ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0720-3457
Lot 19 Oak Haven

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: E14672412 thru E14672439

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844


July 28,2020

Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | A1 | ROOF SPECIAL | 4 | 1 | E14672412 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:11 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-bng9DDO1zIyct1X0Z0zRa?rggPrIlRdgOpJBLNytWck

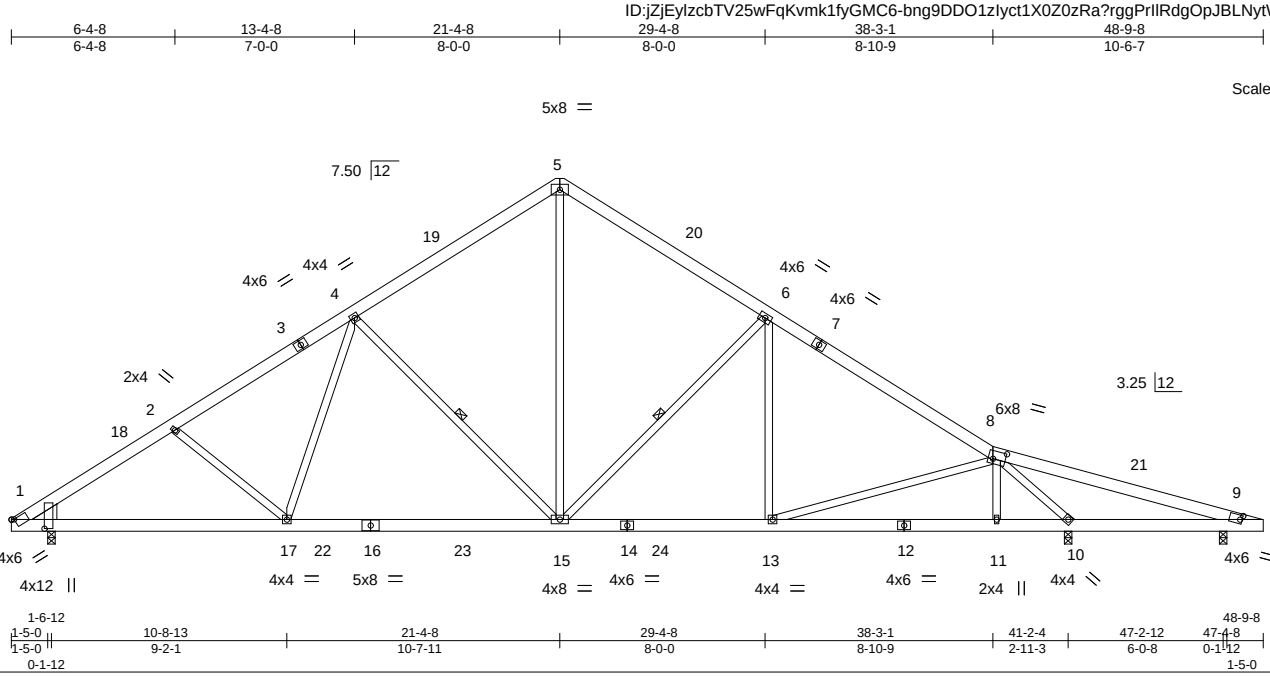


Plate Offsets (X,Y)-- [1:0-4-4,1-3-7], [1:0-1-2,0-0-9], [8:0-5-12,0-3-12], [9:0-1-0,0-2-0]

| 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 | 0.97 | Vert(LL) | -0.20 | 15-17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.77 | Vert(CT) | -0.31 | 15-17 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.06 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 15-17 | >999 | 240 | Weight: 355 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-8-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 4-15, 6-15

**REACTIONS.** (size) 9=0-3-8, 1=0-3-8, 10=0-3-8
Max Horz 1=-274(LC 10)
Max Uplift 9=-129(LC 9), 1=-6(LC 12), 10=-4(LC 13)
Max Grav 9=76(LC 24), 1=1705(LC 19), 10=2159(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2735/336, 2-4=-2510/328, 4-5=-1706/347, 5-6=-1727/346, 6-8=-2142/288, 8-9=-119/954
BOT CHORD 1-17=-198/2418, 15-17=-61/2023, 13-15=-45/1756, 11-13=-73/1314, 10-11=-66/1315, 9-10=-831/150
WEBS 2-17=-312/190, 4-17=0/605, 4-15=-852/218, 5-15=-176/1302, 6-15=-663/189, 6-13=0/261, 8-13=0/489, 8-10=-2880/289

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 21-4-8, Exterior(2) 21-4-8 to 25-9-5, Interior(1) 25-9-5 to 47-10-4 zone; cantilever left and right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10 except (jt=lb) 9=129.


July 28,2020




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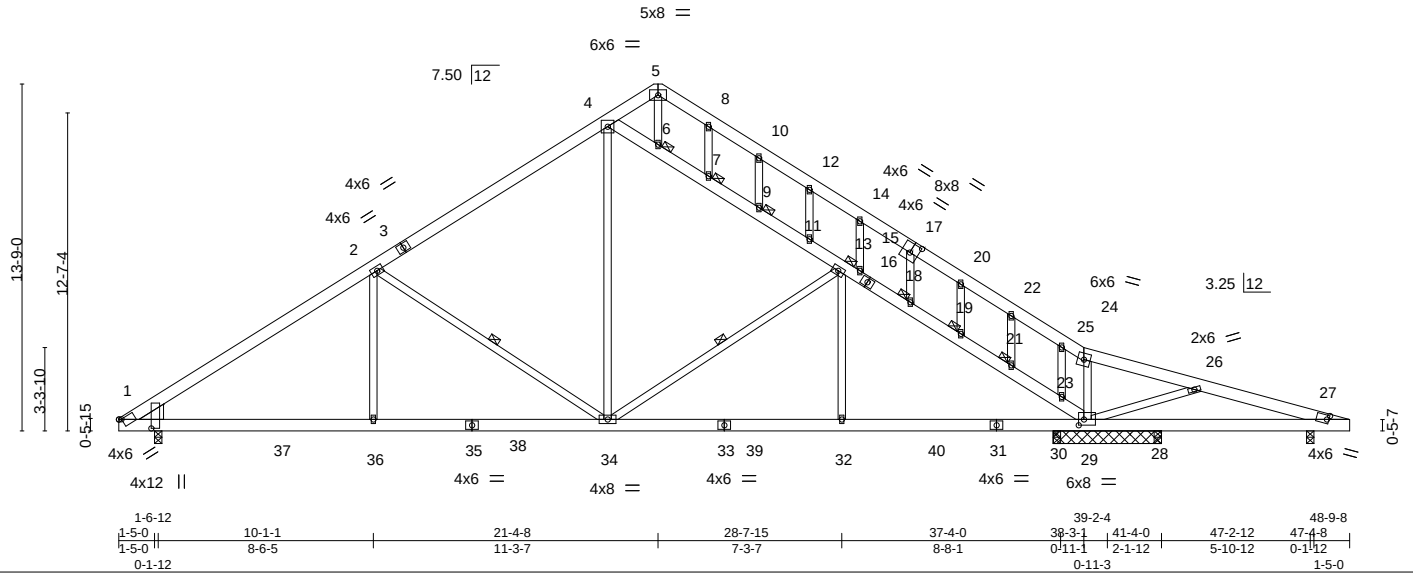
| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672413 |
|---|---|---|---|---|---|---|
| J0720-3457 | A1-GE | GABLE | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:13 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-X9ovevPHVwCK7LhPhR?vfQw2cCWsDNYyr7oIQGytWci

| 10-1-1 | 19-4-8 | 28-7-15 | 38-3-1 | 42-7-9 | 48-9-8 |
|---|---|---|---|---|---|
| 10-1-1 | 9-3-7 | 9-3-7 | 9-7-2 | 4-4-8 | 6-1-15 |

Scale = 1:91.3




| 1-6-12 | 10-1-1 | 21-4-8 | 28-7-15 | 37-4-0 | 39-2-4 | 41-4-0 | 47-2-12 | 48-9-8 |
|---|---|---|---|---|---|---|---|---|
| 1-5-0 | 8-6-5 | 11-3-7 | 7-3-7 | 8-8-1 | 38-3-1 | 2-1-12 | 5-10-12 | 47-4-8 |
| 1-5-0 | | | | | 0-11-1 | | | 0-1-12 |
| 0-1-12 | | | | | 0-11-3 | | | 1-5-0 |

Plate Offsets (X,Y)-- [1:0-4-4,1-3-7], [1:0-1-2,0-0-9], [17:0-4-0,0-4-8], [27:0-1-0,0-2-0], [29:0-2-8,0-2-12]

| 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 | 0.88 | Vert(LL) | -0.10 | 32-34 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.20 | 32-34 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.07 | 27 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | Wind(LL) | 0.06 | 1-36 | >999 | 240 | Weight: 406 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x6 SP No.1 |
| WEBS | 2x4 SP No.2 |
| OTHERS | 2x4 SP No.2 |
| WEDGE | |
| Left: 2x8 SP No.1 | |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-3-15 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 13-34, 2-34 |
| JOINTS | 1 Brace at Jt(s): 13, 6, 7, 9, 18, 19, 21 |

**REACTIONS.** All bearings 0-3-8 except (jt=length) 29=4-3-8.
(lb) - Max Horz 1=-351(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 28 except 27=-114(LC 9), 29=-459(LC 13), 1=-180(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 27=386(LC 24), 29=1305(LC 1), 1=1742(LC 19), 30=559(LC 20), 28=288(LC 3)

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

| | |
|---|---|
| TOP CHORD | 1-2=-2669/377, 2-4=-1737/382, 4-5=-381/170, 4-6=-1465/384, 6-7=-1395/339, 7-9=-1433/372, 9-11=-1445/383, 11-13=-1491/445, 13-15=-1968/470, 15-18=-2038/554, 18-19=-2047/572, 19-21=-2069/588, 21-23=-2096/615, 23-29=-2256/672, 25-26=-383/99, 26-27=-696/142, 5-8=-332/139, 8-10=-330/91, 10-12=-368/68, 12-14=-332/0, 14-17=-288/0, 17-20=-335/0, 20-22=-379/0, 22-24=-417/0, 24-25=-364/93 |
| BOT CHORD | 1-36=-312/2399, 34-36=-312/2399, 32-34=-101/2031, 30-32=-101/2031, 29-30=-101/2031, 28-29=-100/633, 27-28=-100/633 |
| WEBS | 4-34=-173/1176, 13-34=-849/251, 2-34=-1064/324, 13-32=0/531, 25-29=-274/53, 26-29=-440/328, 2-36=0/596, 23-24=-261/88 |

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28 except (jt=lb) 27=114, 29=459, 1=180.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


July 28,2020

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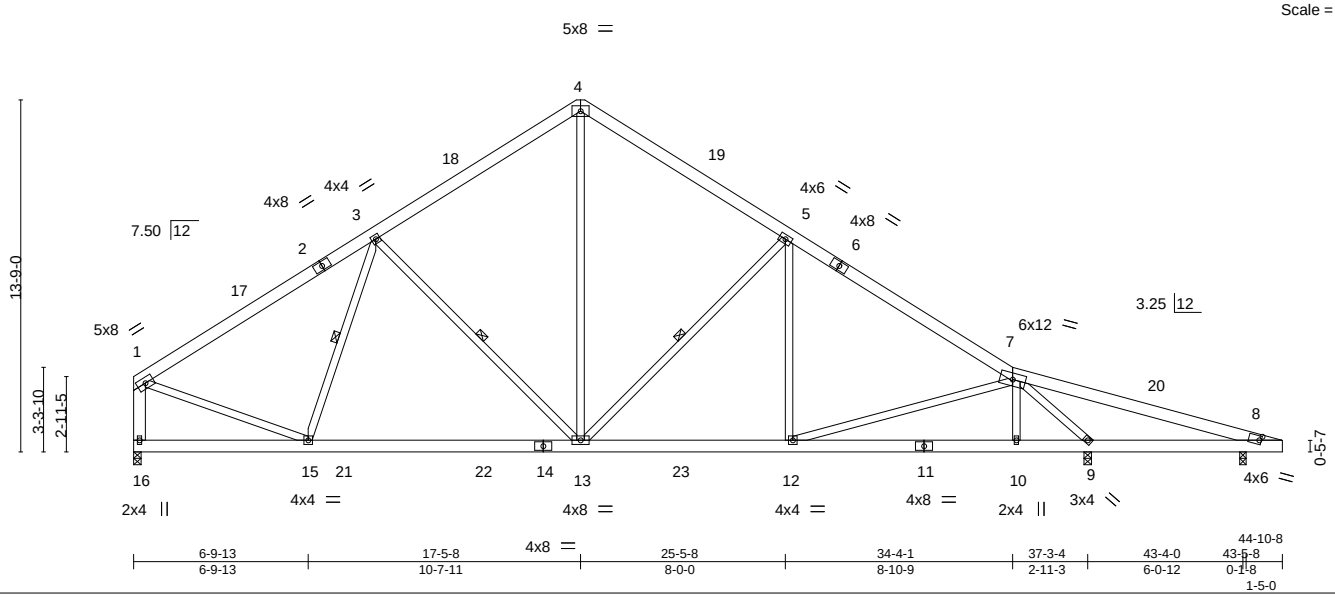
| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | A2 | ROOF SPECIAL | 2 | 1 | E14672414 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:14 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-?LMIsFQvGDLBkVGbE9X8CdTIgcxwypb64nXryiytWch

| 9-5-8 | 17-5-8 | 25-5-8 | 34-4-1 | 44-10-8 |
|---|---|---|---|---|
| 9-5-8 | 8-0-0 | 8-0-0 | 8-10-9 | 10-6-7 |

Scale = 1:90.0




| 6-9-13 | 17-5-8 | 25-5-8 | 34-4-1 | 37-3-4 | 43-4-0 | 43-5-8 | 44-10-8 |
|---|---|---|---|---|---|---|---|
| 6-9-13 | 10-7-11 | 8-0-0 | 8-10-9 | 2-11-3 | 6-0-12 | 0-1-8 | 1-5-0 |

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

| 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 | 0.47 | Vert(LL) | -0.16 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.26 | 13-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.67 | Horz(CT) | 0.04 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.03 | 10-12 | >999 | 240 | Weight: 340 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-16: 2x6 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.
WEBS 1 Row at midpt 3-15, 3-13, 5-13

**REACTIONS.** (size) 8=0-3-0, 16=0-3-8, 9=0-3-8
Max Horz 16=-272(LC 8)
Max Uplift 8=-123(LC 9), 9=-10(LC 13)
Max Grav 8=114(LC 24), 16=1578(LC 19), 9=1946(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1685/214, 3-4=-1468/326, 4-5=-1470/317, 5-7=-1930/265, 7-8=-95/762, 1-16=-1562/202
BOT CHORD 15-16=-153/301, 13-15=-18/1527, 12-13=-26/1568, 10-12=-69/1271, 9-10=-62/1273, 8-9=-647/128
WEBS 1-15=-20/1362, 3-15=-252/133, 3-13=-454/191, 5-13=-703/198, 4-13=-161/1050, 5-12=0/287, 7-12=0/331, 7-9=-2576/254

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-10, Interior(1) 4-8-10 to 17-5-8, Exterior(2) 17-5-8 to 21-11-6, Interior(1) 21-11-6 to 43-11-4 zone; cantilever right exposed ; porch right exposed;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 8=123.


July 28,2020

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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672415 |
|---|---|---|---|---|---|---|
| J0720-3457 | A3 | ROOF SPECIAL | 3 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:16 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-xkU2HxR9orbv_oQ_MaZcH2YeOQe6QnNPX50y0aytWcf

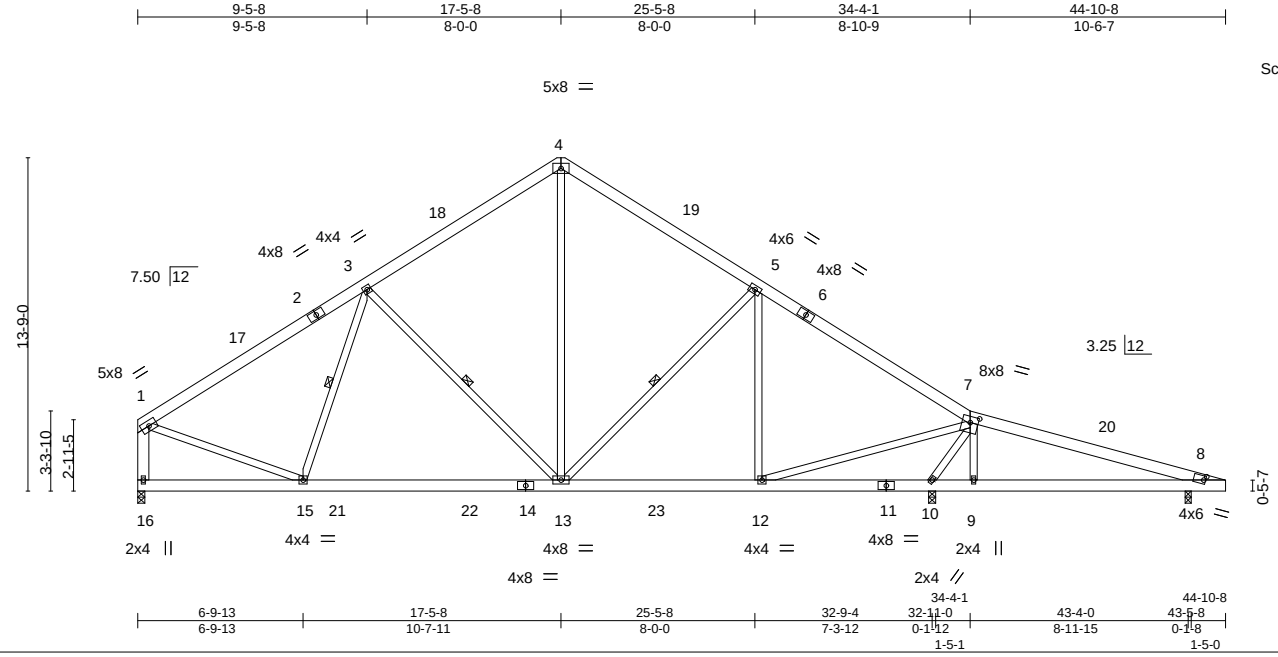


Plate Offsets (X,Y)-- [7:0-4-0,0-3-0], [8:0-1-0,0-2-0]

| 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 | 0.46 | Vert(LL) | -0.16 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.47 | Vert(CT) | -0.25 | 13-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.08 | 8-9 | >999 | 240 | Weight: 338 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-16: 2x6 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-11-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12.
WEBS 1 Row at midpt 3-15, 3-13, 5-13

**REACTIONS.** (size) 8=0-3-0, 16=0-3-8, 10=0-3-8
Max Horz 16=-272(LC 8)
Max Uplift 8=-101(LC 9), 10=-15(LC 13)
Max Grav 8=515(LC 1), 16=1438(LC 19), 10=1665(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1522/190, 3-4=-1252/294, 4-5=-1259/284, 5-7=-1399/187, 7-8=-715/232, 1-16=-1422/182
BOT CHORD 15-16=-152/301, 13-15=-20/1374, 12-13=0/1128, 10-12=-362/197, 9-10=-139/606, 8-9=-152/612
WEBS 1-15=0/1213, 3-13=-490/197, 5-13=-322/162, 4-13=-128/828, 5-12=-320/141, 7-12=-159/1511, 7-9=-282/305, 7-10=-1809/640

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-10, Interior(1) 4-8-10 to 17-5-8, Exterior(2) 17-5-8 to 21-11-6, Interior(1) 21-11-6 to 43-11-4 zone; cantilever right exposed ; porch right exposed;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 8=101.


July 28,2020




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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | A4 | COMMON | 1 | 2 | E14672416 |
| | | | | | Job Reference (optional) |

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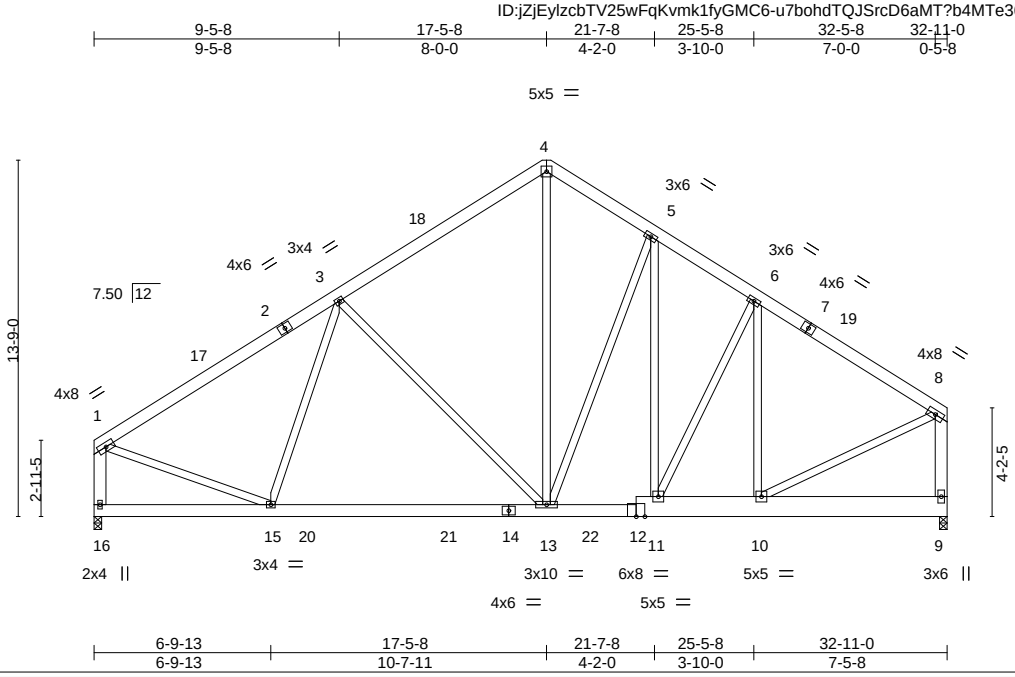


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.19 | Vert(LL) | -0.08 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.12 | 13-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.45 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | Wind(LL) | 0.02 | 11 | >999 | 240 | Weight: 649 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1 |
| WEBS | 2x4 SP No.2 *Except* 1-16,8-9: 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. |

**REACTIONS.** (size) 9=0-3-8, 16=0-3-8
Max Horz 16=219(LC 9)
Max Uplift 9=-25(LC 13), 16=-13(LC 12)
Max Grav 9=2049(LC 20), 16=1774(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1909/260, 3-4=-1764/389, 4-5=-1666/401, 5-6=-2047/438, 6-8=-1962/323, 1-16=-1754/242, 8-9=-1974/321
BOT CHORD 15-16=-230/273, 13-15=-186/1719, 11-13=-156/1702, 10-11=-178/1600
WEBS 1-15=-67/1558, 3-15=-345/154, 3-13=-394/179, 5-13=-933/262, 4-13=-271/1416, 6-10=-553/163, 8-10=-175/1745, 5-11=-213/907

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-8-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 17-5-8, Exterior(2) 17-5-8 to 21-7-8, Interior(1) 21-7-8 to 32-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 16.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1100 lb down and 188 lb up at 21-7-8 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: 1-4=-60, 4-8=-60, 9-16=-20


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Continued on page 2



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**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 11=-1100(F)

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672417 |
|---|---|---|---|---|---|---|
| J0720-3457 | A5-GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:19 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-MJ9BvyU24mzTrG8Z1i6JvhAEEdjpdBHrE3FcdvytWcc

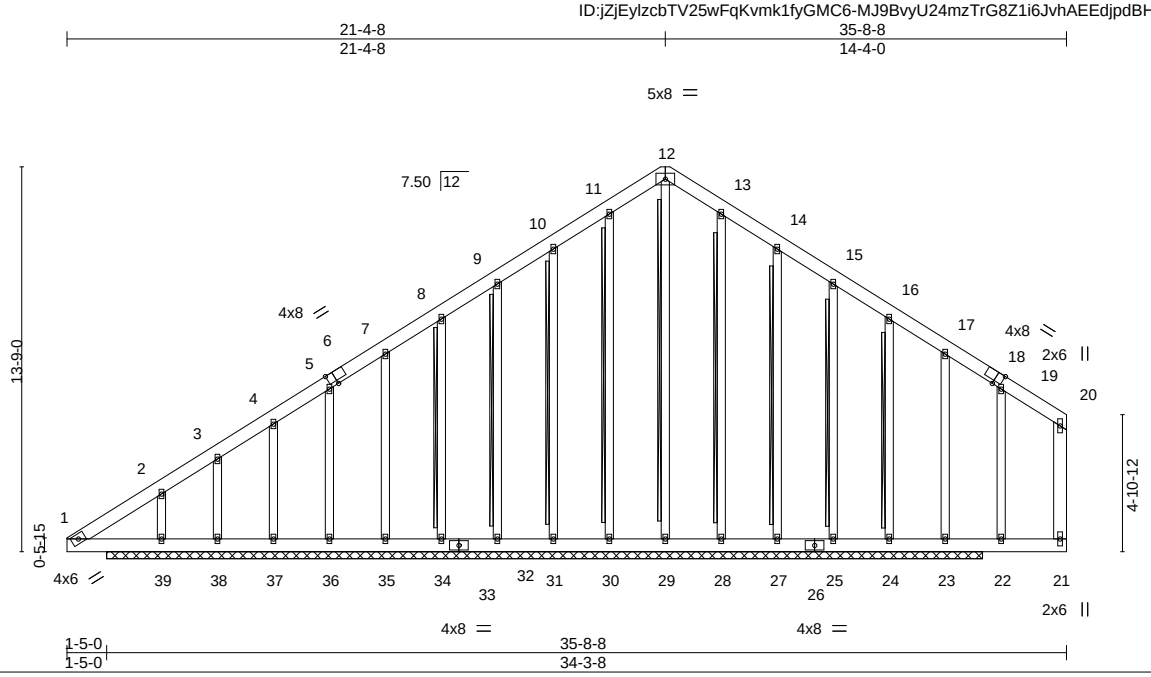


Plate Offsets (X,Y)-- [6:0-3-4,Edge], [18:0-3-4,Edge]

| 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 | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | -0.00 | 23 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 377 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 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | T-Brace: 2x4 SPF No.2 - 12-29, 11-30, 10-31, 9-32, 8-34, 13-28, 14-27, 15-25, 16-24 |

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.

**REACTIONS.** All bearings 31-3-8.
(lb) - Max Horz 39=333(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 29, 30, 31, 32, 34, 35, 36, 37, 28, 27, 25, 24 except 38=-466(LC 9), 39=-220(LC 8), 23=-215(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 30, 31, 32, 34, 35, 36, 37, 28, 27, 25, 24 except 29=295(LC 22), 38=348(LC 10), 39=741(LC 20), 23=593(LC 24)

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

| | |
|---|---|
| TOP CHORD | 1-2=-312/325, 2-3=-371/352, 3-4=-244/285, 4-5=-225/270, 5-7=-202/251, 8-9=-168/280, 9-10=-170/315, 10-11=-223/356, 11-12=-245/357, 12-13=-245/345, 13-14=-223/318, 14-15=-169/251 |
| BOT CHORD | 1-39=-295/328 |
| WEBS | 12-29=-263/108, 2-39=-357/98, 17-23=-288/141 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 30, 31, 32, 34, 35, 36, 37, 28, 27, 25, 24 except (jt=lb) 38=466, 39=220, 23=215.
9) Non Standard bearing condition. Review required.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.


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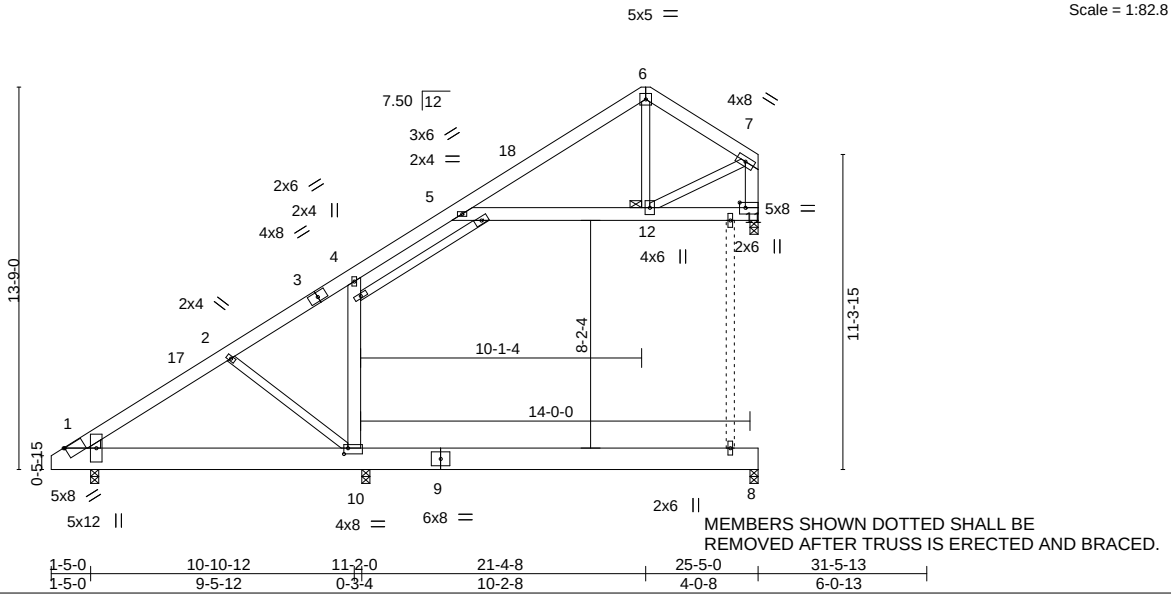
| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672418 |
|---|---|---|---|---|---|---|
| J0720-3457 | A6 | ROOF TRUSS | 8 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:21 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-liHxKeVIcNDB4ZIx979n_6GREREd53m8hMkjioytWca

| 6-5-8 | 10-10-12 | 14-9-4 | 21-4-8 | 25-5-0 | 27-11-12 | 31-5-13 |
|---|---|---|---|---|---|---|
| 6-5-8 | 4-5-4 | 3-10-8 | 6-7-4 | 4-0-8 | 2-6-12 | 3-6-1 |

Scale = 1:82.8




| 1-5-0 | 10-10-12 | 11-2-0 | 21-4-8 | 25-5-0 | 31-5-13 |
|---|---|---|---|---|---|
| 1-5-0 | 9-5-12 | 0-3-4 | 10-2-8 | 4-0-8 | 6-0-13 |

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

| 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 | 0.71 | Vert(LL) | -0.25 | 8-10 | >677 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.41 | 8-10 | >416 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.32 | Horz(CT) | 0.20 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.00 | 1-10 | >999 | 240 | Weight: 253 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1 *Except*
15-16: 2x4 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
5-11,4-10,7-11: 2x6 SP No.1
WEDGE
Left: 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 4-4-8 oc bracing.
JOINTS 1 Brace at Jt(s): 12

**REACTIONS.** All bearings 0-3-8.
(lb) - Max Horz 1=325(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 11, 10
Max Grav All reactions 250 lb or less at joint(s) 1 except 11=373(LC 1), 10=1997(LC 19), 8=657(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-286/229, 2-4=-267/322, 4-5=-257/26, 5-6=-361/133, 6-7=-342/174, 7-11=-370/165
WEBS 5-12=-110/279, 4-10=-833/404, 7-12=-122/320

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-4 to 5-1-1, Interior(1) 5-1-1 to 21-4-8, Exterior(2) 21-4-8 to 25-2-4 zone; cantilever left exposed ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 10.
6) 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: 1-10=-20, 8-10=-50(F=-30), 1-6=-60, 6-7=-60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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | A7 | COMMON | 3 | 1 | E14672419 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:22 2020 Page 1
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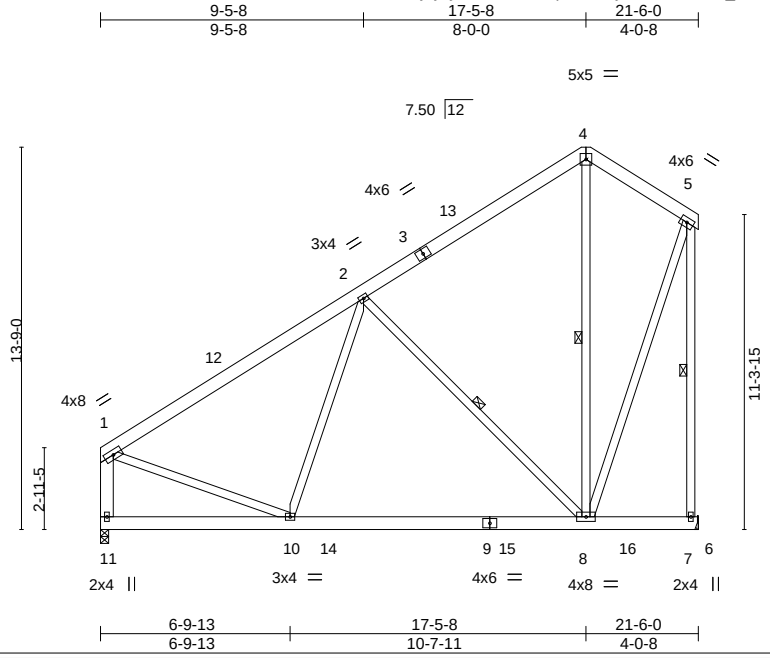


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.38 | Vert(LL) | -0.15 | 8-10 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.23 | 8-10 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.01 | 8-10 | >999 | 240 | Weight: 206 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x6 SP No.1 |
| WEBS | 2x4 SP No.2 *Except* 1-11: 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. |
| WEBS | 1 Row at midpt 2-8, 4-8, 5-7 |

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical
Max Horz 11=258(LC 12)
Max Uplift 7=-91(LC 12)
Max Grav 11=908(LC 19), 7=1055(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-913/35, 2-4=-432/91, 4-5=-345/102, 1-11=-898/49, 5-7=-1032/200
BOT CHORD 10-11=-308/351, 8-10=-202/725
WEBS 2-8=-647/235, 1-10=0/666, 5-8=-124/853, 2-10=0/264

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 17-5-8, Exterior(2) 17-5-8 to 21-2-12 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) 7.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | |
|---|---|---|---|---|---|---|
| J0720-3457 | B1 | ROOF SPECIAL | 1 | 1 | Job Reference (optional) | E14672420 |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:24 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-iHy4ygYBvIbmx11WqFiUckuw_eGdILJaNKyNJ7ytWcX

| 10-1-1 | 19-4-8 | 28-7-15 | 34-11-2 | 38-9-0 | 39-9-12 | 43-0-14 | 48-9-8 |
|---|---|---|---|---|---|---|---|
| 10-1-1 | 9-3-7 | 9-3-7 | 6-3-4 | 3-9-14 | 1-0-12 | 3-3-2 | 5-8-10 |

Scale = 1:82.2

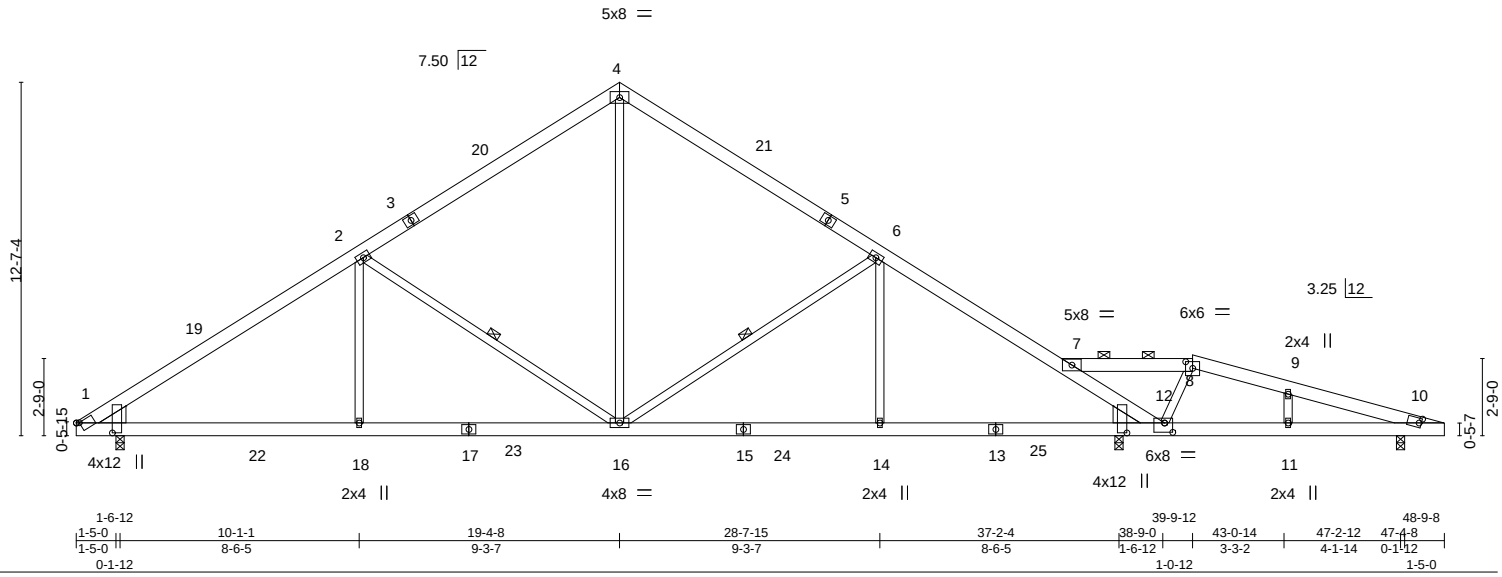


Plate Offsets (X,Y)-- [1:0-4-4,1-3-7], [1:0-1-2,0-0-9], [8:0-3-0,0-2-13], [10:0-1-0,0-2-0], [12:0-3-8,0-4-0], [12:0-4-4,1-4-2]

| 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 | 0.87 | Vert(LL) | -0.11 | 14-16 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.20 | 14-16 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.07 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 10-11 | >999 | 240 | Weight: 331 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 2x8 SP No.1

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

**REACTIONS.** (size) 10=0-3-8, 12=0-3-8, 1=0-3-8
Max Horz 1=-248(LC 8)
Max Uplift 10=-110(LC 9), 12=-64(LC 13)
Max Grav 10=220(LC 24), 12=2161(LC 2), 1=1712(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2627/272, 2-4=-1722/308, 4-6=-1725/297, 6-7=-2460/227, 7-12=-2872/276, 7-8=-116/443, 8-9=-90/344, 9-10=-126/323
BOT CHORD 1-18=-100/2292, 16-18=-100/2292, 14-16=-57/2038, 12-14=-57/2038, 11-12=-277/134, 10-11=-277/134
WEBS 4-16=-108/1231, 6-16=-930/163, 2-16=-1059/215, 6-14=0/561, 8-12=-492/226, 2-18=0/598

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 19-4-8, Exterior(2) 19-4-8 to 23-9-5, Interior(1) 23-9-5 to 47-10-4 zone; cantilever left and right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 10=110.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | B2 | ROOF SPECIAL | 1 | 1 | E14672421 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:25 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-ATWS90YpgcjdZBciOzDj8yQ3l2aP1oYjc_ixrZytWcW

| 10-1-1 | 19-4-8 | 28-7-15 | 36-4-2 | 38-9-0 | 43-0-14 | 48-9-8 |
|---|---|---|---|---|---|---|
| 10-1-1 | 9-3-7 | 9-3-7 | 7-8-3 | 2-4-14 | 4-3-14 | 5-8-10 |

Scale = 1:86.0

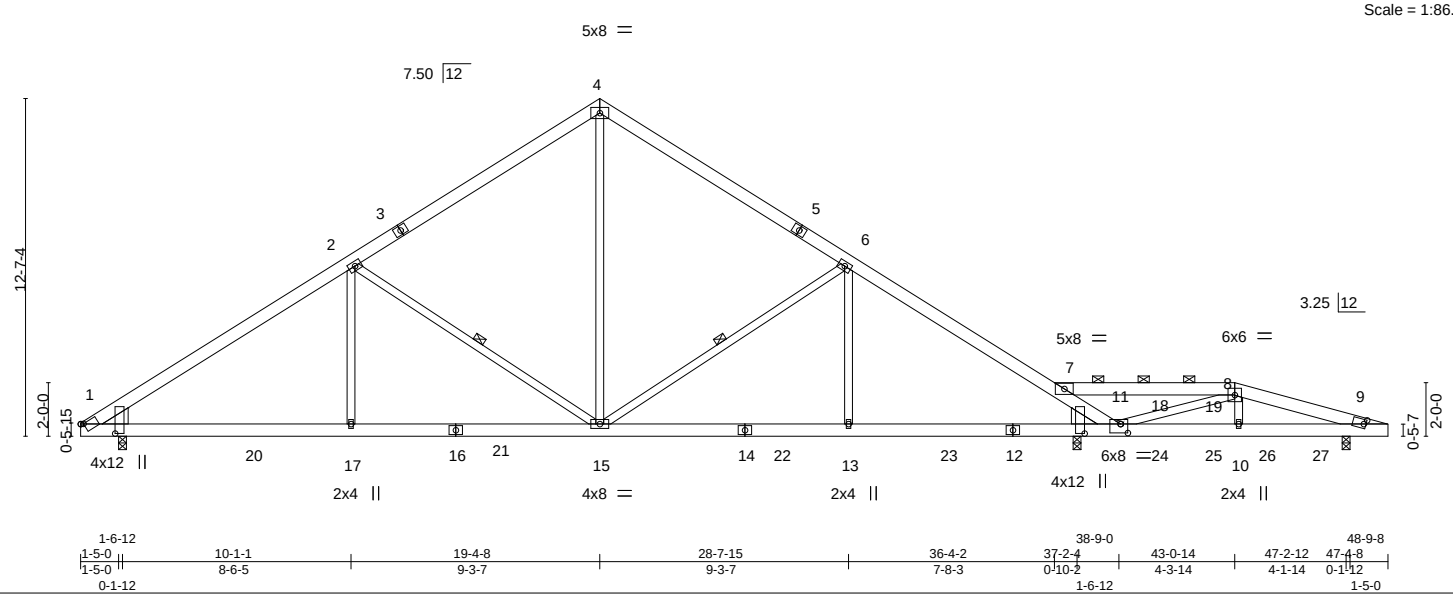


Plate Offsets (X,Y)-- [1:0-4-4,1-3-7], [1:0-1-2,0-0-9], [9:0-1-0,0-2-0], [11:0-3-4,0-4-0], [11:0-4-4,1-4-2]

| 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 | 0.99 | Vert(LL) | -0.11 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.20 | 13-15 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.59 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 1-17 | >999 | 240 | Weight: 332 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 2x8 SP No.1

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

**REACTIONS.** (size) 9=0-3-8, 11=0-3-8, 1=0-3-8
Max Horz 1=-248(LC 32)
Max Uplift 9=-159(LC 5), 11=-130(LC 9), 1=-1(LC 34)
Max Grav 9=240(LC 20), 11=2176(LC 2), 1=1717(LC 15)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2636/22, 2-4=-1733/98, 4-6=-1736/104, 6-7=-2520/0, 7-11=-3188/155, 7-8=-201/729, 8-9=-304/324
BOT CHORD 1-17=-37/2300, 15-17=-37/2300, 13-15=0/2057, 11-13=0/2057, 10-11=-280/259, 9-10=-285/262
WEBS 4-15=0/1244, 6-15=-961/132, 2-15=-1060/165, 6-13=0/565, 8-11=-1028/310, 2-17=0/598

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 4x6 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=159, 11=130.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 44 lb up at 40-2-11, and 64 lb down and 44 lb up at 42-2-11 on top chord, and 16 lb down and 27 lb up at 40-2-11, 16 lb down and 27 lb up at 42-2-11, and 18 lb down and 29 lb up at 44-2-11, and 19 lb down and 70 lb up at 46-2-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) 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


July 28,2020

Continued on page 2



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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 7-8=-60, 8-9=-60, 1-9=-20

Concentrated Loads (lb)

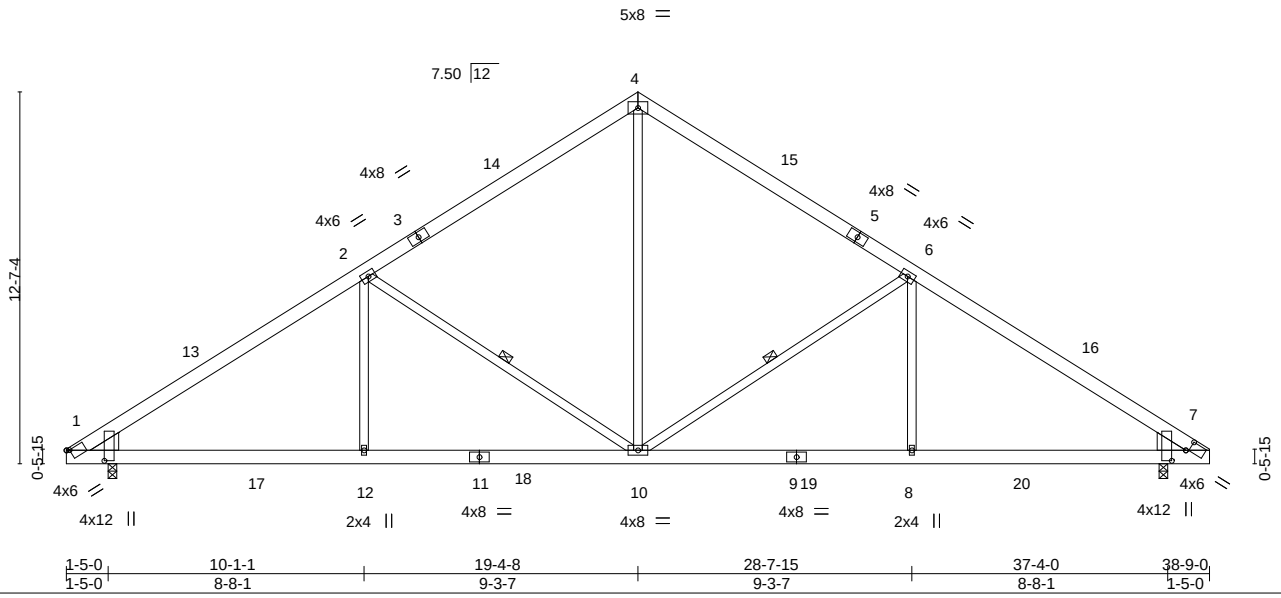
Vert: 18=-24(B) 19=-24(B) 24=-8(B) 25=-8(B) 26=-16(B) 27=34(B)

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672422 |
|---|---|---|---|---|---|---|
| J0720-3457 | B3 | FINK | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:27 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-7seCaia3CDzLoUm5VNFBDNWR4rI7Vi_03IB1vSytWcU

| 10-1-1 | 19-4-8 | 28-7-15 | 38-9-0 |
|---|---|---|---|
| 10-1-1 | 9-3-7 | 9-3-7 | 10-1-1 |

Scale = 1:78.1




| 1-5-0 | 10-1-1 | 19-4-8 | 28-7-15 | 37-4-0 | 38-9-0 |
|---|---|---|---|---|---|
| 1-5-0 | 8-8-1 | 9-3-7 | 9-3-7 | 8-8-1 | 1-5-0 |

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

| 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 | 0.88 | Vert(LL) | -0.10 | 7-8 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.19 | 1-12 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.05 | 1-12 | >999 | 240 | Weight: 270 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x8 SP No.1 , Right: 2x8 SP No.1

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-10, 2-10

**REACTIONS.** (size) 1=0-3-8, 7=0-3-8
Max Horz 1=247(LC 11)
Max Uplift 1=-3(LC 12), 7=-3(LC 13)
Max Grav 1=1725(LC 19), 7=1725(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2652/290, 2-4=-1756/324, 4-6=-1756/324, 6-7=-2652/290
BOT CHORD 1-12=-114/2312, 10-12=-114/2312, 8-10=-115/2127, 7-8=-115/2127
WEBS 4-10=-135/1275, 6-10=-1066/218, 6-8=0/601, 2-10=-1065/218, 2-12=0/601

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-4 to 4-10-1, Interior(1) 4-10-1 to 19-4-8, Exterior(2) 19-4-8 to 23-9-5, Interior(1) 23-9-5 to 38-3-12 zone; cantilever left and right exposed ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.

NORTH CAROLINA PROFESSIONAL SEAL 036322 ENGINEER ERIC A. GILBERT

July 28,2020

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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | B3-GE | COMMON SUPPORTED GAB | 1 | 1 | E14672423 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:29 2020 Page 1
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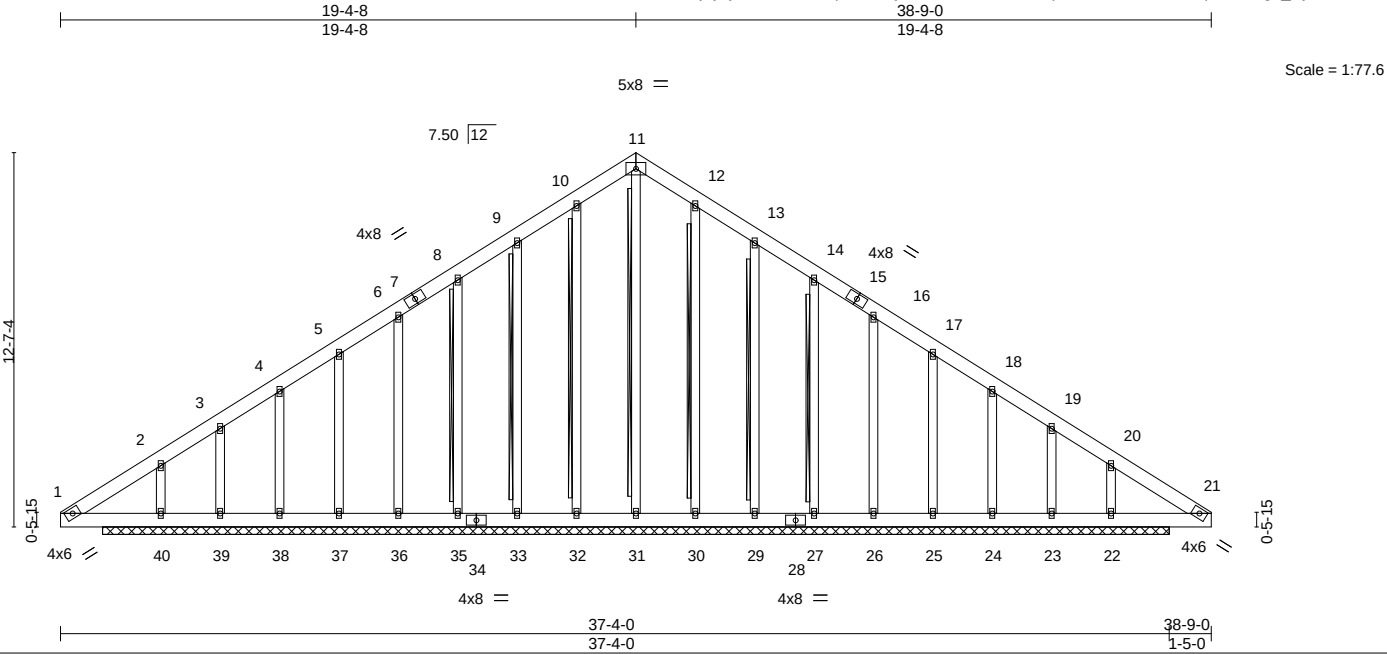


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | -0.01 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 359 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 10-0-0 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | T-Brace: 2x4 SPF No.2 - 11-31, 10-32, 9-33, 8-35, 12-30, 13-29, 14-27 |
| | 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. |

**REACTIONS.** All bearings 35-11-0.
(lb) - Max Horz 40=-309(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 32, 33, 35, 36, 37, 38, 30, 29, 27, 26, 25, 24 except 39=-233(LC 9), 40=-137(LC 13), 23=-208(LC 8), 22=-116(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 32, 33, 35, 36, 37, 38, 30, 29, 27, 26, 25, 24, 23 except 31=341(LC 22), 39=254(LC 10), 40=446(LC 20), 22=422(LC 19)

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

| | |
|---|---|
| TOP CHORD | 1-2=-159/309, 2-3=-155/285, 3-4=-78/263, 4-5=-51/253, 5-6=-41/266, 6-8=-87/278, 8-9=-133/299, 9-10=-185/363, 10-11=-212/385, 11-12=-212/385, 12-13=-185/363, 13-14=-133/299, 14-16=-87/268, 16-17=-41/256, 19-20=-131/267, 20-21=-147/305 |
| WEBS | 11-31=-301/81, 2-40=-255/108, 20-22=-255/104 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 33, 35, 36, 37, 38, 30, 29, 27, 26, 25, 24 except (jt=lb) 39=233, 40=137, 23=208, 22=116.
9) Non Standard bearing condition. Review required.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.


July 28,2020




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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | C1-GE | GABLE | 1 | 1 | E14672424 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:30 2020 Page 1
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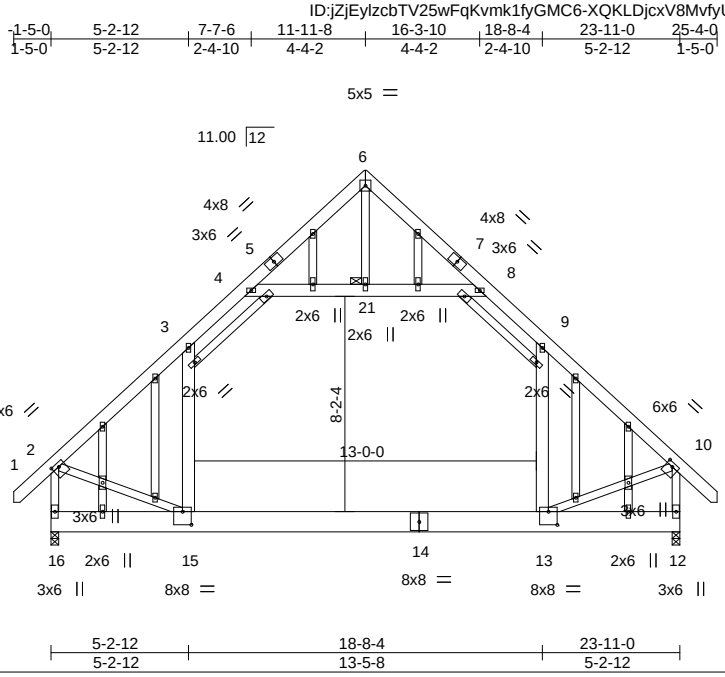


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12], [10:0-3-0,0-1-12], [13:0-4-0,0-6-0], [15:0-4-0,0-6-0]

| 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 | 0.68 | Vert(LL) | -0.26 | 13-15 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.41 | 13-15 | >693 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.01 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.09 | 13-15 | >999 | 240 | Weight: 298 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 *Except* 17-18,19-20: 2x4 SP No.1 |
| BOT CHORD | 2x10 SP No.1 |
| WEBS | 2x4 SP No.2 *Except* 4-8,3-15,9-13: 2x6 SP No.1 |
| OTHERS | 2x4 SP No.2 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 8-8-5 oc bracing. |
| JOINTS | 1 Brace at Jt(s): 21 |

**REACTIONS.** (size) 16=0-3-8, 12=0-3-8
Max Horz 16=395(LC 11)
Max Grav 16=1652(LC 21), 12=1652(LC 20)

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

| | |
|---|---|
| TOP CHORD | 2-3=-1755/0, 3-4=-1163/115, 4-6=-326/77, 6-8=-326/77, 8-9=-1162/115, 9-10=-1755/0, 2-16=-1875/0, 10-12=-1875/0 |
| BOT CHORD | 15-16=-367/408, 13-15=0/1215 |
| WEBS | 4-21=-1067/148, 8-21=-1067/148, 3-15=-30/673, 9-13=-30/673, 2-15=0/1265, 10-13=0/1266 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-21, 8-21; Wall dead load (5.0psf) on member(s).3-15, 9-13
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
10) Attic room checked for L/360 deflection.


July 28,2020




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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672425 |
|---|---|---|---|---|---|---|
| J0720-3457 | C2 | ATTIC | 4 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:31 2020 Page 1
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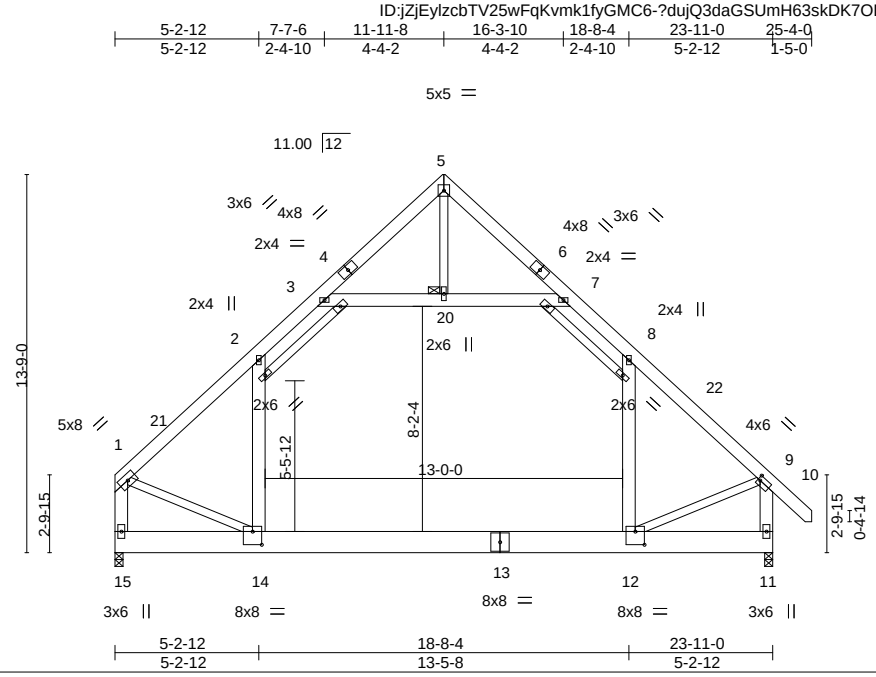


Plate Offsets (X,Y)-- [9:0-1-0,0-2-0], [12:0-4-0,0-5-12], [14:0-4-0,0-5-12]

| 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 | 0.69 | Vert(LL) | -0.25 | 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.39 | 12-14 | >718 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.07 | 12-14 | >999 | 240 | Weight: 268 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1 *Except* 16-17,18-19: 2x4 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except* 1-14,9-12,5-20: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.
JOINTS 1 Brace at Jt(s): 20

**REACTIONS.** (size) 15=0-3-8, 11=0-3-8
Max Horz 15=284(LC 11)
Max Grav 15=1592(LC 21), 11=1658(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1727/0, 2-3=-1152/76, 3-5=-331/63, 5-7=-330/65, 7-8=-1147/66, 8-9=-1736/0, 1-15=-1806/0, 9-11=-1877/0
BOT CHORD 14-15=-262/327, 12-14=0/1172
WEBS 3-20=-1052/94, 7-20=-1052/94, 2-14=-22/672, 8-12=-4/697, 1-14=0/1192, 9-12=0/1175

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-8, Exterior(2) 11-11-8 to 16-7-11, Interior(1) 16-7-11 to 25-2-9 zone; end vertical right exposed;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) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-20, 7-20; Wall dead load (5.0psf) on member(s).2-14, 8-12
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
7) Attic room checked for L/360 deflection.


July 28,2020




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818 Soundside Road
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672426 |
|---|---|---|---|---|---|---|
| J0720-3457 | C3 | ATTIC | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:33 2020 Page 1
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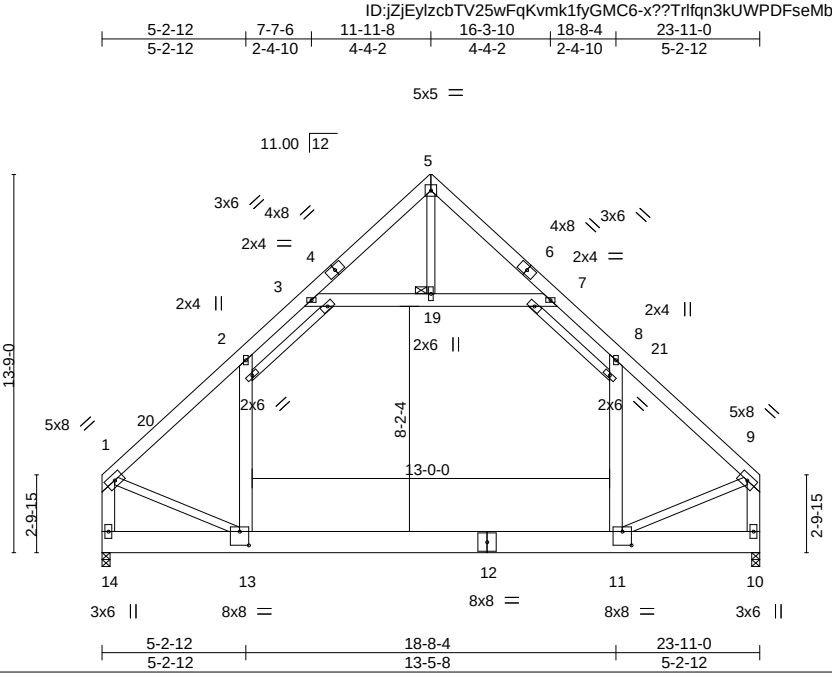


Scale = 1:83.8

Plate Offsets (X,Y)-- [11:0-4-0,0-6-0], [13:0-4-0,0-6-0]

| 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 | 0.67 | Vert(LL) | -0.25 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.81 | Vert(CT) | -0.40 | 11-13 | >713 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.28 | Horz(CT) | 0.01 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.07 | 11-13 | >999 | 240 | Weight: 264 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1 *Except* 15-16,17-18: 2x4 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except* 1-13,9-11,5-19: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-10-10 oc bracing.
JOINTS 1 Brace at Jt(s): 19

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8
Max Horz 14=220(LC 9)
Max Grav 14=1592(LC 21), 10=1592(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1729/0, 2-3=-1152/70, 3-5=-328/63, 5-7=-328/63, 7-8=-1152/70, 8-9=-1729/0, 1-14=-1808/0, 9-10=-1808/0
BOT CHORD 13-14=-230/294, 11-13=0/1152
WEBS 3-19=-1056/84, 7-19=-1056/84, 2-13=-20/676, 8-11=-20/676, 1-13=0/1193, 9-11=0/1194

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-8, Exterior(2) 11-11-8 to 16-7-11, Interior(1) 16-7-11 to 23-8-4 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) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-19, 7-19; Wall dead load (5.0psf) on member(s).2-13, 8-11
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
7) Attic room checked for L/360 deflection.


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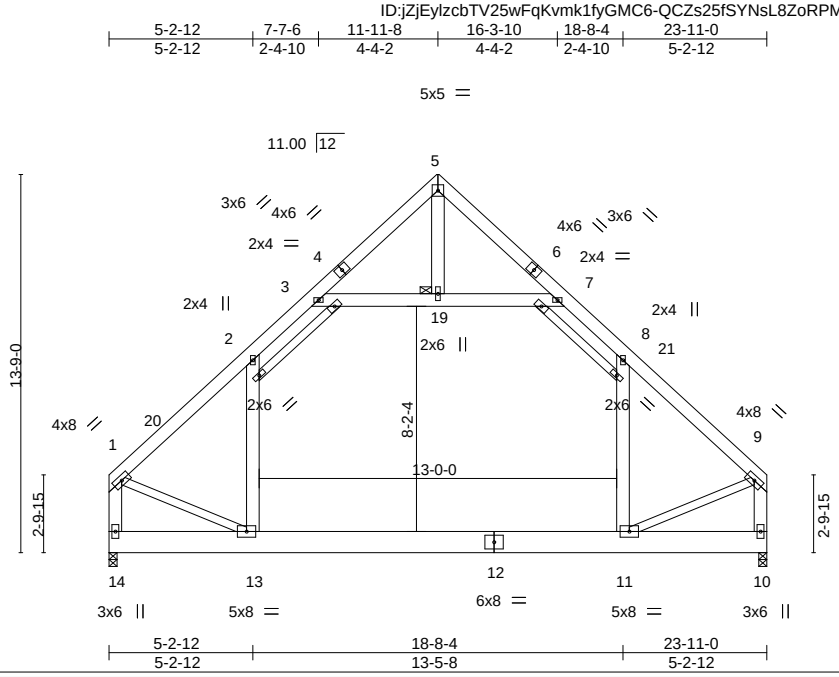
| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | C4 | ATTIC | 1 | 2 | E14672427 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:34 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-QCZs25fSYNsL8ZoRPMuq0rIpSgn8exM2guNvfYytWcN




Scale = 1:83.8

| 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 | 0.10 | Vert(LL) | -0.10 | 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.49 | Vert(CT) | -0.15 | 11-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.36 | Horz(CT) | 0.01 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | Wind(LL) | 0.03 | 13 | >999 | 240 | Weight: 534 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1 *Except* 15-16,17-18: 2x4 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except* 1-13,9-11: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 19

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8
Max Horz 14=220(LC 9)
Max Grav 14=3676(LC 21), 10=3676(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3822/94, 2-3=-3753/328, 3-5=-3437/375, 5-7=-3437/375, 7-8=-3753/328, 8-9=-3822/94, 1-14=-3909/78, 9-10=-3910/78
BOT CHORD 13-14=-231/285, 11-13=0/2770
WEBS 3-19=-452/5, 7-19=-452/5, 2-13=-452/234, 8-11=-452/234, 1-13=0/3007, 9-11=0/3009

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 11-11-8, Exterior(2) 11-11-8 to 16-7-11, Interior(1) 16-7-11 to 23-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-19, 7-19; Wall dead load (5.0psf) on member(s).2-13, 8-11
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4168 lb down and 409 lb up at 11-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
10) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15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Continued on page 2



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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 13-14=-20, 11-13=-40, 10-11=-20, 1-2=-60, 2-3=-80, 3-5=-60, 5-7=-60, 7-8=-80, 8-9=-60, 3-7=-20

Drag: 2-13=-10, 8-11=-10

Concentrated Loads (lb)

Vert: 5=-2393(B)

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672428 |
|---|---|---|---|---|---|---|
| J0720-3457 | D1 | COMMON | 5 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:35 2020 Page 1
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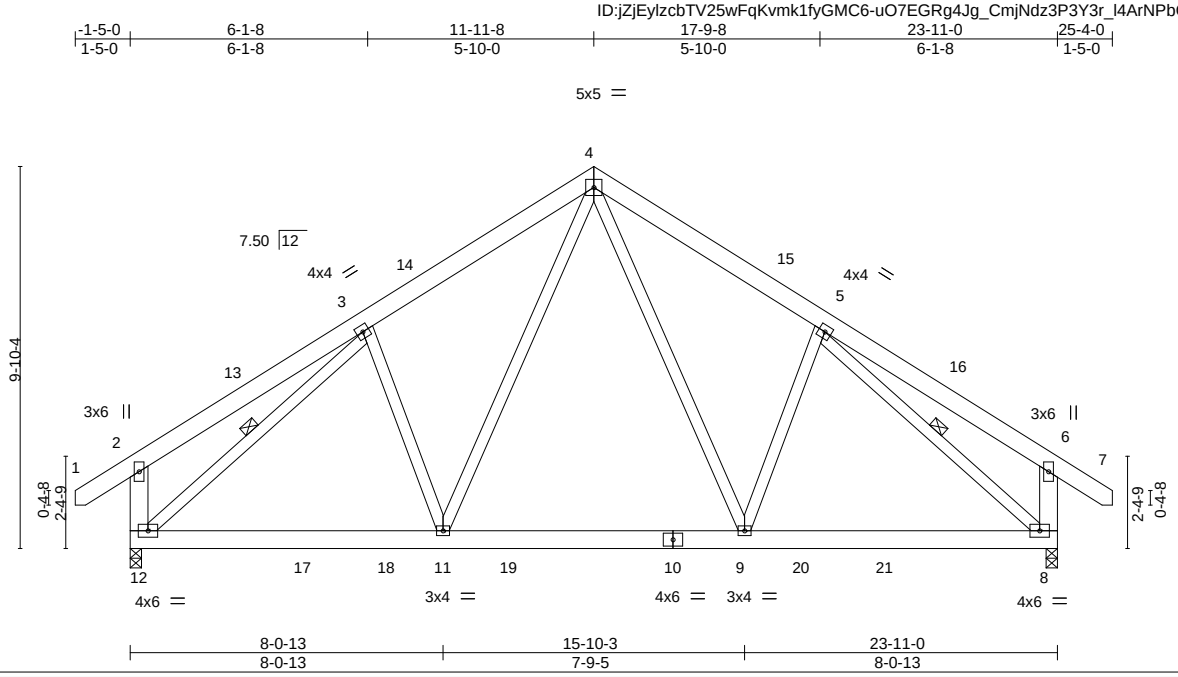


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | -0.05 | 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | -0.08 | 9-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.02 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | -0.01 | 9-11 | >999 | 240 | Weight: 206 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.1 |
| BOT CHORD | 2x6 SP No.1 |
| WEBS | 2x4 SP No.2 *Except* 2-12,6-8: 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. |
| WEBS | 1 Row at midpt 3-12, 5-8 |

**REACTIONS.** (size) 12=0-3-8, 8=0-3-8
Max Horz 12=-229(LC 10)
Max Uplift 12=-13(LC 12), 8=-13(LC 13)
Max Grav 12=1132(LC 19), 8=1131(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/149, 3-4=-1089/253, 4-5=-1087/253, 5-6=-268/149, 2-12=-356/195, 6-8=-356/195
BOT CHORD 11-12=-68/970, 9-11=0/748, 8-9=-51/865
WEBS 4-9=-82/476, 4-11=-81/480, 3-12=-1054/54, 5-8=-1051/54

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-7 to 3-1-6, Interior(1) 3-1-6 to 11-11-8, Exterior(2) 11-11-8 to 16-4-5, Interior(1) 16-4-5 to 25-2-7 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 8.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672429 |
|---|---|---|---|---|---|---|
| J0720-3457 | D1-GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

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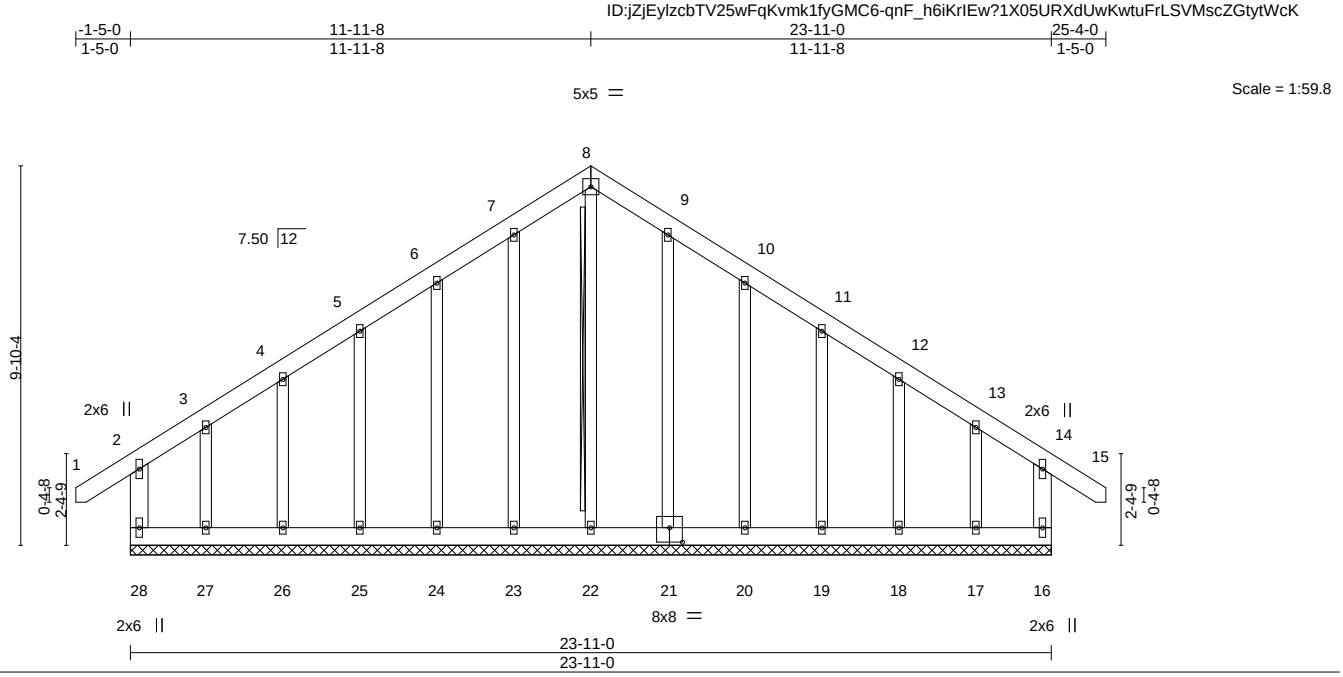


Plate Offsets (X,Y)-- [21:0-4-0,0-4-8]

| 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) | -0.00 | 15 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.08 | Vert(CT) | -0.00 | 15 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | -0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | | | Weight: 229 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 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | T-Brace: 2x4 SPF No.2 - 8-22 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. |

**REACTIONS.** All bearings 23-11-0.
(lb) - Max Horz 28=-287(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 21, 20, 19, 18 except 28=-205(LC 8), 16=-178(LC 9), 27=-222(LC 9), 17=-200(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 21, 20, 19, 18 except 28=303(LC 20), 16=280(LC 19), 27=313(LC 10), 17=291(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-210/275, 7-8=-237/308, 8-9=-237/307, 9-10=-210/275

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 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.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 24, 25, 26, 21, 20, 19, 18 except (jt=lb) 28=205, 16=178, 27=222, 17=200.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.


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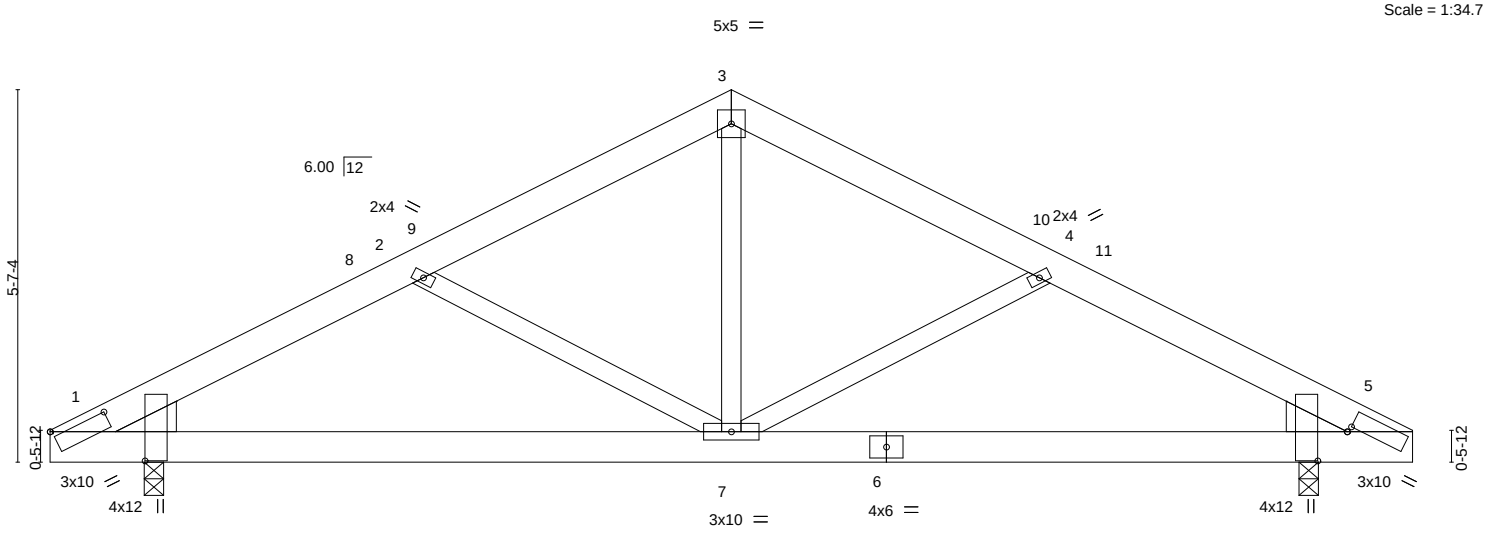
| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672430 |
|---|---|---|---|---|---|---|
| J0720-3457 | E1 | COMMON | 4 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:38 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-IzpMuSizcbMndB5CeBymAhTOFHAJan9ebWL7oJytWcJ

| 5-7-6 | 10-3-0 | 14-10-10 | 20-6-0 |
|---|---|---|---|
| 5-7-6 | 4-7-10 | 4-7-10 | 5-7-6 |

Scale = 1:34.7




| 1-5-0 | 1-6-12 | 10-3-0 | 18-11-4 | 19-1-0 | 20-6-0 |
|---|---|---|---|---|---|
| 1-5-0 | 0-1-12 | 8-8-4 | 8-8-4 | 0-1-12 | 1-5-0 |

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

| 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 | 0.56 | Vert(LL) | -0.05 | 5-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.34 | Vert(CT) | -0.11 | 5-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.24 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.09 | 1-7 | >999 | 240 | Weight: 128 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 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 8-11-5 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8
Max Horz 1=57(LC 11)
Max Uplift 1=-112(LC 9), 5=-112(LC 8)
Max Grav 1=778(LC 1), 5=778(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1248/870, 2-3=-956/797, 3-4=-956/797, 4-5=-1248/870
BOT CHORD 1-7=-706/1056, 5-7=-708/1056
WEBS 3-7=-584/551, 4-7=-321/183, 2-7=-321/183

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-5 to 4-11-2, Interior(1) 4-11-2 to 10-3-0, Exterior(2) 10-3-0 to 14-7-13, Interior(1) 14-7-13 to 19-11-11 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) 1=112, 5=112.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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | E1-GE | GABLE | 1 | 1 | E14672431 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:39 2020 Page 1
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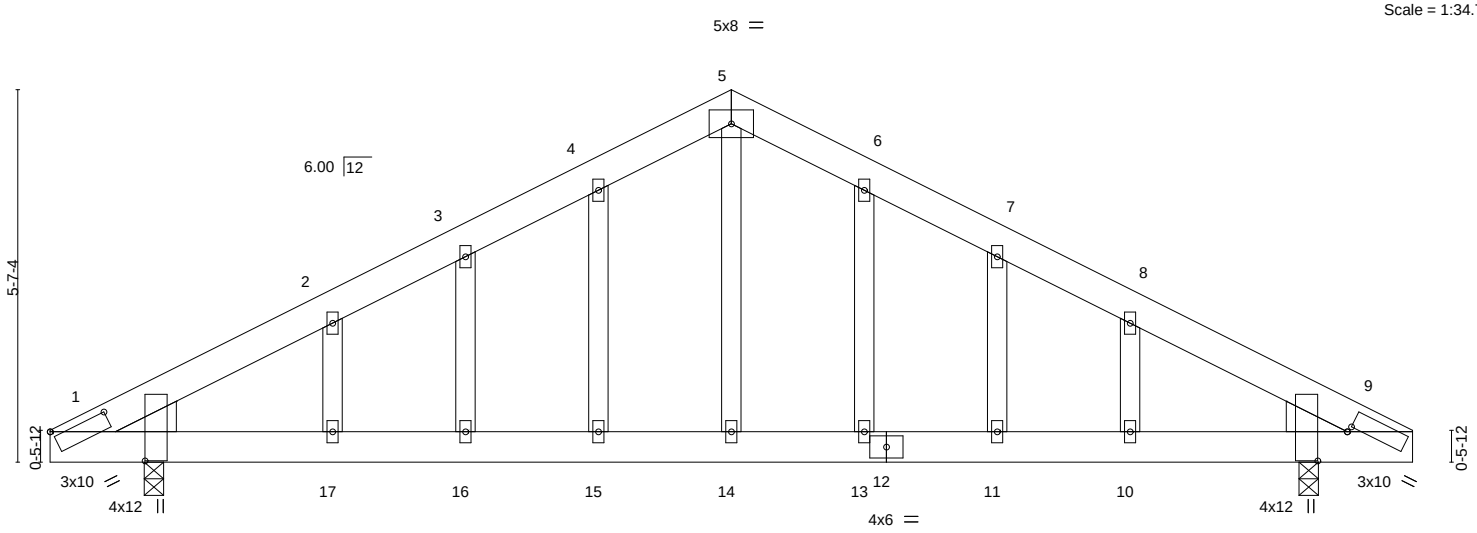
5-7-6 | 10-3-0 | 14-10-10 | 20-6-0
5-7-6 | 4-7-10 | 4-7-10 | 5-7-6

Scale = 1:34.7




1-5-0 1-6-12 | 10-3-0 | 18-11-4 | 19-1-0 20-6-0
1-5-0 0-1-12 | 8-8-4 | 8-8-4 | 0-1-12 1-5-0

Plate Offsets (X,Y)-- [1:0-10-4,0-1-2], [1:0-5-4,1-5-2], [9:0-0-4,0-1-2], [9:0-5-4,0-5-5]

| 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 | 0.27 | Vert(LL) | -0.09 | 10-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.15 | 10-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.02 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.10 | 10-11 | >999 | 240 | Weight: 137 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.1 , Right: 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 8-7-7 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-88(LC 17)
Max Uplift 1=-150(LC 9), 9=-150(LC 8)
Max Grav 1=778(LC 1), 9=778(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1096/861, 2-3=-1013/873, 3-4=-978/886, 4-5=-959/921, 5-6=-959/921, 6-7=-978/886, 7-8=-1013/873, 8-9=-1096/861
BOT CHORD 1-17=-669/891, 16-17=-669/891, 15-16=-669/891, 14-15=-669/891, 13-14=-669/891, 11-13=-669/891, 10-11=-669/891, 9-10=-669/891
WEBS 5-14=-543/508

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=150, 9=150.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Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | E2 | COMMON | 2 | 1 | E14672432 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:40 2020 Page 1
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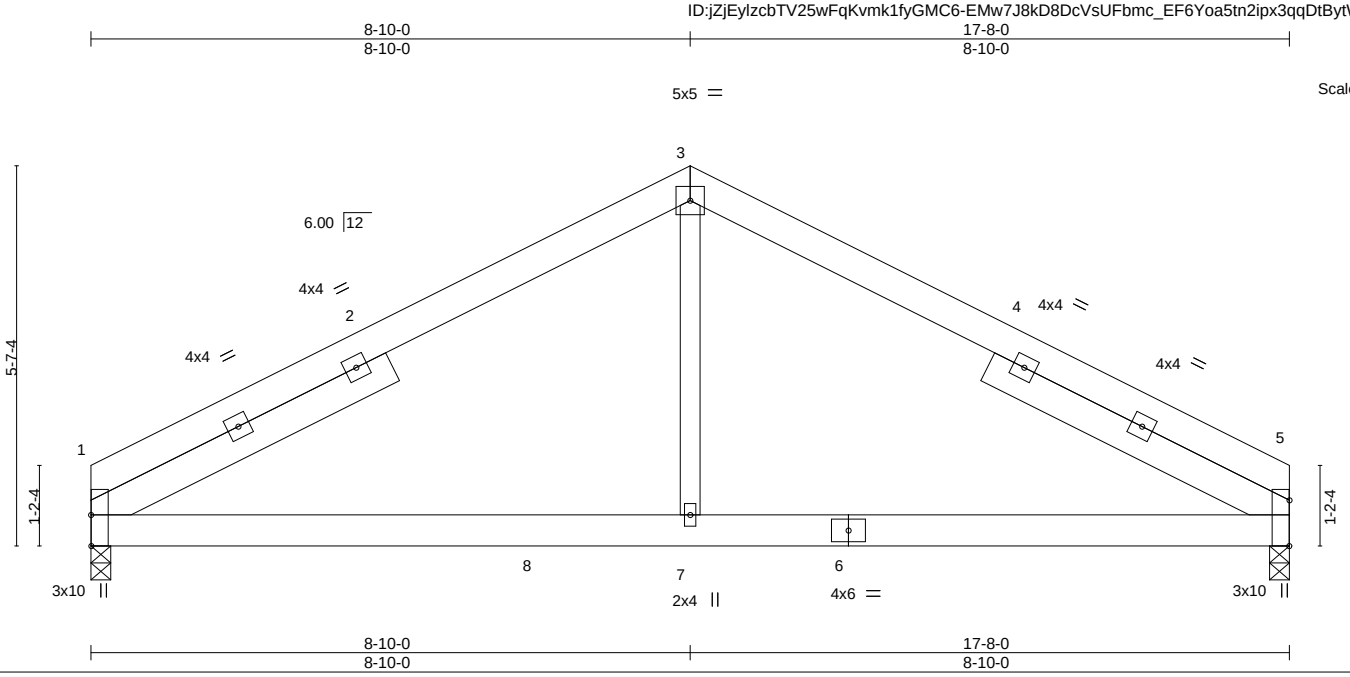


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-8-2,Edge]

| 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 | 0.31 | Vert(LL) | -0.03 | 5-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.06 | 5-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | Wind(LL) | 0.06 | 5-7 | >999 | 240 | Weight: 119 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 4-11-7, Right 2x6 SP No.1 -x 4-11-7

**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.** (size) 1=0-3-8, 5=0-3-8
Max Horz 1=-57(LC 10)
Max Uplift 1=-100(LC 9), 5=-100(LC 8)
Max Grav 1=721(LC 2), 5=722(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-976/703, 3-5=-975/703
BOT CHORD 1-7=-486/768, 5-7=-486/768
WEBS 3-7=-406/466

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 8-10-0, Exterior(2) 8-10-0 to 13-2-13, Interior(1) 13-2-13 to 17-8-0 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | JB-3 | Jack-Open | 2 | 1 | E14672433 |
| | | | | | Job Reference (optional) |

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ID:jZjEylzcbTV25wFqKvmk1fyGMC6-EMw7J8kD8DcVsUFbmc_EF6Yqz5xU2kTx3qqDtBytWcH

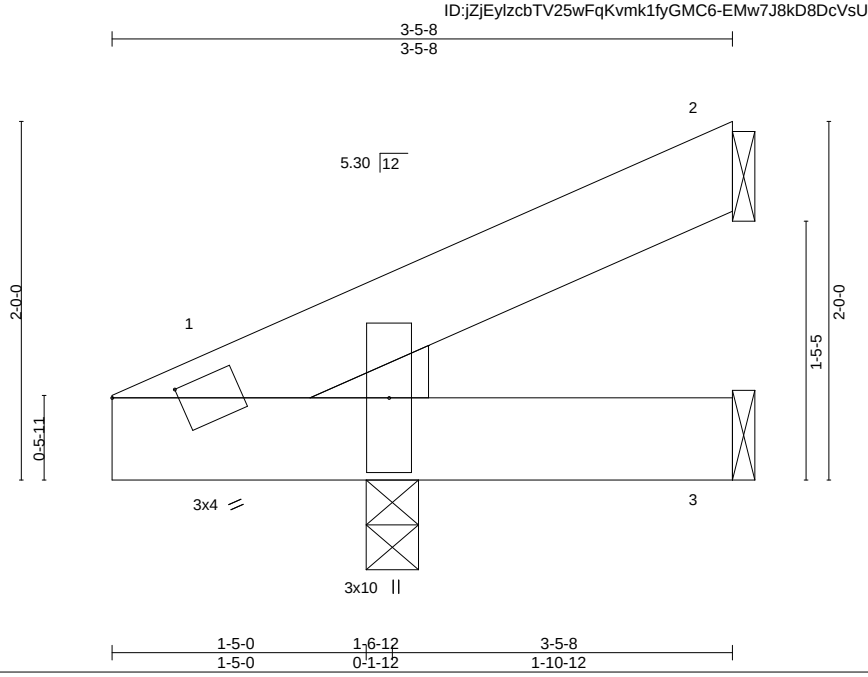


Plate Offsets (X,Y)-- [1:0-4-1,0-1-3]

| 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 | 0.16 | Vert(LL) | -0.00 | 1 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 1-3 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | 0.00 | 1-3 | >999 | 240 | Weight: 18 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=Mechanical, 3=Mechanical, 1=0-3-8
Max Horz 1=41(LC 12)
Max Uplift 2=-33(LC 12), 3=-10(LC 8), 1=-14(LC 9)
Max Grav 2=84(LC 1), 3=56(LC 3), 1=112(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) zone; cantilever left exposed ; porch 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) 2, 3, 1.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | JB-3A | JACK-OPEN | 1 | 1 | E14672434 |
| | | | | | Job Reference (optional) |

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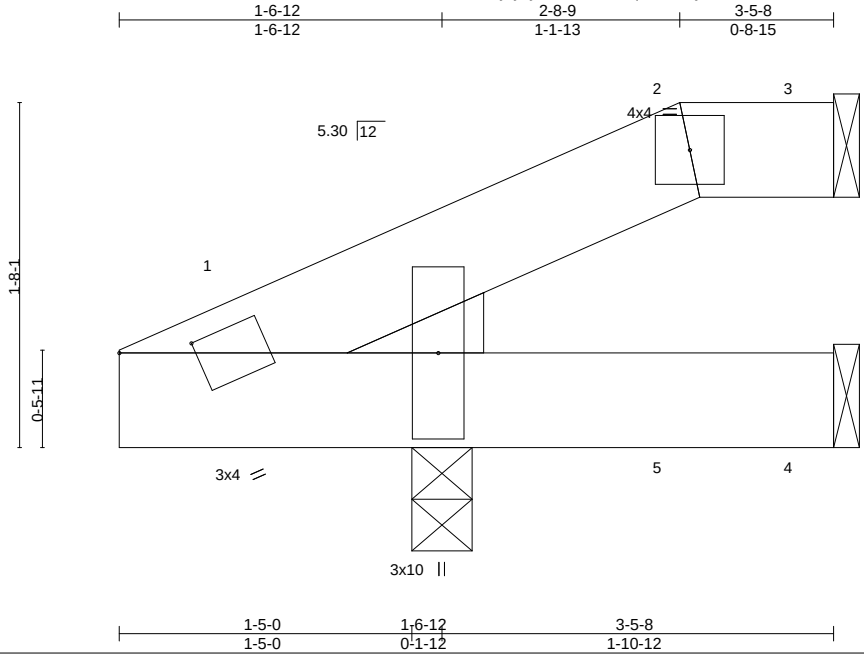


Plate Offsets (X,Y)-- [1:0-4-1,0-1-3]

| 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 | 0.16 | Vert(LL) | -0.00 | 1 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | -0.00 | 1-4 | >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) | 0.00 | 1-4 | >999 | 240 | Weight: 18 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 4=Mechanical, 1=0-3-8
Max Horz 1=34(LC 12)
Max Uplift 3=-20(LC 9), 4=-11(LC 9), 1=-17(LC 9)
Max Grav 3=76(LC 1), 4=53(LC 3), 1=112(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-7-0 to 2-9-2, Exterior(2) 2-9-2 to 3-4-12 zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
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) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 1.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672435 |
|---|---|---|---|---|---|---|
| J0720-3457 | JB-3B | JACK-OPEN | 1 | 1 | Job Reference (optional) | |

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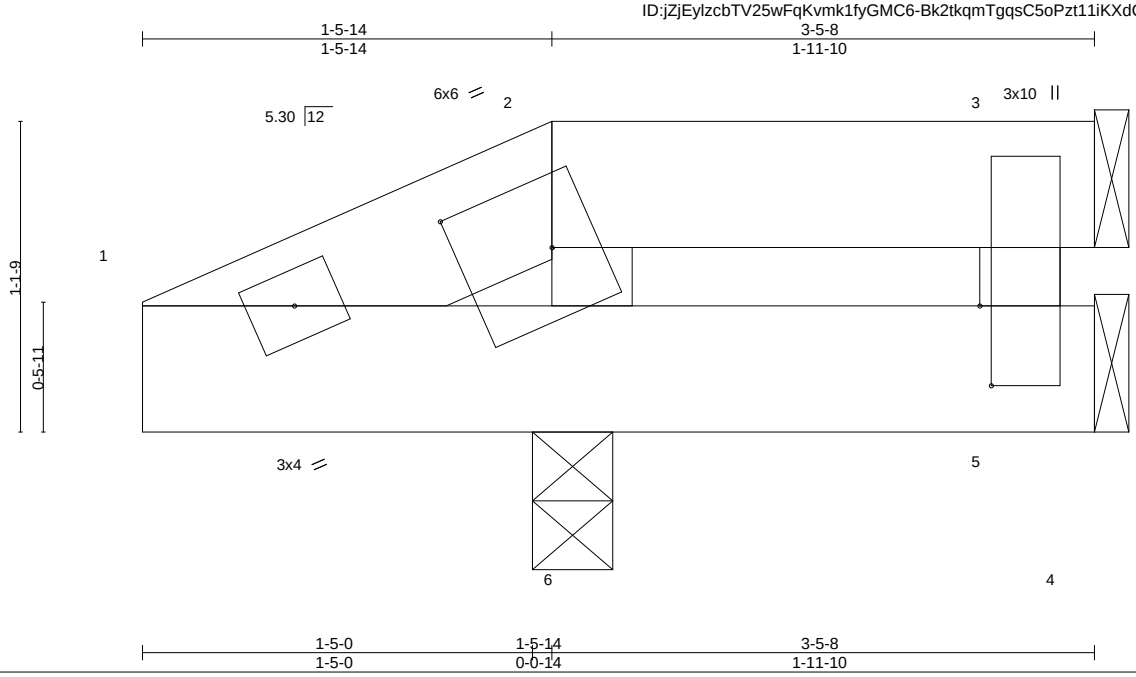


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [3:0-0-0,0-1-12], [3:0-3-8,0-0-8], [5:0-0-0,0-1-12], [6:0-1-10,0-0-11]

| 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 | 6 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | 0.00 | 6 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | Wind(LL) | -0.00 | 5-6 | >999 | 240 | Weight: 17 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 3-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 5=Mechanical, 6=0-3-8
Max Horz 6=19(LC 12)
Max Uplift 3=-13(LC 8), 5=-50(LC 1), 6=-46(LC 8)
Max Grav 3=51(LC 1), 5=12(LC 12), 6=258(LC 1)

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

**NOTES-**
1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) 0-0-3 to 1-5-14, Exterior(2) 1-5-14 to 3-2-4 zone; cantilever left exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; 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) 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) 3, 5, 6.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven | E14672436 |
|---|---|---|---|---|---|---|
| J0720-3457 | VD-1 | GABLE | 1 | 1 | Job Reference (optional) | |

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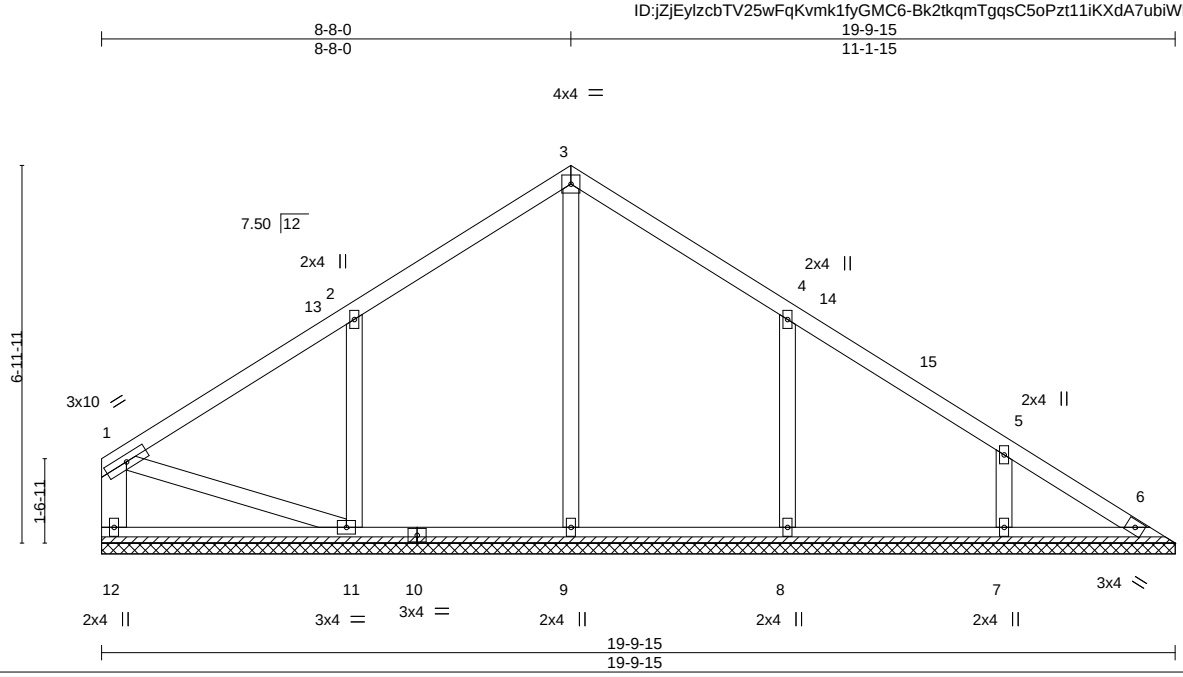


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | | Weight: 96 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.1 |
| BOT CHORD | 2x4 SP No.1 |
| WEBS | 2x6 SP No.1 *Except* 1-11: 2x4 SP No.2 |
| 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 10-0-0 oc bracing. |

**REACTIONS.** All bearings 19-9-15.
(lb) - Max Horz 12=-135(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 12, 11, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 12, 6 except 9=430(LC 19), 11=500(LC 19), 8=445(LC 20), 7=291(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-11=-303/174, 4-8=-276/162

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-0, Interior(1) 4-8-0 to 8-8-0, Exterior(2) 8-8-0 to 13-0-13, Interior(1) 13-0-13 to 19-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11, 8, 7.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | VD-2 | GABLE | 1 | 1 | E14672437 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:43 2020 Page 1
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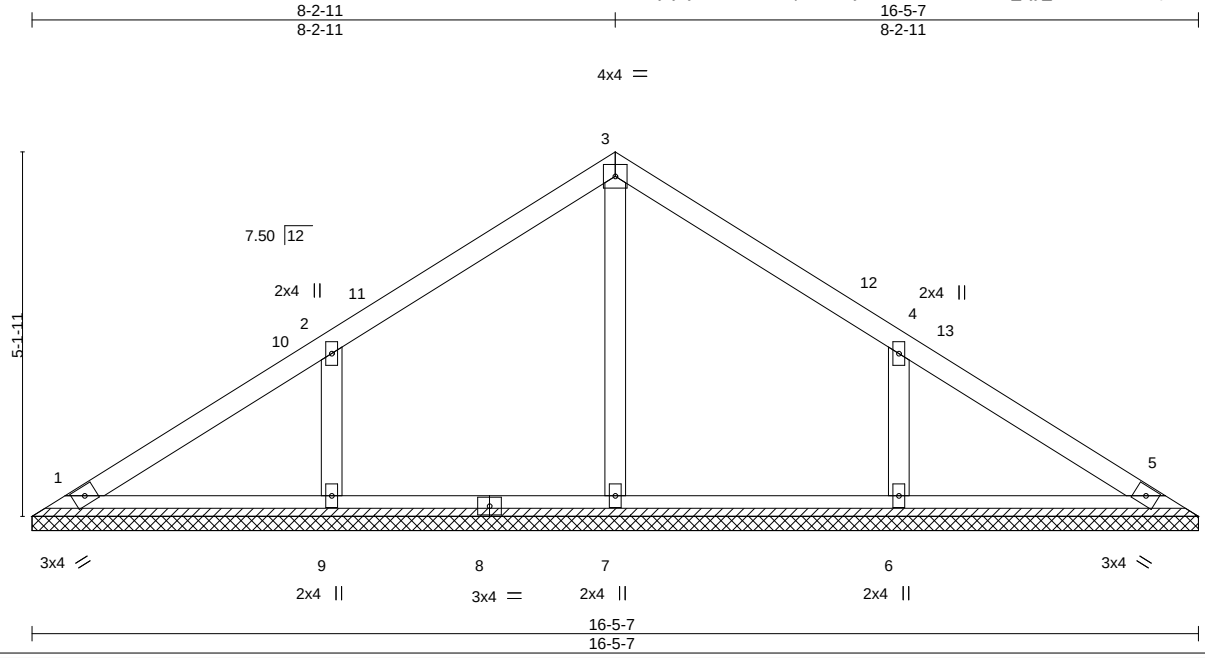


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 65 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.

**REACTIONS.** All bearings 16-5-7.
(lb) - Max Horz 1=99(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 9, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=378(LC 19), 6=378(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-285/165, 4-6=-285/165

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-2 to 4-10-14, Interior(1) 4-10-14 to 8-2-11, Exterior(2) 8-2-11 to 12-7-8, Interior(1) 12-7-8 to 15-11-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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) 9, 6.


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| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | VD-3 | Valley | 1 | 1 | E14672438 |
| | | | | | Job Reference (optional) |

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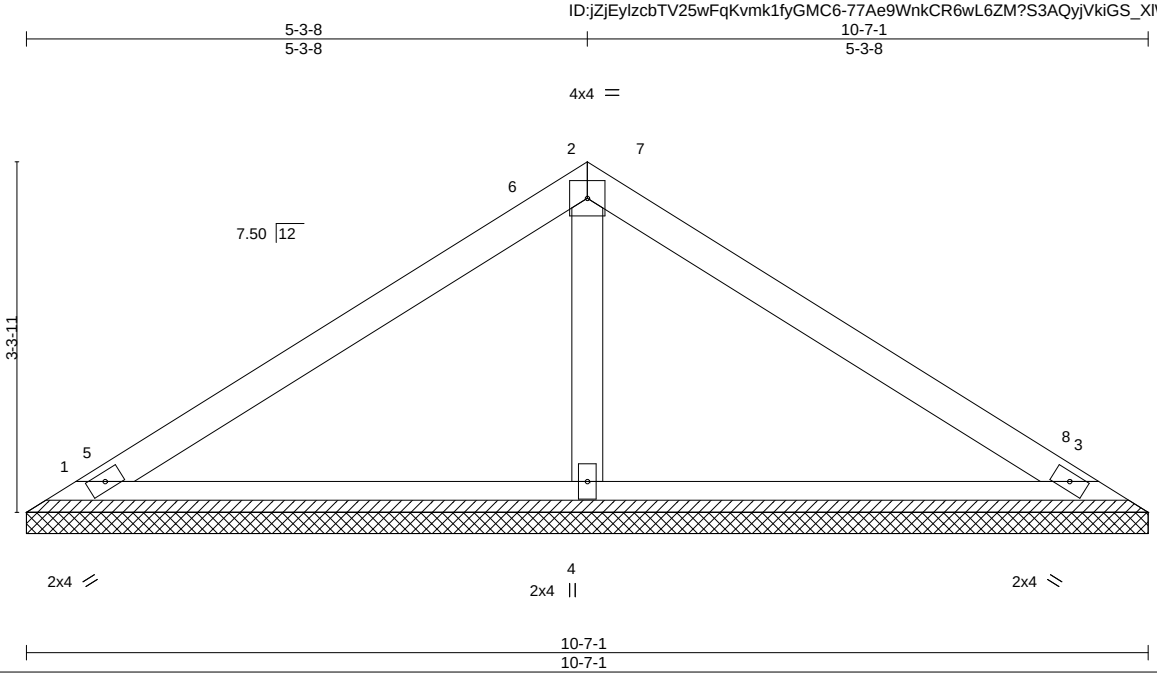



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.24 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 37 lb | FT = 20% |

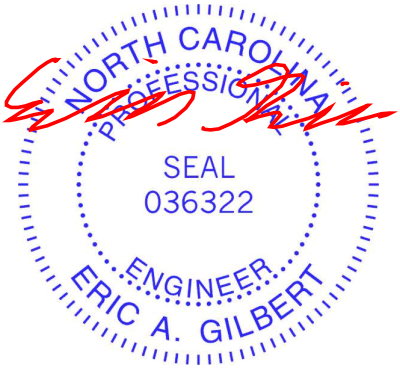
**LUMBER-**
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

**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.

**REACTIONS.** (size) 1=10-7-1, 3=10-7-1, 4=10-7-1
Max Horz 1=-61(LC 8)
Max Uplift 1=-13(LC 12), 3=-18(LC 13)
Max Grav 1=186(LC 1), 3=186(LC 1), 4=393(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-252/94

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-2 to 4-10-14, Interior(1) 4-10-14 to 5-3-8, Exterior(2) 5-3-8 to 9-8-5, Interior(1) 9-8-5 to 10-0-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
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) 1, 3.




July 28,2020

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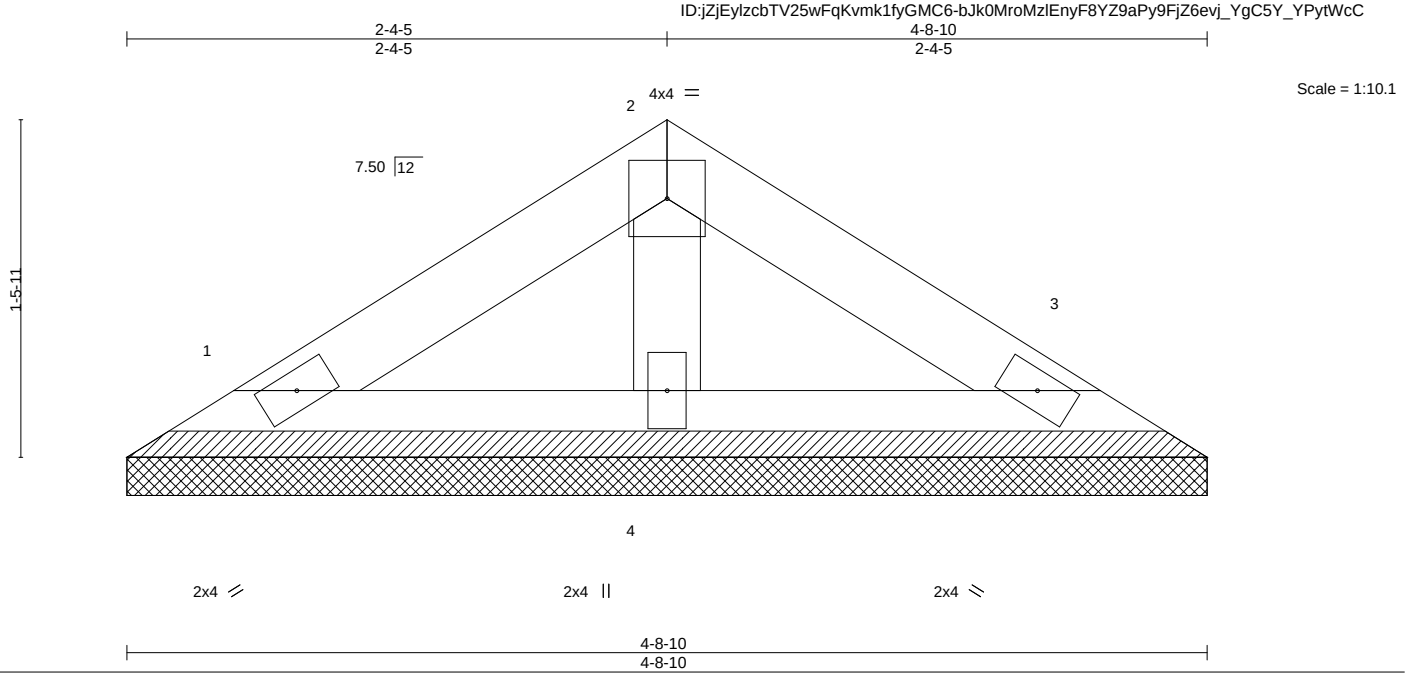
Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Lot 19 Oak Haven |
|---|---|---|---|---|---|
| J0720-3457 | VD-4 | Valley | 1 | 1 | E14672439 |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s May 6 2020 MiTek Industries, Inc. Tue Jul 28 13:39:45 2020 Page 1
ID:jZjEylzcbTV25wFqKvmk1fyGMC6-bJk0MroMzlEnyF8YZ9aPy9FjZ6evj_YgC5Y_YPytWcC




| 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 | 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 15 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 4-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=4-8-10, 3=4-8-10, 4=4-8-10
Max Horz 1=-24(LC 8)
Max Uplift 1=-8(LC 12), 3=-10(LC 13)
Max Grav 1=79(LC 1), 3=79(LC 1), 4=138(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
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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) 1, 3.


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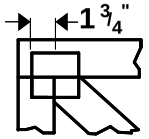
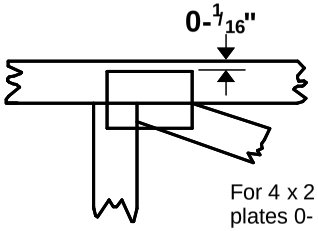
# Symbols

## PLATE LOCATION AND ORIENTATION




Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.




For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

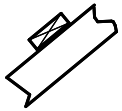
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

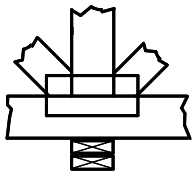
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING

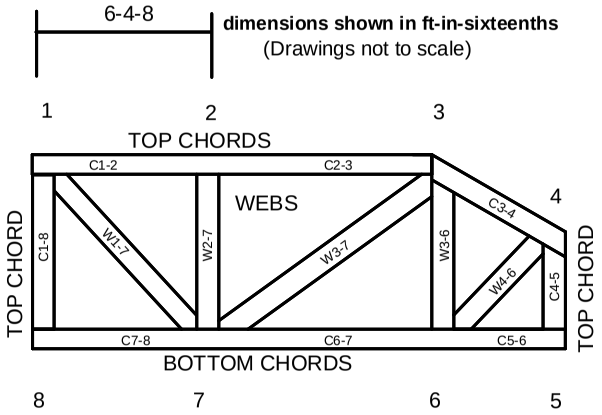


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System




**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**

**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.