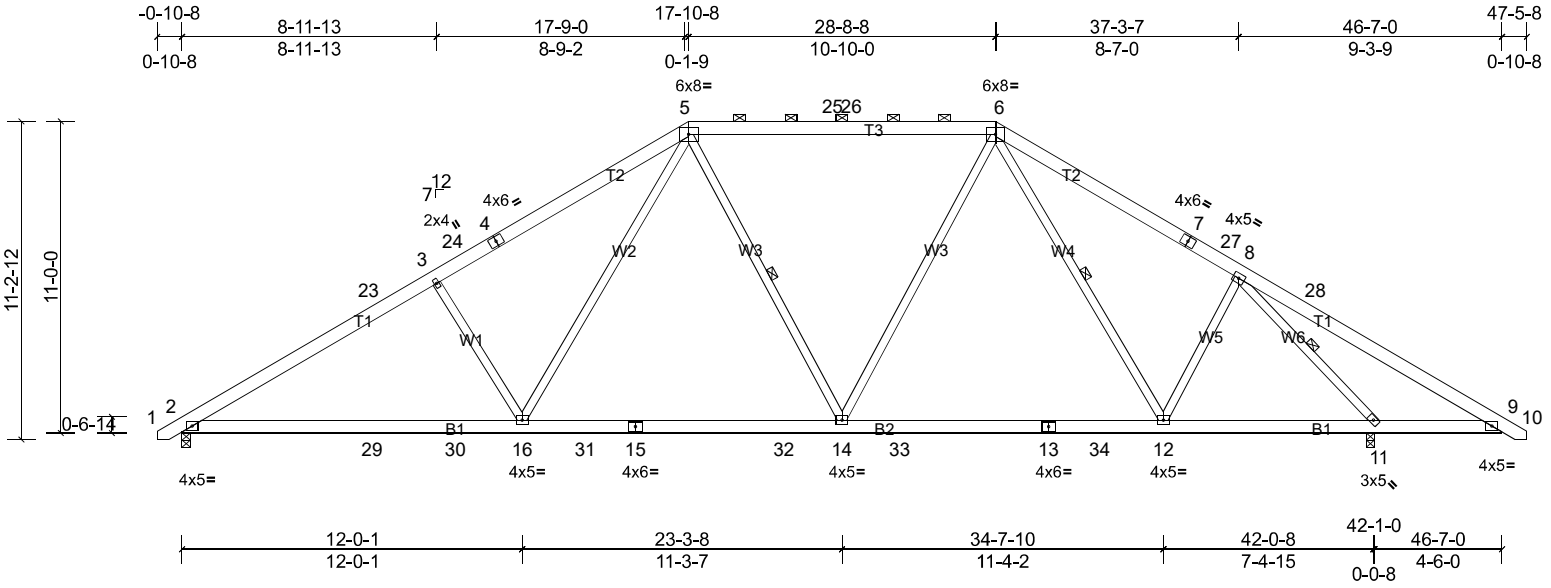
**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | AA | Piggyback Base | 6 | 1 | Job Reference (optional) |






Scale = 1:81.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.77 | Vert(LL) | -0.19 | 12-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.33 | 12-14 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 332 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

**REACTIONS** (lb/size) 2=1545/0-3-8, (min. 0-2-3), 11=1899/0-3-8, (min. 0-2-10)
Max Horiz 2=215 (LC 14)
Max Grav 2=1871 (LC 46), 11=2199 (LC 38)

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

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

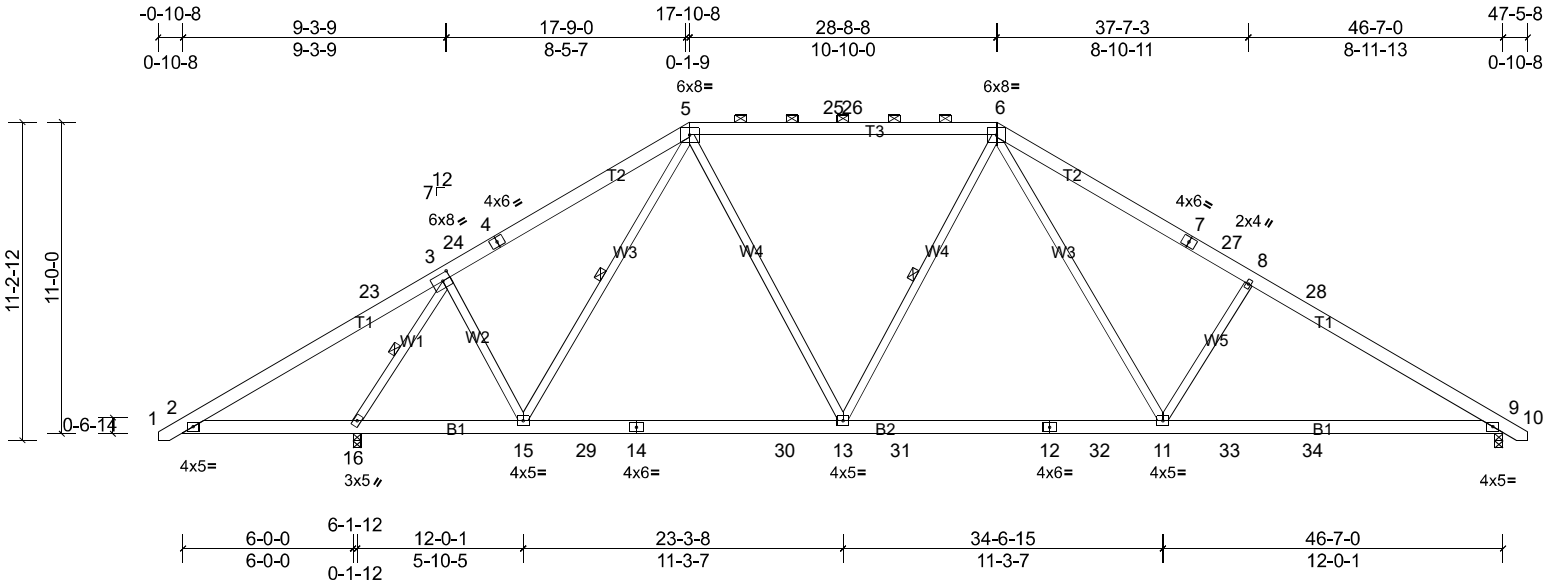
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-3080/428, 3-23=-2919/459, 3-24=-2882/463, 4-24=-2841/464, 4-5=-2697/520, 5-25=-1816/399, 25-26=-1816/399, 6-26=-1816/399, 6-7=-1865/399, 7-27=-2014/344, 8-27=-2038/338, 8-28=-189/578, 9-28=-243/432
BOT CHORD 2-29=-264/2764, 29-30=-264/2764, 16-30=-264/2764, 16-31=-59/1852, 15-31=-59/1852, 15-32=-59/1852, 14-32=-59/1852, 14-33=-20/1577, 13-33=-20/1577, 13-34=-20/1577, 12-34=-20/1577, 11-12=-69/1495, 9-11=-373/305
WEBS 5-16=-125/1147, 3-16=-696/283, 6-14=0/592, 8-12=-25/496, 8-11=-2643/526

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | AB | Piggyback Base | 5 | 1 | Job Reference (optional) |






Scale = 1:81.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.17 | 11-13 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.29 | 13-15 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 330 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

**REACTIONS** (lb/size) 9=1468/0-3-8, (min. 0-2-2), 16=1977/0-3-8, (min. 0-2-11)
Max Horiz 16=215 (LC 14)
Max Grav 9=1786 (LC 48), 16=2289 (LC 38)

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-16.
WEBS 1 Row at midpt 3-16, 5-15, 6-13

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

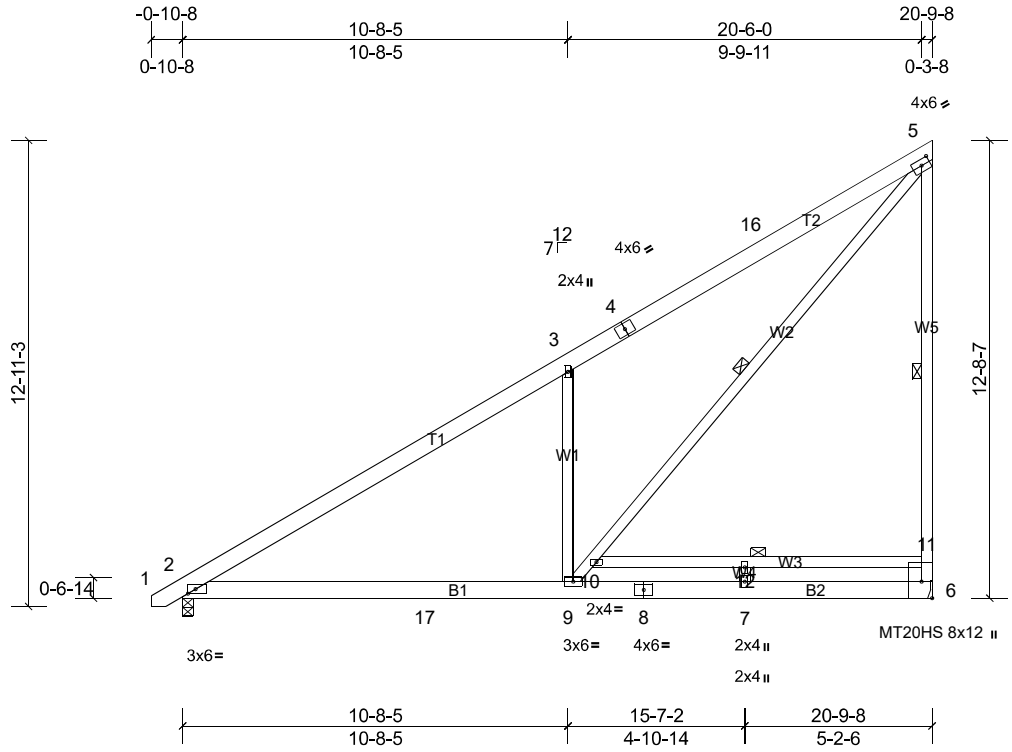
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-305/556, 3-23=-252/709, 3-24=-1545/221, 4-24=-1514/227, 4-5=-1363/283, 5-25=-1618/354, 25-26=-1618/354, 6-26=-1618/354, 6-7=-2533/480, 7-27=-2677/424, 8-27=-2718/423, 8-28=-2755/420, 9-28=-2916/388
BOT CHORD 2-16=-481/353, 15-16=-86/1010, 15-29=0/1362, 14-29=0/1362, 14-30=0/1362, 13-30=0/1362, 13-31=-21/1659, 12-31=-21/1659, 12-32=-21/1659, 11-32=-21/1659, 11-33=-227/2462, 33-34=-227/2462, 9-34=-227/2462
WEBS 3-16=-2444/518, 3-15=0/772, 5-15=-486/124, 5-13=0/683, 6-13=-266/145, 6-11=-125/1150, 8-11=-697/283

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 9. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | AD1 | Jack-Closed | 11 | 1 | Job Reference (optional) |






Scale = 1:63.9

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.91 | Vert(LL) | -0.11 | 9-15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.24 | 9-15 | >999 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.51 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 170 lb | FT = 20% |

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

**REACTIONS** (lb/size) 2=766/0-3-8, (min. 0-1-8), 6=731/ Mechanical, (min. 0-1-8)
Max Horiz 2=376 (LC 14)
Max Uplift 6=-54 (LC 15)
Max Grav 2=909 (LC 29), 6=946 (LC 29)

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 5-9, 10-11

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

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1146/173, 3-4=-1232/369, 4-16=-1132/399, 5-16=-1129/432, 6-11=-867/323, 5-11=-868/335
BOT CHORD 2-17=-359/1001, 9-17=-359/1001
WEBS 3-9=-794/428, 9-10=-430/1493, 5-10=-401/1511

**NOTES**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | ADE | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

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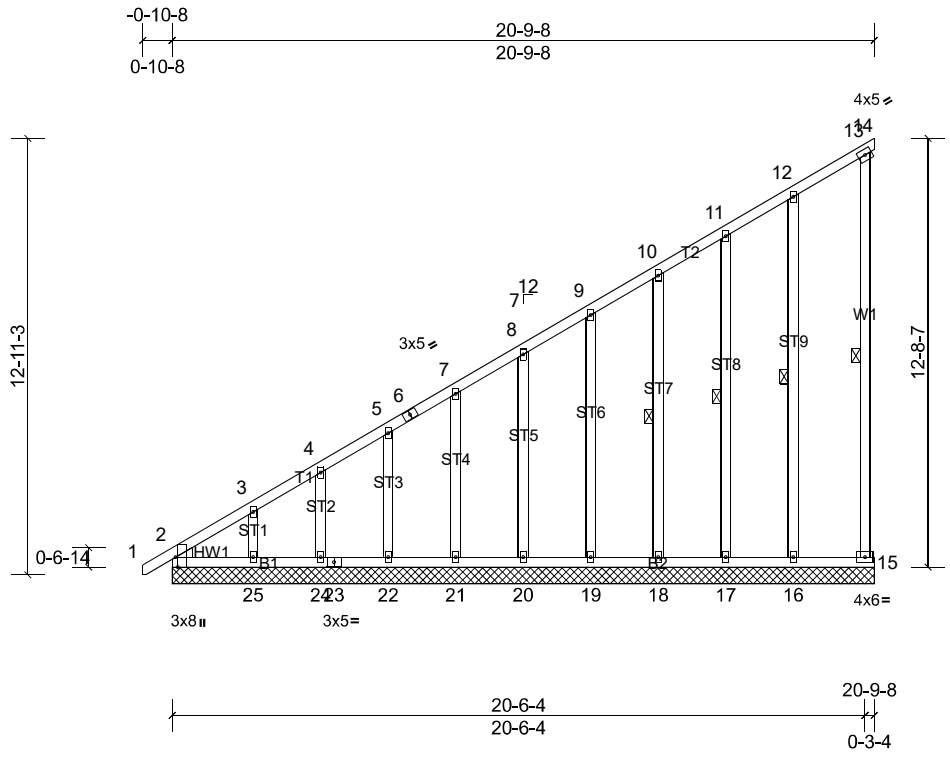


Scale = 1:68.2

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

| Loading | (psf) | Spacing | 1-11-4 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.84 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.41 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | -0.01 | 14 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 169 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.1 |
| OTHERS | 2x4 SP No.2 *Except* ST4,ST3,ST2,ST1:2x4 SP No.3 |
| WEDGE | Left: 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 13-15, 10-18, 11-17, 12-16 |

**REACTIONS** All bearings 20-9-8.
(lb) - Max Horiz 2=368 (LC 14), 26=368 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26 except 14=-173 (LC 11), 15=-310 (LC 14)
Max Grav All reactions 250 (lb) or less at joint(s) 2, 14, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26 except 15=279 (LC 11)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-617/569, 3-4=-549/503, 4-5=-507/471, 5-6=-458/409, 6-7=-451/430, 7-8=-411/390, 8-9=-363/351, 9-10=-315/311, 10-11=-266/270, 13-15=-322/259
BOT CHORD 2-25=-286/283

**NOTES**
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14, 15, 2, 20, 21, 22, 24, 25, 19, 18, 17, and 16. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | AE | Piggyback Base Supported Gable | 1 | 1 | Job Reference (optional) |

Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Wed Apr 01 08:15:44 Page: 1
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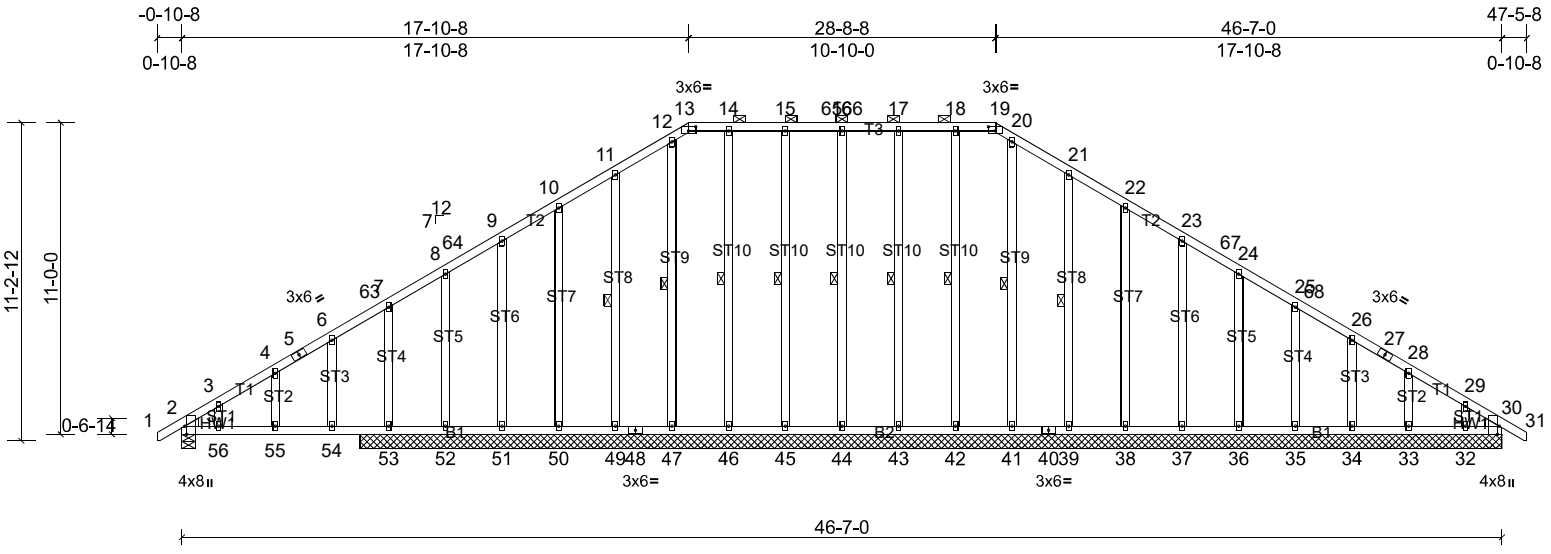



Scale = 1:81.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [13:0-3-0,0-1-12], [19:0-3-0,0-1-12], [30:0-3-8,Edge]

| Loading | (psf) | Spacing | 1-11-4 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.44 | Vert(LL) | 0.09 | 55 | >994 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 18.9/20.0 | Lumber DOL | 1.15 | BC | 0.54 | Vert(CT) | -0.18 | 55 | >492 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 375 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except* ST4,ST3,ST2,ST1:2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 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.): 13-19.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 16-44, 15-45, 14-46, 12-47, 11-49, 17-43, 18-42, 20-41, 21-39

**REACTIONS** All bearings 40-3-8. except 2=0-5-8
(lb) - Max Horiz 2=-210 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 30, 32, 33, 34, 35, 36, 37, 38, 39, 43, 44, 45, 49, 50, 51, 53, 60 except 52=-153 (LC 29)
Max Grav All reactions 250 (lb) or less at joint(s) 30, 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 49, 50, 52, 60 except 2=363 (LC 2), 51=276 (LC 38), 53=696 (LC 29)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-254/179, 10-11=-289/224, 11-12=-341/280, 12-13=-298/253, 13-14=-303/264, 14-15=-303/264, 15-65=-303/264, 16-65=-303/264, 16-66=-303/264, 17-66=-303/264, 17-18=-303/264, 18-19=-303/264, 19-20=-298/253, 20-21=-341/280, 21-22=-290/225, 22-23=-251/178
WEBS 7-53=-361/136

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
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=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 2x4 MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 30, 44, 45, 46, 47, 49, 50, 51, 52, 53, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, and 32. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

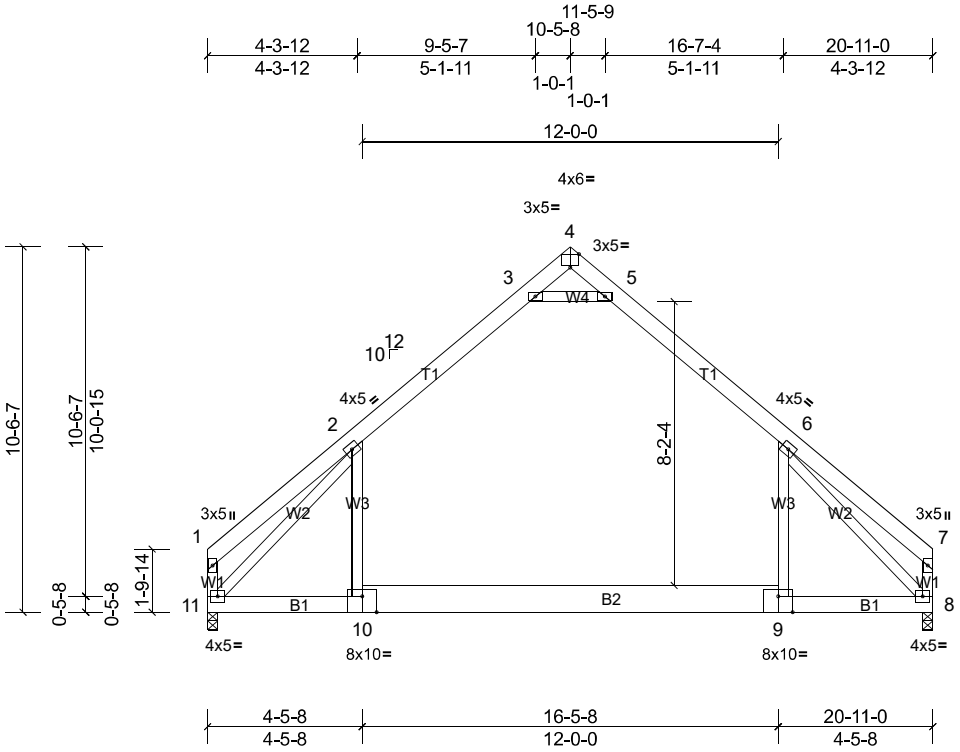
Continued on page 2

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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | B | Attic | 8 | 1 | Job Reference (optional) |






Scale = 1:66.5

4-5-8 / 4-5-8 | 16-5-8 / 12-0-0 | 20-11-0 / 4-5-8

Plate Offsets (X, Y): [4:0-3-0,Edge], [9:0-5-0,Edge], [10:0-5-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.64 | Vert(LL) | -0.35 | 9-10 | >705 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.42 | Vert(CT) | -0.51 | 9-10 | >484 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.61 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | Attic | -0.18 | 9-10 | >809 | 360 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 170 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W4,W2:2x4 SP No.2

**REACTIONS** (lb/size) 8=887/0-3-8, (min. 0-1-8), 11=887/0-3-8, (min. 0-1-8)
Max Horiz 11=211 (LC 10)
Max Grav 8=1289 (LC 26), 11=1289 (LC 25)

**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.

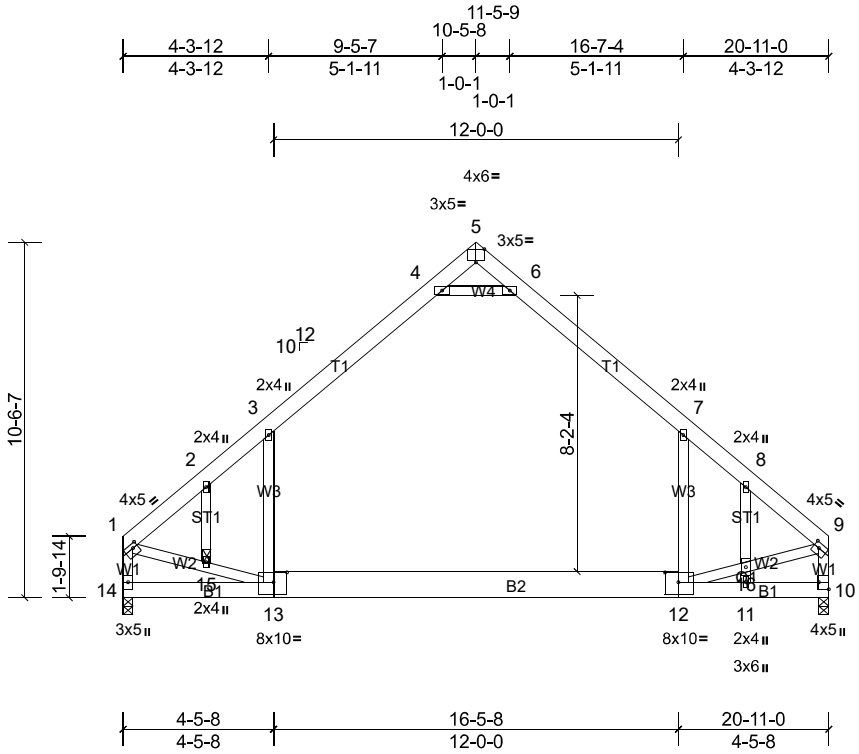
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-517/144, 2-3=-921/152, 3-4=-110/866, 4-5=-110/866, 5-6=-920/152, 6-7=-517/144, 1-11=-581/128, 7-8=-581/128
BOT CHORD 10-11=0/814, 9-10=0/851, 8-9=0/802
WEBS 6-9=0/676, 2-10=0/676, 3-5=-1885/347, 2-11=-1022/0, 6-8=-1021/0

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-9, 2-10
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 9-10
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
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) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | BE | Attic | 1 | 1 | Job Reference (optional) |






Scale = 1:68.3

Plate Offsets (X, Y): [1:0-1-12,0-1-8], [5:0-3-0,Edge], [9:0-2-0,0-1-12], [10:Edge,0-3-8], [12:0-4-12,0-3-8], [13:0-4-12,0-3-8]

| Loading | (psf) | Spacing | 1-11-4 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.58 | Vert(LL) | -0.30 | 12-13 | >833 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(CT) | -0.44 | 12-13 | >569 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | Attic | -0.15 | 12-13 | >935 | 360 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 173 lb | FT = 20% |

**LUMBER**

| | |
|---|---|
| TOP CHORD | 2x6 SP 2400F 2.0E |
| BOT CHORD | 2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E |
| WEBS | 2x4 SP No.3 *Except* W4:2x4 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| JOINTS | 1 Brace at Jt(s): 15 |

**REACTIONS** (lb/size) 10=858/0-3-8, (min. 0-1-8), 14=858/0-3-8, (min. 0-1-8)
Max Horiz 14=204 (LC 10)
Max Grav 10=1247 (LC 26), 14=1247 (LC 25)

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

| | |
|---|---|
| TOP CHORD | 1-2=-1244/0, 2-3=-1210/1, 3-4=-899/148, 4-5=-105/820, 5-6=-106/835, 6-7=-885/147, 7-8=-1364/13, 8-9=-1143/0, 1-14=-1232/0, 9-10=-1052/0 |
| BOT CHORD | 13-14=-195/286, 12-13=0/842 |
| WEBS | 7-12=-14/796, 3-13=-45/537, 4-6=-1830/334, 1-15=0/769, 13-15=0/742, 12-16=0/734, 9-16=0/745, 8-16=-481/57, 11-16=-449/41 |

**NOTES**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
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=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) Gable studs spaced at 2-0-0 oc.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).7-12, 3-13
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-13
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | BG | Common | 1 | 2 | Job Reference (optional) |

Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Wed Apr 01 08:15:45 Page: 1
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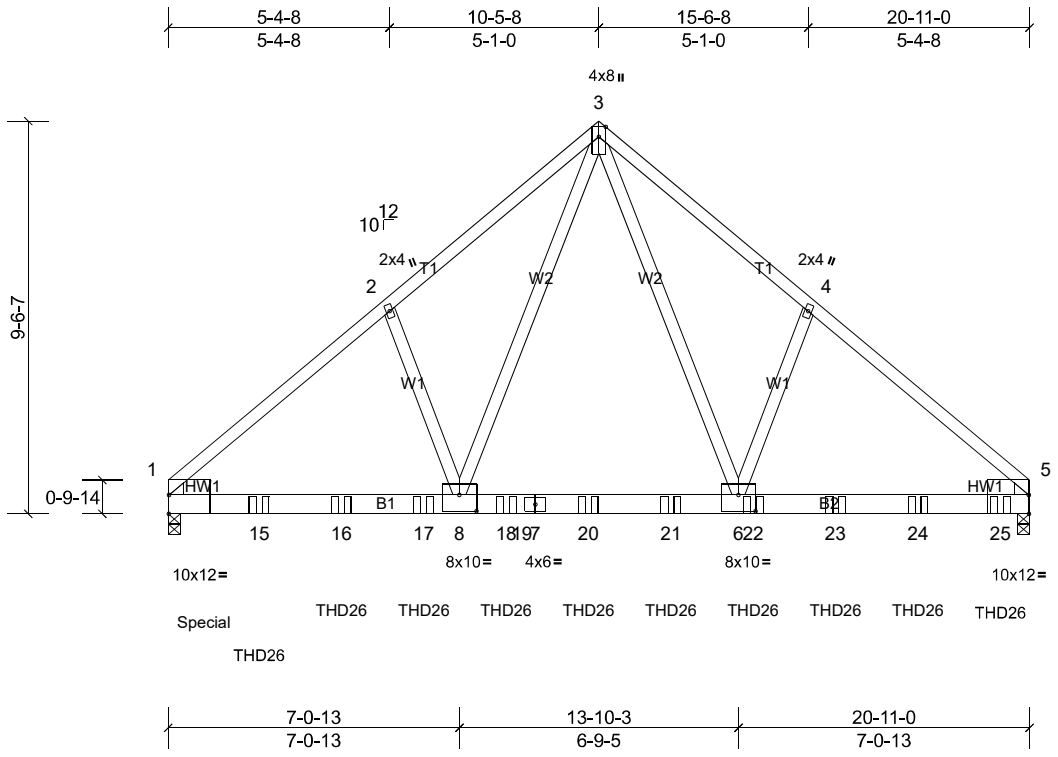


Scale = 1:56

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

| Loading | (psf) | Spacing | 1-11-4 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.09 | 6-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.48 | Vert(CT) | -0.18 | 6-8 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 266 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=5511/0-3-8, (min. 0-2-5), 5=5267/0-3-8, (min. 0-2-4)
Max Horiz 1=167 (LC 29)
Max Uplift 1=-316 (LC 9), 5=-300 (LC 10)
Max Grav 1=5609 (LC 2), 5=5367 (LC 2)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5587/344, 2-3=-5474/432, 3-4=-5514/435, 4-5=-5623/346
BOT CHORD 1-15=-266/4270, 15-16=-266/4270, 16-17=-266/4270, 8-17=-266/4270, 8-18=-132/2942, 18-19=-132/2942, 7-19=-132/2942, 7-20=-132/2942, 20-21=-132/2942, 6-21=-132/2942, 6-22=-210/4247, 22-23=-210/4247, 23-24=-210/4247, 24-25=-210/4247, 5-25=-210/4247
WEBS 3-6=-307/3609, 4-6=-304/136, 3-8=-301/3528, 2-8=-304/144

**NOTES**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
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 USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-2-8 from the left end to 20-2-8 to connect truss(es) AD1 (1 ply 2x6 SP) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 851 lb down and 66 lb up at 0-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-3=-52, 3-5=-52, 9-12=-19
   Concentrated Loads (lb)
   Vert: 9=-851, 15=-843, 16=-843, 17=-843, 18=-843, 20=-843, 21=-843, 22=-843, 23=-843, 24=-843, 25=-846

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | BG2 | Attic Girder | 1 | 3 | Job Reference (optional) |

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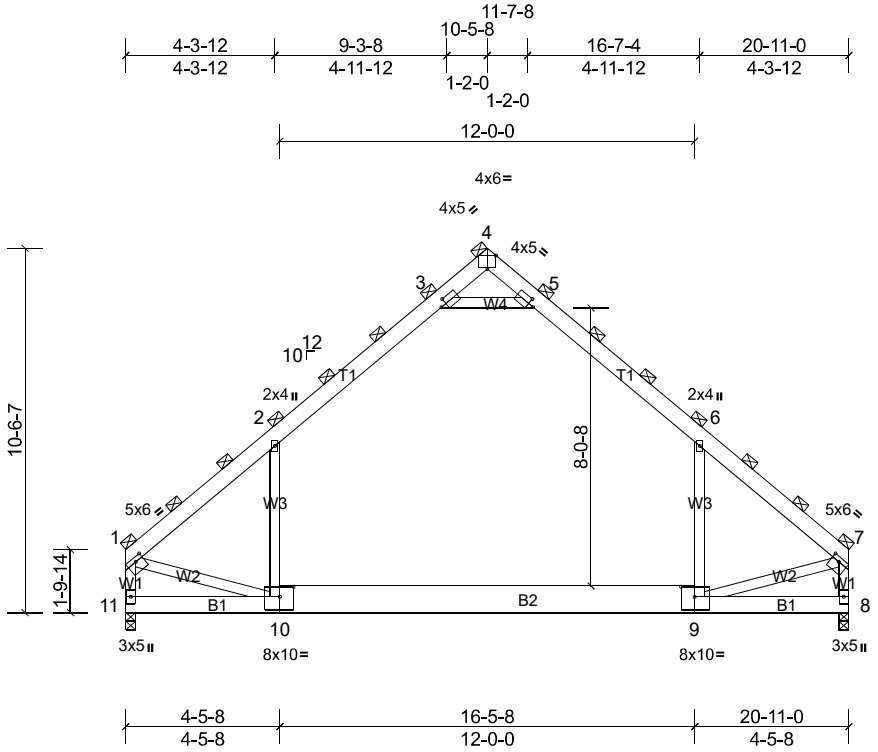



Scale = 1:66.6

Plate Offsets (X, Y): [1:0-2-12,0-1-8], [3:0-2-1,0-2-0], [4:0-3-0,Edge], [5:0-2-1,0-2-0], [7:0-2-12,0-1-8], [9:0-4-12,0-3-8], [10:0-4-12,0-3-8]

| Loading | (psf) | Spacing | 6-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.62 | Vert(LL) | -0.32 | 9-10 | >773 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.41 | Vert(CT) | -0.46 | 9-10 | >533 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.28 | Horz(CT) | 0.00 | 8 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | Attic | -0.17 | 9-10 | >842 | 360 | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 497 lb | FT = 20% |

**LUMBER**
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP No.2 *Except* B2:2x10 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* W4,W1:2x4 SP No.2

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

**REACTIONS** (lb/size) 8=2655/0-3-8, (min. 0-1-8), 11=2655/0-3-8, (min. 0-1-8)
Max Horiz 11=632 (LC 6)
Max Grav 8=3862 (LC 22), 11=3862 (LC 21)

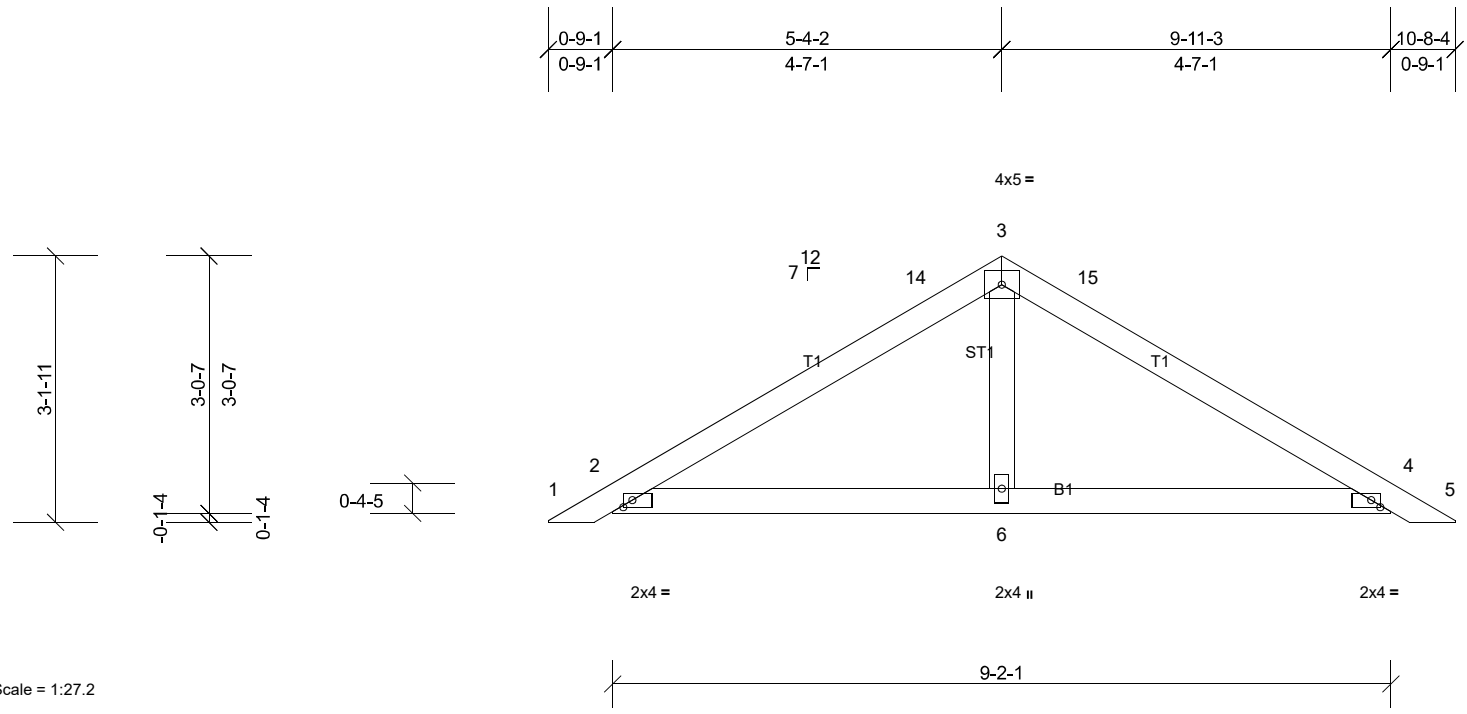
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3924/0, 2-3=-2754/75, 3-4=-11/2256, 4-5=-11/2256, 5-6=-2754/75, 6-7=-3923/0, 1-11=-3808/0, 7-8=-3809/0
BOT CHORD 10-11=-610/919, 9-10=0/2589, 8-9=-56/452
WEBS 6-9=-216/1553, 2-10=-216/1553, 3-5=-5242/11, 1-10=0/2317, 7-9=0/2324

**NOTES**
1) 3-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, 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).6-9, 2-10
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 9-10
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | PB | Piggyback | 14 | 1 | Job Reference (optional) |






Scale = 1:27.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.25 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 36 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 9-2-1.
(lb) - Max Horiz 2=59 (LC 14), 7=59 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11
Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 7, 11 except 6=350 (LC 2)

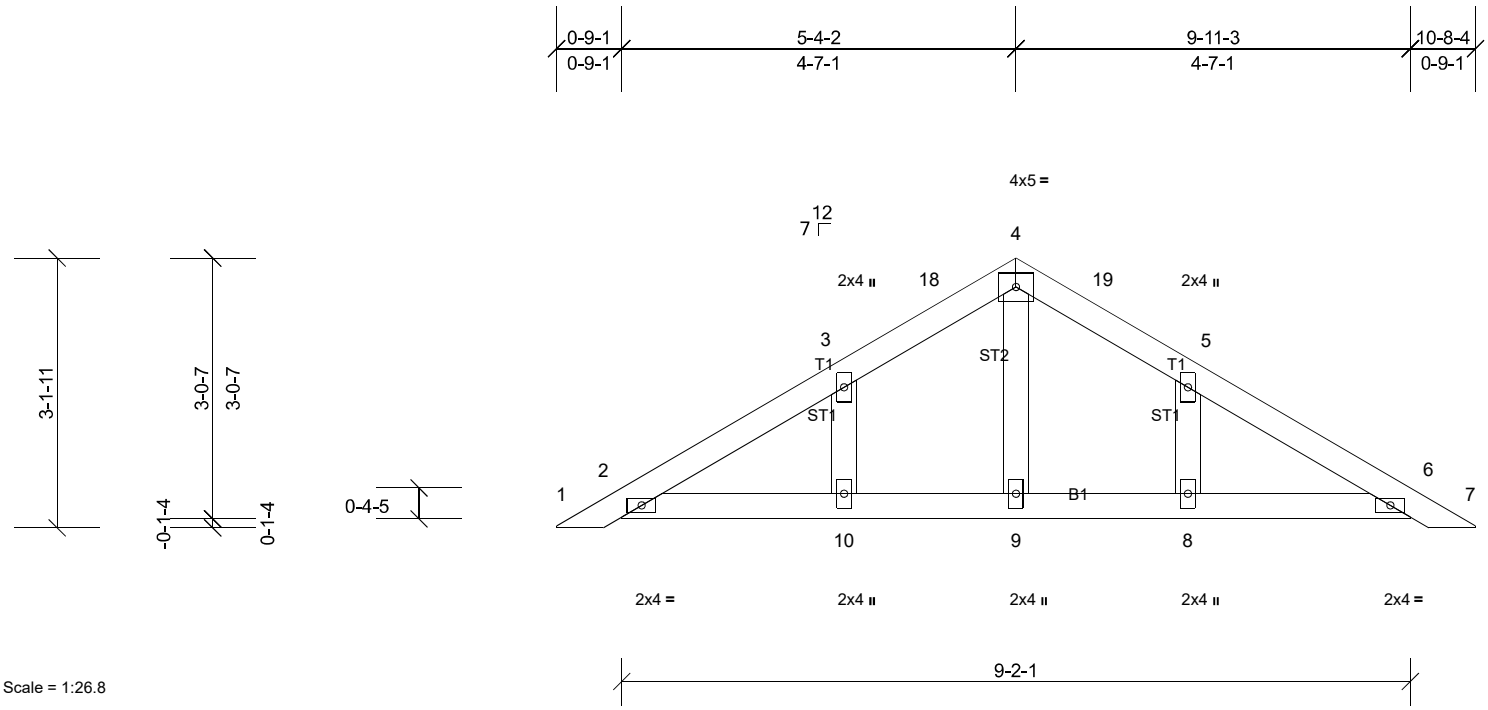
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
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=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 4, and 6. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | PBE | Piggyback | 1 | 1 | Job Reference (optional) |






Scale = 1:26.8

| Loading | (psf) | Spacing | 1-11-4 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | n/a | - | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 40 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.

**REACTIONS** All bearings 9-2-1.
(lb) - Max Horiz 2=-57 (LC 13), 11=-57 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 10
Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 10, 11, 15

**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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
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=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully 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 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 9, 10, and 8. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | VD | Valley | 1 | 1 | Job Reference (optional) |

Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Wed Apr 01 08:15:46 Page: 1
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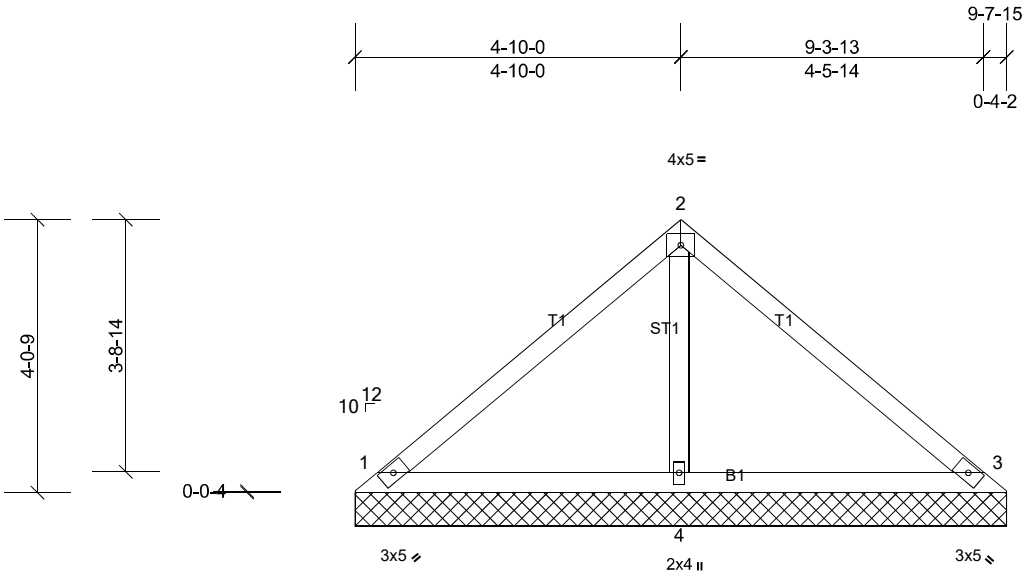


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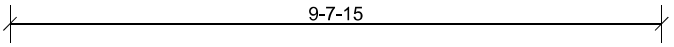



| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.07 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 37 lb | FT = 20% |

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

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

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

**REACTIONS** (lb/size) 1=167/9-7-15, (min. 0-1-8), 3=169/9-7-15, (min. 0-1-8), 4=321/9-7-15, (min. 0-1-8)
Max Horiz 1=-73 (LC 11)
Max Uplift 3=-2 (LC 14)
Max Grav 1=197 (LC 2), 3=199 (LC 2), 4=371 (LC 2)

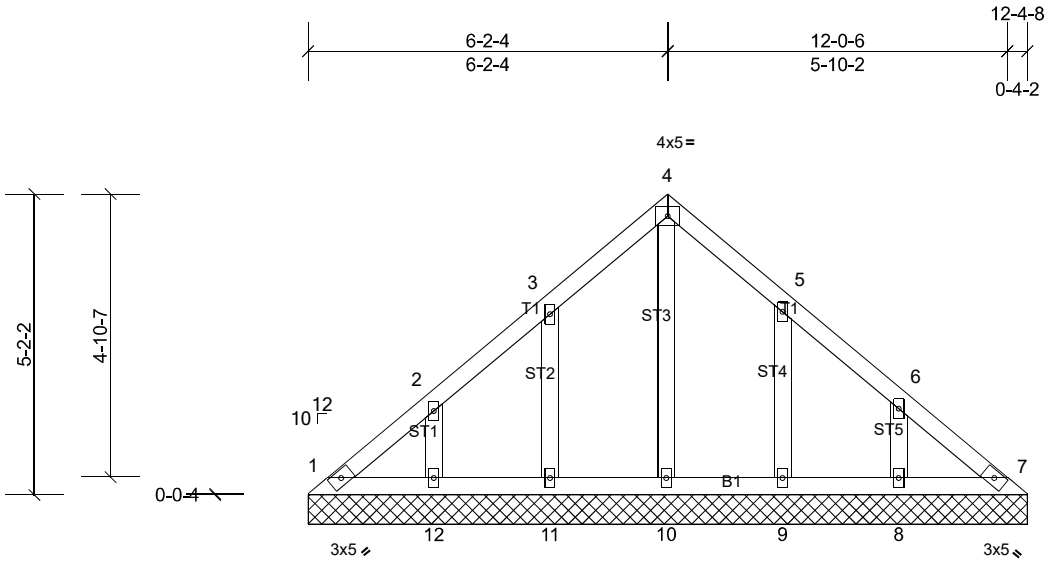
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 3, and 4. This connection is for uplift only and does not consider lateral forces.
7) 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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | VE | Valley | 1 | 1 | Job Reference (optional) |



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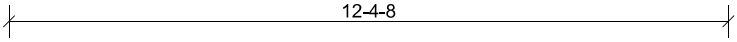


| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horiz(TL) | 0.00 | 7 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-SH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 60 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 12-4-8.
(lb) - Max Horiz 1=-96 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 11, 12
Max Grav All reactions 250 (lb) or less at joint(s) 1, 7, 8, 9, 10, 11, 12

**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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
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=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 7, 10, 11, 12, 9, and 8. This connection is for uplift only and does not consider lateral forces.
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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | VG | Valley | 1 | 1 | Job Reference (optional) |

Run: 8.32 S Nov 19 2019 Print: 8.320 S Nov 19 2019 MiTek Industries, Inc. Wed Apr 01 08:15:46 Page: 1
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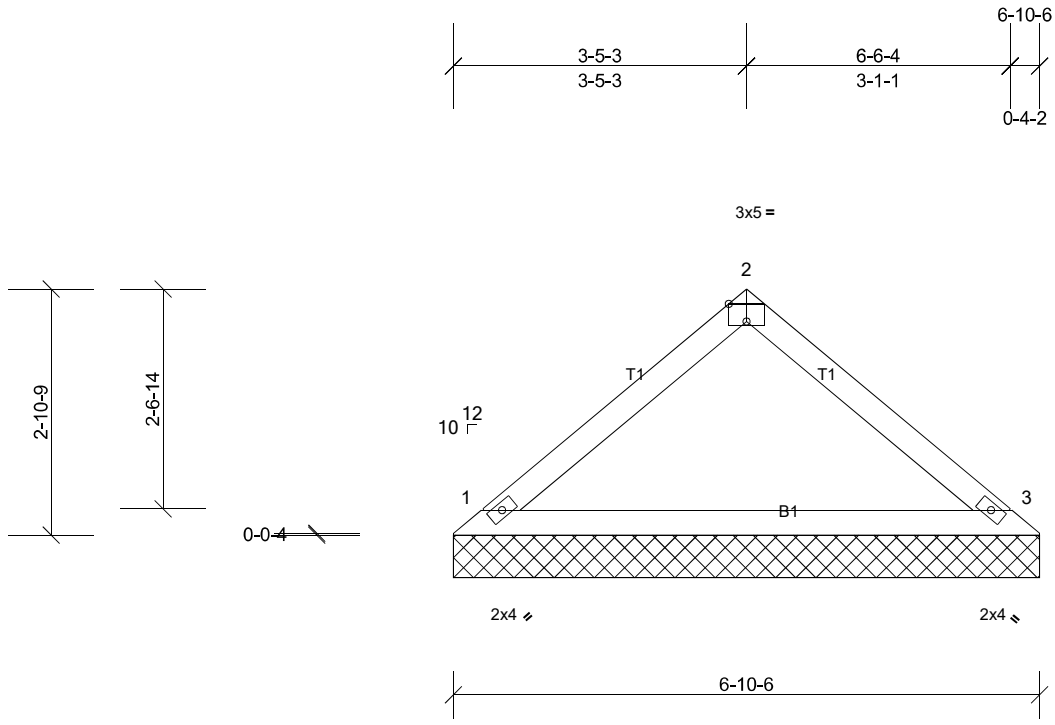



Scale = 1:27

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.35 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 22 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 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=225/6-10-6, (min. 0-1-8), 3=225/6-10-6, (min. 0-1-8)
Max Horiz 1=50 (LC 12)
Max Grav 1=263 (LC 2), 3=263 (LC 2)

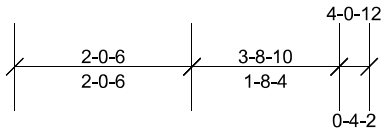
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

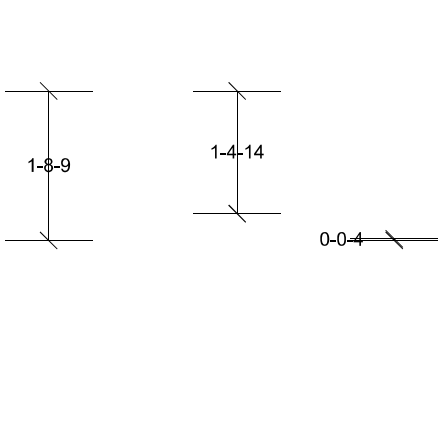
**NOTES**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
7) 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 | |
|---|---|---|---|---|---|
| Lamco_Kristie Bonus_Engr | VI | Valley | 1 | 1 | Job Reference (optional) |






Scale = 1:26.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 13.9/20.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | n/a | - | n/a | n/a | | |
| BCLL | 0.0 * | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 13 lb | FT = 20% |

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

**BRACING**
TOP CHORD Structural wood sheathing directly applied or 4-1-6 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=122/4-0-12, (min. 0-1-8), 3=122/4-0-12, (min. 0-1-8)
Max Horiz 1=-27 (LC 11)
Max Grav 1=142 (LC 2), 3=142 (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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) 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=1.33
3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
7) 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