

| | | | | | |
|-------------------|----------------|---------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss A1-GE | Truss Type GABLE | Qty 2 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|----------------|---------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:34 2020 Page 1
 ID:aOkUD_LpNKHsjubZlgKKTmz9dal-cGrv1VhldFKygsOT2eXEM2plnxbxrdD84XNAEMz85Ux

-0-10-8 16-7-8 32-4-8 33-3-0
 0-10-8 15-9-0 15-9-0 0-10-8

Scale = 1:70.9

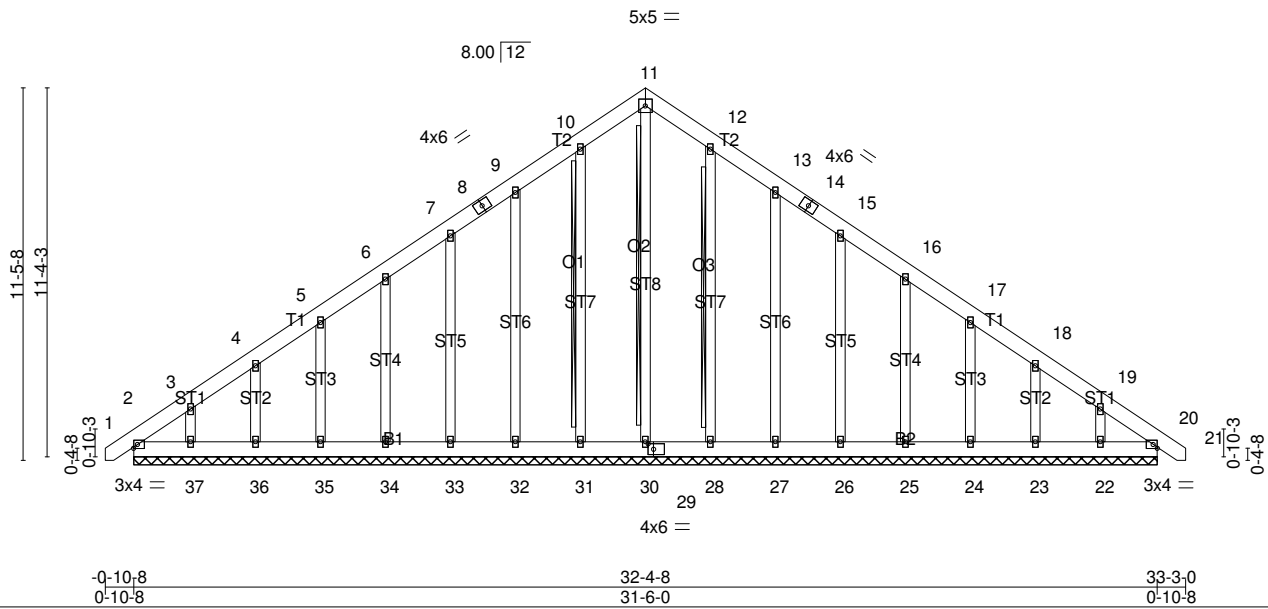


Plate Offsets (X,Y)-- [29:0-2-0,0-2-0]

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.05 | Vert(LL) 0.00 20 n/r 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.03 | Vert(CT) 0.00 20 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.18 | Horz(CT) 0.01 20 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | |
| | | | | Weight: 290 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 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.
 WEBS T-Brace: 2x4 SPF No.2 - 11-30, 10-31, 12-28
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

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

REACTIONS. All bearings 31-6-0.
 (lb) - Max Horz 2=-330(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23 except 2=-108(LC 8), 37=-143(LC 12), 27=-103(LC 13), 22=-132(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 20, 30, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-371/268, 3-4=-262/218, 9-10=-218/256, 10-11=-253/282, 11-12=-253/282, 19-20=-292/193
 BOT CHORD 2-37=-163/258, 36-37=-163/258, 35-36=-163/258, 34-35=-163/258, 33-34=-163/258, 32-33=-163/258, 31-32=-163/258, 30-31=-163/258, 29-30=-163/258, 28-29=-163/258, 27-28=-163/258, 26-27=-163/258, 25-26=-163/258, 24-25=-163/258, 23-24=-163/258, 22-23=-163/258, 20-22=-163/258

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf 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) 20, 31, 32, 33, 34, 35, 36, 28, 26, 25, 24, 23 except (jt=lb) 2=108, 37=143, 27=103, 22=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.

Continued on page 2

| | | | | | |
|------------|-------|------------|-----|-----|-----------------------------------|
| Job | Truss | Truss Type | Qty | Ply | BeQuest/Douglas Residence/Harnett |
| B0620-2502 | A1-GE | GABLE | 2 | 1 | Job Reference (optional) |

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:34 2020 Page 2
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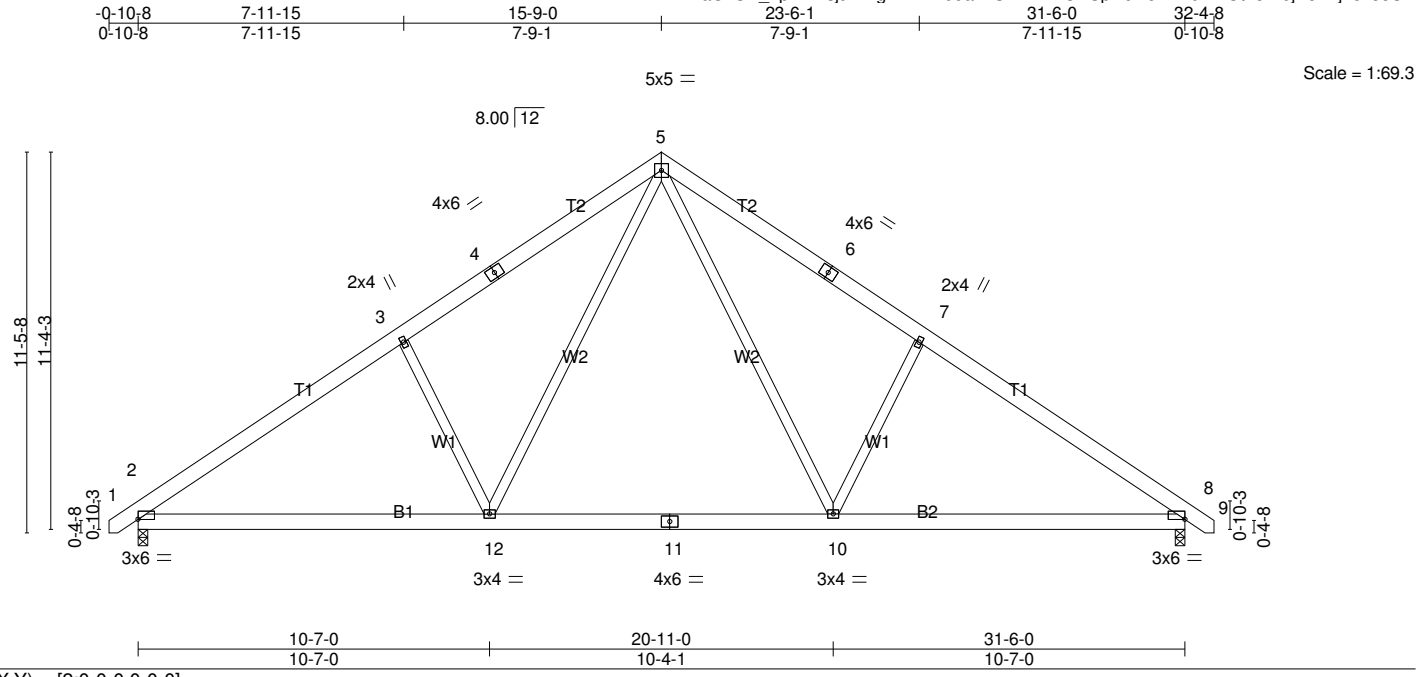
NOTES-

- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

| | | | | | |
|---|--------------------|-----------------------------|------------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss A2 | Truss Type COMMON | Qty 10 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:35 2020 Page 1
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| |
|---------------------------------------|
| Plate Offsets (X,Y)-- [2:0-0-0,0-0-0] |
|---------------------------------------|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.35 | Vert(LL) | -0.15 | 10-12 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.52 | Vert(CT) | -0.21 | 10-12 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.42 | Horz(CT) | 0.04 | 8 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.04 | 2-12 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 220 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-3-2 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=1302/0-3-8 (min. 0-1-12), 8=1302/0-3-8 (min. 0-1-12)
 Max Horz 2=-264(LC 10)
 Max Uplift 2=-77(LC 12), 8=-77(LC 13)
 Max Grav 2=1499(LC 19), 8=1499(LC 20)

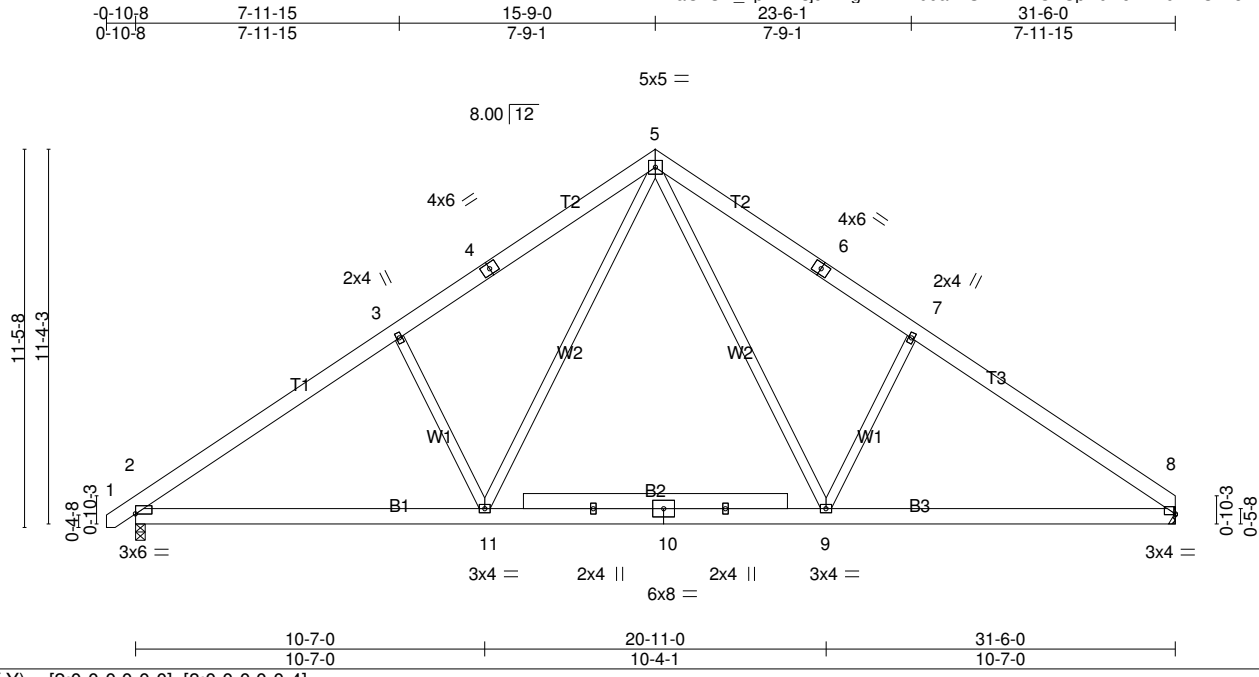
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-13=-2039/340, 3-13=-1959/371, 3-4=-1903/424, 4-14=-1808/442, 5-14=-1780/471,
 5-15=-1780/471, 6-15=-1808/442, 6-7=-1904/424, 7-16=-1959/371, 8-16=-2040/340
 BOT CHORD 2-17=-166/1769, 17-18=-166/1769, 12-18=-166/1769, 12-19=0/1162, 11-19=0/1162,
 11-20=0/1162, 10-20=0/1162, 10-21=-169/1589, 21-22=-169/1589, 8-22=-169/1589
 WEBS 5-10=-167/980, 7-10=-496/307, 5-12=-167/980, 3-12=-496/307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-15 to 3-7-14, Interior(1) 3-7-14 to 15-9-0, Exterior(2) 15-9-0 to 20-1-13, Interior(1) 20-1-13 to 32-2-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

| | | | | | |
|---|--------------------|-----------------------------|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss A3 | Truss Type COMMON | Qty 5 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:35 2020 Page 1
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Scale = 1:69.8

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.34 | Vert(LL) | -0.14 | 9-11 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.52 | Vert(CT) | -0.20 | 9-11 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.42 | Horz(CT) | 0.04 | 8 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.04 | 2-11 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 236 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-13 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=1304/0-3-8 (min. 0-1-12), 8=1249/Mechanical
 Max Horz 2=262(LC 11)
 Max Uplift 2=-77(LC 12), 8=-65(LC 13)
 Max Grav 2=1491(LC 19), 8=1439(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-2024/341, 3-14=-1944/372, 3-4=-1888/425, 4-15=-1792/443, 5-15=-1764/472,
 5-16=-1771/481, 6-16=-1799/452, 6-7=-1895/434, 7-17=-1925/380, 8-17=-2030/348
 BOT CHORD 2-18=-175/1755, 18-19=-175/1755, 11-19=-175/1755, 11-20=0/1153, 10-20=0/1153,
 10-21=0/1153, 9-21=0/1153, 9-22=-177/1581, 22-23=-177/1581, 8-23=-177/1581
 WEBS 5-9=-170/979, 7-9=-503/313, 5-11=-168/968, 3-11=-496/307

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-15 to 3-7-14, Interior(1) 3-7-14 to 15-9-0, Exterior(2) 15-9-0 to 20-1-13, Interior(1) 20-1-13 to 31-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf 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.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - 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.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

| | | | | | |
|---|----------------|------------------------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss B1-GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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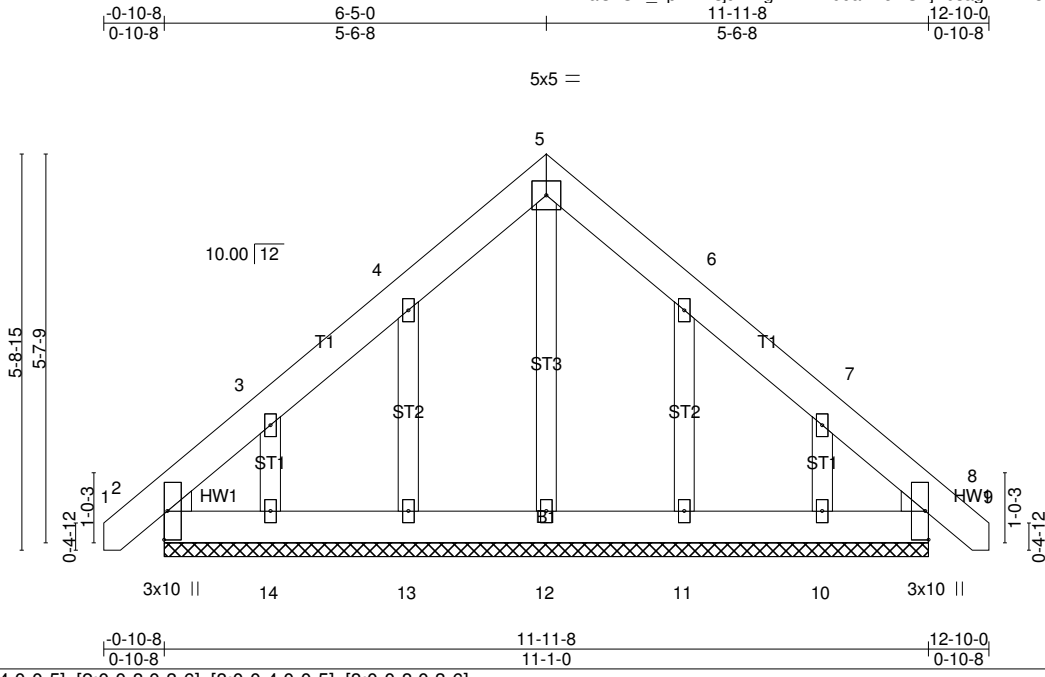


Plate Offsets (X,Y)-- [2:0-0-4.0-0-5], [2:0-0-8.0-3-6], [8:0-0-4.0-0-5], [8:0-0-8.0-3-6]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.02 | Vert(LL) | -0.00 | 8 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.01 | Vert(CT) | -0.00 | 8 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 8 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 87 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 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. All bearings 11-1-0.
 (lb) - Max Horz 2=-126(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

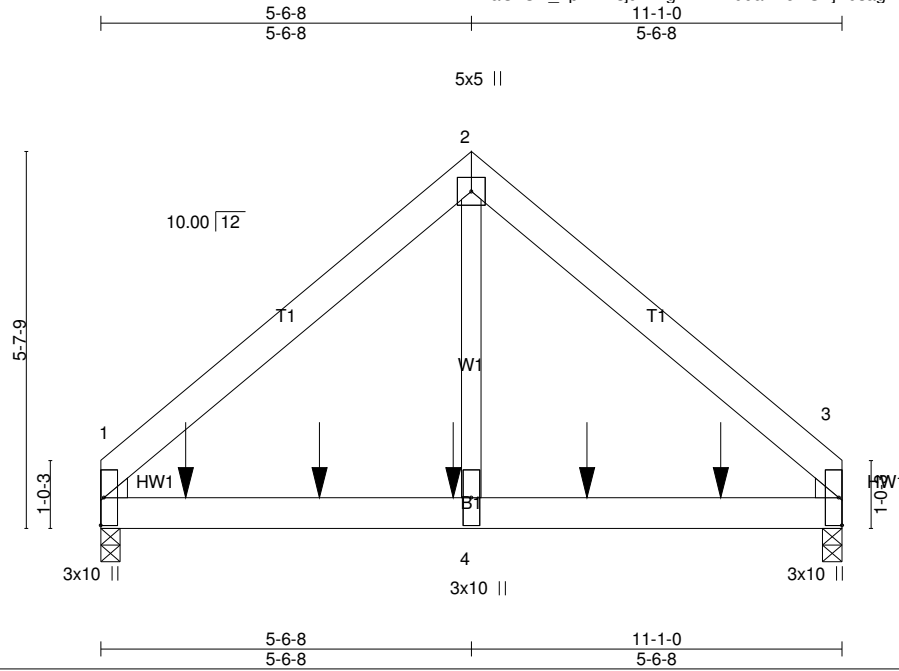
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-1 to 3-6-8, Exterior(2) 3-6-8 to 5-6-8, Corner(3) 5-6-8 to 9-11-5, Exterior(2) 9-11-5 to 11-10-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

| | | | | | |
|-------------------|-------------|-----------------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss B2 | Truss Type Common Girder | Qty 1 | Ply 2 | BeQuest/Douglas Residence/Harnett |
|-------------------|-------------|-----------------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:34.4

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|------|----------------|----------|---------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.55 | Vert(LL) | -0.06 | 3-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.93 | Vert(CT) | -0.11 | 3-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.55 | Horz(CT) | 0.01 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.04 | 3-4 | >999 | 240 | | |
| | | | | | | | | Weight: 138 lb | FT = 20% | |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 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.

REACTIONS. (lb/size) 1=3628/0-3-8 (min. 0-2-5), 3=3381/0-3-8 (min. 0-2-2)
 Max Horz 1=122(LC 26)
 Max Uplift 1=-216(LC 8), 3=-200(LC 9)
 Max Grav 1=3893(LC 2), 3=3622(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3594/244, 2-3=-3593/244
 BOT CHORD 1-5=-127/2604, 5-6=-127/2604, 4-6=-127/2604, 4-7=-127/2604, 7-8=-127/2604,
 3-8=-127/2604
 WEBS 2-4=-189/4467

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=216, 3=200.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1352 lb down and 85 lb up at 1-3-4, 1352 lb down and 85 lb up at 3-3-4, 1352 lb down and 85 lb up at 5-3-4, and 1352 lb down and 85 lb up at 7-3-4, and 1352 lb down and 85 lb up at 9-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

| | | | | | |
|-------------------|-------------|-----------------------------|----------|-----------------|---|
| Job B0620-2502 | Truss B2 | Truss Type Common Girder | Qty 1 | Ply 2 | BeQuest/Douglas Residence/Harnett Job Reference (optional) |
|-------------------|-------------|-----------------------------|----------|-----------------|---|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 1-3=-20

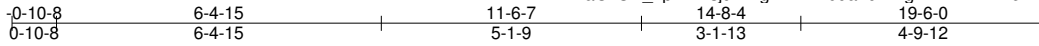
Concentrated Loads (lb)

Vert: 4=-1229(B) 5=-1229(B) 6=-1229(B) 7=-1229(B) 8=-1229(B)

| | | | | | |
|-------------------|----------------|---------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss C1-GE | Truss Type GABLE | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|----------------|---------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:37 2020 Page 1
ID:aOkUD_LpNKHsjuzBZlgKKTmz9dal-0rX2gXkAwAiXXK61kn4xzgRaMoriz_VamUcqrhz85Uu



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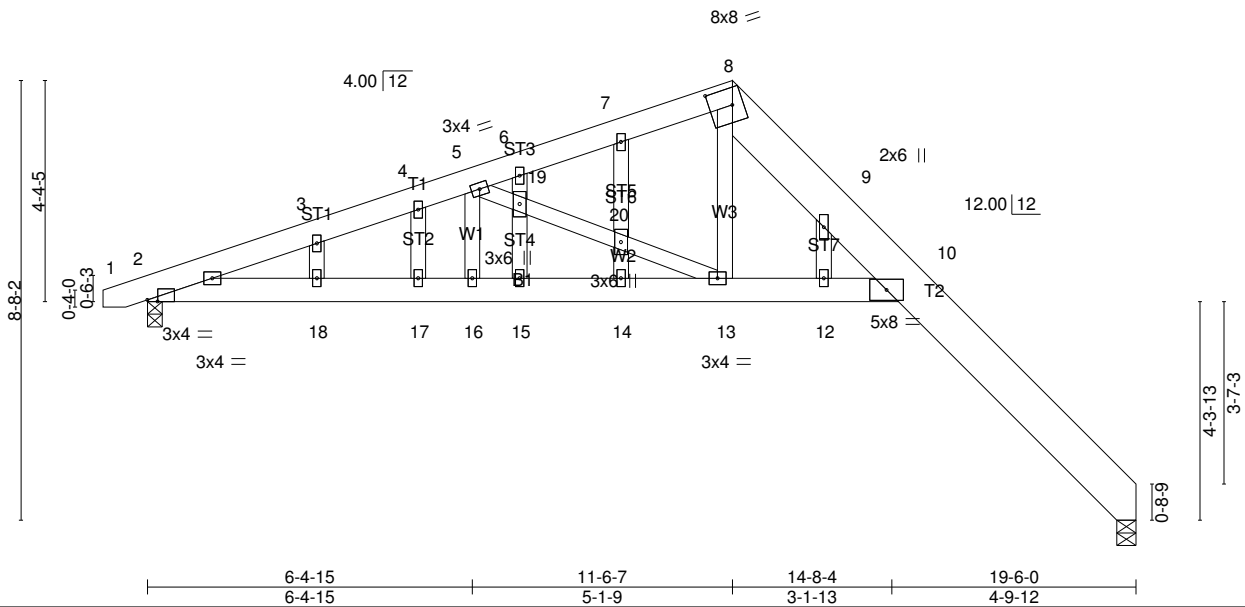


Plate Offsets (X,Y)-- [2:0-2-7,Edge], [8:0-5-7,0-4-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.92 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.46 | Vert(LL) -0.19 10-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.14 | Vert(CT) -0.38 10-12 >605 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.37 11 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.12 10 >999 240 | | |
| | | | | Weight: 138 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 T2: 2x10 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 11=795/0-4-8 (min. 0-1-8), 2=819/0-3-8 (min. 0-1-8)
 Max Horz 2=-179(LC 13)
 Max Uplift 11=-35(LC 13), 2=-80(LC 8)

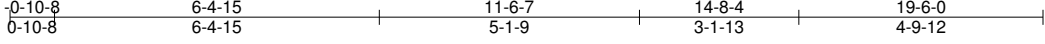
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1659/315, 3-21=-1604/337, 4-21=-1596/342, 4-5=-1570/352, 5-6=-1152/227,
 6-7=-1128/243, 7-8=-1096/268, 8-9=-1115/274, 9-10=-968/196, 10-22=-358/215,
 11-22=-514/202
 BOT CHORD 2-18=-97/1514, 17-18=-97/1514, 16-17=-97/1514, 15-16=-97/1514, 14-15=-97/1514,
 13-14=-97/1514, 12-13=0/1040, 10-12=0/1059
 WEBS 5-19=-558/169, 19-20=-536/161, 13-20=-546/165, 8-13=-120/586

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 3-9-0, Interior(1) 3-9-0 to 11-6-7, Exterior(2) 11-6-7 to 15-11-4, Interior(1) 15-11-4 to 19-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

| | | | | | |
|---|-------------|----------------------------|-----------|----------|-----------------------------------|
| Job B0620-2502 | Truss C2 | Truss Type ROOF SPECIAL | Qty 11 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:38 2020 Page 1
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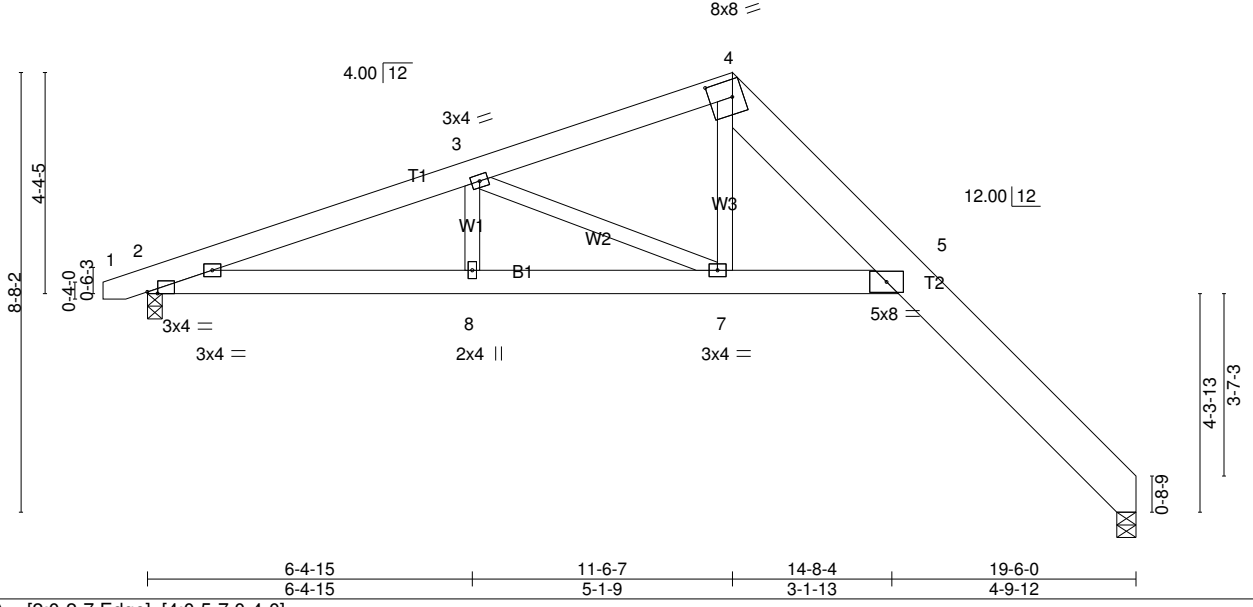


Plate Offsets (X,Y)-- [2:0-2-7,Edge], [4:0-5-7,0-4-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.92 | Vert(LL) -0.19 | 5 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.47 | Vert(CT) -0.39 | 5 | >586 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.29 | Horz(CT) 0.38 | 6 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) 0.13 | 5 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 127 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 T2: 2x10 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) 6=795/0-4-8 (min. 0-1-8), 2=819/0-3-8 (min. 0-1-8)
 Max Horz 2=-179(LC 13)
 Max Uplift 6=-35(LC 13), 2=-80(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-1692/336, 3-9=-1625/350, 3-10=-1134/237, 4-10=-1054/253, 4-5=-1066/240,
 5-11=-358/216, 6-11=-514/203
 BOT CHORD 2-8=-112/1542, 7-8=-112/1542, 5-7=0/1027
 WEBS 3-7=-581/184, 4-7=-51/475

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-13 to 3-9-0, Interior(1) 3-9-0 to 11-6-7, Exterior(2) 11-6-7 to 15-11-4, Interior(1) 15-11-4 to 19-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf 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.
 - 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
 - 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.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

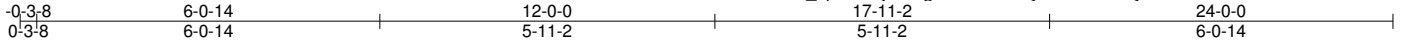
LOAD CASE(S) Standard

| | | | | | |
|--------------------------|--------------------|----------------------------------|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss C3 | Truss Type FLAT GIRDER | Qty 1 | Ply 3 | BeQuest/Douglas Residence/Harnett |
|--------------------------|--------------------|----------------------------------|-----------------|-----------------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Job Reference (optional)



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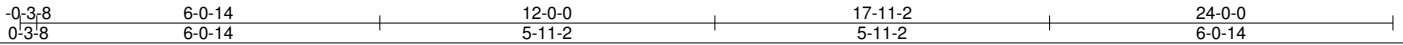
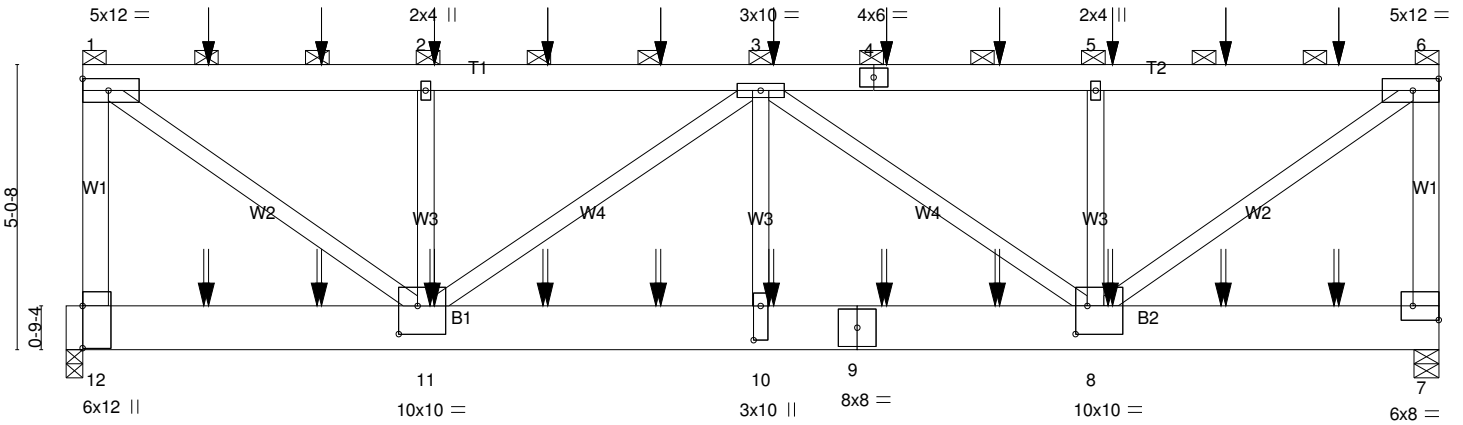


Plate Offsets (X,Y)-- [7:Edge,0-3-0], [8:0-2-8,0-6-0], [10:0-7-4,0-1-8], [11:0-4-0,0-6-0], [12:0-9-0,0-0-0]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.36 | Vert(LL) | -0.11 | 10 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.73 | Vert(CT) | -0.20 | 10 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.80 | Horz(CT) | 0.03 | 7 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.05 | 10 | >999 | | |
| | | | | | | | | Weight: 679 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E *Except*
B2: 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
W1: 2x6 SP No.1, W2: 2x4 SP No.1

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

REACTIONS. (lb/size) 12=6804/0-3-8 (min. 0-2-9), 7=7757/0-5-4 (min. 0-4-0)
Max Uplift 12=-766(LC 4), 7=-816(LC 4)
Max Grav 12=9246(LC 2), 7=10145(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-8252/751, 1-13=-10149/835, 13-14=-10149/835, 2-14=-10149/835, 2-15=-10149/835,
15-16=-10149/835, 3-16=-10149/835, 3-4=-10185/835, 4-17=-10185/835, 5-17=-10185/835,
5-18=-10185/835, 18-19=-10185/835, 19-20=-10185/835, 6-20=-10185/835, 6-7=-9100/802
BOT CHORD 12-21=-28/250, 21-22=-28/250, 11-22=-28/250, 11-23=-1124/13539, 23-24=-1124/13539,
10-24=-1124/13539, 9-10=-1124/13539, 9-25=-1124/13539, 25-26=-1124/13539,
8-26=-1124/13539, 8-27=-29/263, 27-28=-29/263, 28-29=-29/263, 7-29=-29/263
WEBS 1-11=-1013/12419, 2-11=-2817/454, 3-11=-4232/360, 3-10=-8/3148, 3-8=-4187/360,
5-8=-2769/446, 6-8=-1012/12448

- NOTES-**
- 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.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=766, 7=816.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

| | | | | | |
|-------------------|-------------|---------------------------|----------|----------|---|
| Job B0620-2502 | Truss C3 | Truss Type FLAT GIRDER | Qty 1 | Ply 3 | BeQuest/Douglas Residence/Harnett Job Reference (optional) |
|-------------------|-------------|---------------------------|----------|----------|---|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:39 2020 Page 2
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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 122 lb down and 111 lb up at 2-2-12, 735 lb down and 36 lb up at 2-2-12, 122 lb down and 111 lb up at 4-2-12, 735 lb down and 36 lb up at 4-2-12, 122 lb down and 111 lb up at 6-2-12, 735 lb down and 36 lb up at 6-2-12, 122 lb down and 111 lb up at 8-2-12, 735 lb down and 36 lb up at 8-2-12, 122 lb down and 111 lb up at 10-2-12, 735 lb down and 36 lb up at 10-2-12, 122 lb down and 111 lb up at 12-2-12, 735 lb down and 36 lb up at 12-2-12, 122 lb down and 111 lb up at 14-2-12, 735 lb down and 36 lb up at 14-2-12, 122 lb down and 111 lb up at 16-2-12, 735 lb down and 36 lb up at 16-2-12, 122 lb down and 111 lb up at 18-2-12, 735 lb down and 36 lb up at 18-2-12, 122 lb down and 111 lb up at 20-2-12, 735 lb down and 36 lb up at 20-2-12, 122 lb down and 111 lb up at 22-2-12, and 735 lb down and 36 lb up at 22-2-12, and 778 lb down and 40 lb up at 24-2-12 on top chord, and 1016 lb down at 2-1-12, 47 lb down and 28 lb up at 2-2-12, 1016 lb down at 4-1-12, 47 lb down and 28 lb up at 4-2-12, 1016 lb down at 6-1-12, 47 lb down and 28 lb up at 6-2-12, 1016 lb down at 8-1-12, 47 lb down and 28 lb up at 8-2-12, 1016 lb down at 10-1-12, 47 lb down and 28 lb up at 10-2-12, 1016 lb down at 12-1-12, 47 lb down and 28 lb up at 12-2-12, 1016 lb down at 14-1-12, 46 lb down and 27 lb up at 14-2-12, 1016 lb down at 16-1-12, 46 lb down and 27 lb up at 16-2-12, 1016 lb down at 18-1-12, 46 lb down and 27 lb up at 18-2-12, 1016 lb down at 20-1-12, 46 lb down and 27 lb up at 20-2-12, and 1016 lb down at 22-1-12, and 46 lb down and 27 lb up at 22-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

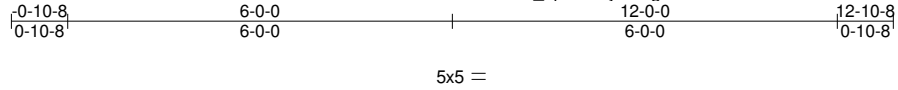
Vert: 1-6=-60, 7-12=-20

Concentrated Loads (lb)

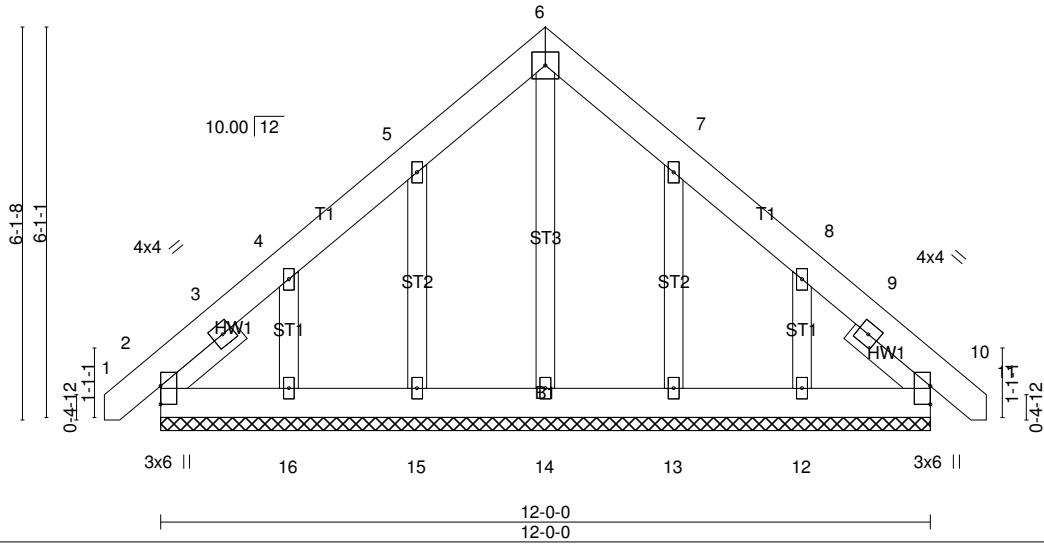
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| | | | | | |
|---|----------------|------------------------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss D1-GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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Scale = 1:35.9



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.03 | Vert(LL) | 0.00 10 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | 0.00 10 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 99 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 -∞ 1-6-6, Right 2x4 SP No.2 -∞ 1-6-6

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 12-0-0.
 (lb) - Max Horz 2=169(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-175(LC 12), 12=-169(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

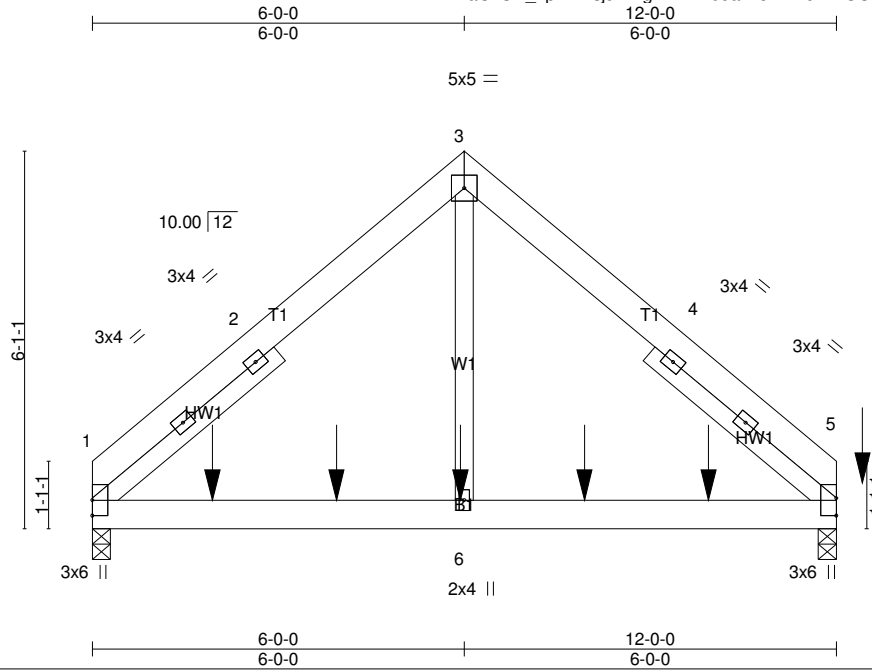
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=175, 12=169.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - 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 B0620-2502 | Truss D2 | Truss Type COMMON GIRDER | Qty 1 | Ply 2 | BeQuest/Douglas Residence/Harnett |
|-------------------|-------------|-----------------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:41 2020 Page 1
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| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.07 | Vert(LL) -0.01 5-6 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.17 | Vert(CT) -0.02 5-6 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.08 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) -0.00 1-6 >999 240 | | |
| | | | | Weight: 170 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 -∞ 3-10-0, Right 2x4 SP No.2 -∞ 3-10-0

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. (lb/size) 1=867/0-3-8 (min. 0-1-8), 5=918/0-3-8 (min. 0-1-8)
Max Horz 1=133(LC 7)
Max Grav 1=867(LC 1), 5=955(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-884/0, 2-3=-761/0, 3-4=-761/0, 4-5=-884/0
BOT CHORD 1-7=0/585, 7-8=0/585, 6-8=0/585, 6-9=0/585, 9-10=0/585, 5-10=0/585
WEBS 3-6=0/677

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 238 lb down and 58 lb up at 12-0-0 on top chord, and 153 lb down at 1-11-4, 153 lb down at 3-11-4, 153 lb down at 5-11-4, and 153 lb down at 7-11-4, and 153 lb down at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 5=-58 6=-153(B) 7=-153(B) 8=-153(B) 9=-153(B) 10=-153(B)

| | | | | | |
|---|-------------|----------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss G2 | Truss Type COMMON | Qty 3 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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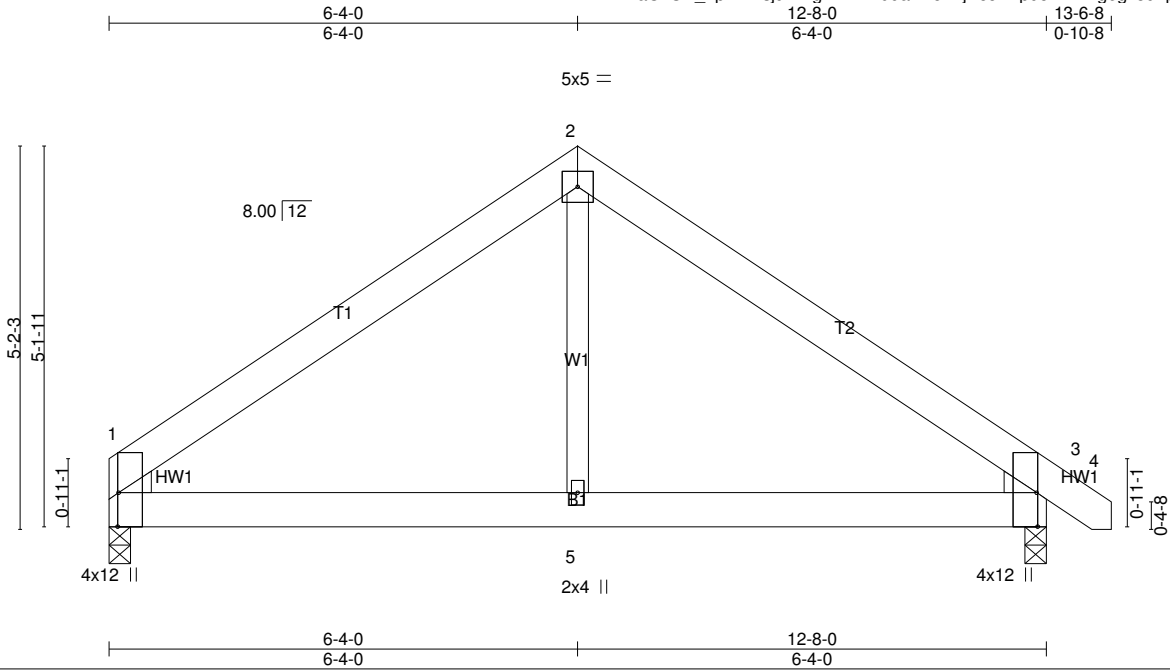


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [1:0-1-1,0-5-2], [1:0-0-9,0-0-13], [3:0-0-9,0-0-13], [3:0-1-1,0-5-2], [3:0-5-8,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.18 | Vert(LL) | -0.01 | 1-5 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.14 | Vert(CT) | -0.02 | 1-5 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) | 0.01 | 3-5 | >999 | | |
| | | | | | | | | Weight: 76 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 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) 3=550/0-3-8 (min. 0-1-8), 1=493/0-3-8 (min. 0-1-8)
 Max Horz 1=-112(LC 8)
 Max Uplift3=-37(LC 13), 1=-24(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-6=-580/124, 6-7=-479/132, 2-7=-460/156, 2-8=-473/154, 8-9=-480/131, 3-9=-584/123
 BOT CHORD 1-5=-2/383, 3-5=-2/383
 WEBS 2-5=0/301

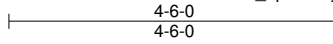
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 6-4-0, Exterior(2) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-4-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
 - 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

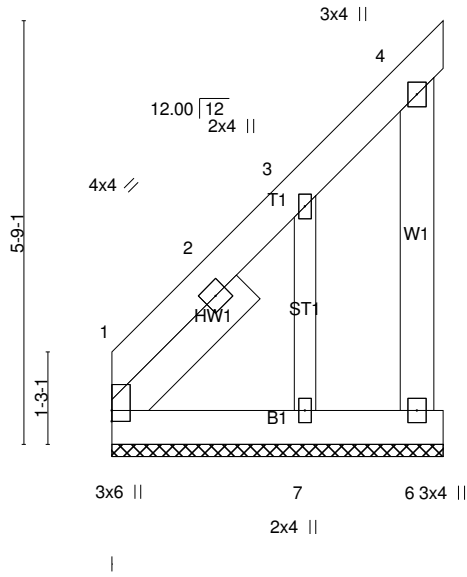
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|-------------------|----------------|---------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss H1-GE | Truss Type GABLE | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|----------------|---------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:31.3



| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.08 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.05 | Horz(CT) -0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | Weight: 47 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -∞ 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-0.
(lb) - Max Horz 1=244(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=246(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6 except 7=260(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-314/239, 2-3=-292/251
WEBS 3-7=-315/311

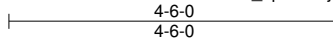
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=246.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

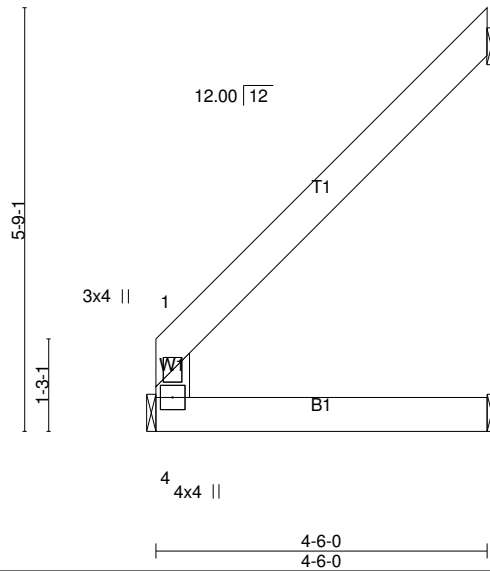
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|-------------------|-------------|-------------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss H2 | Truss Type JACK-OPEN | Qty 5 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|-------------|-------------------------|----------|----------|-----------------------------------|

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Scale = 1:31.3



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.13 | Vert(LL) | 0.01 | 3-4 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.13 | Vert(CT) | -0.01 | 3-4 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.01 | 2 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | Weight: 28 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 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=168/Mechanical, 2=115/Mechanical, 3=53/Mechanical
Max Horz 4=137(LC 12)
Max Uplift 2=110(LC 12), 3=-7(LC 12)
Max Grav 4=168(LC 1), 2=142(LC 19), 3=82(LC 3)

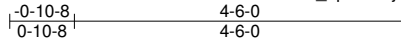
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=110.
 - 6) 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.

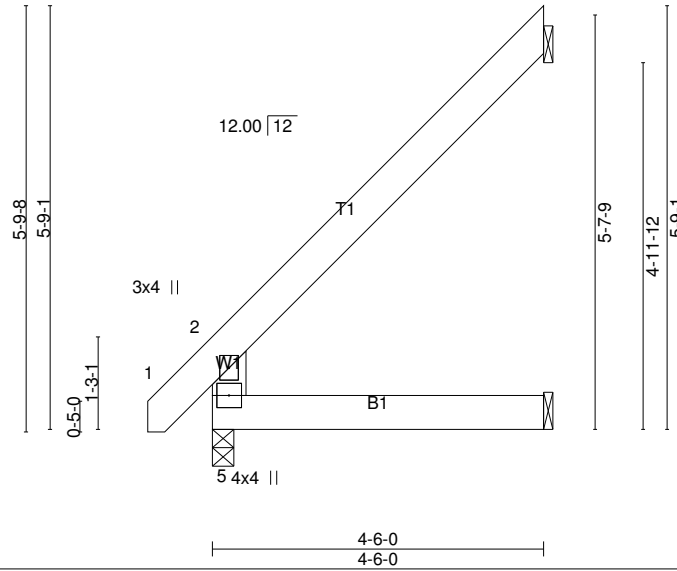
LOAD CASE(S) Standard

| | | | | | |
|---|-------------|-------------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss H3 | Truss Type JACK-OPEN | Qty 6 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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Scale = 1:31.3



| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.13 | Vert(LL) 0.01 4-5 >999 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.14 | Vert(CT) -0.01 4-5 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.01 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-R | | Weight: 30 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-8 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=235/0-3-8 (min. 0-1-8), 3=111/Mechanical, 4=50/Mechanical
 Max Horz 5=155(LC 12)
 Max Uplift 3=110(LC 12), 4=8(LC 12)
 Max Grav 5=235(LC 1), 3=139(LC 19), 4=81(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 4-5-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=110.
 - 6) 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 B0620-2502 | Truss M1-GE | Truss Type GABLE | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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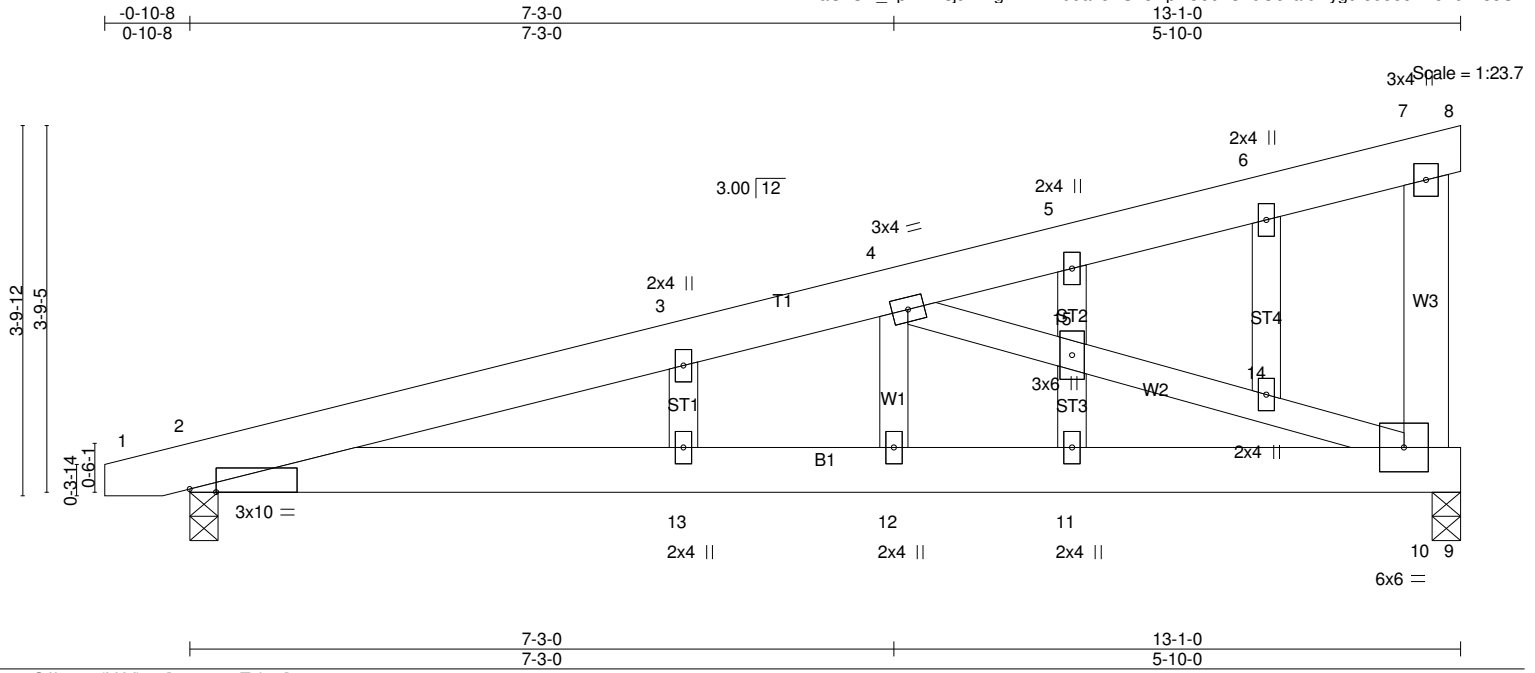


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|------------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.24 | Vert(LL) 0.07 2-13 >999 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.44 | Vert(CT) -0.07 2-13 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.01 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 87 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W3: 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-11-9 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=531/0-3-8 (min. 0-1-8), 2=547/0-3-8 (min. 0-1-8)
 Max Horz 2=161(LC 8)
 Max Uplift 10=-309(LC 8), 2=-301(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1045/1079, 3-4=-989/1084
 BOT CHORD 2-13=-1179/967, 12-13=-1179/967, 11-12=-1179/967, 10-11=-1179/967
 WEBS 4-12=-320/252, 4-15=-988/1203, 14-15=-966/1178, 10-14=-995/1210

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=309, 2=301.
 - 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 B0620-2502 | Truss M2 | Truss Type MONOPITCH | Qty 9 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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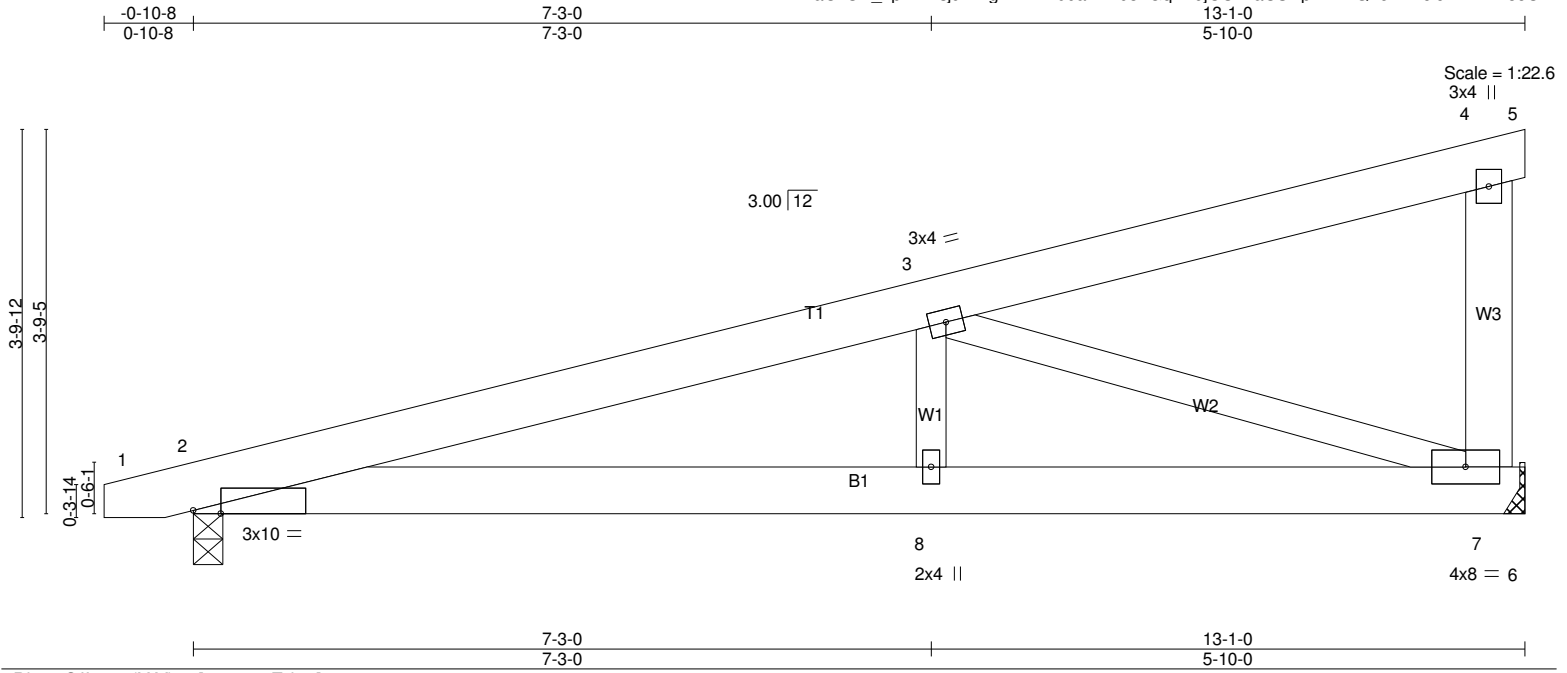


Plate Offsets (X,Y)-- [2:0-3-4,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|------------------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 Plate Grip DOL 1.15 | TC 0.21 | Vert(LL) 0.07 | 2-8 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.23 | Vert(CT) -0.06 | 2-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.54 | Horz(CT) 0.01 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 81 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W3: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-6-6 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=531/Mechanical, 2=547/0-3-8 (min. 0-1-8)
 Max Horz 2=112(LC 8)
 Max Uplift 7=208(LC 8), 2=-207(LC 8)

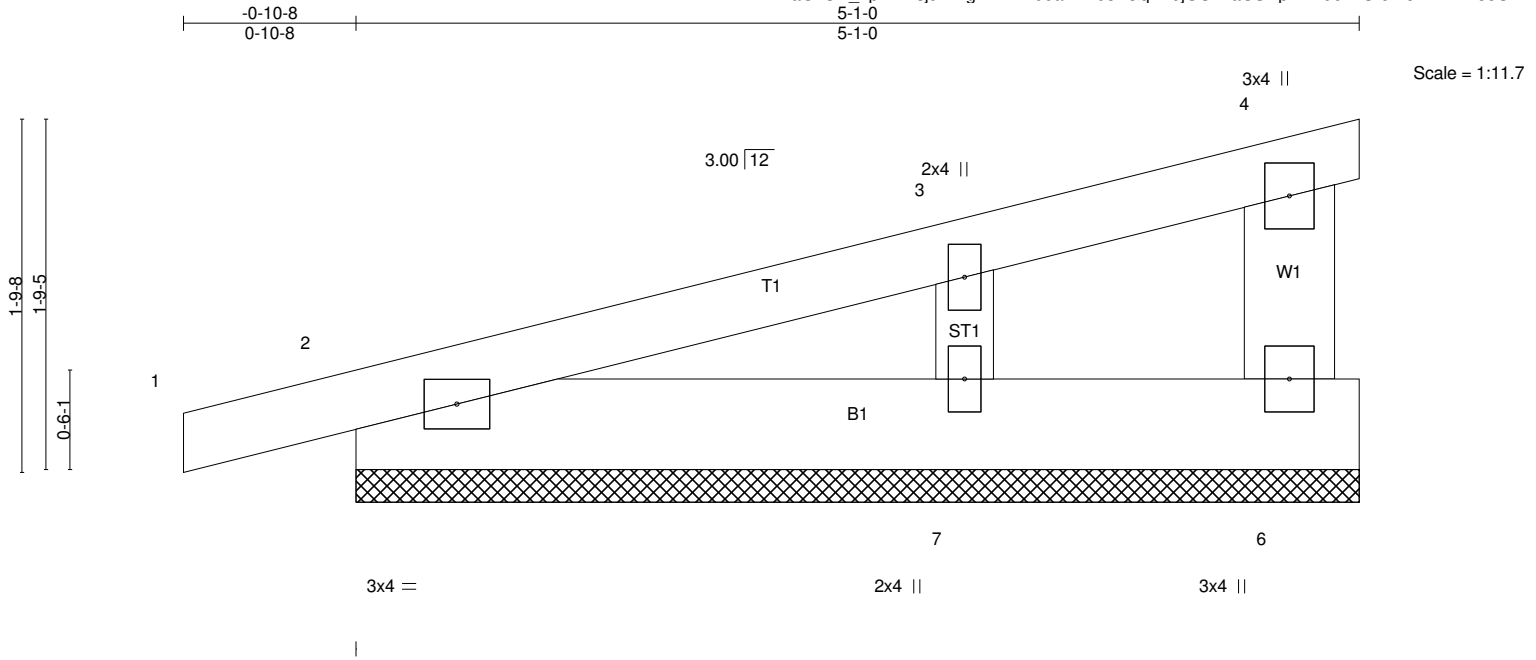
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-1050/908, 3-9=-995/920
 BOT CHORD 2-8=-994/969, 7-8=-994/969
 WEBS 3-8=-345/279, 3-7=-978/994

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 13-1-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=208, 2=207.
 - 6) 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 B0620-2502 | Truss M3-GE | Truss Type GABLE | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.07 | Vert(LL) | -0.00 | 1 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | 0.00 | 1 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | Weight: 24 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-0 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 5-1-0.
 (lb) - Max Horz 2=71(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 2, 7
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2, 7

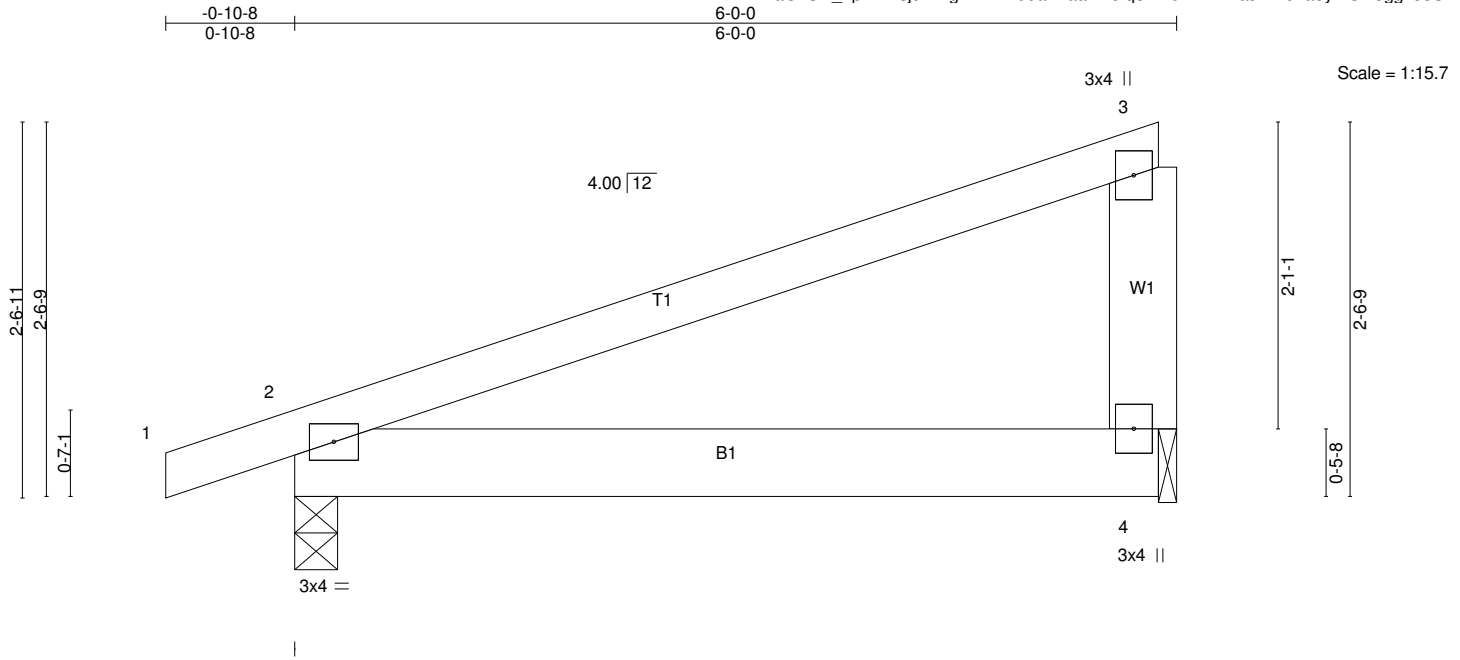
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 2, 7.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| | | | | | |
|---|--------------------|-----------------------------------|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss P1 | Truss Type ROOF SPECIAL | Qty 6 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.43 | Vert(LL) | -0.01 | 2-4 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | -0.03 | 2-4 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | Wind(LL) | 0.03 | 2-4 | >999 | Weight: 29 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1

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) 2=292/0-3-8 (min. 0-1-8), 4=219/0-1-8 (min. 0-1-8)
 Max Horz 2=74(LC 8)
 Max Uplift 2=114(LC 8), 4=97(LC 8)

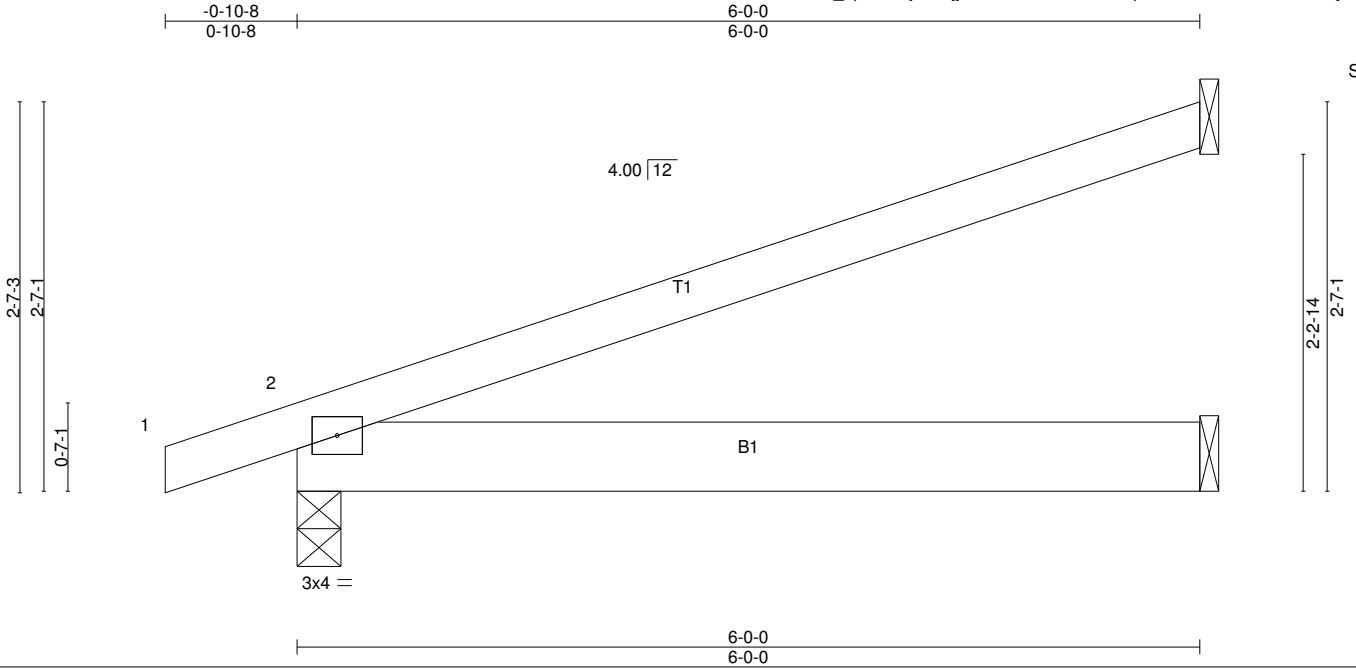
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=114.
 - 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 B0620-2502 | Truss P2 | Truss Type JACK-OPEN | Qty 2 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.46 | Vert(LL) | -0.02 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.13 | Vert(CT) | -0.03 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | Wind(LL) | 0.03 | 2-4 | >999 | 240 | Weight: 25 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1

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) 3=168/Mechanical, 2=298/0-3-8 (min. 0-1-8), 4=58/Mechanical
 Max Horz 2=75(LC 8)
 Max Uplift 3=-72(LC 12), 2=-116(LC 8), 4=-30(LC 8)
 Max Grav 3=168(LC 1), 2=298(LC 1), 4=116(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=116.
 - 6) 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 B0620-2502 | Truss P4 | Truss Type HALF HIP GIRDER | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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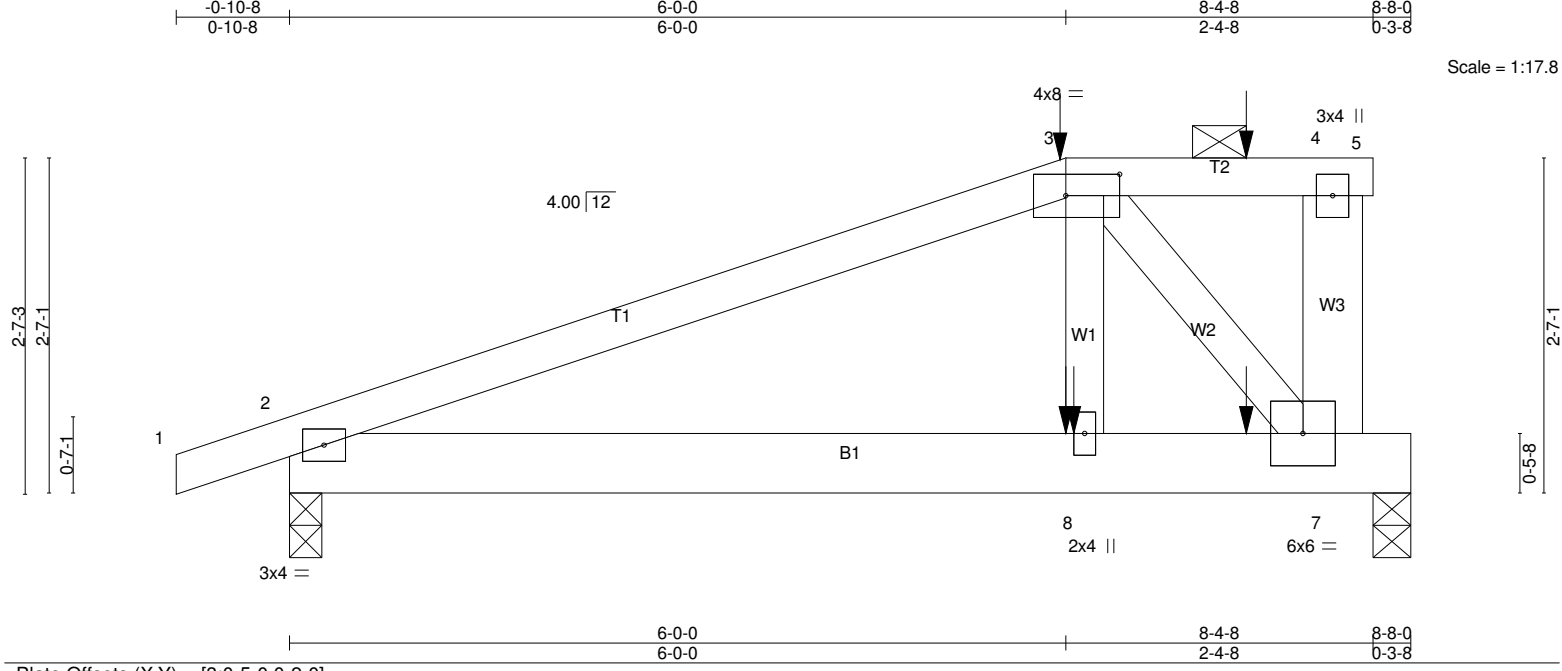


Plate Offsets (X,Y)-- [3:0-5-0,0-2-0]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.63 | Vert(LL) | 0.02 | 2-8 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.38 | Vert(CT) | -0.03 | 2-8 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.18 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | |
| | | | | | | | | | Weight: 45 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 W3: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 2=560/0-3-0 (min. 0-1-8), 6=801/0-3-8 (min. 0-1-8)
 Max Horz 2=76(LC 4)
 Max Uplift 2=230(LC 4), 6=346(LC 4)

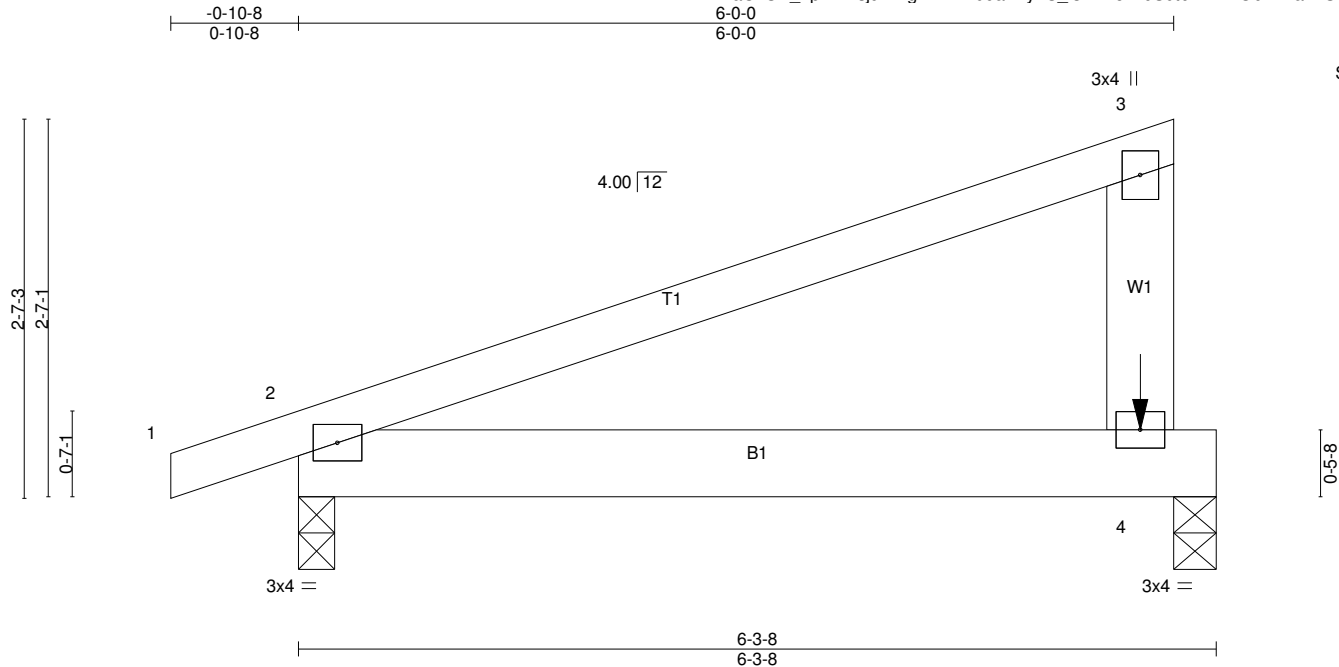
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-803/304
 BOT CHORD 2-8=-310/703, 8-10=-331/749, 7-10=-331/749
 WEBS 3-8=-310/710, 3-7=-1097/484

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 6=346.
 - 6) 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.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 85 lb up at 6-0-0, and 109 lb down and 83 lb up at 7-4-12 on top chord, and 382 lb down and 238 lb up at 6-0-0, and 76 lb down and 50 lb up at 7-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-5=-60, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-382(B) 3=-108(B) 9=-109(B) 10=-38(B)

| | | | | | |
|---|--------------------|--------------------------------|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss P5 | Truss Type MONOPITCH | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.44 | Vert(LL) | -0.01 | 2-4 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.12 | Vert(CT) | -0.03 | 2-4 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | Wind(LL) | 0.03 | 2-4 | >999 | Weight: 30 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 | |

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

REACTIONS. (lb/size) 4=576/0-3-8 (min. 0-1-8), 2=291/0-3-0 (min. 0-1-8)
 Max Horz 2=74(LC 8)
 Max Uplift 4=254(LC 8), 2=113(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=254, 2=113.
 - 5) 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.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 356 lb down and 177 lb up at 5-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

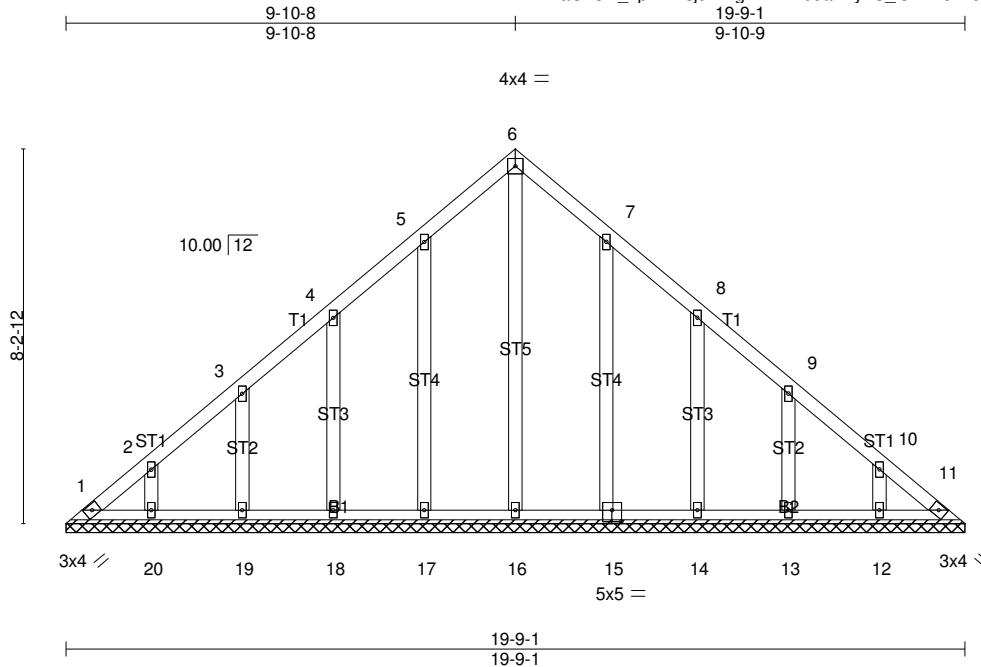
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 2-4=-20
 Concentrated Loads (lb)
 Vert: 4=-356(F)

| | | | | | |
|-------------------|--------------|---------------------|----------|----------|-----------------------------------|
| Job B0620-2502 | Truss VB1 | Truss Type GABLE | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|---------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:48 2020 Page 1
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Scale = 1:50.6

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|----------------|----------|---------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.19 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | |
| | | | | | | | | Weight: 119 lb | FT = 20% | |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 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. All bearings 19-9-1.
(lb) - Max Horz 1=-237(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-111(LC 12), 18=-113(LC 12), 19=-111(LC 12), 20=-107(LC 12), 15=-109(LC 13), 14=-116(LC 13), 13=-110(LC 13), 12=-107(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 20, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-279/190

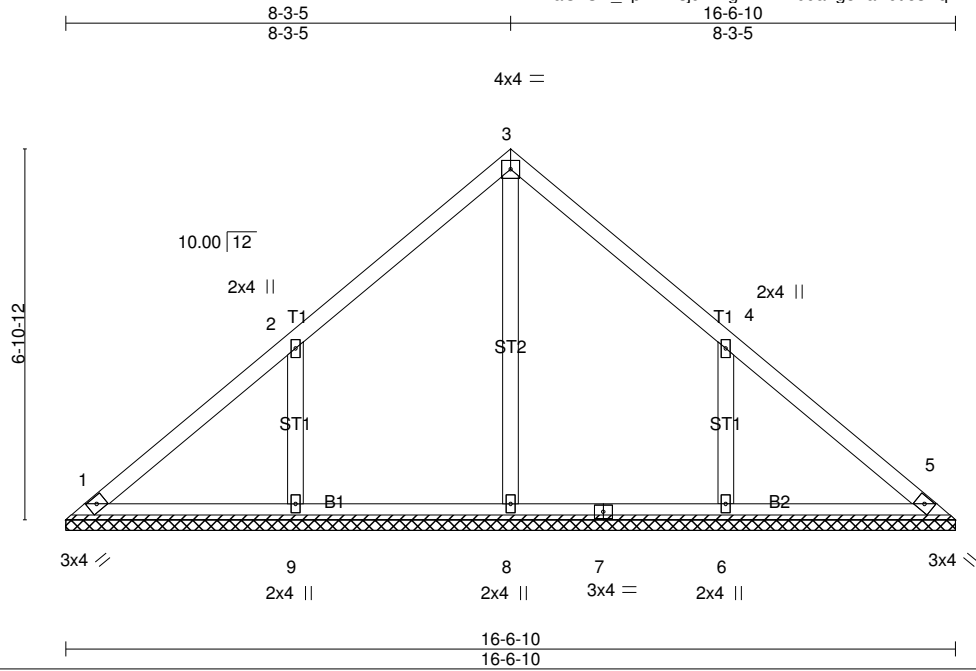
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=111, 18=113, 19=111, 20=107, 15=109, 14=116, 13=110, 12=107.
 - 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 B0620-2502 | Truss VB2 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:49 2020 Page 1
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Scale = 1:42.9

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|---------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.18 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.11 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | |
| | | | | | | | | Weight: 74 lb | FT = 20% | |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 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. All bearings 16-6-10.
(lb) - Max Horz 1=-157(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-150(LC 12), 6=-150(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=415(LC 22), 9=467(LC 19), 6=467(LC 20)

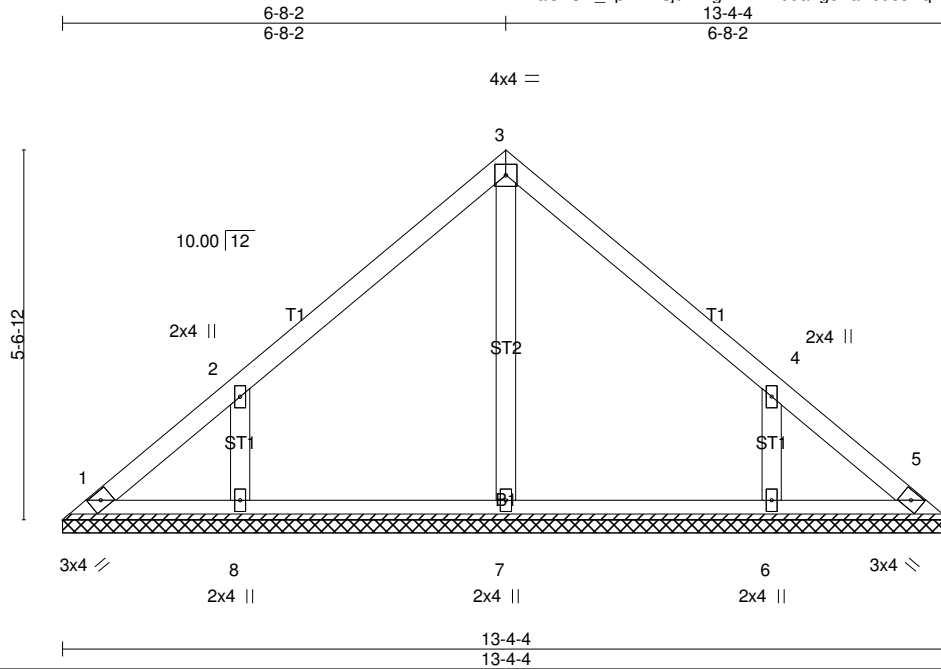
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-375/263, 4-6=-375/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-3-5, Exterior(2) 8-3-5 to 12-8-2, Interior(1) 12-8-2 to 16-1-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=150, 6=150.
 - 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 B0620-2502 | Truss VB3 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Tue Jun 9 07:36:49 2020 Page 1
 ID:aOkUD_LpNKHsjUBZlgKKTmz9dal-g8FaBdti5sDqzA1LRlllSCxqje1NnRYLXMWSG_z85Uj



Scale = 1:34.7

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.13 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.07 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 57 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 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. All bearings 13-4-4.
 (lb) - Max Horz 1=-125(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 12), 6=-126(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=336(LC 19), 6=336(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-317/239, 4-6=-317/239

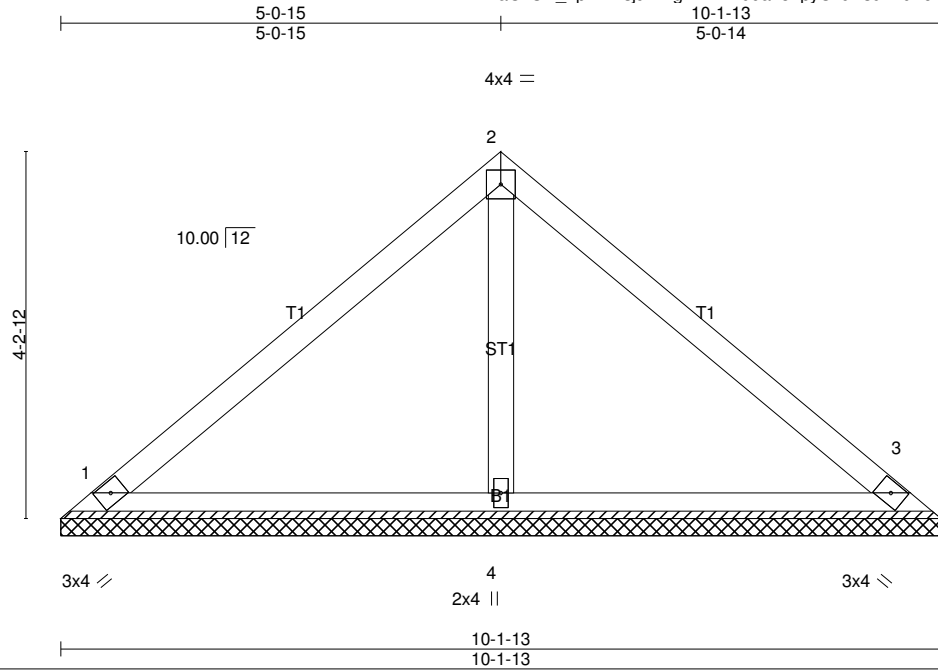
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-8-2, Exterior(2) 6-8-2 to 11-0-15, Interior(1) 11-0-15 to 12-11-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 8=126, 6=126.
 - Non Standard bearing condition. Review required.
 - 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 B0620-2502 | Truss VB4 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:26.6

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.16 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.06 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 39 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 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=200/10-1-13 (min. 0-1-8), 3=200/10-1-13 (min. 0-1-8), 4=348/10-1-13 (min. 0-1-8)
Max Horz 1=93(LC 8)
Max Uplift1=22(LC 13), 3=30(LC 13)

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

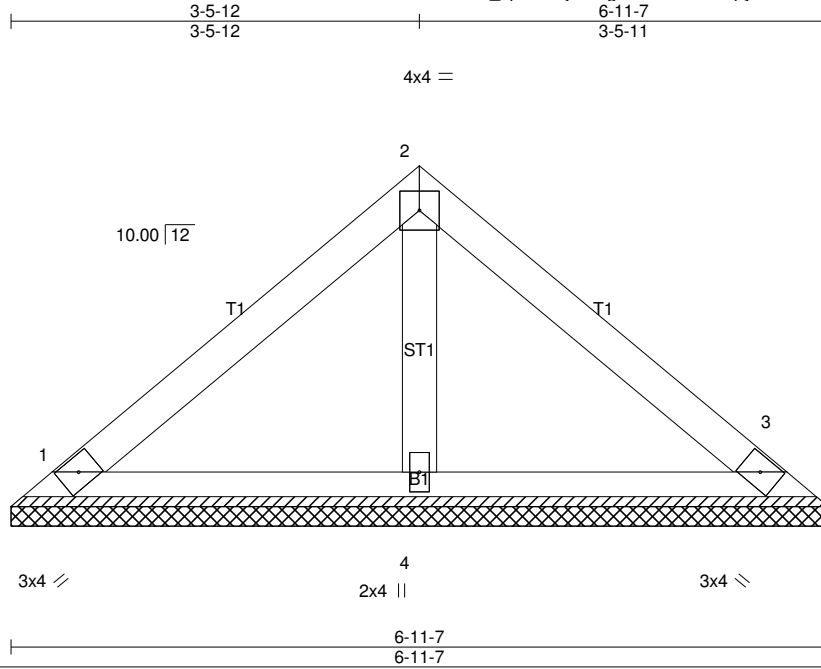
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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 B0620-2502 | Truss VB5 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:19.6

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.07 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | Weight: 26 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 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=142/6-11-7 (min. 0-1-8), 3=142/6-11-7 (min. 0-1-8), 4=207/6-11-7 (min. 0-1-8)
Max Horz 1=61(LC 9)
Max Uplift1=-21(LC 13), 3=-27(LC 13)

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

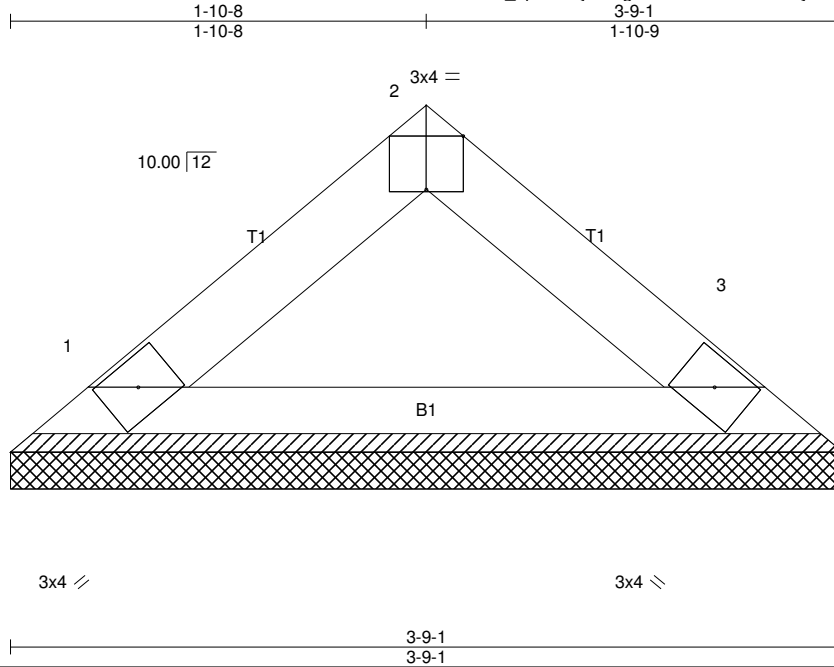
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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 B0620-2502 | Truss VB6 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:10.4

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP | |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|--------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.03 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | | |
| | | | | | | | | | Weight: 11 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=118/3-9-1 (min. 0-1-8), 3=118/3-9-1 (min. 0-1-8)
Max Horz 1=29(LC 11)
Max Uplift 1=-5(LC 12), 3=-5(LC 13)

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

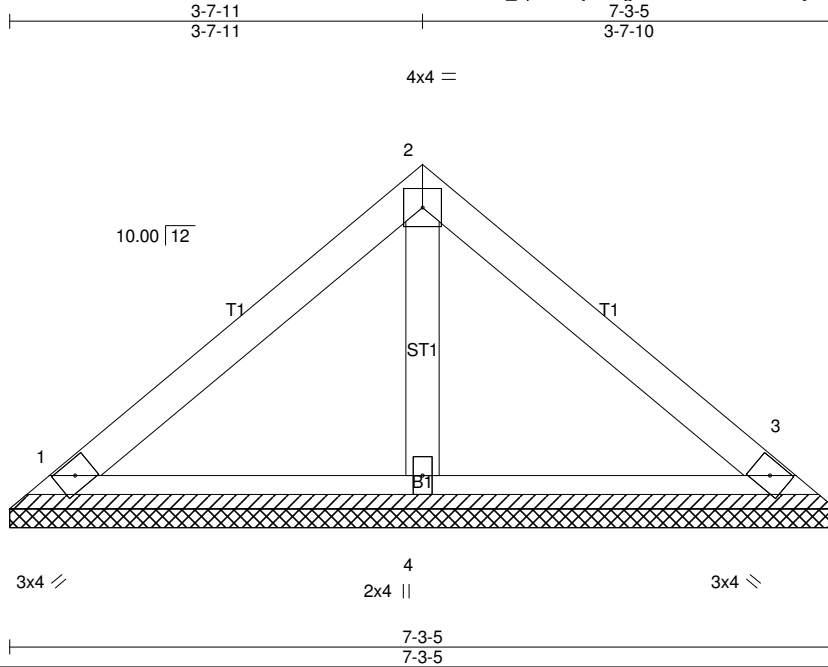
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - Non Standard bearing condition. Review required.
 - 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 B0620-2502 | Truss VD1 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.15 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.08 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 27 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
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=150/7-3-5 (min. 0-1-8), 3=150/7-3-5 (min. 0-1-8), 4=218/7-3-5 (min. 0-1-8)
Max Horz 1=-65(LC 8)
Max Uplift1=-23(LC 13), 3=-28(LC 13)

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

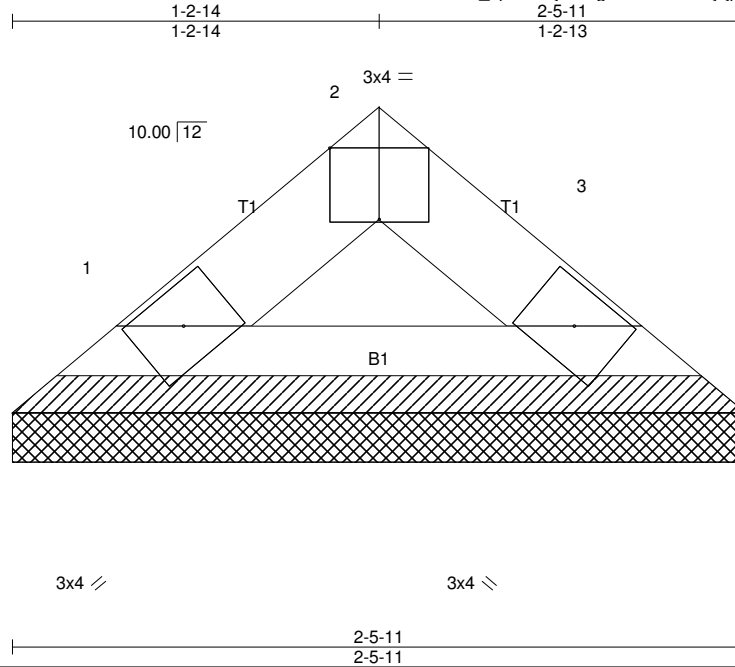
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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 B0620-2502 | Truss VD2 | Truss Type VALLEY | Qty 1 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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Scale = 1:7.8

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

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|--------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.01 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 7 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-11 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=67/2-5-11 (min. 0-1-8), 3=67/2-5-11 (min. 0-1-8)
Max Horz 1=-17(LC 8)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)

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

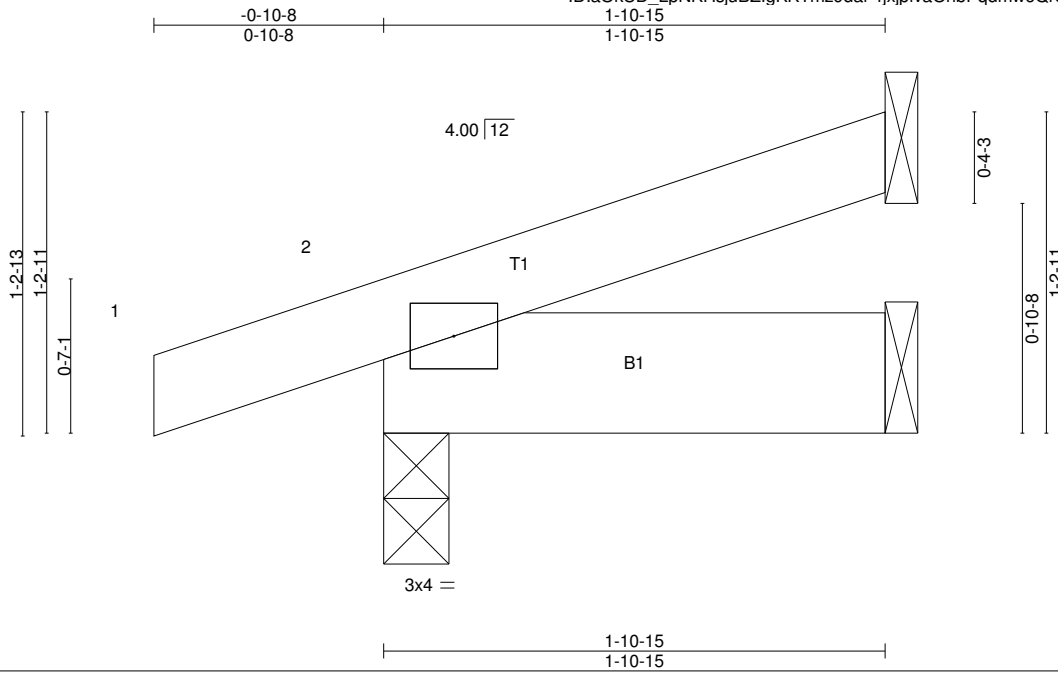
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 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 B0620-2502 | Truss YP1 | Truss Type JACK-OPEN | Qty 4 | Ply 1 | BeQuest/Douglas Residence/Harnett |
|-------------------|--------------|-------------------------|----------|----------|-----------------------------------|

Comtech, Inc., Fayetteville, NC 28309, Neil Baggett

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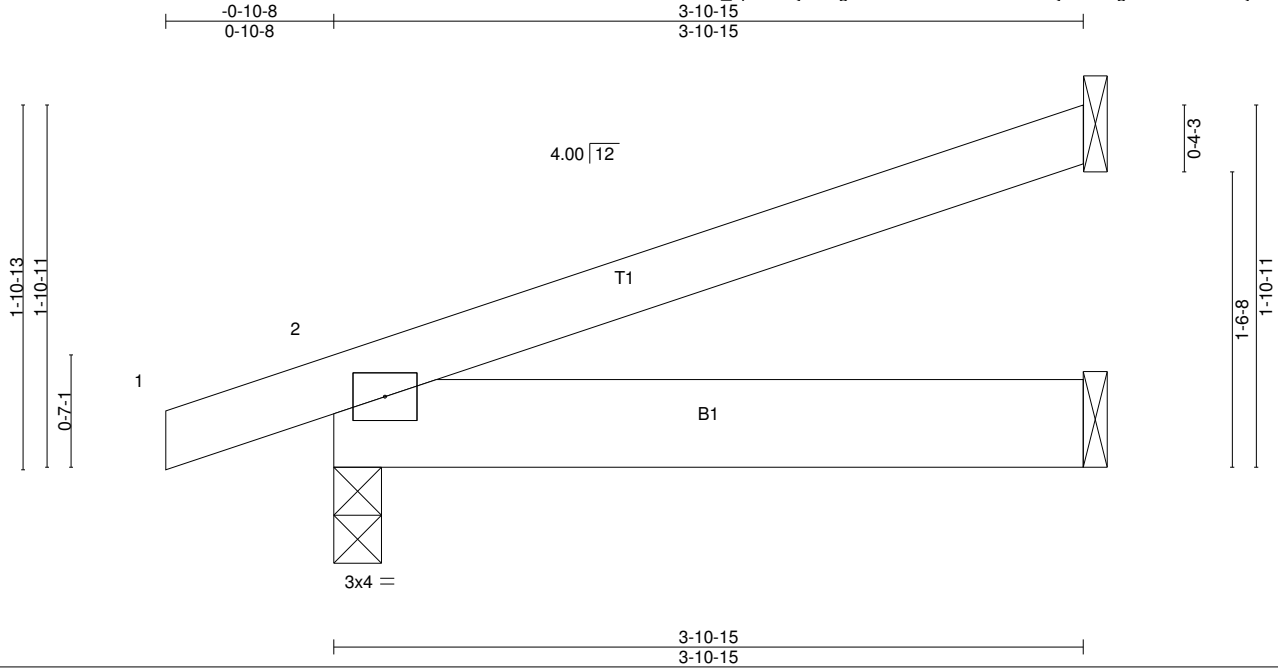


Scale = 1:8.8

| | | |
|----------------------|-----------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 |
| TCLL 20.0 | Plate Grip DOL | 1.15 |
| TCDL 10.0 | Lumber DOL | 1.15 |
| BCLL 0.0 * | Rep Stress Incr | YES |
| BCDL 10.0 | Code | IRC2015/TPI2014 |

| | | | | | |
|---|---------------------|--------------------------------|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss YP2 | Truss Type JACK-OPEN | Qty 4 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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Scale: 1"=1'

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.16 | Vert(LL) | -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | -0.01 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | Wind(LL) | 0.01 | 2-4 | >999 | 240 | Weight: 17 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 3=104/Mechanical, 2=217/0-3-0 (min. 0-1-8), 4=37/Mechanical
 Max Horz 2=53(LC 8)
 Max Uplift 3=-46(LC 12), 2=-89(LC 8), 4=-19(LC 8)
 Max Grav 3=104(LC 1), 2=217(LC 1), 4=74(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-10-3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
 - 6) 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.

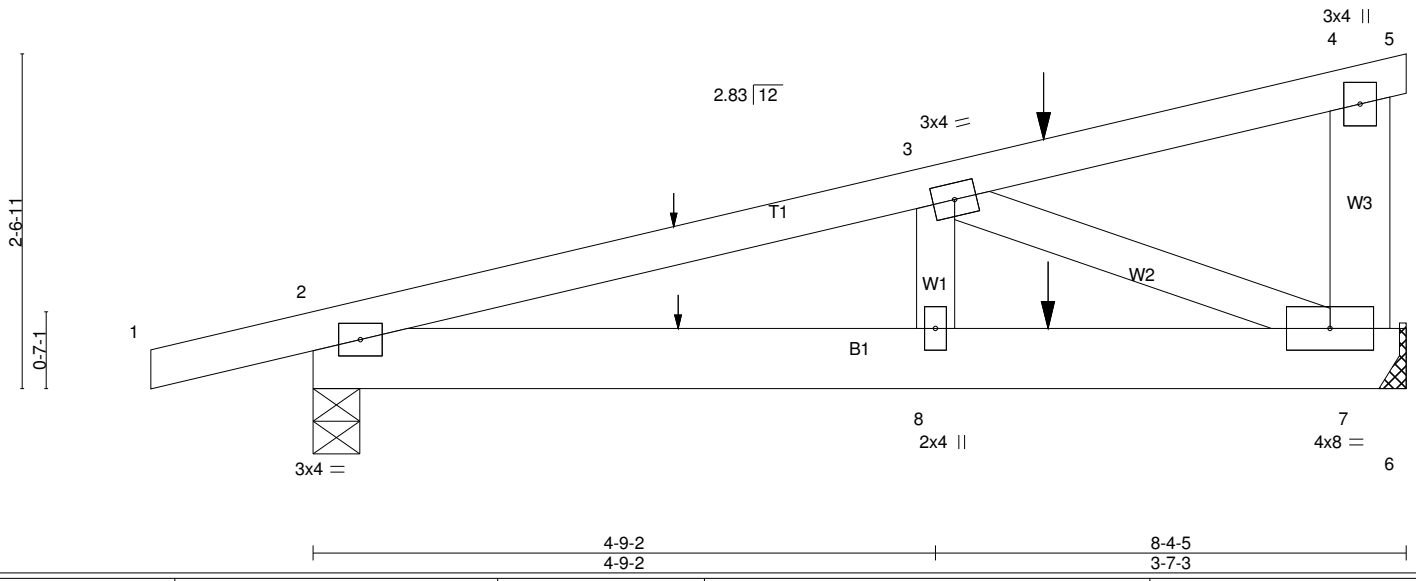
LOAD CASE(S) Standard

| | | | | | |
|---|---------------------|--|-----------------|-----------------|-----------------------------------|
| Job B0620-2502 | Truss ZP1 | Truss Type DIAGONAL HIP GIRDER | Qty 2 | Ply 1 | BeQuest/Douglas Residence/Harnett |
| Comtech, Inc., Fayetteville, NC 28309, Neil Baggett | | | | | Job Reference (optional) |

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Scale = 1:17.6



| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.18 | Vert(LL) 0.01 2-8 >999 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.12 | Vert(CT) -0.02 2-8 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.12 | Horz(CT) 0.00 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | Weight: 44 lb | FT = 20% |

| | |
|--|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* W3: 2x6 SP No.1 | MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. |

REACTIONS. (lb/size) 7=373/Mechanical, 2=422/0-4-5 (min. 0-1-8)
Max Horz 2=74(LC 4)
Max Uplift 7=-157(LC 4), 2=-180(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-603/207, 3-9=-560/215
BOT CHORD 2-11=-248/545, 8-11=-248/545, 8-12=-248/545, 7-12=-248/545
WEBS 3-7=-589/268

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=157, 2=180.
 - 6) 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.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 21 lb up at 2-9-8, 17 lb down and 21 lb up at 2-9-8, and 42 lb down and 57 lb up at 5-7-7, and 42 lb down and 57 lb up at 5-7-7 on top chord, and 2 lb down and 21 lb up at 2-9-8, 2 lb down and 21 lb up at 2-9-8, and 20 lb down and 42 lb up at 5-7-7, and 20 lb down and 42 lb up at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 2-6=-20
Concentrated Loads (lb)
Vert: 10=-38(F=-19, B=-19) 12=-18(F=-9, B=-9)