

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J1121-6508
Lot 25 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: E16513850 thru E16513885

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



January 13, 2022

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 25 Oak Haven | E16513850 |
| J1121-6508 | A1GE | GABLE | 1 | 1 | | |

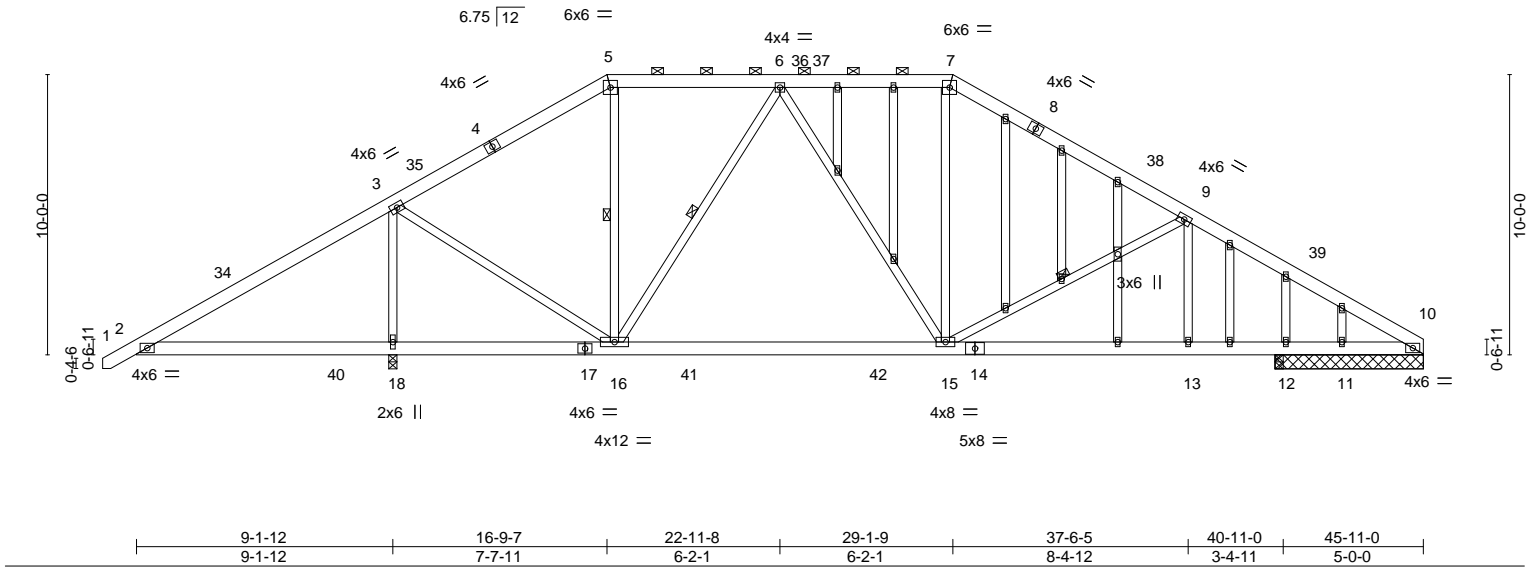
Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:82.2



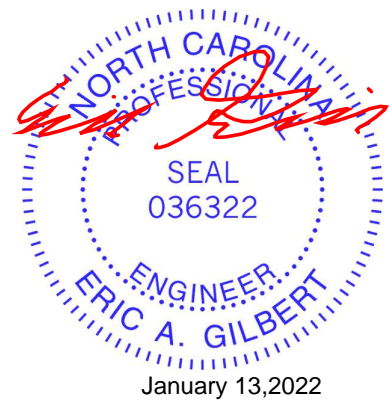
| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.63 | Vert(LL) -0.30 15-16 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.93 | Vert(CT) -0.42 15-16 >904 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.03 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.05 13-15 >999 240 | Weight: 381 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| WEBS 2x4 SP No.2 | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: |
| OTHERS 2x4 SP No.2 | 6-0-0 oc bracing: 2-18,16-18. |
| | WEBS 1 Row at midpt 5-16, 9-15, 6-16 |

REACTIONS. All bearings 5-3-8 except (jt=length) 18=0-3-8.
 (lb) - Max Horz 18=218(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 11 except 18=-117(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 18=2328(LC 1), 10=1128(LC 24), 12=425(LC 2), 12=382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-593/871, 3-5=-928/156, 5-6=-763/194, 6-7=-1260/364, 7-9=-1553/355, 9-10=-1986/378
 BOT CHORD 2-18=-623/627, 16-18=-634/603, 15-16=-41/1114, 13-15=-214/1630, 12-13=-214/1630, 11-12=-214/1630, 10-11=-214/1630
 WEBS 3-18=-2110/824, 3-16=-433/1520, 7-15=0/373, 9-15=-608/268, 6-16=-749/326, 6-15=-82/400

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-12 to 3-6-5, Interior(1) 3-6-5 to 16-10-3, Exterior(2) 16-10-3 to 23-4-1, Interior(1) 23-4-1 to 29-0-13, Exterior(2) 29-0-13 to 35-6-12, Interior(1) 35-6-12 to 45-11-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11 except (jt=lb) 18=117.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513853 |
| J1121-6508 | B1GE | GABLE | 1 | 1 | | |

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Job Reference (optional)

1-2-8 16-9-7 24-1-9 40-11-0 42-1-8
 1-2-8 16-9-7 7-4-2 16-9-7 1-2-8

Scale = 1:74.9

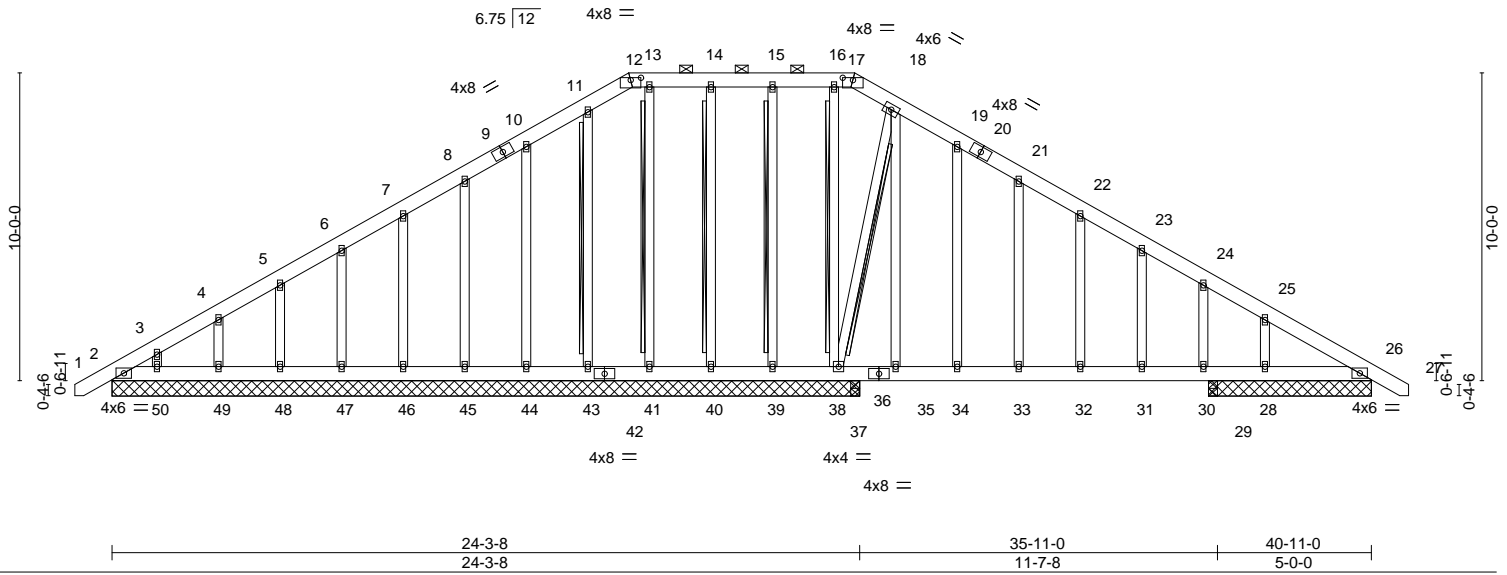


Plate Offsets (X,Y)-- [12:0-4-0,0-0-14], [17:0-4-0,0-0-14]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.21 | Vert(LL) -0.05 | 32-33 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.33 | Vert(CT) -0.11 | 32-33 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.29 | Horz(CT) 0.01 | 26 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.08 | 32-33 | >999 | 240 | | |
| | | | | | | | Weight: 381 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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 12-17.
 Rigid ceiling directly applied or 6-0-0 oc bracing.
 BOT CHORD
 WEBS T-Brace: 2x4 SPF No.2 - 16-38, 15-39, 14-40, 13-41, 11-43, 18-38
 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 24-3-8 except (jt=length) 28=5-3-8, 26=5-3-8, 29=0-3-8, 37=0-3-8.

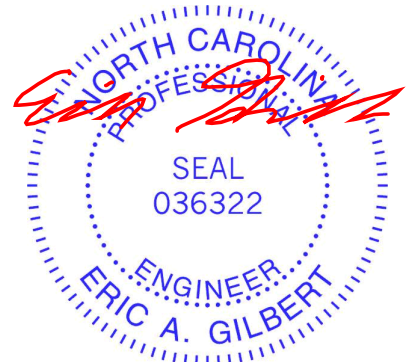
(lb) - Max Horz 2=273(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 26, 37 except 28=233(LC 20), 29=430(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 28 except 38=291(LC 24), 26=269(LC 1), 29=949(LC 20), 37=283(LC 1)

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

TOP CHORD 2-3=-289/229, 11-12=-171/259, 12-13=-163/253, 13-14=-163/253, 14-15=-163/253, 15-16=-163/253, 16-17=-163/253, 17-18=-250/289, 18-19=-213/258
 WEBS 18-35=-102/260, 24-30=-461/231, 18-38=-650/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 26, 37 except (jt=lb) 28=233, 29=430.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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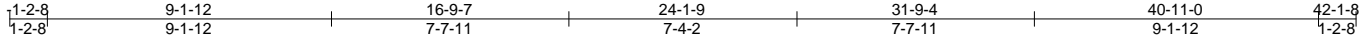
| | | | | | | |
|------------|-------|----------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513854 |
| J1121-6508 | B2 | PIGGYBACK BASE | 4 | 1 | | |

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Job Reference (optional)



Scale = 1:74.2

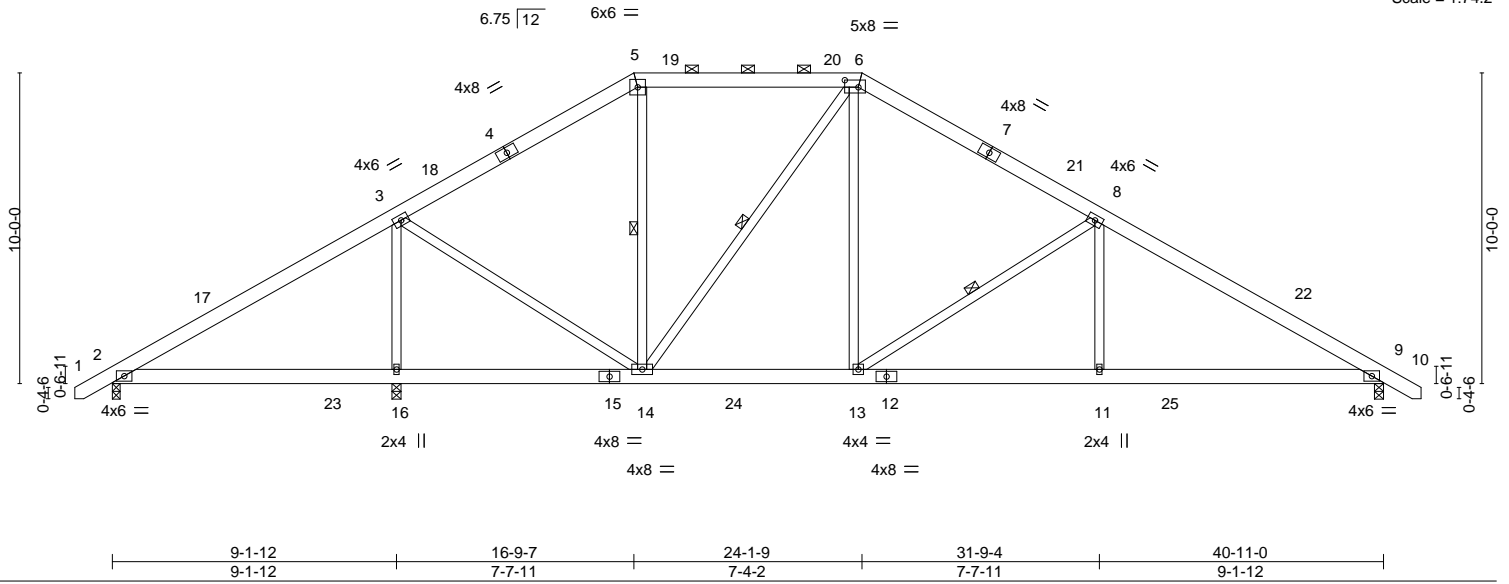


Plate Offsets (X,Y)-- [6:0-5-4,0-2-12]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.35 | Vert(LL) -0.06 | 13-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.37 | Vert(CT) -0.14 | 9-11 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.67 | Horz(CT) 0.03 | 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.04 | 9-11 | >999 | 240 | | |
| | | | | | | | Weight: 295 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-14, 6-14, 8-13

REACTIONS. (size) 2=0-3-0, 16=0-3-8, 9=0-3-8
 Max Horz 2=221(LC 11)
 Max Uplift 2=-30(LC 12), 16=-81(LC 12), 9=-101(LC 13)
 Max Grav 2=381(LC 23), 16=1803(LC 19), 9=1346(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-156/254, 3-5=-974/355, 5-6=-779/366, 6-8=-1305/415, 8-9=-2044/438
 BOT CHORD 13-14=-36/1057, 11-13=-251/1661, 9-11=-251/1661
 WEBS 3-16=-1520/446, 3-14=-87/954, 6-14=-593/120, 6-13=-58/736, 8-13=-844/259, 8-11=0/380

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-12 to 3-4-0, Interior(1) 3-4-0 to 16-10-3, Exterior(2) 16-10-3 to 23-0-13, Interior(1) 23-0-13 to 24-0-13, Exterior(2) 24-0-13 to 30-3-8, Interior(1) 30-3-8 to 41-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16 except (jt=lb) 9=101.
 - 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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



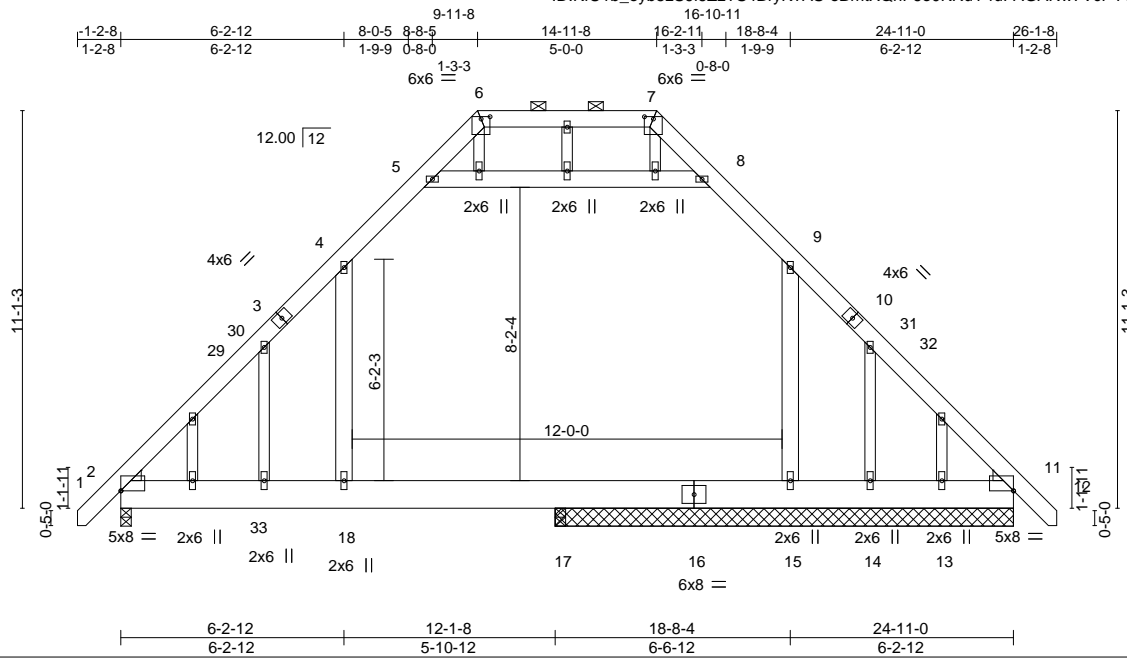
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513855 |
| J1121-6508 | C1GE | GABLE | 1 | 1 | | |

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Scale: 3/16"=1'

Plate Offsets (X,Y)-- [2:0-0-0,0-0-1], [6:0-3-0,0-0-12], [7:0-3-0,0-0-12], [11:0-0-0,0-0-1]

| LOADING (psf) | SPACING- | CSL | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-----------------------------|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.27 | Vert(LL) -0.06 18 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.46 | Vert(CT) -0.12 18 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.01 11 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.06 2-18 >999 240 | Weight: 256 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except 2'-0-0 oc purlins (6'-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS.

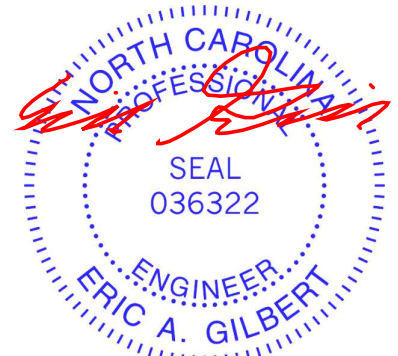
All bearings 12-9-8 except (jt=length) 2=0-3-8, 17=0-3-8.
 (lb) - Max Horz 2=267(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 11 except 15=263(LC 8), 13=123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 14 except 2=1091(LC 20), 15=453(LC 21), 11=830(LC 20), 17=1210(LC 18)

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

TOP CHORD 2-4=984/0, 4-5=718/173, 7-8=-270/132, 8-9=-716/185, 9-11=-1087/78
 BOT CHORD 2-18=-26/668, 17-18=-26/668, 15-17=-26/668, 14-15=-26/668, 13-14=-26/668, 11-13=-26/668
 WEBS 9-15=-290/254, 5-8=-667/152

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 10-0-10, Exterior(2) 10-0-10 to 21-1-0, Interior(1) 21-1-0 to 26-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-18, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 15-17
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 11 except (jt=lb) 15=263, 13=123.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|--|-----------|
| Job J1121-6508 | Truss C2 | Truss Type ATTIC | Qty 5 | Ply 1 | Lot 25 Oak Haven Job Reference (optional) | E16513856 |
|-------------------|-------------|---------------------|----------|----------|--|-----------|

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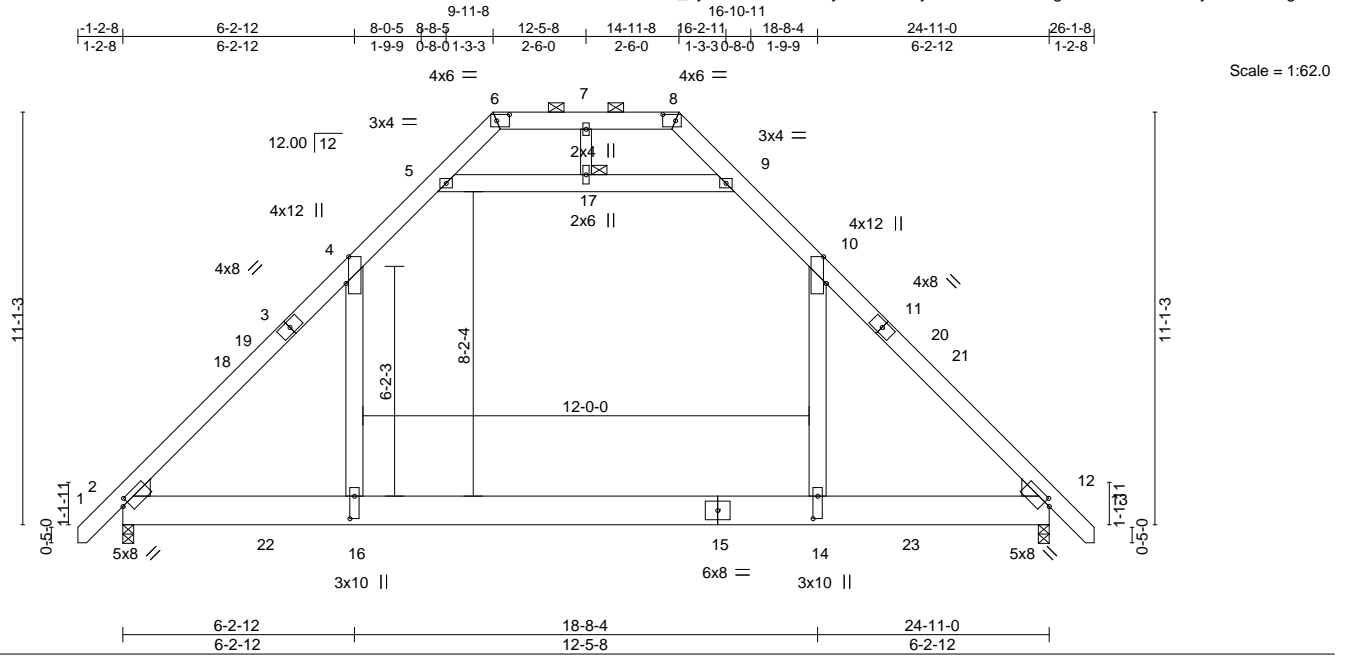


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [4:0-8-10,Edge], [6:0-4-2,0-2-0], [8:0-4-2,0-2-0], [10:0-8-10,Edge], [12:0-2-0,0-1-12], [14:0-7-4,0-1-8], [16:0-7-4,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.99 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.78 | Vert(LL) -0.26 14-16 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.17 | Vert(CT) -0.43 14-16 >690 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 12 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.09 16 >999 240 | Weight: 236 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 7-17: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

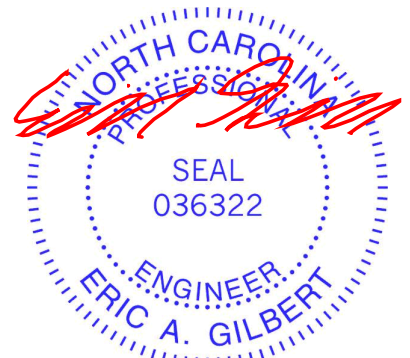
(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=267(LC 11)
 Max Grav 2=1730(LC 20), 12=1730(LC 21)

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

TOP CHORD 2-4=-2226/0, 4-5=-1212/172, 5-6=-109/369, 6-7=0/613, 7-8=0/613, 8-9=-109/369,
 9-10=-1212/172, 10-12=-2225/0
 BOT CHORD 2-16=0/1353, 14-16=0/1353, 12-14=0/1353
 WEBS 4-16=0/1128, 5-17=-1808/166, 9-17=-1808/166, 10-14=0/1128

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-2 to 3-3-11, Interior(1) 3-3-11 to 10-0-10, Exterior(2) 10-0-10 to 21-1-0, Interior(1) 21-1-0 to 26-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-17, 9-17; Wall dead load (5.0psf) on member(s).4-16, 10-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



January 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

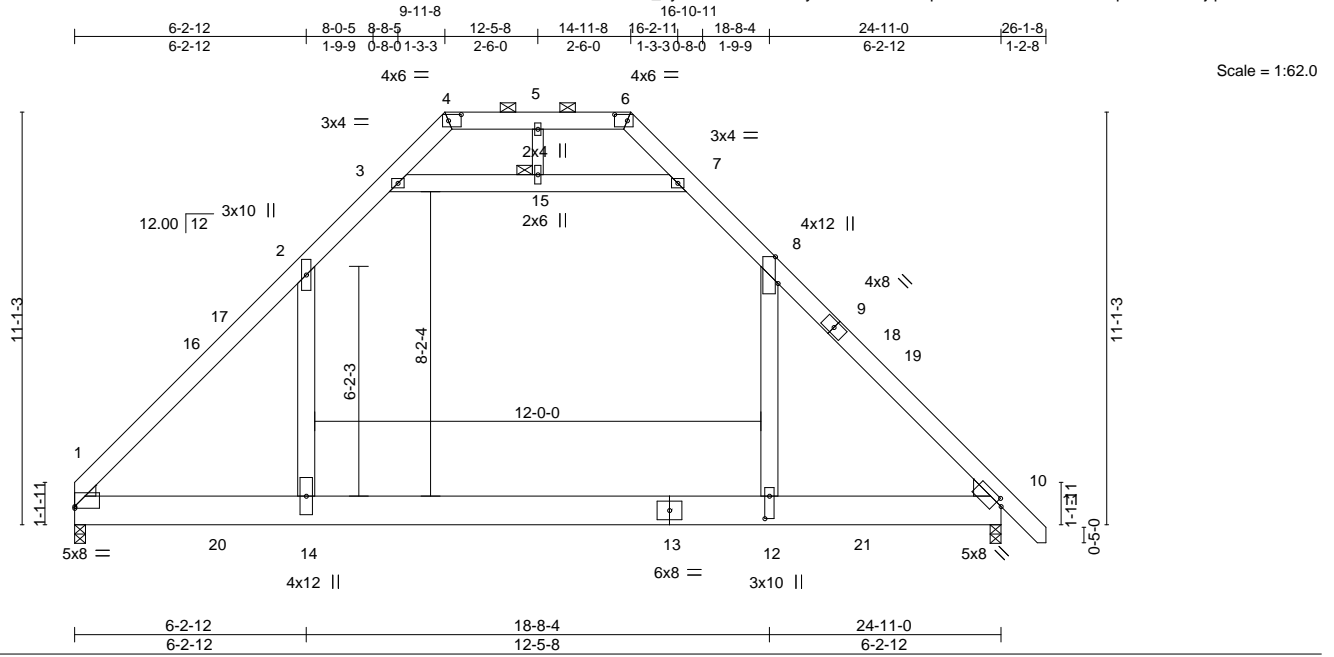


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513857 |
| J1121-6508 | C3 | ATTIC | 14 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:12 2022 Page 1
 ID:KfU1b_eyb5zS9i6ZzTS4BryK?AS-CmR09Sp7PZOvIMGfaOkzo3YYcpNSbfB2OcjHrzw4Of



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.60 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.76 | Vert(LL) -0.24 12-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.17 | Vert(CT) -0.40 12-14 >732 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.09 14 >999 240 | Weight: 232 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|---|
| TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-6,9-11: 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except |
| BOT CHORD 2x10 SP No.1 | 2-0-0 oc purlins (10-0-0 max.): 4-6. |
| WEBS 2x6 SP No.1 *Except* 5-15: 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| | JOINTS 1 Brace at Jt(s): 15 |

WEDGE
Left: 2x4 SP No.3 , Right: 2x6 SP No.2

REACTIONS. (size) 1=0-3-8, 10=0-3-8
 Max Horz 1=-262(LC 8)
 Max Grav 1=1660(LC 2), 10=1731(LC 21)

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

TOP CHORD 1-2=-2217/0, 2-3=-1226/180, 3-4=-100/380, 4-5=0/637, 5-6=0/637, 6-7=-95/389,
 7-8=-1216/174, 8-10=-2242/0

BOT CHORD 1-14=0/1366, 12-14=0/1366, 10-12=0/1366

WEBS 2-14=0/1105, 3-15=-1850/195, 7-15=-1850/195, 8-12=0/1146

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-0-10, Exterior(2) 10-0-10 to 21-1-0, Interior(1) 21-1-0 to 26-0-2 zone;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, with BCDL = 10.0psf.
 - 6) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-15, 7-15; Wall dead load (5.0psf) on member(s).2-14, 8-12
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Attic room checked for L/360 deflection.



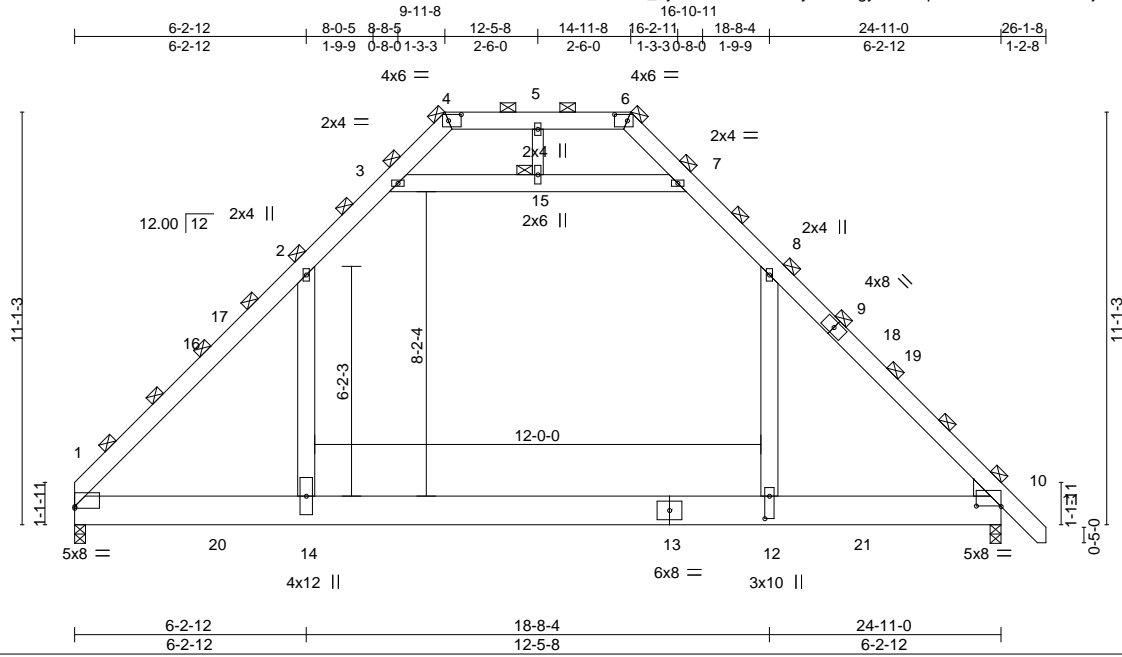
January 13, 2022

| | | | | | | |
|------------|-------|----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513858 |
| J1121-6508 | C4 | ATTIC STRUCTURAL GAB | 1 | 2 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:13 2022 Page 1

ID:KfU1b_eyb5zS9i6ZzTS4BryK?AS-gy?OMoqlAtWmwWrr75FCKH5jFDi8K6zBcGSNplzw4De



Scale = 1:62.0

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

| LOADING (psf) | SPACING- | CSL. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 3-6-0 | TC 0.60 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.21 12-14 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.14 | Vert(CT) -0.35 12-14 >836 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.02 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.08 14 >999 240 | Weight: 463 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
4-6,9-11: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
5-15: 2x4 SP No.2

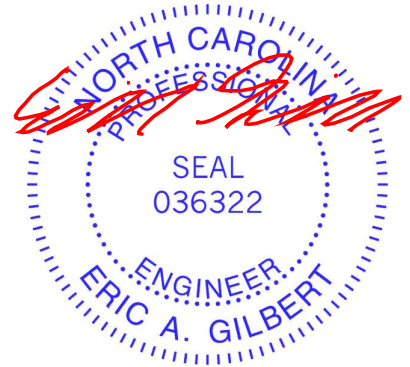
WEDGE
Right: 2x6 SP No.2

REACTIONS. (size) 1=0-3-8, 10=0-3-8
Max Horz 1=-459(LC 8)
Max Grav 1=2905(LC 2), 10=3029(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3879/0, 2-3=-2145/316, 3-4=-175/665, 4-5=0/1115, 5-6=0/1115, 6-7=-166/681,
7-8=-2128/304, 8-10=-3924/0
BOT CHORD 1-14=0/2390, 12-14=0/2390, 10-12=0/2390
WEBS 2-14=0/1934, 3-15=-3237/341, 7-15=-3237/341, 8-12=0/2006

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 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.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-0-10, Exterior(2) 10-0-10 to 21-1-0, Interior(1) 21-1-0 to 26-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-15, 7-15; Wall dead load (5.0psf) on member(s) 2-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



January 13, 2022

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513860 |
| J1121-6508 | C6 | Attic | 5 | 1 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:15 2022 Page 1
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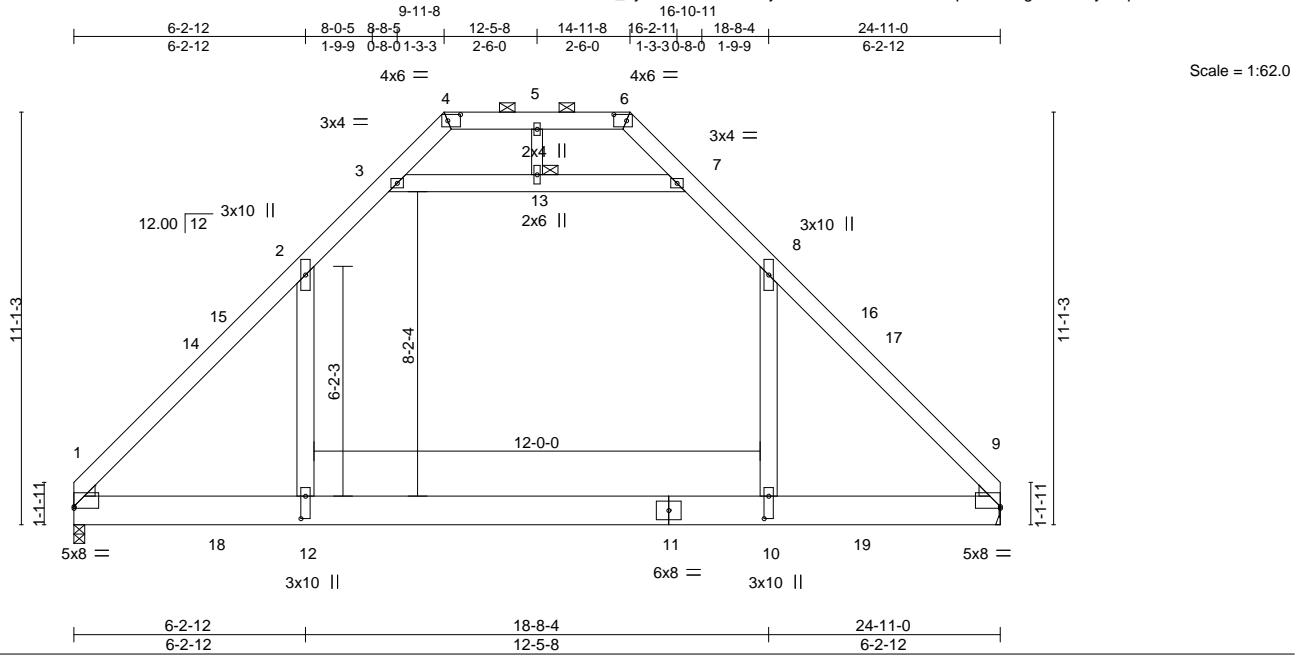


Plate Offsets (X,Y)-- [1:0-0-0,0-0-9], [4:0-4-2,0-2-0], [6:0-4-2,0-2-0], [9:0-0-0,0-0-9], [10:0-7-4,0-1-8], [12:0-7-4,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.61 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.78 | Vert(LL) -0.25 10-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.18 | Vert(CT) -0.42 10-12 >701 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 9 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.09 10-12 >999 240 | Weight: 228 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-6: 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 4-6. |
| BOT CHORD 2x10 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x6 SP No.1 *Except* 5-13: 2x4 SP No.2 | JOINTS 1 Brace at Jt(s): 13 |

WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=Mechanical
 Max Horz 1=-251(LC 10)
 Max Grav 1=1667(LC 2), 9=1662(LC 2)

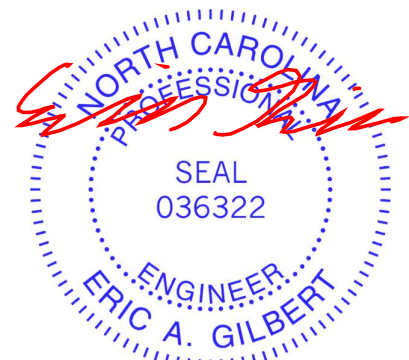
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-2238/0, 2-3=-1231/180, 3-4=-82/407, 4-5=0/669, 5-6=0/669, 6-7=-80/407, 7-8=-1230/180, 8-9=-2222/0

BOT CHORD 1-12=0/1370, 10-12=0/1370, 9-10=0/1370

WEBS 2-12=0/1125, 3-13=-1899/198, 7-13=-1899/198, 8-10=0/1106

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-0-10, Exterior(2) 10-0-10 to 21-1-0, Interior(1) 21-1-0 to 24-10-4 zone; 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, with BCDL = 10.0psf.
 - 6) Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-13, 7-13; Wall dead load (5.0psf) on member(s).2-12, 8-10
 - 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Attic room checked for L/360 deflection.



January 13, 2022

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513861 |
| J1121-6508 | C9GE | GABLE | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:16 2022 Page 1
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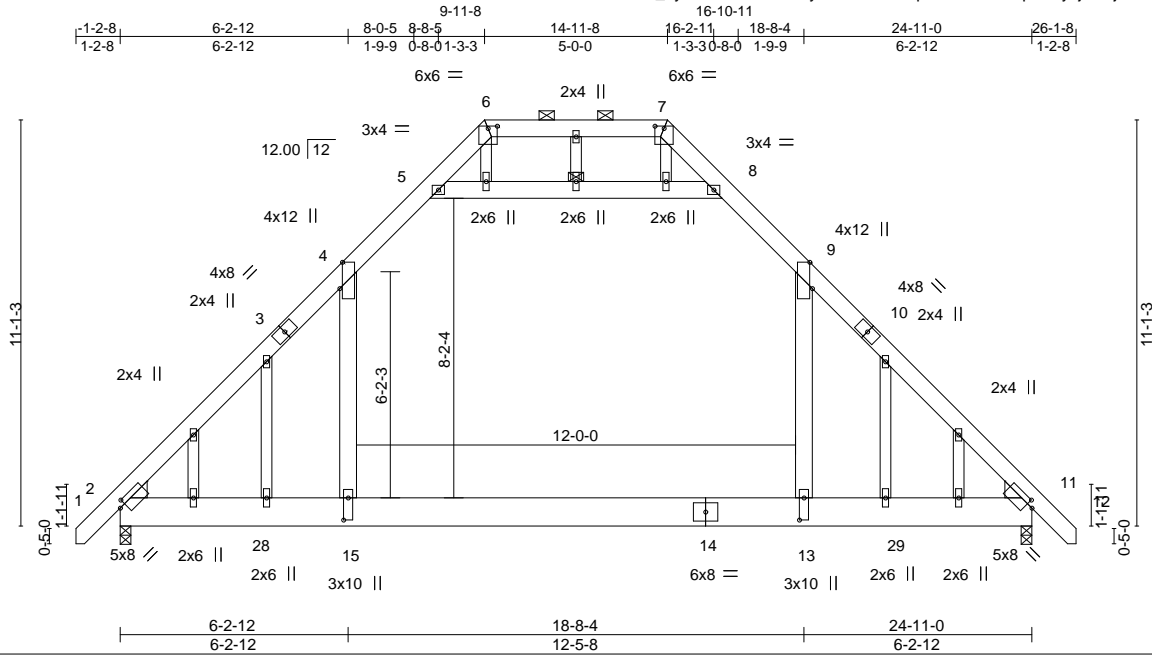


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [4:0-8-10,Edge], [6:0-3-0,0-0-12], [7:0-3-0,0-0-12], [9:0-8-10,Edge], [11:0-2-0,0-1-12], [13:0-7-4,0-1-8], [15:0-7-4,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 1.00 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.78 | Vert(LL) -0.26 13-15 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.43 | Vert(CT) -0.43 13-15 >690 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 11 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.13 13-15 >999 240 | Weight: 257 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.2, Right: 2x6 SP No.2

BRACING-

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

REACTIONS.

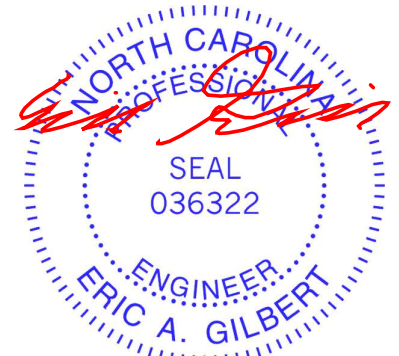
(size) 2=0-3-8, 11=0-3-8
 Max Horz 2=-334(LC 10)
 Max Grav 2=1724(LC 2), 11=1724(LC 2)

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

TOP CHORD 2-4=-2209/0, 4-5=-1212/201, 5-6=-50/433, 6-7=0/664, 7-8=-50/433, 8-9=-1212/201, 9-11=-2208/0
 BOT CHORD 2-15=0/1354, 13-15=0/1354, 11-13=0/1354
 WEBS 4-15=0/1128, 5-8=-1857/194, 9-13=0/1128

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s).4-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



January 13, 2022

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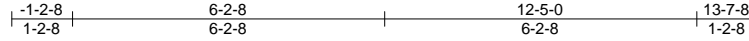
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513862 |
| J1121-6508 | D1GE | GABLE | 1 | 1 | | |

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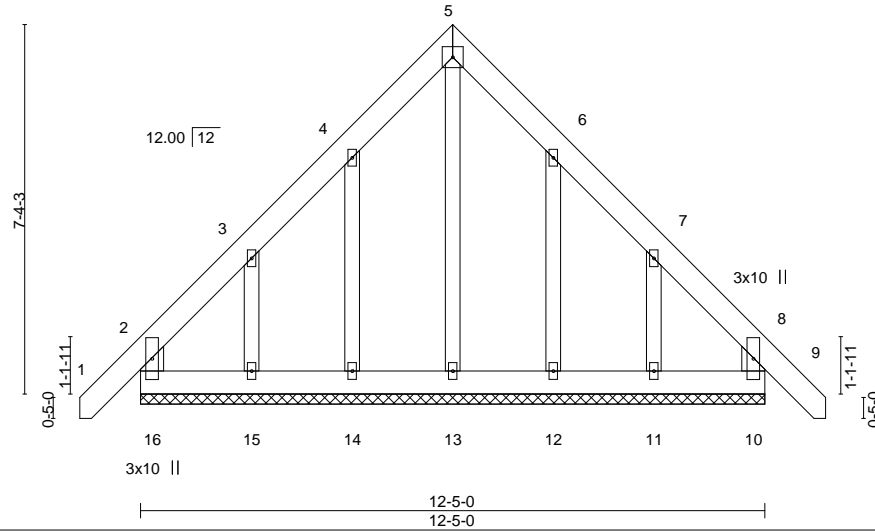
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:17 2022 Page 1

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5x5 =

Scale = 1:45.8



| | | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------|-------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.06 | Vert(LL) | -0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(CT) | -0.00 | 9 | n/r | 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.15 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-R | | | | | | Weight: 111 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | | |

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 10-0-0 oc bracing.

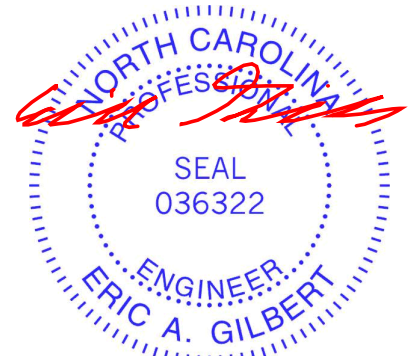
REACTIONS.

All bearings 12-5-0.
 (lb) - Max Horz 16=-219(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=-232(LC 12), 11=-225(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=232, 11=225.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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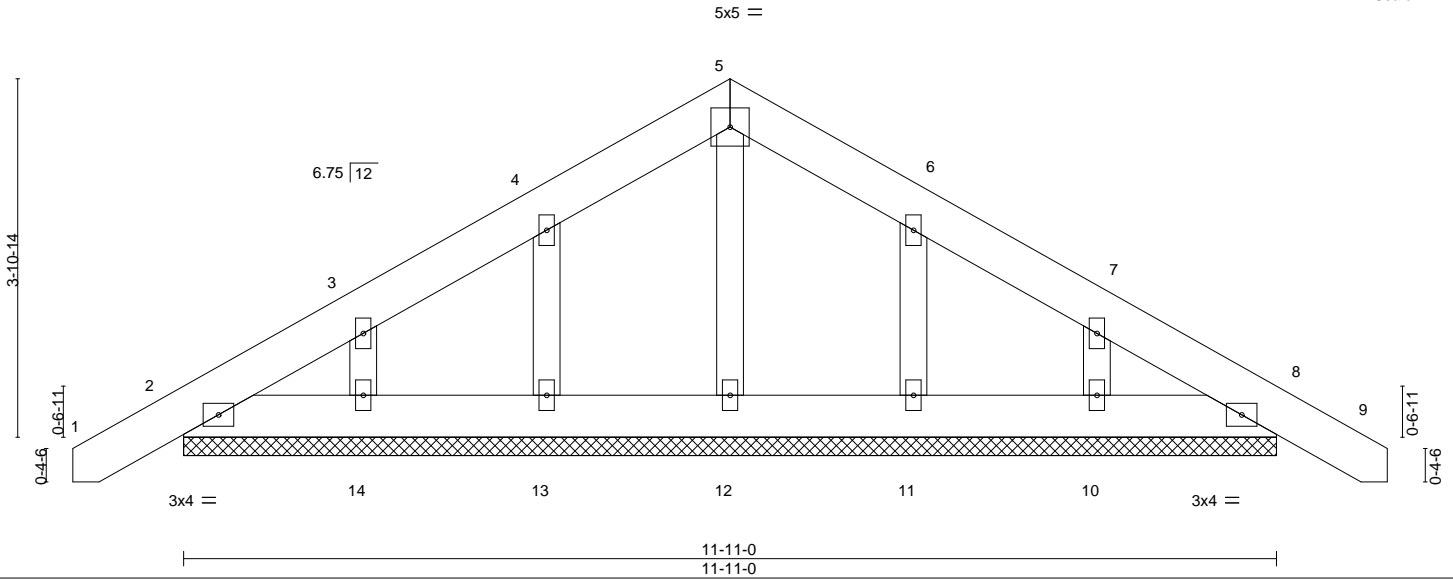
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|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513863 |
| J1121-6508 | E1GE | GABLE | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:18 2022 Page 1
 ID:KfU1b_eyb5zS9i6ZzTS4Bryk?AS-1woHQVuu_P830HkpwerO1Koj?Ebe?P5wmYA8VVzw4OZ



Scale = 1:25.1



| | | | | | |
|----------------------|----------------------|-------------|--------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.03 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.01 | Vert(LL) -0.00 8 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) -0.00 8 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 79 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 11-11-0.
 (lb) - Max Horz 2=107(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

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



January 13, 2022

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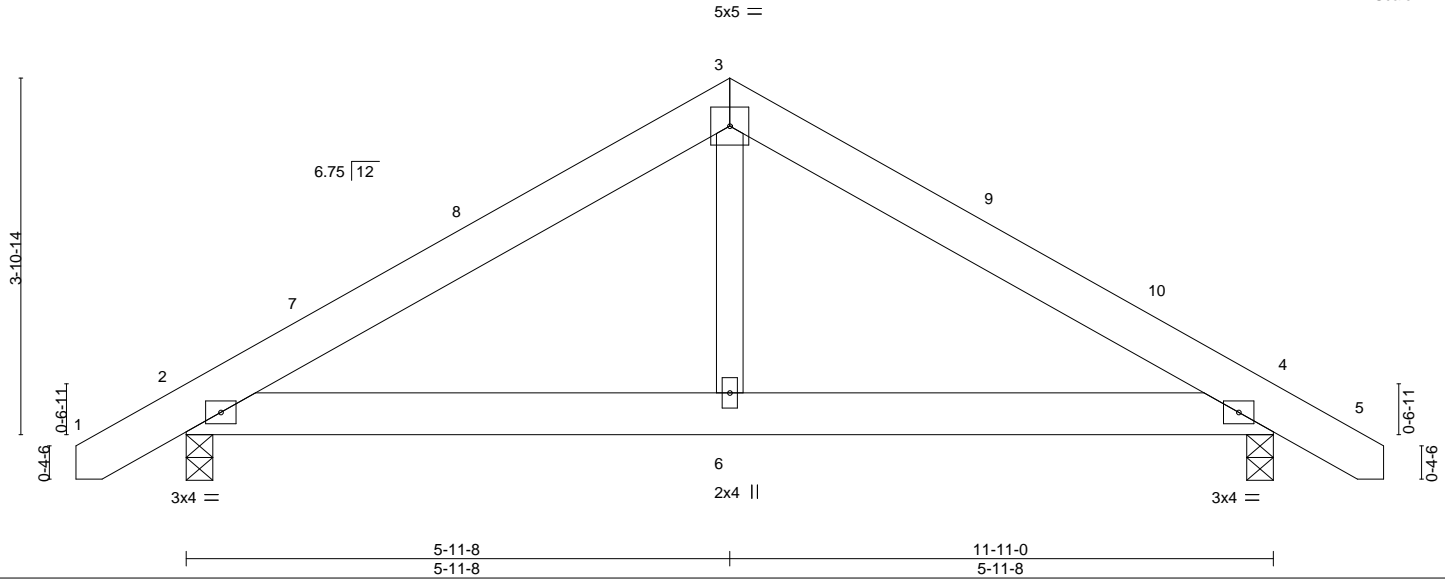
| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513864 |
| J1121-6508 | E2 | COMMON | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:19 2022 Page 1
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Scale = 1:25.3



| | | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.14 | Vert(LL) | -0.01 | 4-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.13 | Vert(CT) | -0.02 | 4-6 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | -0.01 | 4-6 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | | Weight: 71 lb | FT = 20% |

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
 Max Horz 2=87(LC 11)
 Max Uplift 2=-44(LC 12), 4=-44(LC 13)
 Max Grav 2=538(LC 1), 4=538(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-598/148, 3-4=-598/148
 BOT CHORD 2-6=-11/441, 4-6=-11/441
 WEBS 3-6=0/277

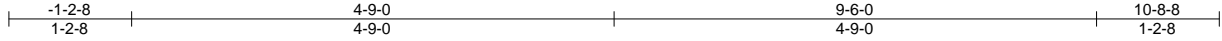
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-0-12 to 3-4-0, Interior(1) 3-4-0 to 5-11-8, Exterior(2) 5-11-8 to 10-4-5, Interior(1) 10-4-5 to 12-11-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



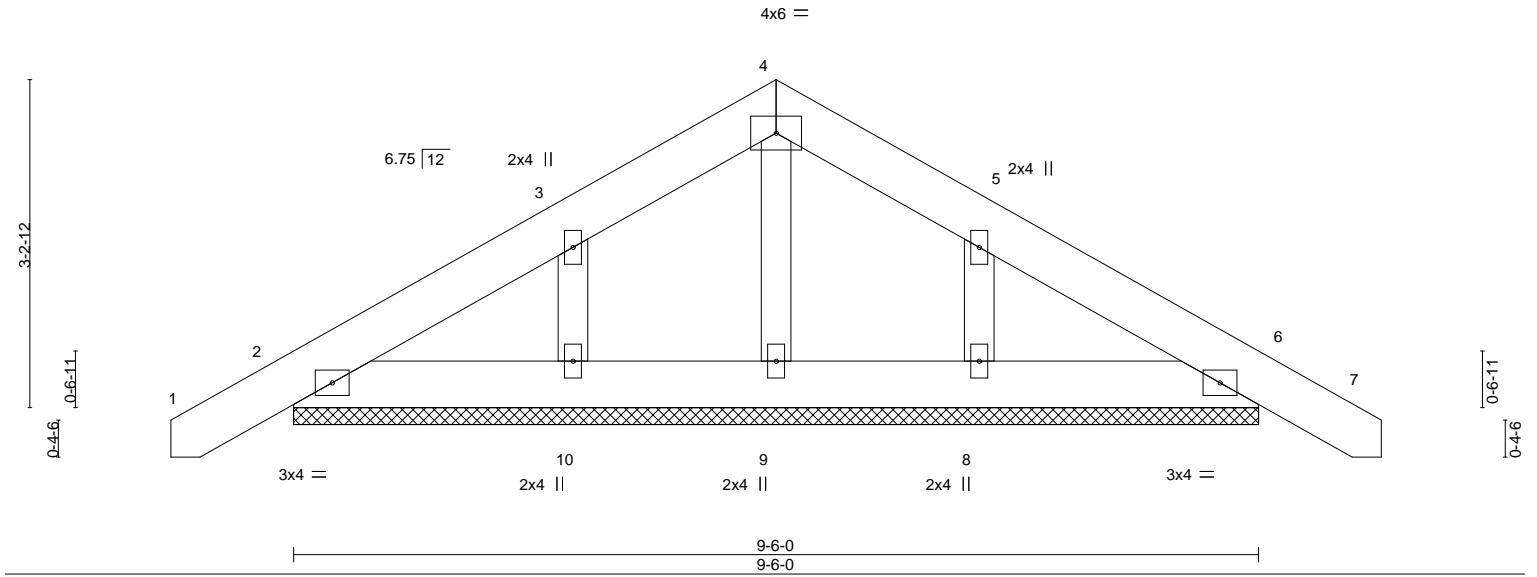
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|------------|-------|----------------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513865 |
| J1121-6508 | G1GE | COMMON SUPPORTED GAB | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:20 2022 Page 1
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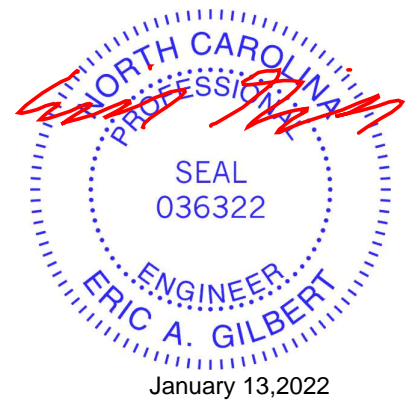
| | | | | | | | | | |
|----------------------|----------------------|-------------|--------------|-------|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.03 | Vert(LL) | -0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(CT) | 0.00 | 6 | n/r | 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | | Weight: 62 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | | |

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

REACTIONS. All bearings 9-6-0.
 (lb) - Max Horz 2=-72(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-0-12 to 3-4-0, Exterior(2) 3-4-0 to 4-9-0, Corner(3) 4-9-0 to 9-1-13, Exterior(2) 9-1-13 to 10-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 10, 8.

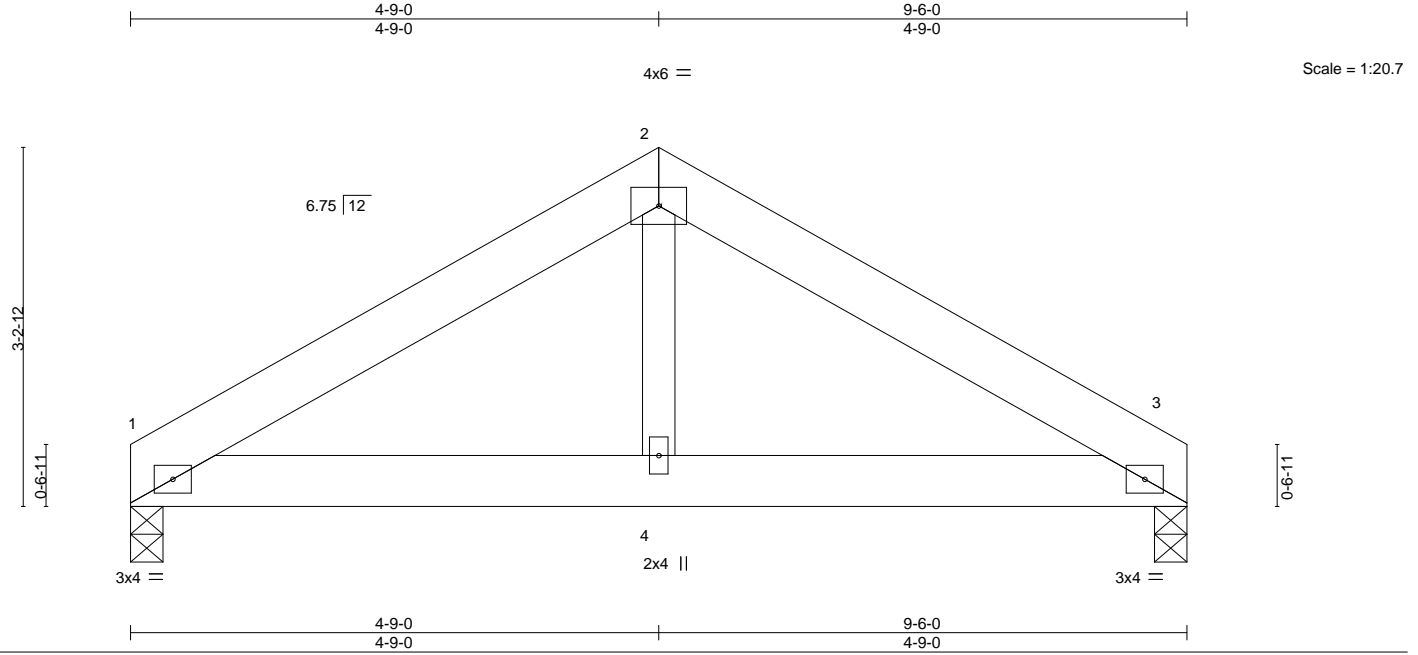


| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513866 |
| J1121-6508 | G2 | COMMON | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:21 2022 Page 1

ID:KfU1b_eyb5zS9i6ZzTS4BryK?AS-RVUQ2XwmHKWdtkSOBmO5fzQD9RbBCmKNSVOp5qzw4OW



| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|-----|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.10 | Vert(LL) -0.00 | 1-4 | >999 | 360 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) -0.01 | 1-4 | >999 | 240 | | | |
| 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 | Wind(LL) 0.00 | 4 | >999 | 240 | | Weight: 52 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=60(LC 11)
 Max Uplift 1=-21(LC 12), 3=-21(LC 13)
 Max Grav 1=368(LC 1), 3=368(LC 1)

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

TOP CHORD 1-2=-478/142, 2-3=-478/142
 BOT CHORD 1-4=-46/355, 3-4=-46/355

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 13, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



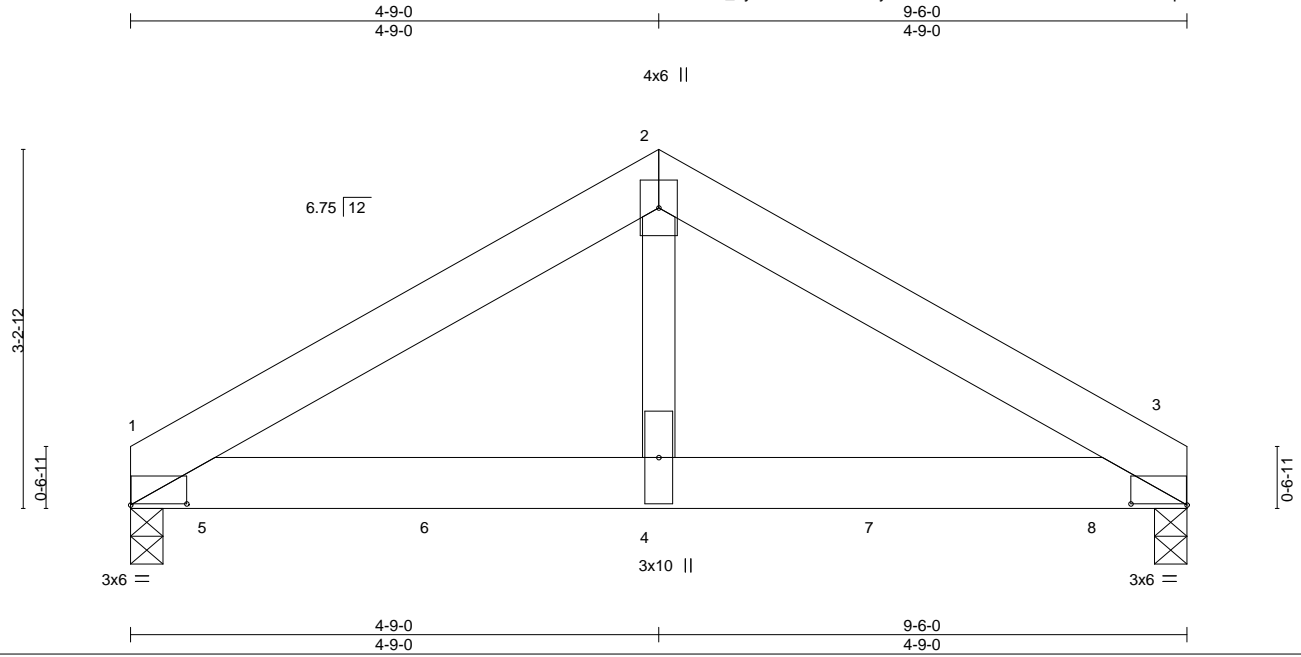
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|---------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513867 |
| J1121-6508 | G3-GR | Common Girder | 1 | 2 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:22 2022 Page 1

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Scale = 1:20.7

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

| LOADING (psf) | SPACING- | | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------------|-------|-------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | 2-0-0 | TC 0.23 | Vert(LL) -0.04 | -0.04 | 1-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | | BC 0.94 | Vert(CT) -0.08 | -0.08 | 1-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | | WB 0.61 | Horz(CT) 0.02 | 0.02 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | Wind(LL) -0.00 | -0.00 | 1-4 | >999 | 240 | | |
| | | | | | | | | | Weight: 104 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 3=0-3-8
 Max Horz 1=-60(LC 4)
 Max Grav 1=4371(LC 2), 3=4409(LC 2)

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

TOP CHORD 1-2=-4816/0, 2-3=-4816/0
 BOT CHORD 1-4=0/4140, 3-4=0/4140
 WEBS 2-4=0/4489

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1627 lb down at 0-9-4, 1623 lb down at 2-9-4, 1623 lb down at 4-9-4, and 1629 lb down at 6-9-4, and 1633 lb down at 8-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 1-3=-20
 Concentrated Loads (lb)
 Vert: 4=-1281(F) 5=-1285(F) 6=-1281(F) 7=-1285(F) 8=-1289(F)



January 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

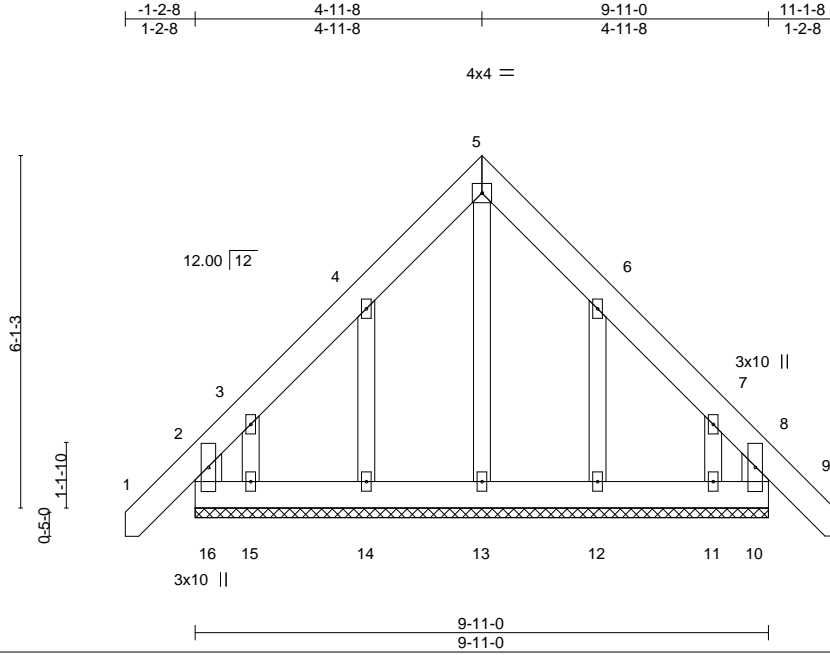


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513868 |
| J1121-6508 | H1GE | COMMON SUPPORTED GAB | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:23 2022 Page 1
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Scale = 1:39.9

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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------|-----------------|----------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | -0.00 | 9 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | -0.00 | 9 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.07 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-R | | | | | | Weight: 88 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 10-0-0 oc bracing.

REACTIONS. All bearings 9-11-0.
 (lb) - Max Horz 16=145(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 12 except 15=149(LC 12), 11=142(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-1-2 to 3-3-11, Exterior(2) 3-3-11 to 4-11-8, Corner(3) 4-11-8 to 9-4-5, Exterior(2) 9-4-5 to 11-0-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 12 except (jt=lb) 15=149, 11=142.



January 13, 2022

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|---------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513869 |
| J1121-6508 | H2 | Common Girder | 1 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:24 2022 Page 1
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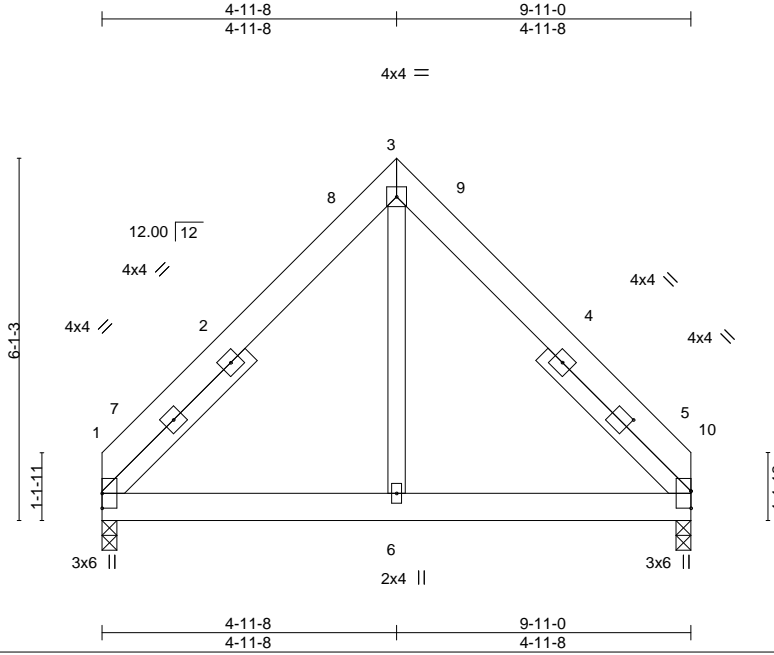


Plate Offsets (X,Y)-- [5:Edge,0-0-0], [5:1-6-6,0-2-0], [5:0-0-0,0-0-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.13 | Vert(LL) -0.00 | 1-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.09 | Vert(CT) -0.01 | 1-6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.05 | Horz(CT) 0.00 | 5 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.00 | 1-6 | >999 | 240 | Weight: 76 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 3-5-2, Right 2x4 SP No.2 3-5-2

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=0-3-0, 5=0-3-0
 Max Horz 1=-133(LC 8)
 Max Uplift 1=-17(LC 13), 5=-17(LC 12)
 Max Grav 1=397(LC 1), 5=397(LC 1)

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

TOP CHORD 1-3=-389/140, 3-5=-389/140

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=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 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 9-11-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



January 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

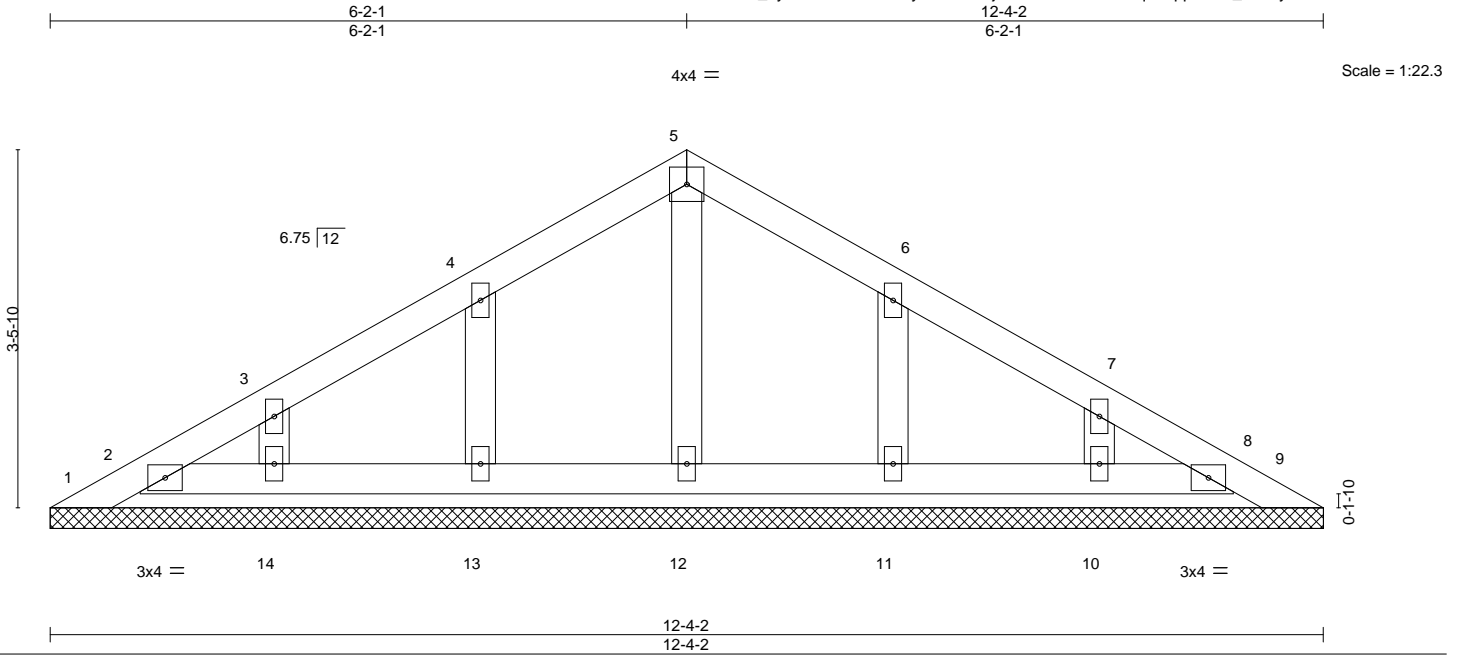


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|--|-----------|
| Job J1121-6508 | Truss PB1 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 25 Oak Haven Job Reference (optional) | E16513870 |
|-------------------|--------------|---------------------|----------|----------|--|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:25 2022 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 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 47 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 12-4-2.

(lb) - Max Horz 1=90(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 2, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

FORCES.

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

NOTES-

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



January 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



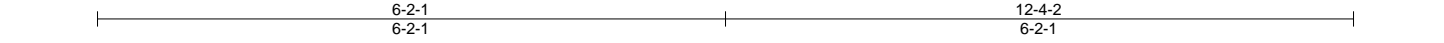
818 Soundside Road
Edenton, NC 27932

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|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513871 |
| J1121-6508 | PB2 | Piggyback | 10 | 1 | | |

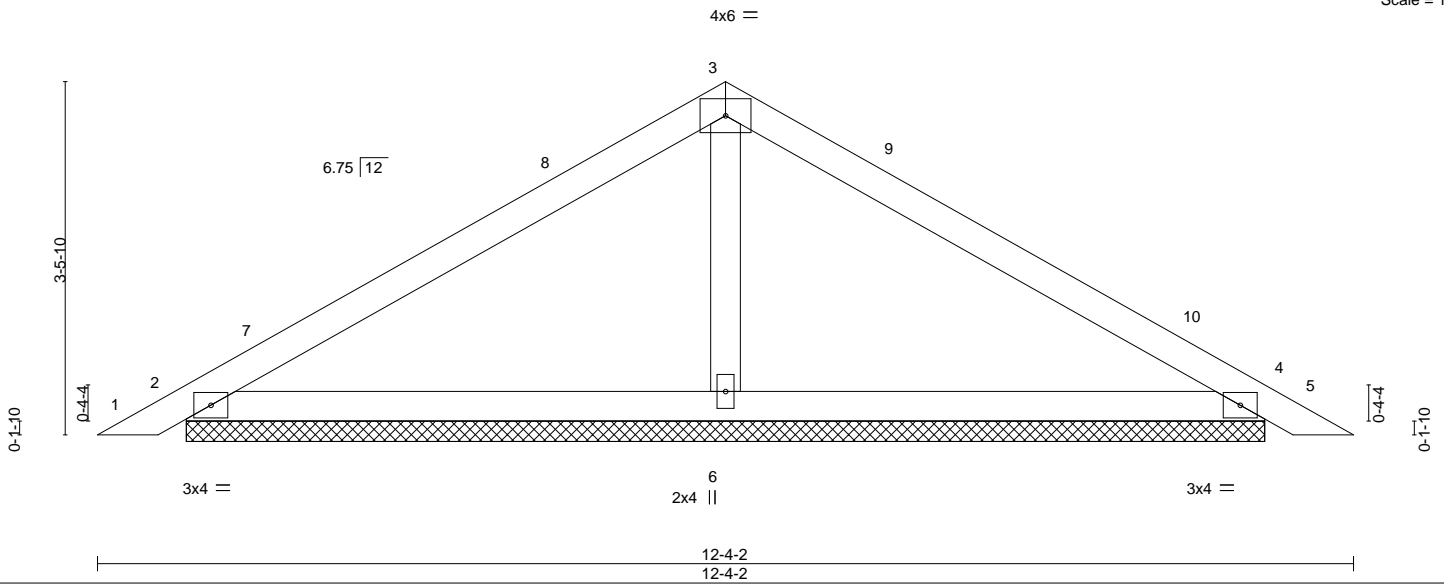
Comtech, Inc., Fayetteville, NC - 28314,

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Scale = 1:22.6



| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.28 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.20 | Vert(LL) 0.01 5 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Vert(CT) 0.02 5 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 4 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 41 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.

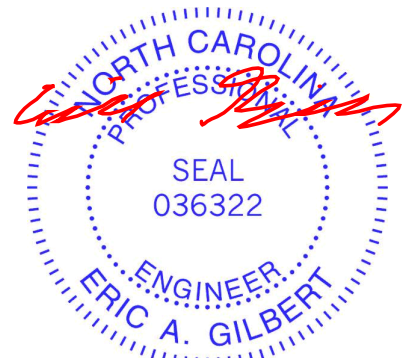
REACTIONS.

(size) 2=10-7-3, 4=10-7-3, 6=10-7-3
 Max Horz 2=-72(LC 10)
 Max Uplift 2=-35(LC 12), 4=-42(LC 13)
 Max Grav 2=236(LC 23), 4=236(LC 24), 6=445(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-6=-283/123

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-9 to 4-8-6, Interior(1) 4-8-6 to 6-2-1, Exterior(2) 6-2-1 to 10-6-14, Interior(1) 10-6-14 to 12-0-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 13, 2022

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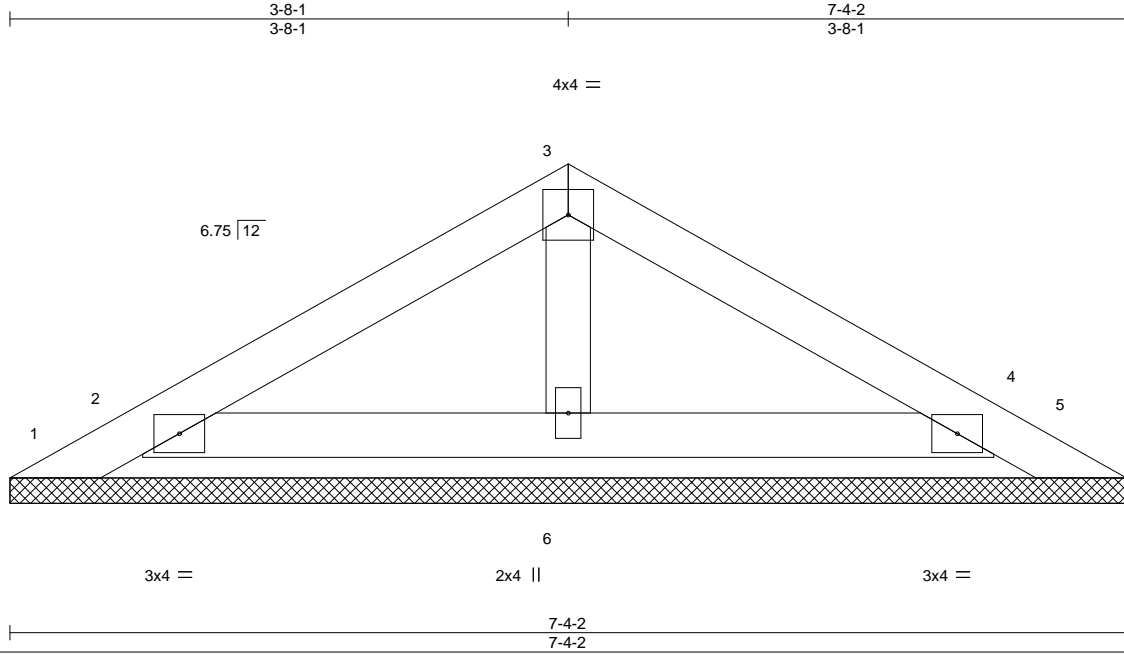


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513872 |
| J1121-6508 | PB3 | GABLE | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:27 2022 Page 1
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Scale = 1:15.2

| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 23 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.

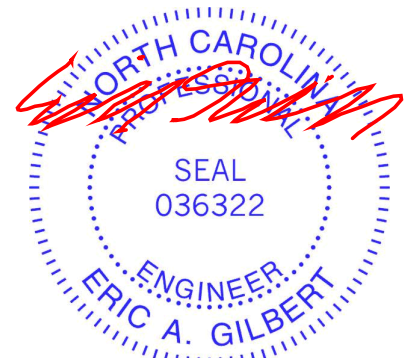
REACTIONS.

All bearings 7'-4'-2.
 (lb) - Max Horz 1=51(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 2=146(LC 12), 4=135(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=255(LC 19)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0'-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6'-0 tall by 2'-0'-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=) 2=146, 4=135.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 13, 2022

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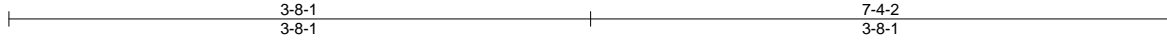
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513873 |
| J1121-6508 | PB4 | Piggyback | 4 | 1 | | |

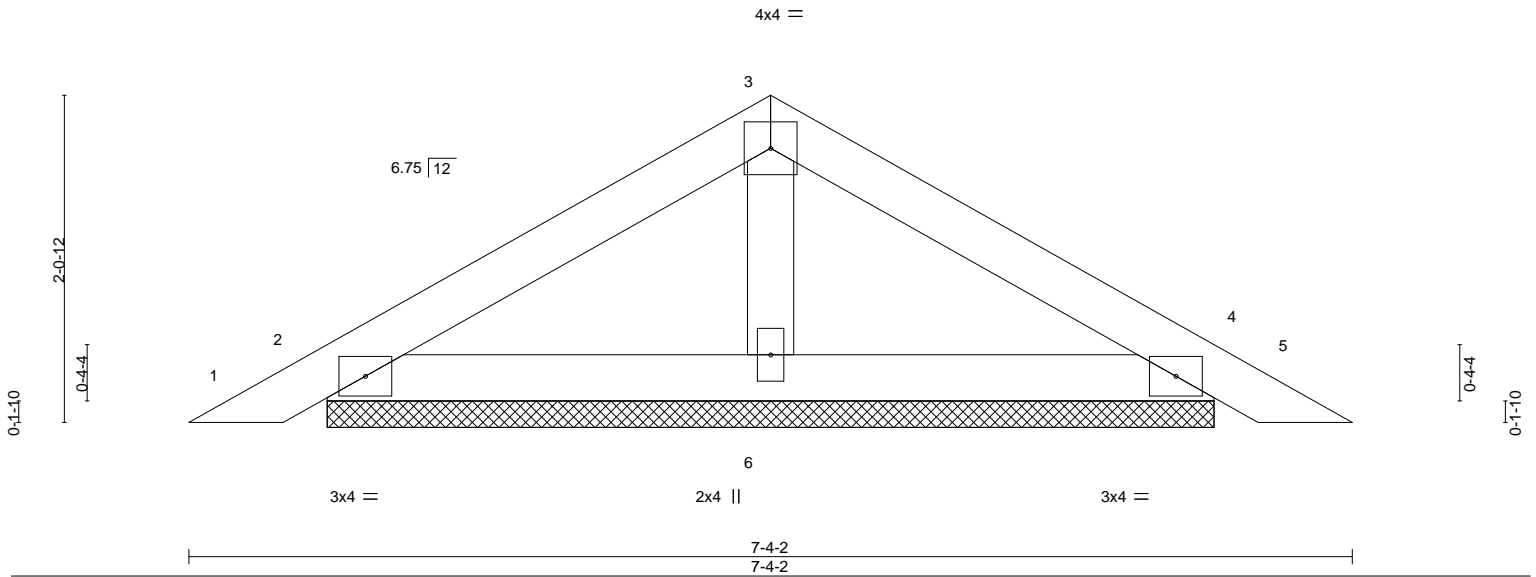
Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:28 2022 Page 1

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Scale = 1:14.5



| | | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|------|-------|--------|-----|---------------|-------------|
| 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 0.10 | Vert(LL) | 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | | | Weight: 23 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.

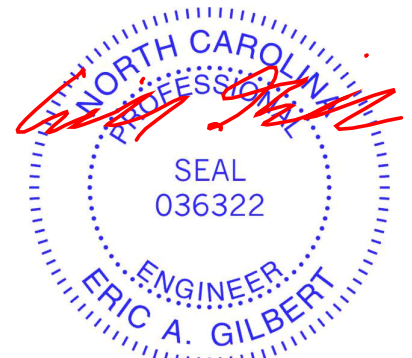
REACTIONS.

(size) 2=5-7-3, 4=5-7-3, 6=5-7-3
 Max Horz 2=-42(LC 10)
 Max Uplift 2=-28(LC 12), 4=-33(LC 13)
 Max Grav 2=154(LC 1), 4=154(LC 1), 6=208(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

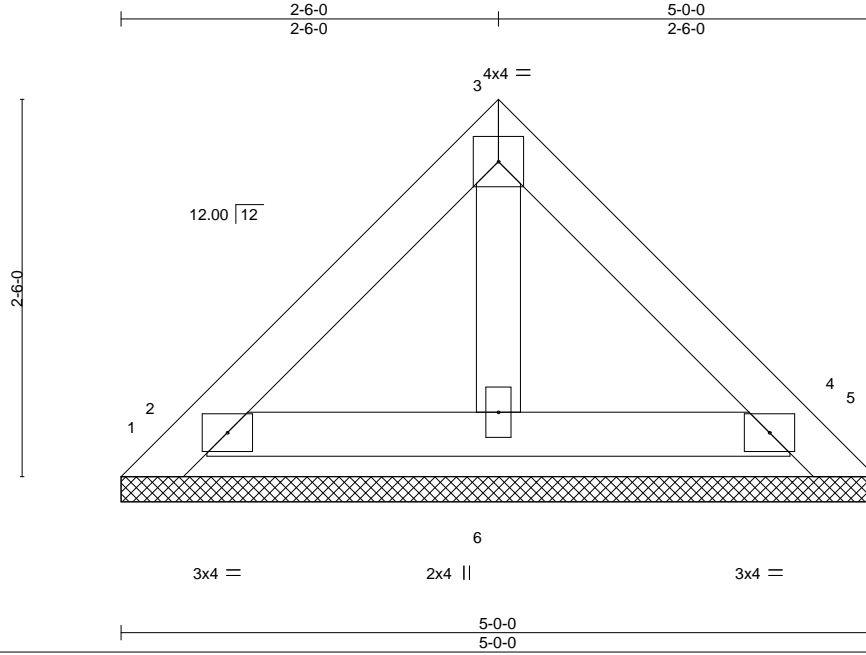


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513874 |
| J1121-6508 | PB5 | GABLE | 2 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:29 2022 Page 1
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Scale = 1:15.3

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.05 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Horz(CT) | 0.00 | 4 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | Weight: 19 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 5-0-0.
(lb) - Max Horz 1=-69(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-107(LC 19), 2=-165(LC 12), 4=-136(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=107, 2=165, 4=136.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 13, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513875 |
| J1121-6508 | PB6 | Piggyback | 24 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:30 2022 Page 1

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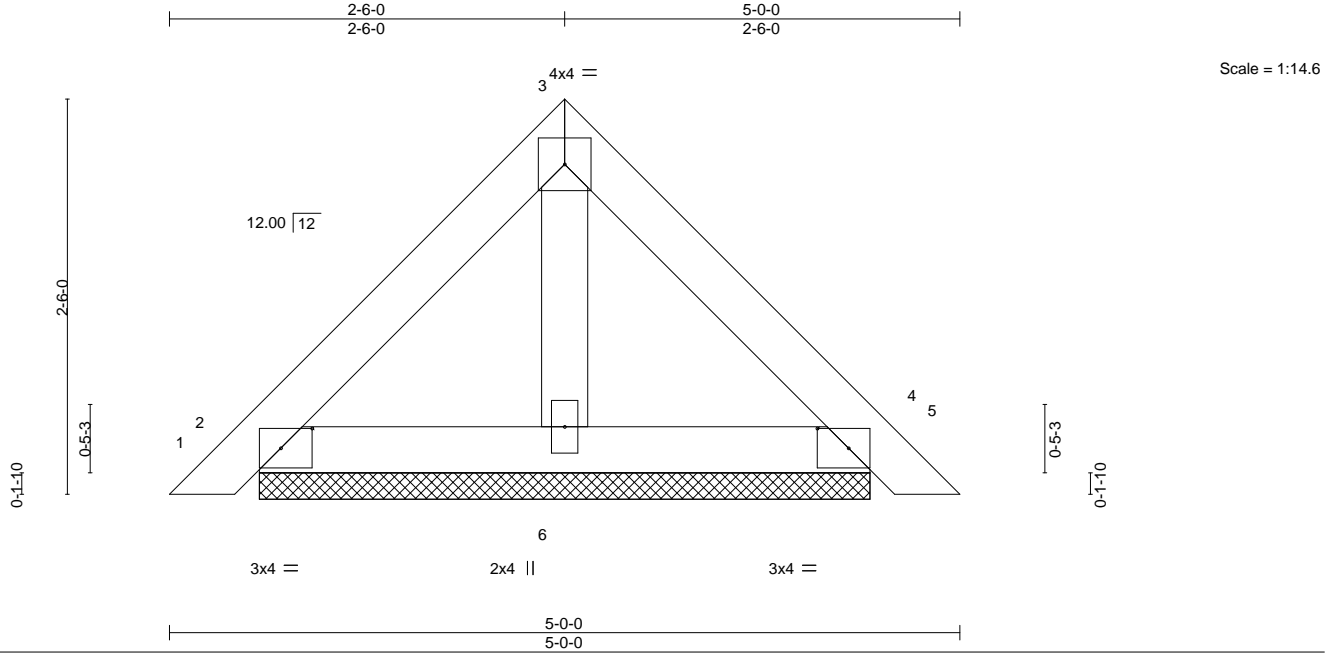


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

| LOADING (psf) | SPACING- | CSL. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|---------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.06 | Vert(LL) 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.03 | Vert(CT) 0.00 | 5 | n/r | 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(CT) 0.00 | 4 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | Weight: 19 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.2 | |

REACTIONS. (size) 2=3-10-6, 4=3-10-6, 6=3-10-6
 Max Horz 2=-55(LC 10)
 Max Uplift 2=-19(LC 13), 4=-23(LC 13)
 Max Grav 2=118(LC 1), 4=118(LC 1), 6=120(LC 3)

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

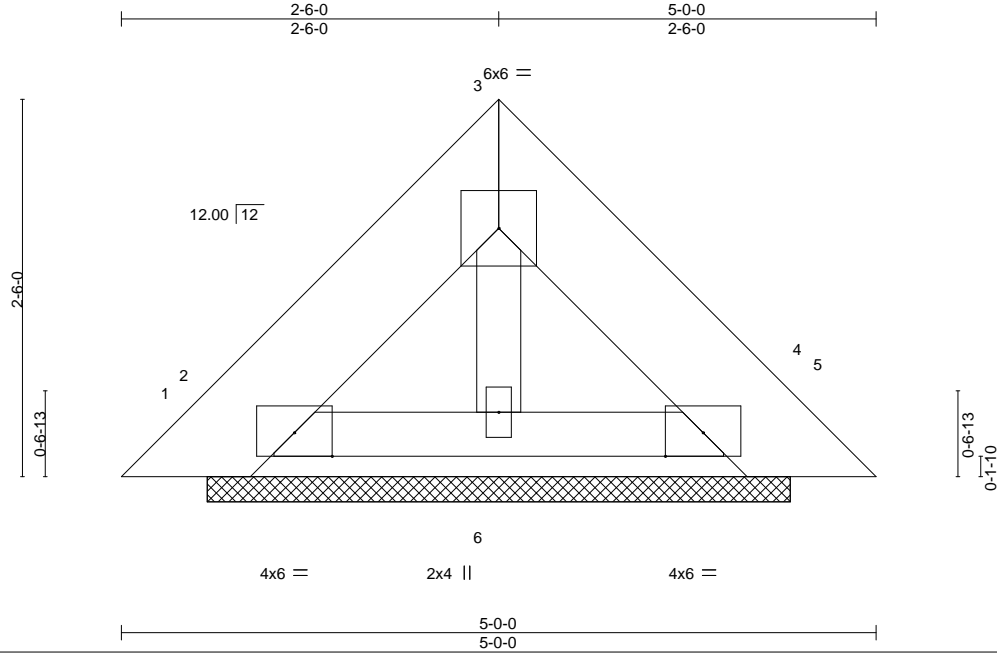
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 2, 4.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



| | | | | | | |
|-------------------|--------------|-------------------------|----------|----------|--|-----------|
| Job J1121-6508 | Truss PB7 | Truss Type Piggyback | Qty 2 | Ply 1 | Lot 25 Oak Haven Job Reference (optional) | E16513876 |
|-------------------|--------------|-------------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:31 2022 Page 1
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Scale = 1:15.3

| | | | | | | | | | |
|----------------------|----------------------|-------------|---------------|----|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.01 | Vert(LL) n/a | - | n/a | 999 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) n/a | - | n/a | 999 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 | 4 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 28 lb | FT = 20% |

LUMBER-

TOP CHORD 2x8 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

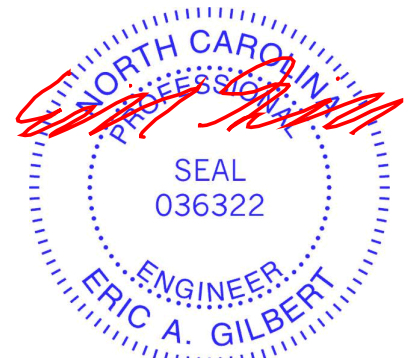
REACTIONS.

All bearings 3-10-6.
(lb) - Max Horz 1=50(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5, 2, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 13, 2022

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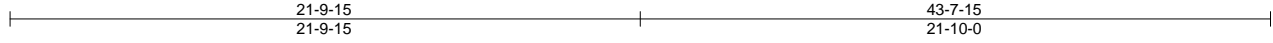


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513877 |
| J1121-6508 | V1 | VALLEY | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:33 2022 Page 1
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5x5 =

Scale = 1:79.8

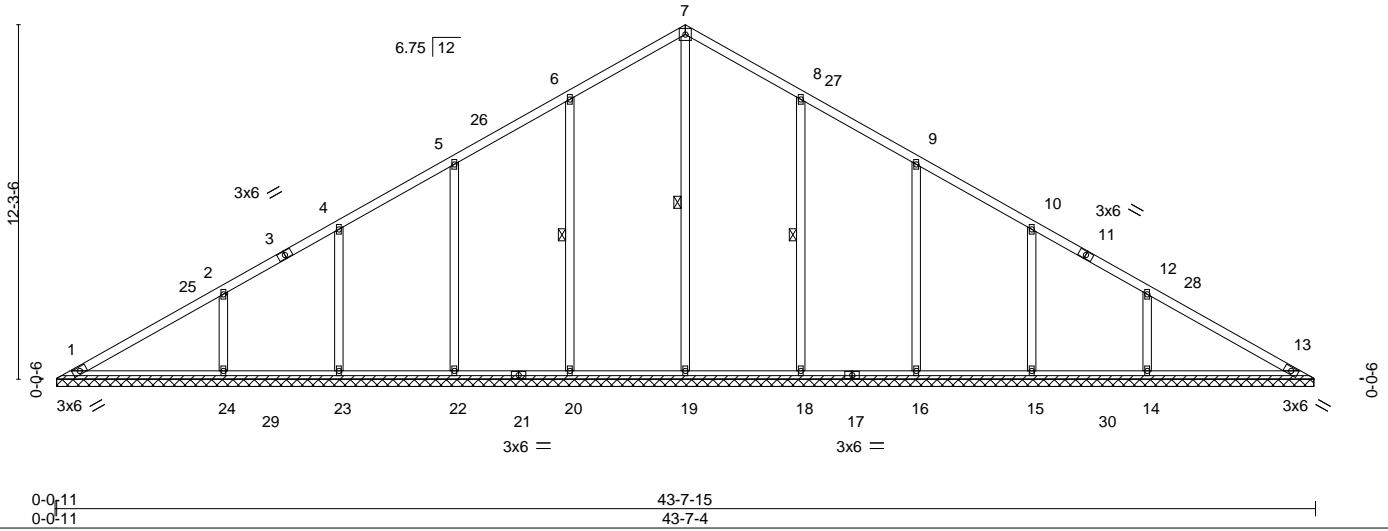


Plate Offsets (X,Y)-- [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.25 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.16 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.27 | Horz(CT) | 0.01 | 13 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 227 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.
 WEBS 1 Row at midpt 7-19, 6-20, 8-18

REACTIONS.

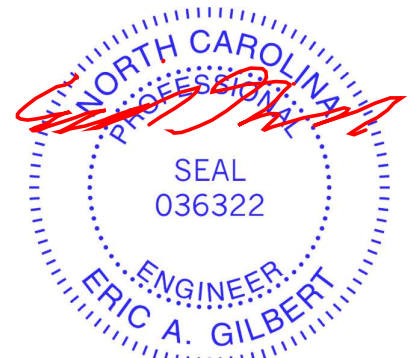
All bearings 43-6-9.
 (lb) - Max Horz 1=262(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 22, 23, 18, 16, 15 except 24=-105(LC 12), 14=-105(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 13 except 19=475(LC 22), 20=524(LC 19), 22=515(LC 19), 23=468(LC 19), 24=479(LC 19), 18=523(LC 20), 16=516(LC 20), 15=468(LC 20), 14=479(LC 20)

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

TOP CHORD 6-7=-317/304, 7-8=-317/304
 WEBS 6-20=-285/177, 5-22=-278/150, 2-24=-365/214, 8-18=-285/177, 9-16=-278/150, 12-14=-365/214

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-0 to 4-11-13, Interior(1) 4-11-13 to 21-9-15, Exterior(2) 21-9-15 to 26-2-12, Interior(1) 26-2-12 to 43-0-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 20, 22, 23, 18, 16, 15 except (jt=lb) 24=105, 14=105.
- Non Standard bearing condition. Review required.



January 13, 2022

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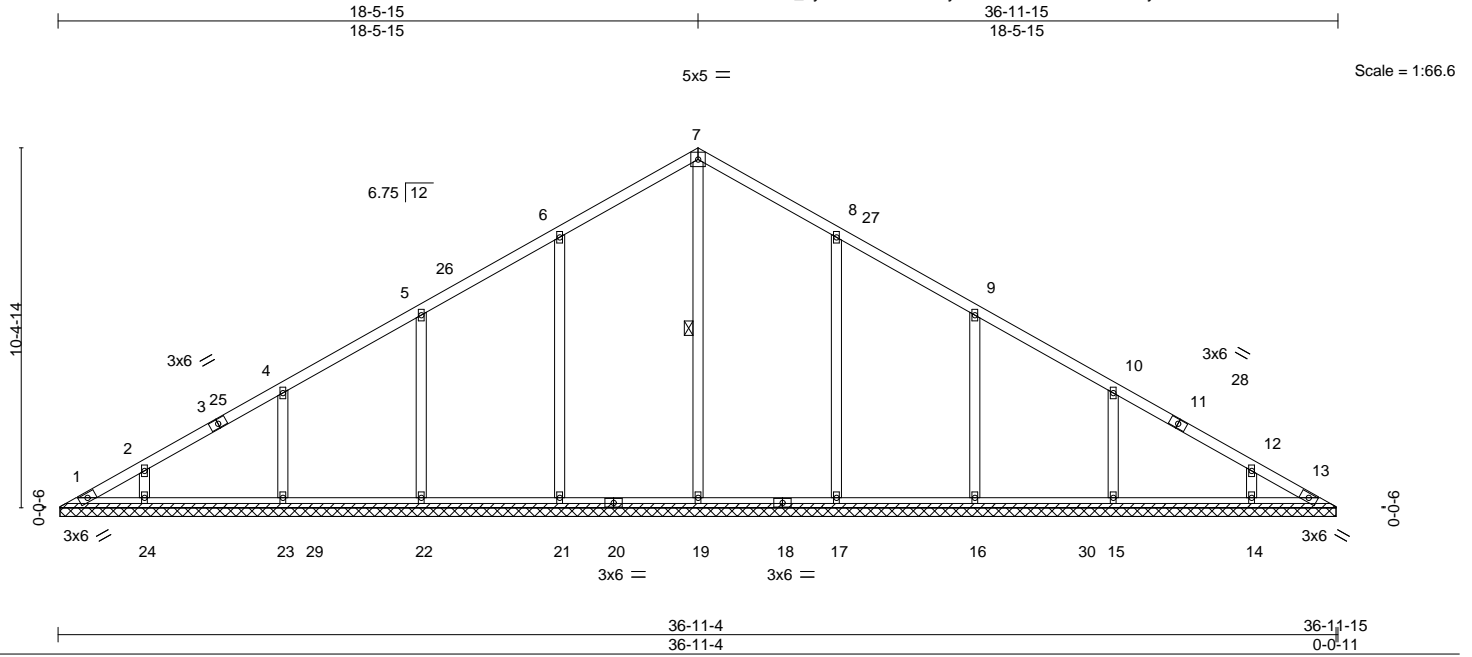


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513878 |
| J1121-6508 | V2 | Valley | 1 | 1 | | |

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:34 2022 Page 1
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| | | | | | |
|----------------------|----------------------|-------------|--------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.15 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.17 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.31 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 13 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 181 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.2 | WEBS 1 Row at midpt 7-19 |

REACTIONS. All bearings 36-10-9.
 (lb) - Max Horz 1=221(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 22, 23, 24, 17, 16, 15, 14, 13
 Max Grav All reactions 250 lb or less at joint(s) 1, 13 except 19=460(LC 22), 21=526(LC 19), 22=510(LC 19), 23=394(LC 19), 24=271(LC 1), 17=525(LC 20), 16=510(LC 20), 15=394(LC 20), 14=271(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-270/257, 7-8=-270/257
 WEBS 6-21=-288/180, 5-22=-268/142, 4-23=-283/157, 8-17=-288/180, 9-16=-268/142, 10-15=-283/157

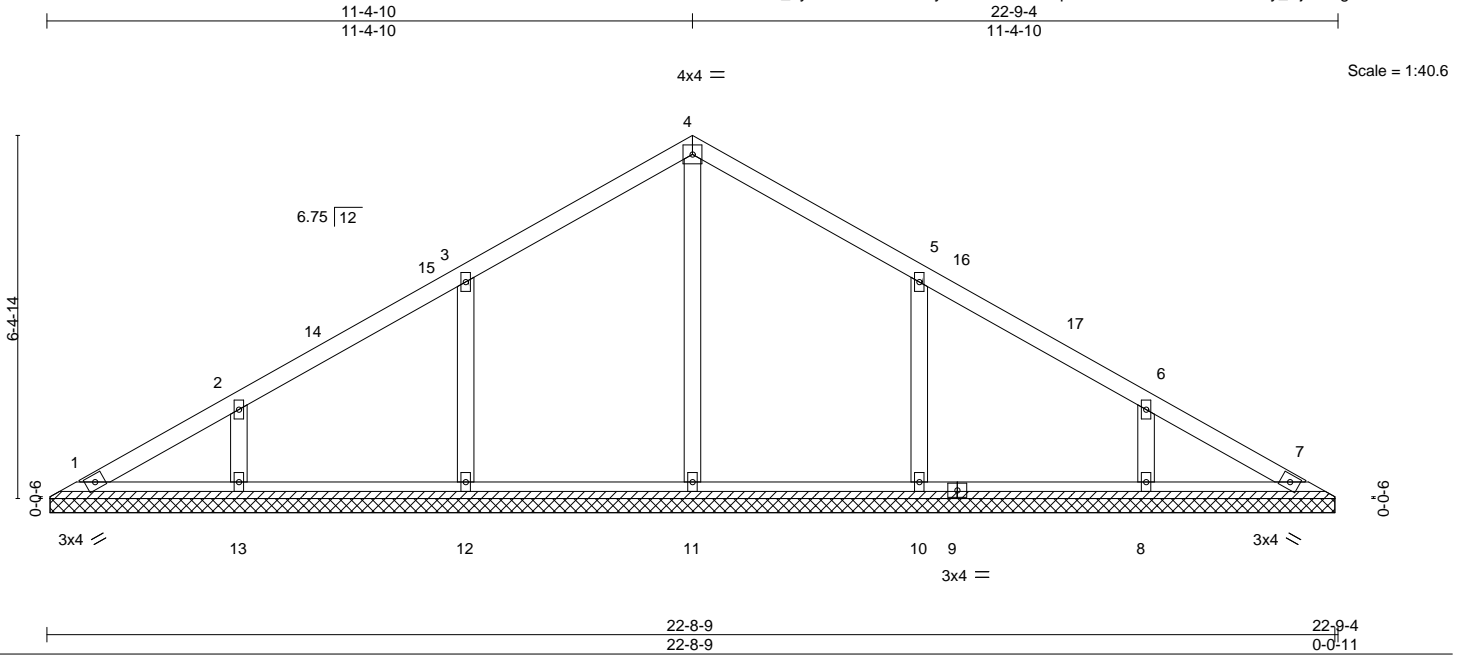
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-0 to 4-11-13, Interior(1) 4-11-13 to 18-5-15, Exterior(2) 18-5-15 to 22-10-12, Interior(1) 22-10-12 to 36-4-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 22, 23, 24, 17, 16, 15, 14, 13.



| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513880 |
| J1121-6508 | V4 | Valley | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:37 2022 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 0.15 | 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 0.12 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 94 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| OTHERS 2x4 SP No.2 | |

REACTIONS. All bearings 22-7-15.
 (lb) - Max Horz 1=133(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 13, 10, 8
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=456(LC 19), 12=440(LC 19), 13=297(LC 1), 10=440(LC 20), 8=297(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-12=294/184, 5-10=294/184

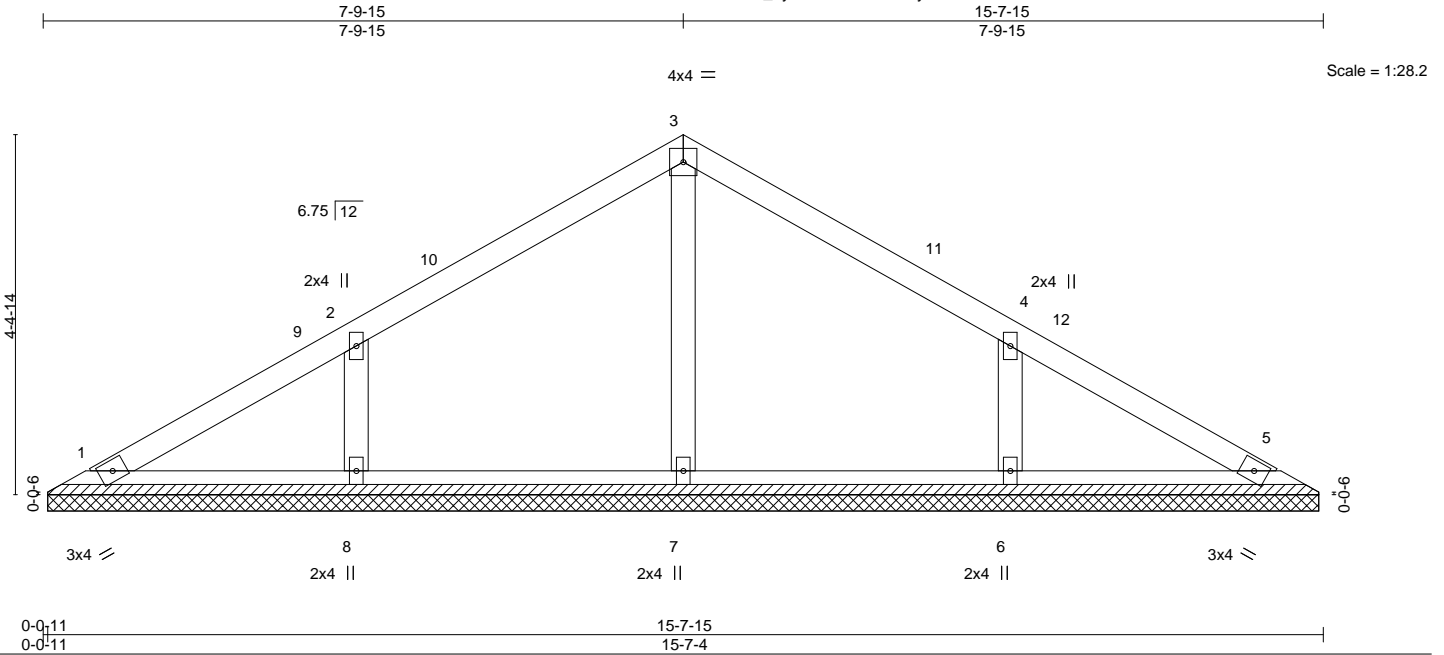
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-0 to 4-11-13, Interior(1) 4-11-13 to 11-4-10, Exterior(2) 11-4-10 to 15-9-7, Interior(1) 15-9-7 to 22-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 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, 12, 13, 10, 8.



| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|------------------|-----------|
| Job J1121-6508 | Truss V5 | Truss Type Valley | Qty 1 | Ply 1 | Lot 25 Oak Haven | E16513881 |
|-------------------|-------------|----------------------|----------|----------|------------------|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:38 2022 Page 1
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| | | | | | | | | | |
|----------------------|----------------------|-------------|---------------|----|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.15 | Vert(LL) n/a | - | n/a | 999 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) n/a | - | n/a | 999 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.06 | Horz(CT) 0.00 | 5 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | Weight: 58 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 15-6-9.
(lb) - Max Horz 1=90(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=265(LC 1), 8=350(LC 19), 6=350(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-290/183, 4-6=-290/183

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-0 to 4-11-13, Interior(1) 4-11-13 to 7-9-15, Exterior(2) 7-9-15 to 12-2-12, Interior(1) 12-2-12 to 15-0-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.



January 13, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

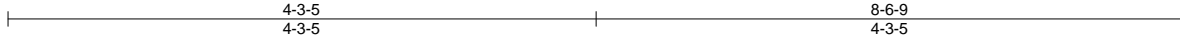


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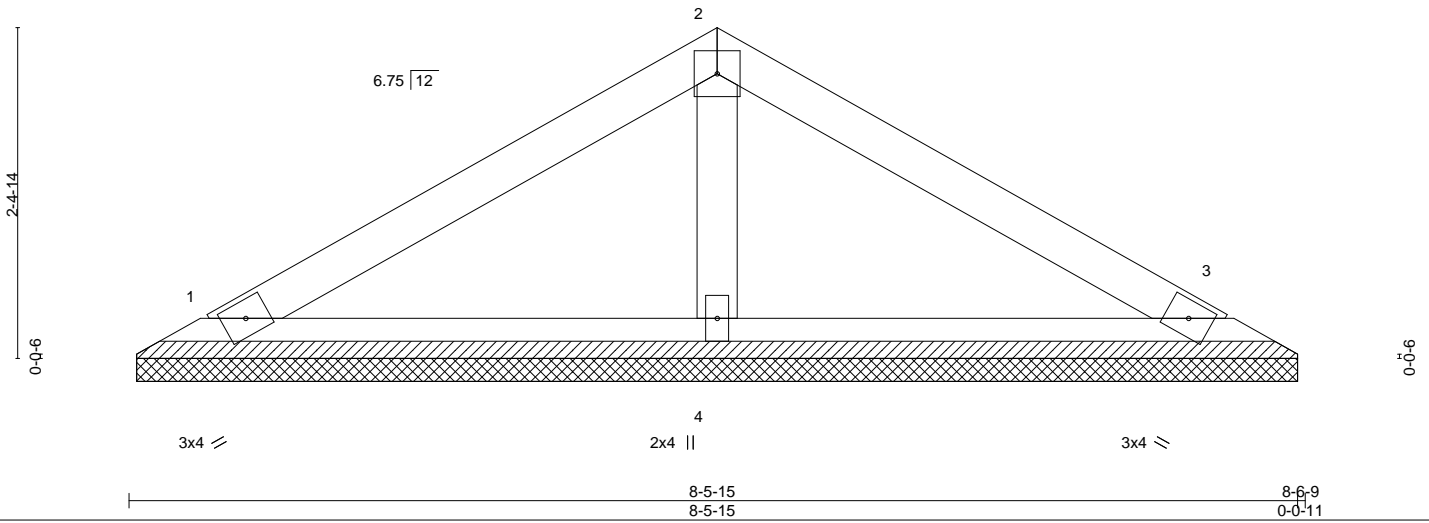
| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|--|-----------|
| Job J1121-6508 | Truss V6 | Truss Type Valley | Qty 1 | Ply 1 | Lot 25 Oak Haven Job Reference (optional) | E16513882 |
|-------------------|-------------|----------------------|----------|----------|--|-----------|

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:39 2022 Page 1
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Scale = 1:16.7



| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.19 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 28 lb | FT = 20% |

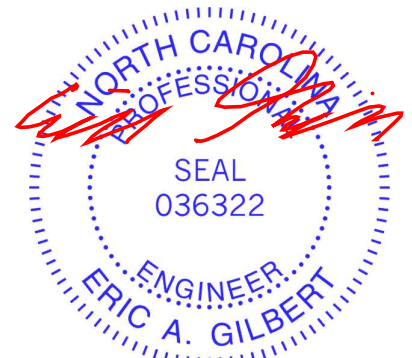
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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=8-5-4, 3=8-5-4, 4=8-5-4
Max Horz 1=46(LC 9)
Max Uplift 1=-25(LC 12), 3=-29(LC 13)
Max Grav 1=154(LC 1), 3=154(LC 1), 4=282(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 13, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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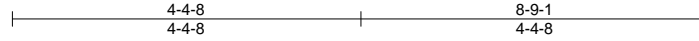
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513883 |
| J1121-6508 | VB1 | Valley | 1 | 1 | | |

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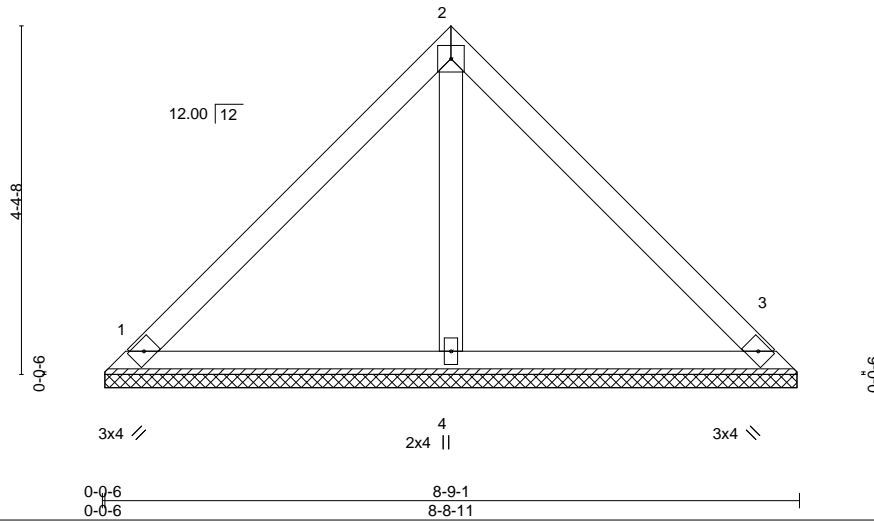
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:40 2022 Page 1

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4x4 =

Scale = 1:28.9



| | | | | | | | | | |
|----------------------|----------------------|-------------|---------------|----|-------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.28 | Vert(LL) n/a | - | n/a | 999 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.12 | Vert(CT) n/a | - | n/a | 999 | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.04 | Horz(CT) 0.00 | 3 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 35 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=8-8-5, 3=8-8-5, 4=8-8-5
 Max Horz 1=-97(LC 8)
 Max Uplift 1=-35(LC 13), 3=-35(LC 13)
 Max Grav 1=196(LC 1), 3=196(LC 1), 4=252(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 13, 2022

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| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513884 |
| J1121-6508 | VB2 | Valley | 1 | 1 | | |

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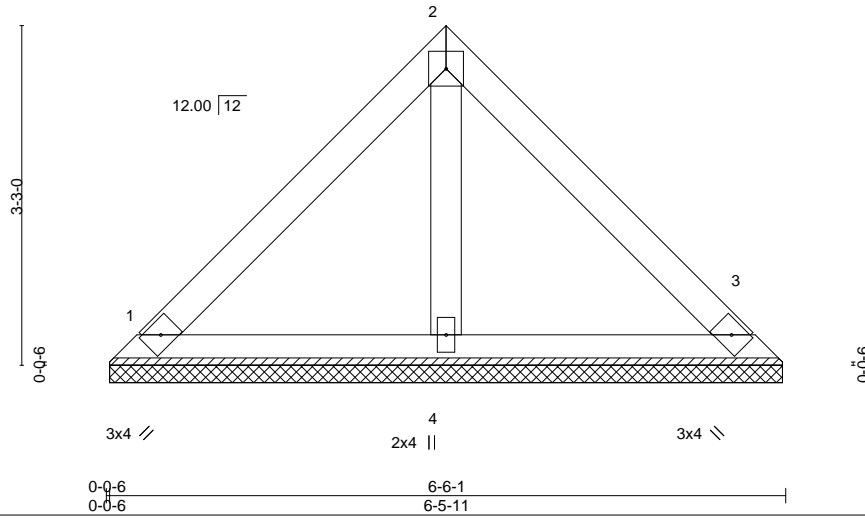
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:41 2022 Page 1

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4x4 =

Scale = 1:22.1



| | | | | | | | | |
|----------------------|----------------------|-------|-------------|-----------------------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.14 | Vert(LL) n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.06 | Vert(CT) n/a | - | n/a | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) 0.00 | 3 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-P | | | | Weight: 26 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=6-5-5, 3=6-5-5, 4=6-5-5
 Max Horz 1=-70(LC 8)
 Max Uplift 1=-25(LC 13), 3=-25(LC 13)
 Max Grav 1=141(LC 1), 3=141(LC 1), 4=181(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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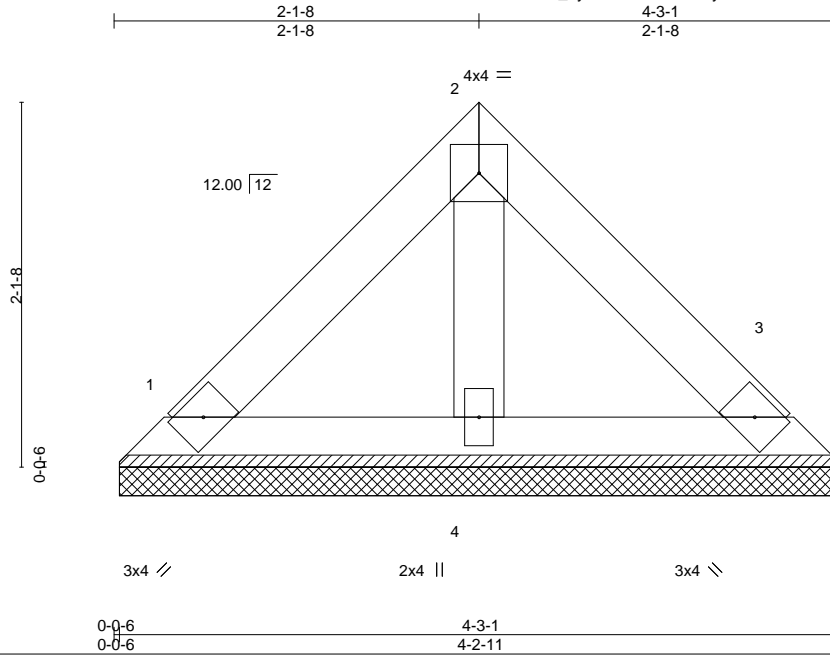


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| | | | | | | |
|------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 25 Oak Haven | E16513885 |
| J1121-6508 | VB3 | Valley | 1 | 1 | | |

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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 13:58:41 2022 Page 1
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Scale = 1:13.4

| LOADING (psf) | SPACING- | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.01 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 16 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 4-3-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

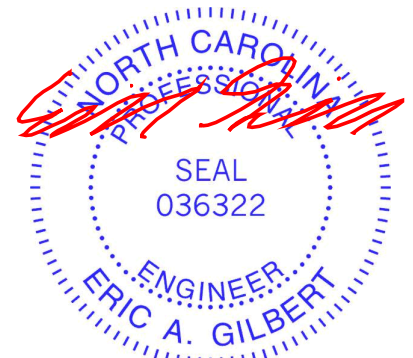
REACTIONS.

(size) 1=4-2-5, 3=4-2-5, 4=4-2-5
Max Horz 1=43(LC 8)
Max Uplift 1=15(LC 13), 3=15(LC 13)
Max Grav 1=86(LC 1), 3=86(LC 1), 4=111(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



January 13, 2022

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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/TFP 1: 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

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TFP 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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.