

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: Master_Craftsman
Master Craftsman

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I52126476 thru I52126501

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

North Carolina COA: C-0844



May 24,2022

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.

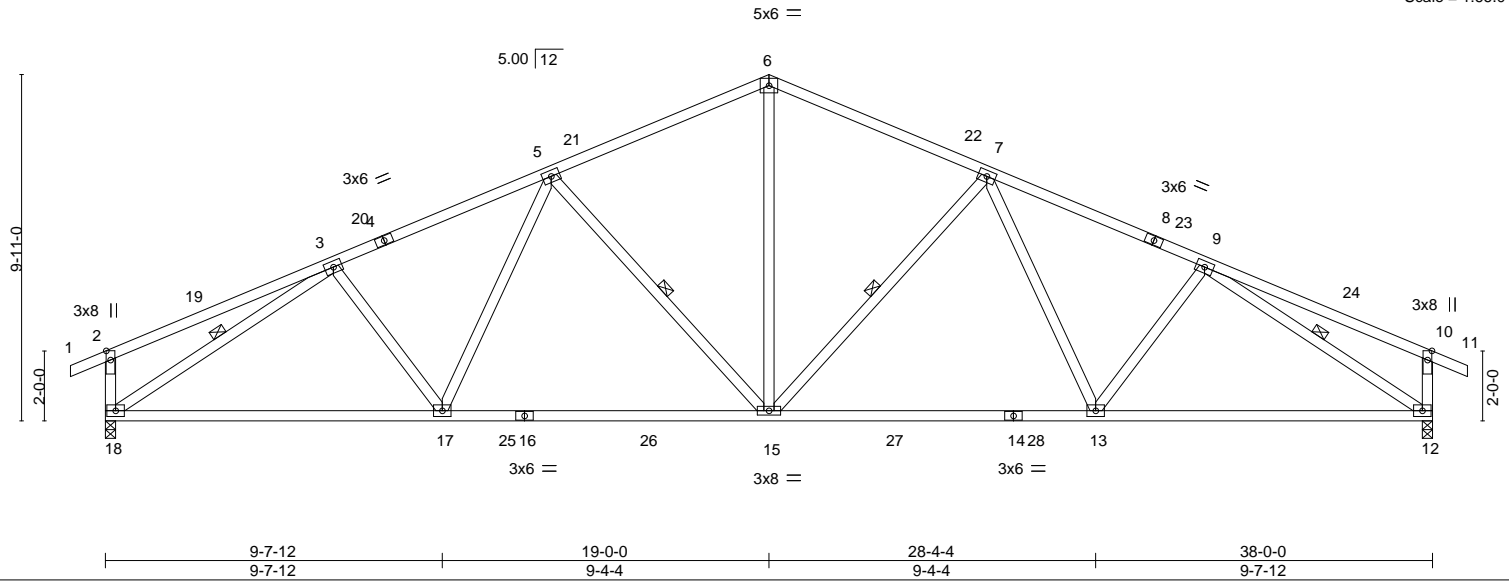
| | | | | | | |
|------------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126476 |
| MASTER_CRAFTSMAN | A01 | COMMON | 2 | 1 | | |

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:19 2022 Page 1

ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-2bkSwFPh1z9fQDcfNdUsU?L7UjFZ1LXYXdCbK?zDLVY
 1-0-0 6-6-5 12-9-3 19-0-0 25-2-13 31-5-11 38-0-0 39-0-0
 1-0-0 6-6-5 6-2-13 6-2-13 6-2-13 6-2-13 6-6-5 1-0-0

Scale = 1:66.0



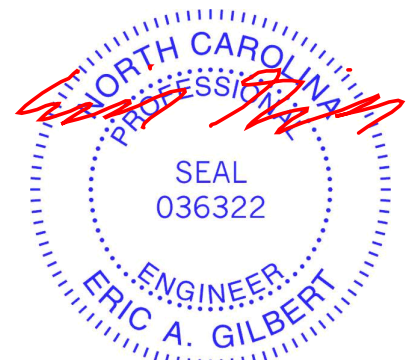
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|-----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.58 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.75 | Vert(LL) -0.24 15-17 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.72 | Vert(CT) -0.41 15-17 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-MS | Horz(CT) 0.10 12 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.06 13-15 >999 240 | Weight: 226 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 7-15, 9-12, 5-15, 3-18 |

REACTIONS. (size) 18=0-3-8, 12=0-3-8
 Max Horz 18=60(LC 16)
 Max Grav 18=1577(LC 1), 12=1577(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-317/128, 3-5=-2106/122, 5-6=-1704/166, 6-7=-1704/166, 7-9=-2106/122, 10-12=-317/128
 BOT CHORD 17-18=-59/1828, 15-17=-31/1823, 13-15=-9/1823, 12-13=-44/1828
 WEBS 6-15=-13/963, 7-15=-539/97, 7-13=-1/258, 9-12=-2059/48, 5-15=-539/97, 5-17=-1/258, 3-18=-2059/48

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 39-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x6 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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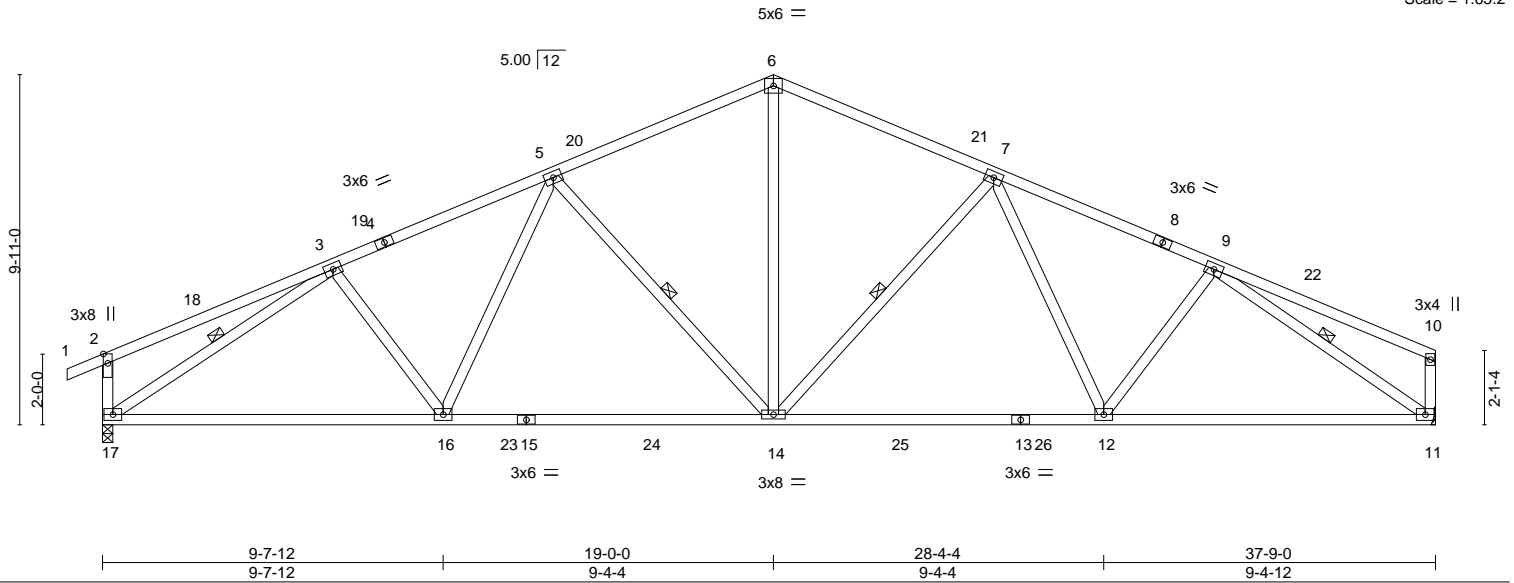
| | | | | | |
|------------------|-------|------------|-----|-----|------------------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman |
| MASTER_CRAFTSMAN | A01A | COMMON | 6 | 1 | 152126477 |

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:21 2022 Page 1

ID:x1XjjwWBLqE?VCRreTaQN3tymvXu___sDLxQyZaPMFWm1V2WKZQQT?Xu6VF7r_xhhpuzDLVW



Scale = 1:65.2



| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.58 | Vert(LL) | -0.24 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.94 | Vert(CT) | -0.42 12-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.72 | Horz(CT) | 0.10 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MS | Wind(LL) | 0.06 14 | >999 | 240 | | |
| | | | | | | | | Weight: 224 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1 *Except* 11-13: 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS 2x4 SP No.3 | WEBS 1 Row at midpt 7-14, 9-11, 5-14, 3-17 |

REACTIONS. (size) 17=0-3-8, 11=Mechanical
 Max Horz 17=65(LC 12)
 Max Grav 17=1568(LC 1), 11=1497(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-317/128, 3-5=-2089/121, 5-6=-1685/165, 6-7=-1685/167, 7-9=-2058/128
 BOT CHORD 16-17=-85/1815, 14-16=-57/1807, 12-14=-37/1790, 11-12=-76/1767
 WEBS 6-14=-14/949, 7-14=-519/96, 9-11=-2058/81, 5-14=-540/96, 5-16=-1/260,
 3-17=-2044/47

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 37-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.

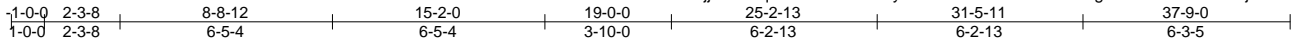


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| | | | | | |
|-------------------------|----------------|----------------------|----------|----------|-------------------------------|
| Job MASTER_CRAFTSMAN | Truss A01AT | Truss Type COFFER | Qty 5 | Ply 1 | Master Craftsman 152126478 |
|-------------------------|----------------|----------------------|----------|----------|-------------------------------|

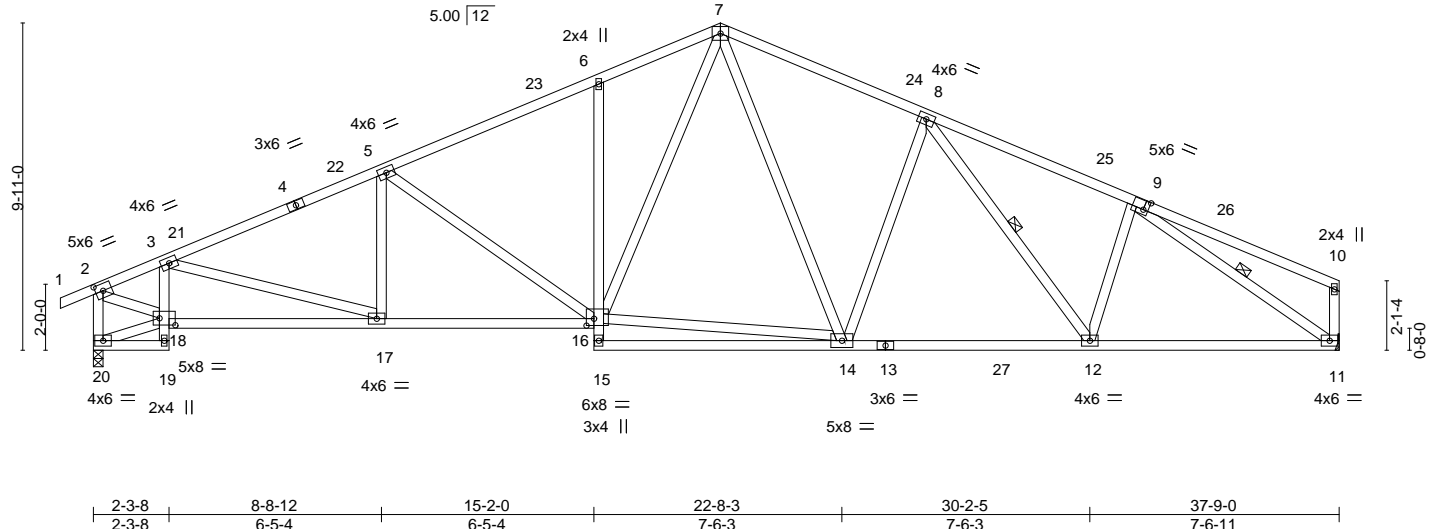
Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:22 2022 Page 1

ID:x1XjwWBLqE?VCRreTaQN3tymvXu-SAQbYHRaKuYDHgLD3l1Z5ezfVwH7Ejs?DbRFLKzDLVV



5x6 =

Scale = 1:69.8



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [2:0-2-12,0-2-8], [9:0-1-12,0-3-4], [16:0-2-12,0-2-8], [18:0-5-12,0-2-8] |
|-----------------------|--|

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|----------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.53 | Vert(LL) | -0.18 12-14 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.76 | Vert(CT) | -0.31 12-14 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.69 | Horz(CT) | 0.12 11 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | | Matrix-MS | Wind(LL) | 0.07 16-17 | >999 | 240 | Weight: 251 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 *Except* 3-19,6-15: 2x4 SP No.3 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 2-18: 2x4 SP No.2 | WEBS 1 Row at midpt 8-12, 9-11 |

REACTIONS. (size) 11=Mechanical, 20=0-3-8
 Max Horz 20=65(LC 12)
 Max Grav 11=1497(LC 1), 20=1568(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1609/81, 3-5=-2440/111, 5-6=-2079/150, 6-7=-2028/215, 7-8=-1886/180,
 8-9=-2030/143, 2-20=-1518/92
 BOT CHORD 3-18=-755/82, 17-18=-107/1556, 16-17=-69/2185, 6-16=-318/127, 12-14=-37/1797,
 11-12=-70/1752
 WEBS 3-17=0/655, 5-16=-461/76, 14-16=-12/1319, 7-16=-82/861, 7-14=-32/535,
 8-14=-443/125, 9-12=0/252, 9-11=-2084/68, 2-18=-44/1676

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 37-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.



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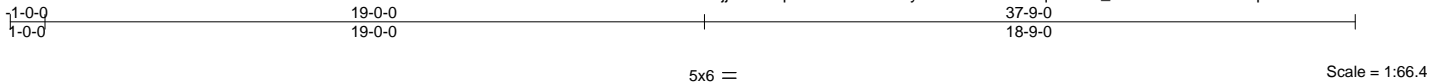
| | | | | | |
|------------------|-------|------------|-----|-----|------------------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman |
| MASTER_CRAFTSMAN | A01G | GABLE | 2 | 1 | 152126479 |

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

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| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.15 | Vert(LL) | 0.00 | 1 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.07 | Vert(CT) | -0.00 | 1 | n/r | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.15 | Horz(CT) | -0.00 | 25 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-R | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 277 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 13-36, 12-37, 14-35

REACTIONS. All bearings 37-9-0.
 (lb) - Max Horz 47=65(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 47, 38, 39, 41, 42, 43, 44, 45, 34, 33, 31, 30, 29, 28, 27
 except 25=-124(LC 16), 46=-139(LC 12), 26=-139(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 47, 25, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26

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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 3-0-0, Interior(1) 3-0-0 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 37-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47, 38, 39, 41, 42, 43, 44, 45, 34, 33, 31, 30, 29, 28, 27 except (jt=lb) 25=124, 46=139, 26=139.



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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

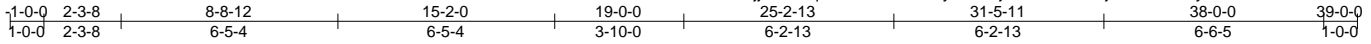


818 Soundside Road
 Edenton, NC 27932

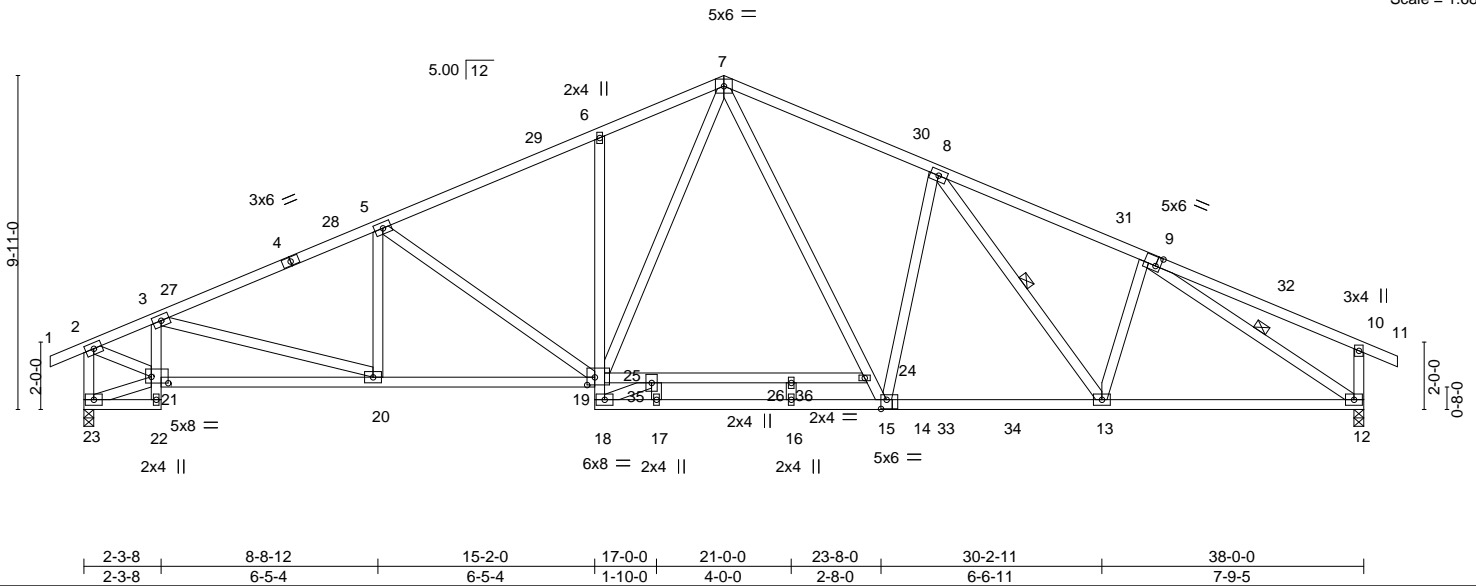
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|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126480 |
| MASTER_CRAFTSMAN | A01T | COFFER | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

8.530 s Dec 6 2021 MITek Industries, Inc. Tue May 24 09:07:39 2022 Page 1
 ID:x1XjwWBLqE?VCReTaQN3tymvXu-JldaG1dKzZrGjGxm67ZF7yxzvvUaZ3OEB8EDeRzDKnl



Scale = 1:68.4



| | | | | | |
|-----------------------|--|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [9:0-1-12,0-3-4], [14:0-2-0,0-3-4], [19:0-2-12,0-2-12], [21:0-6-0,0-2-4] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.62 | Vert(LL) -0.16 16-17 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.78 | Vert(CT) -0.34 19-20 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.72 | Horz(CT) 0.17 12 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.08 19-20 >999 240 | | |
| | | | | Weight: 259 lb | FT = 20% |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 *Except* 3-22: 2x4 SP No.3, 19-21,14-18: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 7-15,2-21,19-24: 2x4 SP No.2 | WEBS 1 Row at midpt 8-13, 9-12 |

REACTIONS. (size) 12=0-3-8, 23=0-3-8
 Max Horz 23=60(LC 16)
 Max Grav 12=1577(LC 1), 23=1577(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1617/71, 3-27=-2461/76, 4-27=-2446/90, 4-28=-2369/94, 5-28=-2324/106,
 5-29=-2088/131, 6-29=-1957/145, 6-7=-2019/207, 7-30=-1894/192, 8-30=-1963/166,
 8-31=-2016/136, 9-31=-2089/109, 2-23=-1525/89, 10-12=-289/125
 BOT CHORD 3-21=-765/84, 20-21=-73/1565, 19-20=-40/2205, 18-19=0/528, 6-19=-312/126,
 17-18=0/1373, 16-17=0/1373, 15-16=0/1373, 14-15=-8/1826, 14-33=-8/1826,
 33-34=-8/1826, 13-34=-8/1826, 12-13=-38/1818
 WEBS 3-20=0/672, 5-19=-469/76, 7-19=-64/834, 7-24=-53/629, 15-24=-65/670, 8-15=-470/130,
 9-13=0/268, 9-12=-2100/37, 2-21=-34/1686, 19-35=0/1255, 25-35=0/1257, 18-25=-1334/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 39-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - N/A
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-7=-60, 7-10=-60, 10-11=-60, 22-23=-20, 19-21=-20, 12-18=-20



Continued on page 2

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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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 | Master Craftsman | 152126480 |
| MASTER_CRAFTSMAN | A01T | COFFER | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

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ID:x1XjwWBLqE?VCRReTaQN3tymvXu-JldaG1dKzZrGjGxm67ZF7yxzvvUaZ3OEB8EDeRzDKnl

LOAD CASE(S)

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-7=-50, 7-10=-50, 10-11=-50, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 7-10=-20, 10-11=-20, 22-23=-40, 19-21=-40, 12-18=-40, 35-36=-40(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-27=22, 7-27=12, 7-30=22, 10-30=12, 10-11=8, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-54, 2-27=-34, 7-27=-24, 7-30=34, 10-30=24, 10-11=20, 2-23=13, 10-12=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-29=12, 7-29=22, 7-32=12, 10-32=22, 10-11=42, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-20, 2-29=-24, 7-29=-34, 7-32=24, 10-32=34, 10-11=54, 2-23=-24, 10-12=-13
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-7=-32, 7-10=-32, 10-11=-27, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=-7, 2-7=12, 7-10=-12, 10-11=-7, 2-23=-15, 10-12=-22
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-7=-32, 7-10=-32, 10-11=-13, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=7, 2-7=12, 7-10=-12, 10-11=7, 2-23=22, 10-12=15
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=20, 2-7=10, 7-10=8, 10-11=4, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-32, 2-7=-22, 7-10=20, 10-11=16, 2-23=13, 10-12=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-7=8, 7-10=10, 10-11=20, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-16, 2-7=-20, 7-10=22, 10-11=32, 2-23=-16, 10-12=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-7=-7, 7-10=-8, 10-11=-4, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=-18, 2-7=-13, 7-10=12, 10-11=16, 2-23=21, 10-12=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-7=-8, 7-10=-7, 10-11=-2, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=-16, 2-7=-12, 7-10=13, 10-11=18, 2-23=-7, 10-12=-21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-28=19, 7-28=9, 7-10=2, 10-11=-3, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-26, 2-28=-31, 7-28=-21, 7-10=14, 10-11=9, 2-23=11, 10-12=12
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-31=9, 10-31=19, 10-11=14, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-9, 2-7=-14, 7-31=21, 10-31=31, 10-11=26, 2-23=-12, 10-12=-11
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-7=9, 7-10=2, 10-11=-3, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-17, 2-7=-21, 7-10=14, 10-11=9, 2-23=5, 10-12=12
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-7=2, 7-10=9, 10-11=5, 22-23=-12, 19-21=-12, 12-18=-12
Horz: 1-2=-9, 2-7=-14, 7-10=21, 10-11=17, 2-23=-12, 10-12=-5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-28=2, 7-28=-7, 7-10=-15, 10-11=-11, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=-26, 2-28=-22, 7-28=-13, 7-10=5, 10-11=9, 2-23=19, 10-12=3
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-7=-15, 7-31=-7, 10-31=2, 10-11=6, 22-23=-20, 19-21=-20, 12-18=-20
Horz: 1-2=-9, 2-7=-5, 7-31=13, 10-31=22, 10-11=26, 2-23=-3, 10-12=-19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 7-10=-20, 10-11=-20, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-60, 12-34=-20, 35-36=-40(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-7=-40, 7-10=-41, 10-11=-38, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
Horz: 1-2=-13, 2-7=-10, 7-10=9, 10-11=12, 2-23=16, 10-12=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-7=-41, 7-10=-40, 10-11=-37, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
Horz: 1-2=-12, 2-7=-9, 7-10=10, 10-11=13, 2-23=-6, 10-12=-16

Continued on page 3

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 | Master Craftsman | 152126480 |
| MASTER_CRAFTSMAN | A01T | COFFER | 1 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

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 ID:x1XjjwWBLqE?VCReTaQN3tymvXu-JldaG1dKzZrGjGXm67ZF7yxzvvUaZ3OEB8EDeRzDKnl

LOAD CASE(S)

- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-28=-34, 7-28=-41, 7-10=-46, 10-11=-43, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
 Horz: 1-2=-20, 2-28=-16, 7-28=-9, 7-10=4, 10-11=7, 2-23=15, 10-12=2
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-43, 2-7=-46, 7-31=-41, 10-31=-34, 10-11=-30, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
 Horz: 1-2=-7, 2-7=-4, 7-31=9, 10-31=16, 10-11=20, 2-23=-2, 10-12=-15
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-7=-60, 7-10=-20, 10-11=-20, 22-23=-20, 19-21=-20, 12-18=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-7=-20, 7-10=-60, 10-11=-60, 22-23=-20, 19-21=-20, 12-18=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-7=-50, 7-10=-20, 10-11=-20, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-7=-20, 7-10=-50, 10-11=-50, 22-23=-20, 19-21=-20, 18-33=-20, 33-34=-50, 12-34=-20, 35-36=-30(F)

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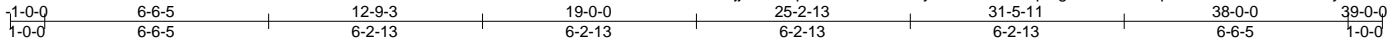


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126481 |
| MASTER_CRAFTSMAN | A02 | COMMON | 5 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

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 ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-JSTsCqo6gscHOPcTw3pXhvWMuZGVrPZiPJdy7dzDKn4



Scale = 1:67.2

| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.58 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.74 | Vert(LL) -0.16 16-17 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.67 | Vert(CT) -0.38 16-17 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-MS | Horz(CT) 0.11 12 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.06 17 >999 240 | Weight: 253 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-21,10-12: 2x6 SP No.2

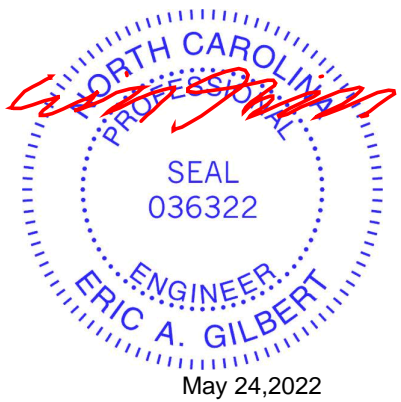
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-13, 9-12, 5-20, 3-21, 22-23

REACTIONS. (size) 21=0-3-8, 12=0-3-8
 Max Horz 21=60(LC 17)
 Max Grav 21=1575(LC 1), 12=1575(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=-325/134, 3-27=-2057/113, 4-27=-2021/115, 4-5=-1987/139, 5-28=-1949/162,
 6-28=-1871/188, 6-29=-1871/188, 7-29=-1949/162, 7-8=-1987/139, 8-30=-2021/115,
 9-30=-2057/113, 10-12=-325/134
 BOT CHORD 20-21=-49/1801, 20-32=-26/1814, 19-32=-26/1814, 19-33=-26/1814, 18-33=-26/1814,
 17-18=0/1488, 16-17=0/1488, 15-16=0/1488, 15-34=-4/1814, 14-34=-4/1814,
 14-35=-4/1814, 13-35=-4/1814, 12-13=-33/1801
 WEBS 6-23=-36/669, 15-23=-47/640, 9-12=-2035/27, 18-22=-48/640, 6-22=-36/669,
 3-21=-2035/27, 5-18=-450/131, 7-15=-450/131

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 39-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) All plates are 4x6 MT20 unless otherwise indicated.
 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 7) N/A

LOAD CASE(S)
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-6=-60, 6-10=-60, 10-11=-60, 12-21=-20
 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-6=-50, 6-10=-50, 10-11=-50, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20



Continued on page 2

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| Job | Truss | Truss Type | Qty | Ply | Master Craftsman |
|------------------|-------|------------|-----|-----|------------------|
| MASTER_CRAFTSMAN | A02 | COMMON | 5 | 1 | 152126481 |

Builders FirstSource, Apex, NC 27523

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LOAD CASE(S)

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-6=-20, 6-10=-20, 10-11=-20, 12-21=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=42, 2-26=22, 6-26=12, 6-29=22, 10-29=12, 10-11=8, 12-21=-12
 Horz: 2-21=13, 1-2=-54, 2-26=-34, 6-26=-24, 6-29=34, 10-29=24, 10-11=20, 10-12=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-28=12, 6-28=22, 6-31=12, 10-31=22, 10-11=42, 12-21=-12
 Horz: 2-21=-24, 1-2=-20, 2-28=-24, 6-28=-34, 6-31=24, 10-31=34, 10-11=54, 10-12=-13
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-13, 2-6=-32, 6-10=-32, 10-11=-27, 12-21=-20
 Horz: 2-21=-15, 1-2=-7, 2-6=12, 6-10=-12, 10-11=-7, 10-12=-22
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-27, 2-6=-32, 6-10=-32, 10-11=-13, 12-21=-20
 Horz: 2-21=22, 1-2=7, 2-6=12, 6-10=-12, 10-11=7, 10-12=15
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=20, 2-6=10, 6-10=8, 10-11=4, 12-21=-12
 Horz: 2-21=13, 1-2=-32, 2-6=-22, 6-10=20, 10-11=16, 10-12=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-6=8, 6-10=10, 10-11=20, 12-21=-12
 Horz: 2-21=-16, 1-2=-16, 2-6=-20, 6-10=22, 10-11=32, 10-12=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-2, 2-6=-7, 6-10=-8, 10-11=-4, 12-21=-20
 Horz: 2-21=21, 1-2=-18, 2-6=-13, 6-10=12, 10-11=16, 10-12=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-4, 2-6=-8, 6-10=-7, 10-11=-2, 12-21=-20
 Horz: 2-21=-7, 1-2=-16, 2-6=-12, 6-10=13, 10-11=18, 10-12=-21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=14, 2-27=19, 6-27=9, 6-10=2, 10-11=-3, 12-21=-12
 Horz: 2-21=11, 1-2=-26, 2-27=-31, 6-27=-21, 6-10=14, 10-11=9, 10-12=12
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-6=2, 6-30=9, 10-30=19, 10-11=14, 12-21=-12
 Horz: 2-21=-12, 1-2=-9, 2-6=-14, 6-30=21, 10-30=31, 10-11=26, 10-12=-11
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=5, 2-6=9, 6-10=2, 10-11=-3, 12-21=-12
 Horz: 2-21=5, 1-2=-17, 2-6=-21, 6-10=14, 10-11=9, 10-12=12
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-3, 2-6=2, 6-10=9, 10-11=5, 12-21=-12
 Horz: 2-21=-12, 1-2=-9, 2-6=-14, 6-10=21, 10-11=17, 10-12=-5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=6, 2-27=2, 6-27=-7, 6-10=-15, 10-11=-11, 12-21=-20
 Horz: 2-21=19, 1-2=-26, 2-27=-22, 6-27=-13, 6-10=5, 10-11=9, 10-12=3
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-11, 2-6=-15, 6-30=-7, 10-30=2, 10-11=6, 12-21=-20
 Horz: 2-21=-3, 1-2=-9, 2-6=-5, 6-30=13, 10-30=22, 10-11=26, 10-12=-19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-6=-20, 6-10=-20, 10-11=-20, 21-32=-20, 32-33=-60, 33-34=-20, 34-35=-60, 12-35=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-37, 2-6=-40, 6-10=-41, 10-11=-38, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20
 Horz: 2-21=16, 1-2=-13, 2-6=-10, 6-10=9, 10-11=12, 10-12=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-38, 2-6=-41, 6-10=-40, 10-11=-37, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20
 Horz: 2-21=-6, 1-2=-12, 2-6=-9, 6-10=10, 10-11=13, 10-12=-16
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | IS2126481 |
| MASTER_CRAFTSMAN | A02 | COMMON | 5 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 09:07:53 2022 Page 3
 ID:x1XjjwWBLqE?VCReTaQN3tymvXu-JSTsCqo6gscHOPcTlw3pXhvWMuZGvRPZiPJdy7dzDKn4

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-30, 2-27=-34, 6-27=-41, 6-10=-46, 10-11=-43, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20
 Horz: 2-21=15, 1-2=-20, 2-27=-16, 6-27=-9, 6-10=4, 10-11=7, 10-12=2

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-43, 2-6=-46, 6-30=-41, 10-30=-34, 10-11=-30, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20
 Horz: 2-21=-2, 1-2=-7, 2-6=-4, 6-30=9, 10-30=16, 10-11=20, 10-12=15

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-10=-20, 10-11=-20, 12-21=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-6=-20, 6-10=-60, 10-11=-60, 12-21=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-6=-50, 6-10=-20, 10-11=-20, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-6=-20, 6-10=-50, 10-11=-50, 21-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 12-35=-20

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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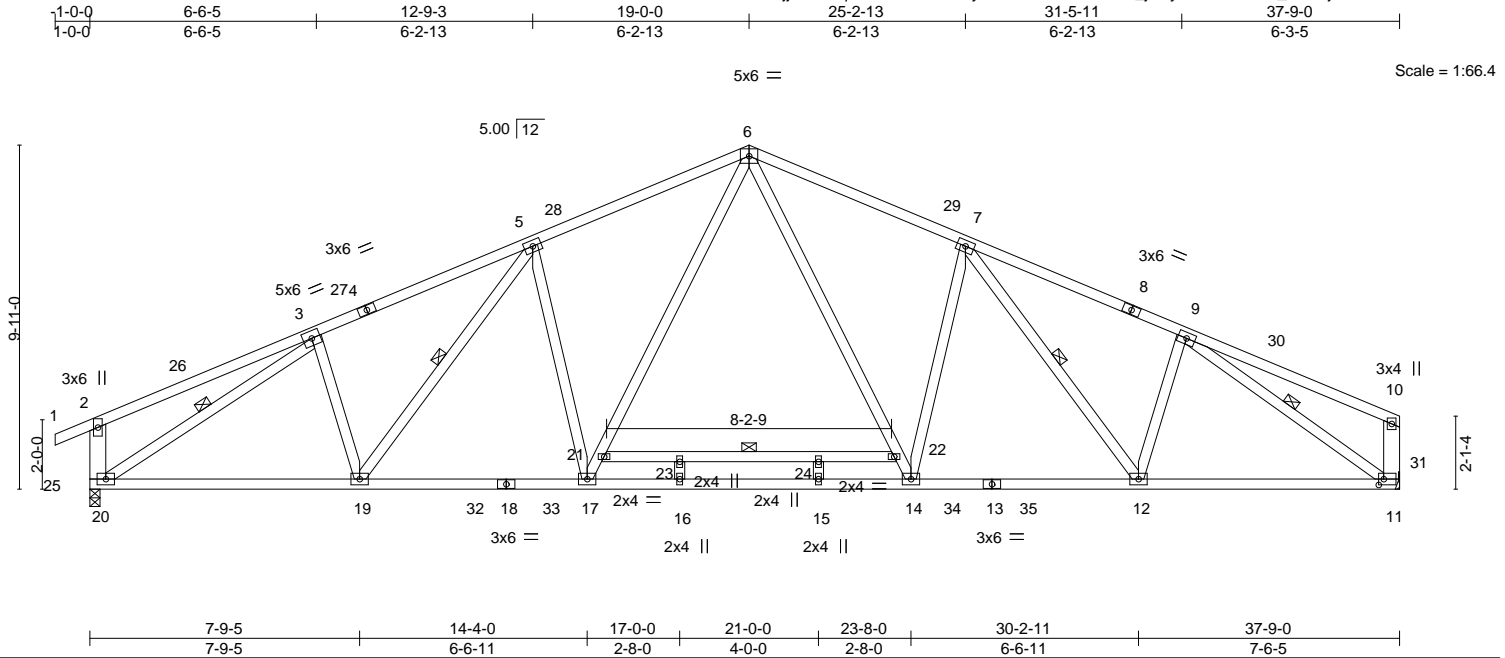


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126482 |
| MASTER_CRAFTSMAN | A02A | COMMON | 2 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

8.530 s Dec 6 2021 MITek Industries, Inc. Tue May 24 09:08:04 2022 Page 1
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| | | | | | | | | | |
|-----------------------|----------------------|-----------|----------------|--------------|----------|--------|-----|----------------|-------------|
| Plate Offsets (X,Y)-- | [11:0-1-12,0-2-0] | | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.58 | Vert(LL) -0.41 | 15-16 | >999 | 360 | | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.82 | Vert(CT) -0.60 | 15-16 | >741 | 240 | | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.71 | Horz(CT) 0.10 | 11 | n/a | n/a | | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.06 | 16 | >999 | 240 | | | |
| | | | | | | | | Weight: 251 lb | FT = 20% |

| | |
|--|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 *Except* 13-18: 2x4 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 2-20,10-11: 2x6 SP No.2, 21-22: 2x4 SP No.2 | WEBS 1 Row at midpt 7-12, 9-11, 5-19, 3-20, 21-22 |

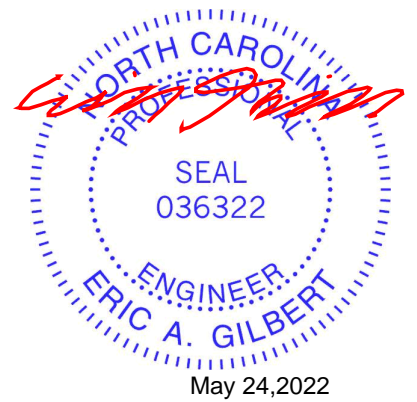
REACTIONS. (size) 20=0-3-8, 11=Mechanical
 Max Horz 20=87(LC 12)
 Max Grav 20=1567(LC 1), 11=1502(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 20-25=-325/138, 2-25=-325/138, 3-27=-2108/113, 4-27=-2078/116, 4-5=-2050/140,
 5-28=-2075/162, 6-28=-2009/188, 6-29=-1997/185, 7-29=-2062/159, 7-8=-2009/150,
 8-9=-2068/124
 BOT CHORD 19-20=-59/1838, 19-32=-39/1918, 18-32=-39/1918, 18-33=-39/1918, 17-33=-39/1918,
 16-17=0/1599, 15-16=0/1599, 14-15=0/1599, 14-34=-20/1901, 13-34=-20/1901,
 13-35=-20/1901, 12-35=-20/1901, 11-12=-57/1795
 WEBS 6-22=-32/731, 14-22=-43/646, 7-14=-430/128, 9-12=0/308, 9-11=-2113/51,
 17-21=-45/670, 6-21=-33/754, 5-17=-451/129, 3-19=0/284, 3-20=-2094/23

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-9-10, Interior(1) 2-9-10 to 19-0-0, Exterior(2) 19-0-0 to 24-4-8, Interior(1) 24-4-8 to 37-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x6 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - N/A

LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-6=-60, 6-10=-60, 11-20=-20



Continued on page 2

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

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126482 |
| MASTER_CRAFTSMAN | A02A | COMMON | 2 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

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8.530 s Dec 6 2021 MITek Industries, Inc. Tue May 24 09:08:04 2022 Page 2

LOAD CASE(S)

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-6=-50, 6-10=-50, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-10=-20, 11-20=-40, 21-22=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=42, 2-26=22, 6-26=12, 6-29=22, 10-29=12, 11-20=-12
Horz: 20-25=13, 1-2=-54, 2-26=-34, 6-26=-24, 6-29=34, 10-29=24, 11-31=24
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-28=12, 6-28=22, 6-30=12, 10-30=22, 11-20=-12
Horz: 20-25=-24, 1-2=-20, 2-28=-24, 6-28=-34, 6-30=24, 10-30=34, 11-31=-13
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-13, 2-6=-32, 6-10=-32, 11-20=-20
Horz: 20-25=-15, 1-2=-7, 2-6=12, 6-10=-12, 11-31=-22
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-6=-32, 6-10=-32, 11-20=-20
Horz: 20-25=22, 1-2=7, 2-6=12, 6-10=-12, 11-31=15
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=20, 2-6=10, 6-10=8, 11-20=-12
Horz: 20-25=13, 1-2=-32, 2-6=-22, 6-10=20, 11-31=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=8, 6-10=10, 11-20=-12
Horz: 20-25=-16, 1-2=-16, 2-6=-20, 6-10=22, 11-31=-13
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-6=-7, 6-10=-8, 11-20=-20
Horz: 20-25=21, 1-2=-18, 2-6=-13, 6-10=12, 11-31=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-6=-8, 6-10=-7, 11-20=-20
Horz: 20-25=-7, 1-2=-16, 2-6=-12, 6-10=13, 11-31=-21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-27=19, 6-27=9, 6-10=2, 11-20=-12
Horz: 20-25=11, 1-2=-26, 2-27=-31, 6-27=-21, 6-10=14, 11-31=12
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-6=2, 6-8=9, 8-10=19, 11-20=-12
Horz: 20-25=-12, 1-2=-9, 2-6=-14, 6-8=21, 8-10=31, 11-31=-11
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-6=9, 6-10=2, 11-20=-12
Horz: 20-25=5, 1-2=-17, 2-6=-21, 6-10=14, 11-31=12
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-6=2, 6-10=9, 11-20=-12
Horz: 20-25=-12, 1-2=-9, 2-6=-14, 6-10=21, 11-31=-5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-27=2, 6-27=-7, 6-10=-15, 11-20=-20
Horz: 20-25=19, 1-2=-26, 2-27=-22, 6-27=-13, 6-10=5, 11-31=3
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-6=-15, 6-8=-7, 8-10=2, 11-20=-20
Horz: 20-25=-3, 1-2=-9, 2-6=-5, 6-8=13, 8-10=22, 11-31=-19
- 18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-10=-20, 20-32=-20, 32-33=-60, 33-34=-20, 34-35=-60, 11-35=-20, 21-22=-40
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-6=-40, 6-10=-41, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
Horz: 20-25=16, 1-2=-13, 2-6=-10, 6-10=9, 11-31=6
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-6=-41, 6-10=-40, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
Horz: 20-25=-6, 1-2=-12, 2-6=-9, 6-10=10, 11-31=-16

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126482 |
| MASTER_CRAFTSMAN | A02A | COMMON | 2 | 1 | Job Reference (optional) | |

Builders FirstSource, Apex, NC 27523

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 09:08:04 2022 Page 3
 ID:x1XjjwWBLqE?VCRreTaQN3tymvXu-UZe0Wbw04F_jD5ya4tW6dETE7_0rwMjwxXn1?UzDKmv

LOAD CASE(S)

- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-30, 2-27=-34, 6-27=-41, 6-10=-46, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
 Horz: 20-25=15, 1-2=-20, 2-27=-16, 6-27=-9, 6-10=4, 11-31=2
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-43, 2-6=-46, 6-8=-41, 8-10=-34, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
 Horz: 20-25=-2, 1-2=-7, 2-6=-4, 6-8=9, 8-10=16, 11-31=15
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-6=-60, 6-10=-20, 11-20=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-6=-20, 6-10=-60, 11-20=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-6=-50, 6-10=-20, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-6=-20, 6-10=-50, 20-32=-20, 32-33=-50, 33-34=-20, 34-35=-50, 11-35=-20, 21-22=-30

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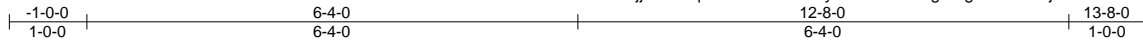
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126483 |
| MASTER_CRAFTSMAN | B01 | COMMON | 3 | 1 | | |

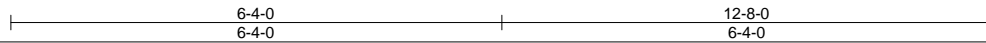
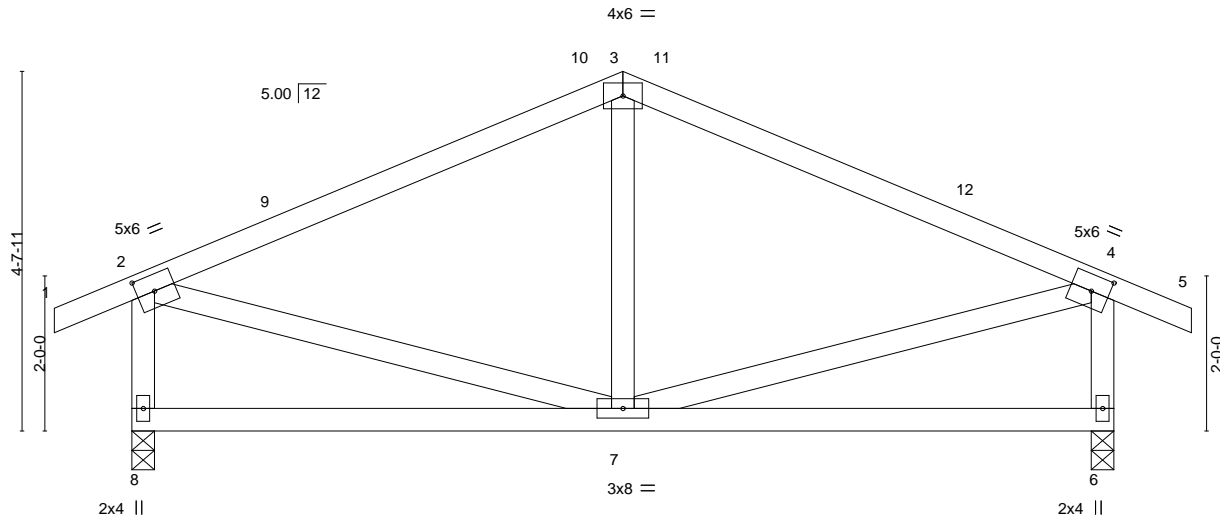
Builders FirstSource (Apex, NC), Apex, NC - 27523,

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Scale = 1:29.7



| | | | | | |
|-----------------------|------------------------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [2:0-2-12,0-2-8], [4:0-2-12,0-2-8] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.57 | Vert(LL) -0.03 6-7 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.33 | Vert(CT) -0.06 6-7 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.13 | Horz(CT) 0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.00 7 >999 240 | Weight: 71 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-45(LC 10)
 Max Uplift 8=-22(LC 12), 6=-22(LC 13)
 Max Grav 8=564(LC 1), 6=564(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-508/133, 2-3=-494/77, 3-4=-494/78, 4-6=-508/134
 WEBS 2-7=0/302, 4-7=0/302

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-4-0, Exterior(2) 6-4-0 to 10-6-15, Interior(1) 10-6-15 to 13-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.



May 24, 2022

| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

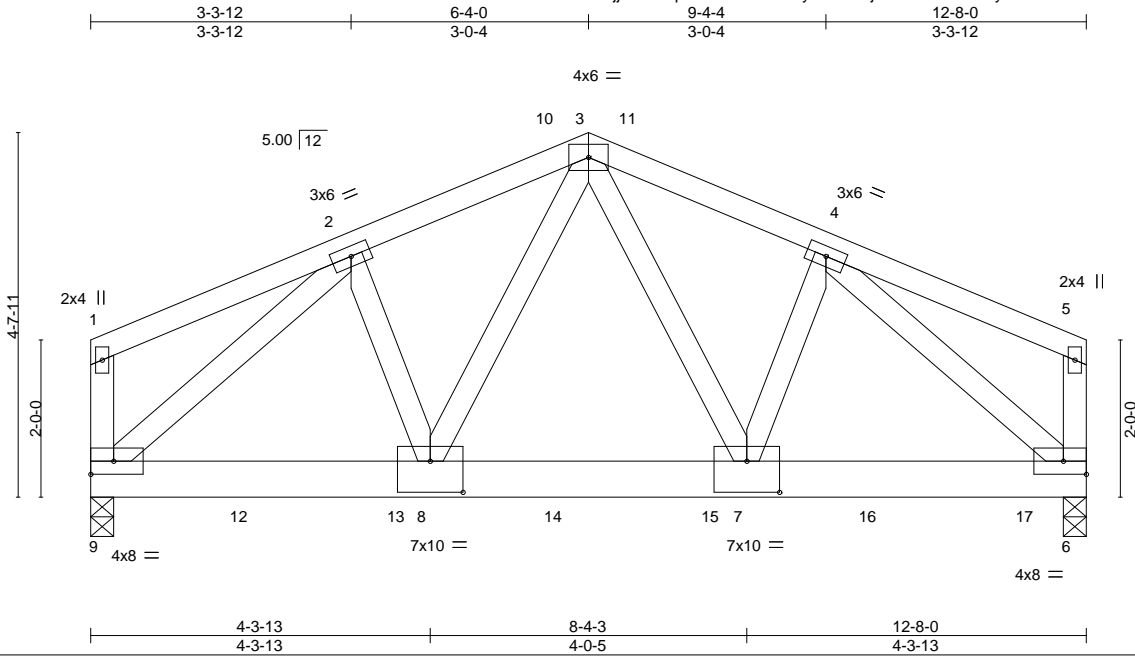
| | | | | | |
|-------------------------|------------------|----------------------|----------|----------|-------------------------------|
| Job MASTER_CRAFTSMAN | Truss B01-2PL | Truss Type COMMON | Qty 1 | Ply 2 | Master Craftsman I52126484 |
|-------------------------|------------------|----------------------|----------|----------|-------------------------------|

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:30 2022 Page 1

ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-DjvdE0XbRLY5EvyXRARQKI2Y94I6OvA3qNgdtzDLVN



Scale = 1:29.3

| | | | | | |
|-----------------------|------------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [7:0-5-0,0-4-12], [8:0-5-0,0-4-12] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.40 | Vert(LL) -0.03 7-8 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.42 | Vert(CT) -0.07 7-8 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.43 | Horz(CT) 0.02 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TP12014 | Matrix-MS | Wind(LL) 0.00 8 >999 240 | Weight: 175 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP DSS | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 9=0-3-8, 6=0-3-8
 Max Horz 9=44(LC 6)
 Max Grav 9=4494(LC 1), 6=5364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-300/0, 2-3=-4750/0, 3-4=-4780/0, 4-5=-327/0
 BOT CHORD 8-9=0/3840, 7-8=0/3572, 6-7=0/3867
 WEBS 3-7=0/1959, 4-7=0/1727, 4-6=-4972/0, 3-8=0/1893, 2-8=0/1724, 2-9=-4969/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1477 lb down at 1-11-4, 1477 lb down at 3-11-4, 1477 lb down at 5-11-4, 1477 lb down at 7-11-4, and 1477 lb down at 9-11-4, and 1481 lb down at 11-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

| |
|---|
| 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 |
| Uniform Loads (plf) |
| Vert: 1-3=-60, 3-5=-60, 6-9=-20 |
| Concentrated Loads (lb) |
| Vert: 12=-1477(B) 13=-1477(B) 14=-1477(B) 15=-1477(B) 16=-1477(B) 17=-1481(B) |

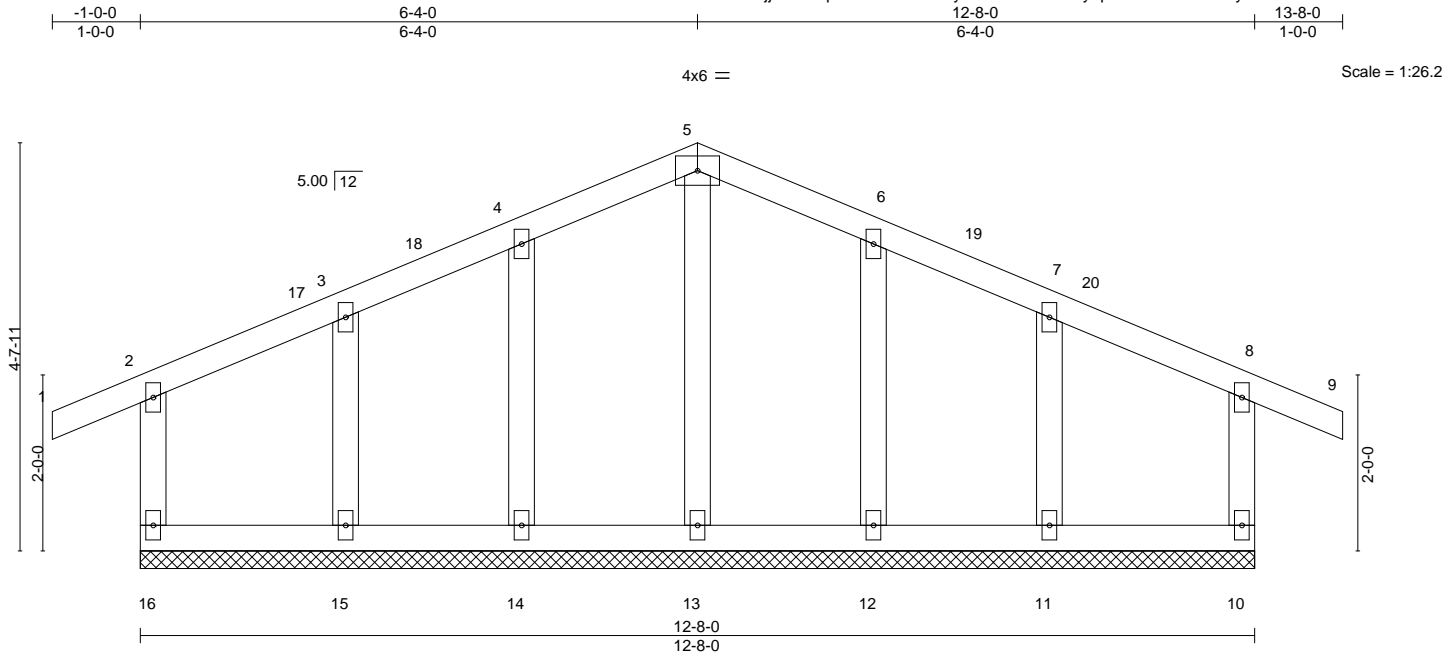


May 24, 2022

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126485 |
| MASTER_CRAFTSMAN | B01G | GABLE | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:32 2022 Page 1
 ID:x1XjjwWBLqE?VCRreTaQN3tymvXu-950NfiZrZyopTD68esCvVINTeysdaOOTW8snizDLVL



| 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 | 9 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | -0.00 | 9 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.04 | Horz(CT) | 0.00 | 10 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | Weight: 70 lb | FT = 20% |

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

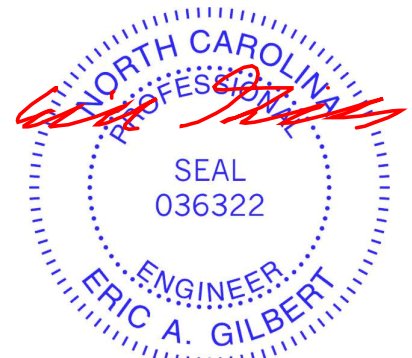
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-8-0.
 (lb) - Max Horz 16=45(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-4-0, Corner(3) 6-4-0 to 9-4-0, Exterior(2) 9-4-0 to 13-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



May 24, 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



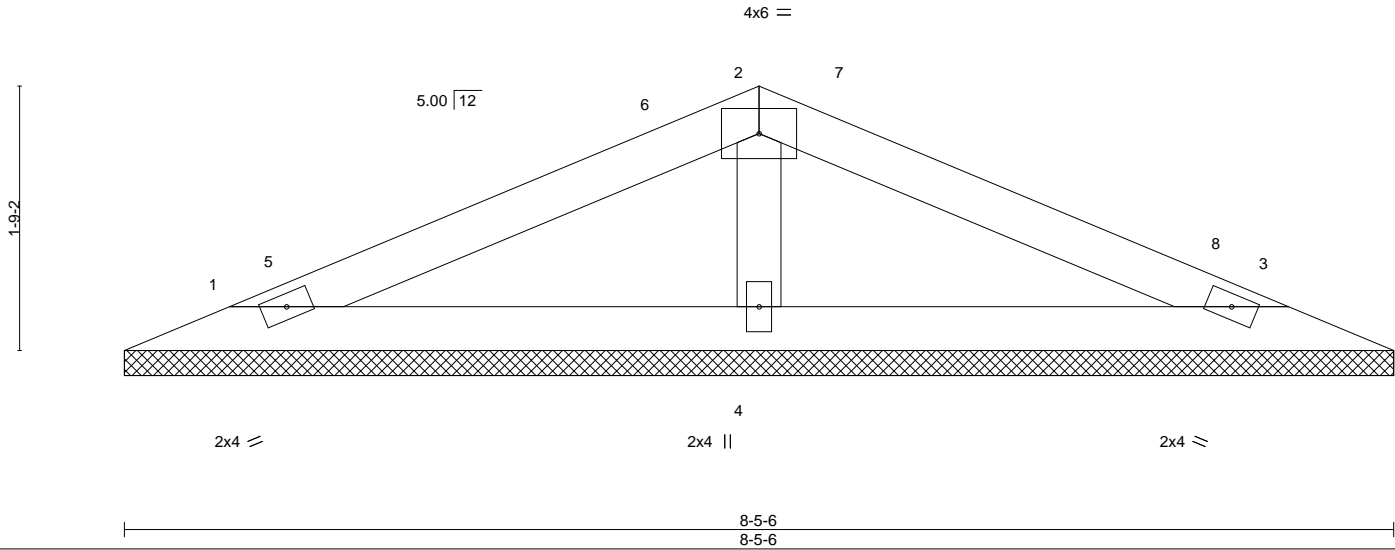
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|--|-------|------------|-----|-----|------------------|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126486 |
| MASTER_CRAFTSMAN | BV01 | GABLE | 1 | 1 | | |
| Builders FirstSource (Apex, NC), Apex, NC - 27523, | | | | | | Job Reference (optional) |

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:32 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 0.16 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.04 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 26 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

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

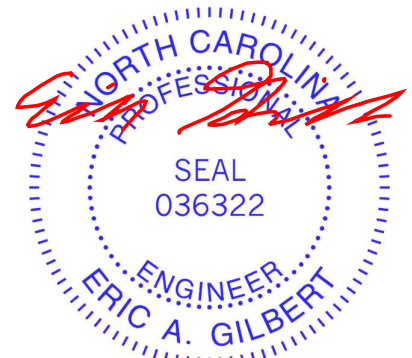
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=8-5-6, 3=8-5-6, 4=8-5-6
 Max Horz 1=19(LC 12)
 Max Uplift 1=-13(LC 12), 3=-17(LC 13)
 Max Grav 1=126(LC 23), 3=126(LC 24), 4=313(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-12 to 3-8-12, Interior(1) 3-8-12 to 4-2-11, Exterior(2) 4-2-11 to 7-2-11, Interior(1) 7-2-11 to 7-8-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 24, 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

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 | Master Craftsman | 152126487 |
| MASTER_CRAFTSMAN | BV02 | GABLE | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

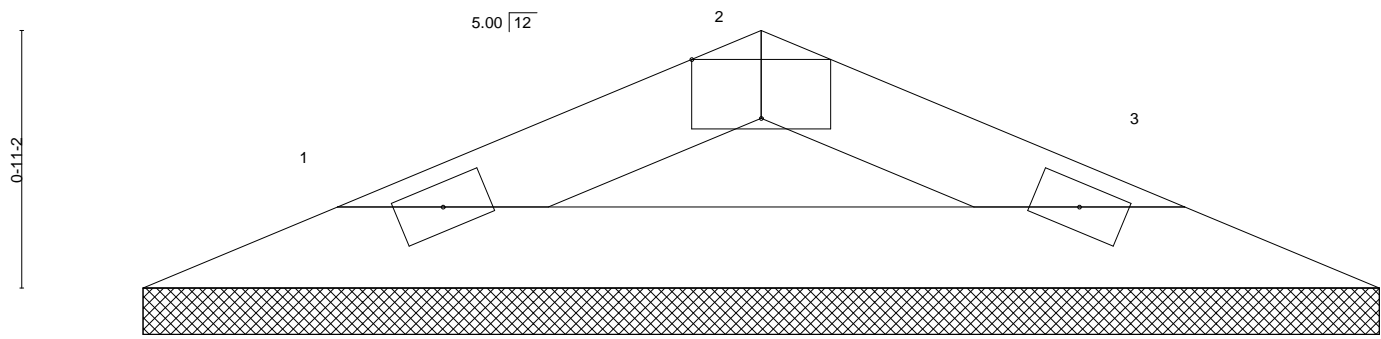
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:33 2022 Page 1

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3x6 =

Scale = 1:8.3



2x4 =

2x4 =

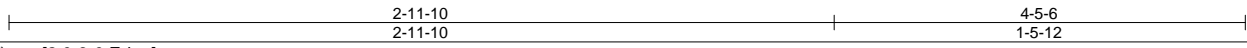


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------|-----------------|----------|----------|------|-------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | Weight: 12 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-5-6, 3=4-5-6
 Max Horz 1=8(LC 16)
 Max Uplift 1=4(LC 12), 3=4(LC 13)
 Max Grav 1=120(LC 1), 3=120(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 24, 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

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

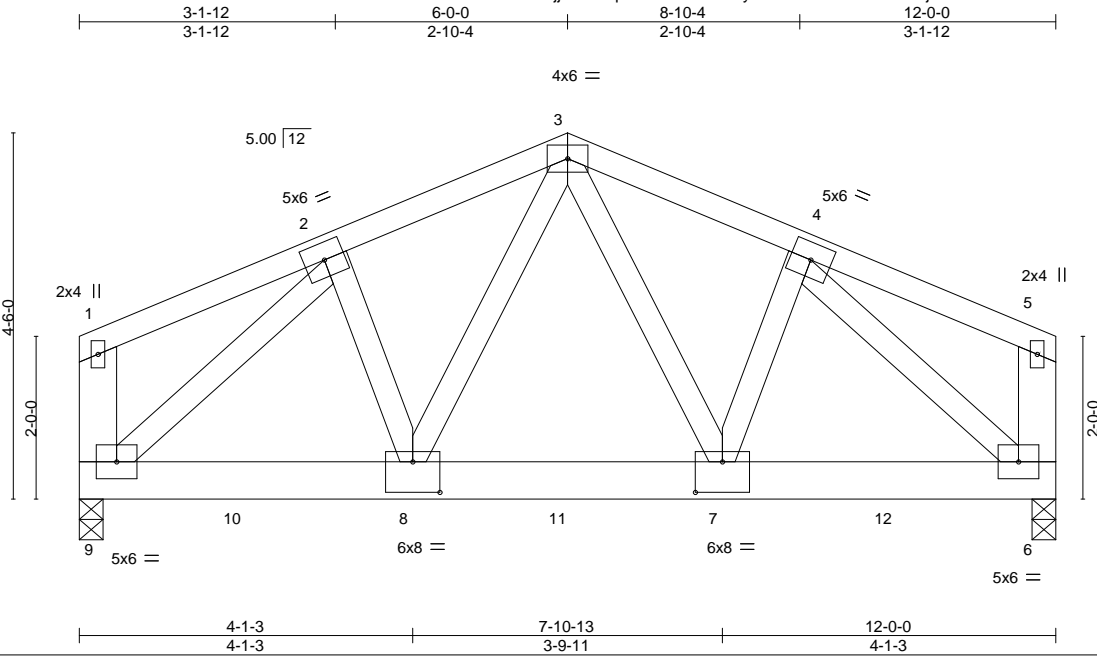


818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------------|------------------|----------------------|----------|----------|--|-----------|
| Job MASTER_CRAFTSMAN | Truss C01-2PL | Truss Type COMMON | Qty 1 | Ply 2 | Master Craftsman Job Reference (optional) | 152126488 |
|-------------------------|------------------|----------------------|----------|----------|--|-----------|

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:34 2022 Page 1

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Scale = 1:28.3

| | | | | | |
|-----------------------|----------------------------------|-------------|----------------------------------|----------------|-------------|
| Plate Offsets (X,Y)-- | [7:0-4-0,0-4-8], [8:0-4-0,0-4-8] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.23 | Vert(LL) -0.03 7-8 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.34 | Vert(CT) -0.06 7-8 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.33 | Horz(CT) 0.01 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.00 8 >999 240 | Weight: 171 lb | FT = 20% |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP DSS | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 1-9,5-6: 2x6 SP No.2 | |

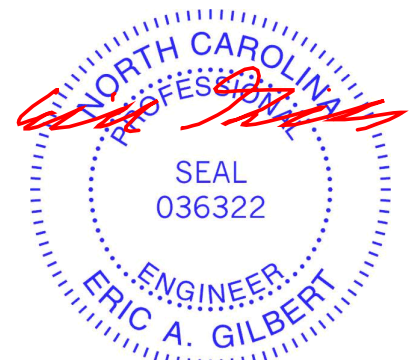
REACTIONS. (size) 9=0-3-8, 6=0-3-8
 Max Horz 9=45(LC 5)
 Max Grav 9=4168(LC 1), 6=4128(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-9=-260/0, 1-2=-388/0, 2-3=-4223/0, 3-4=-4230/0, 4-5=-386/0, 5-6=-260/0
 BOT CHORD 8-9=0/3329, 7-8=0/3189, 6-7=0/3334
 WEBS 3-7=0/1699, 4-7=0/1664, 4-6=-4330/0, 3-8=0/1687, 2-8=0/1660, 2-9=-4319/0

- 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, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1480 lb down at 1-11-4, 1480 lb down at 3-11-4, 1477 lb down at 5-11-4, and 1477 lb down at 7-11-4, and 1477 lb down at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

| |
|---|
| 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 |
| Uniform Loads (plf) |
| Vert: 1-3=-60, 3-5=-60, 6-9=-20 |
| Concentrated Loads (lb) |
| Vert: 7=-1477(B) 8=-1470(B) 10=-1470(B) 11=-1477(B) 12=-1477(B) |



May 24, 2022

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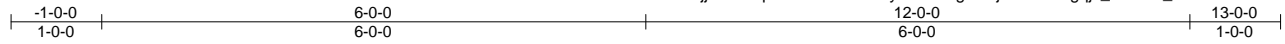
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126489 |
| MASTER_CRAFTSMAN | C01G | GABLE | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC), Apex, NC - 27523,

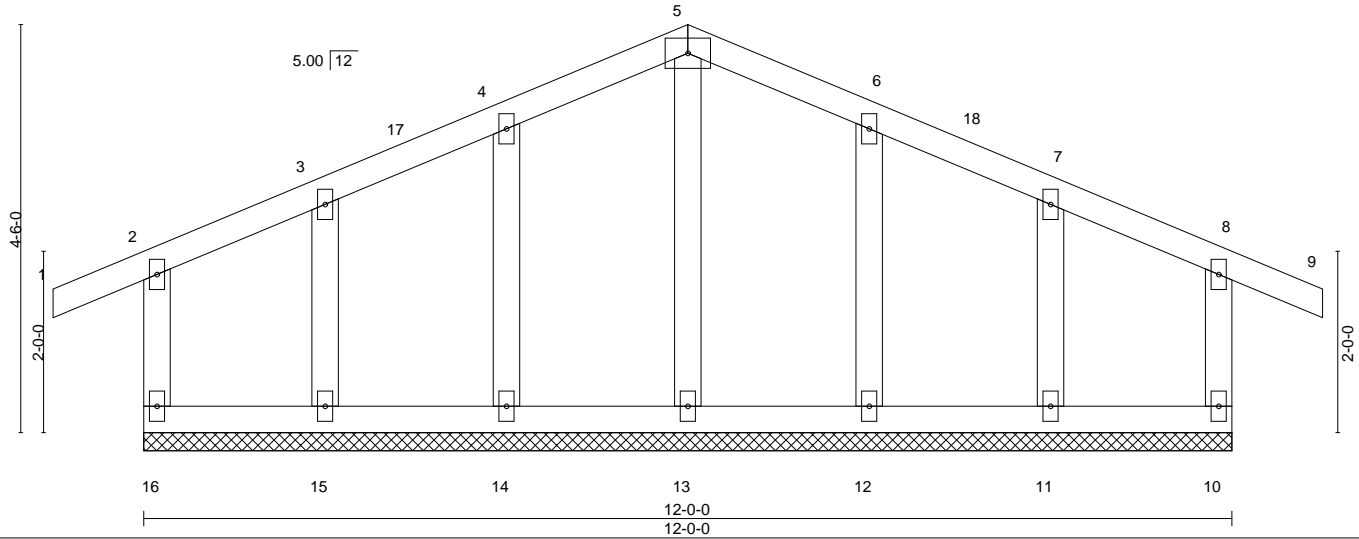
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:35 2022 Page 1

ID:x1XjjwWBLqE?VCRReTaQN3tyvmXu-agiWHjkbGtANKgqjJ_mc7N?_wAuJnlAvD64RJzDLVI



4x6 =

Scale = 1:25.4



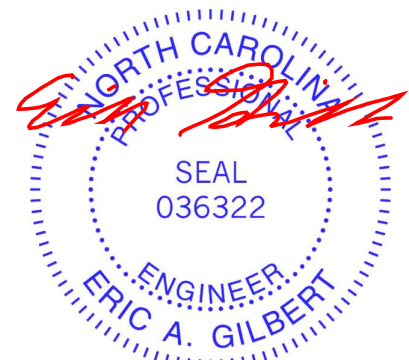
| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.10 | Vert(LL) | -0.00 | 9 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.05 | Vert(CT) | -0.00 | 9 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.04 | Horz(CT) | 0.00 | 10 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-R | | | | | Weight: 67 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz 16=45(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 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-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 6-0-0, Corner(3) 6-0-0 to 9-0-0, Exterior(2) 9-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



May 24, 2022

| | |
|--|---|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p> | <p>818 Soundside Road Edenton, NC 27932</p> |
|--|---|

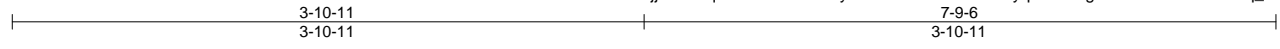
| | | | | | |
|------------------|-------|------------|-----|-----|------------------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman |
| MASTER_CRAFTSMAN | CV01 | GABLE | 1 | 1 | 152126490 |

Builders FirstSource (Apex, NC),

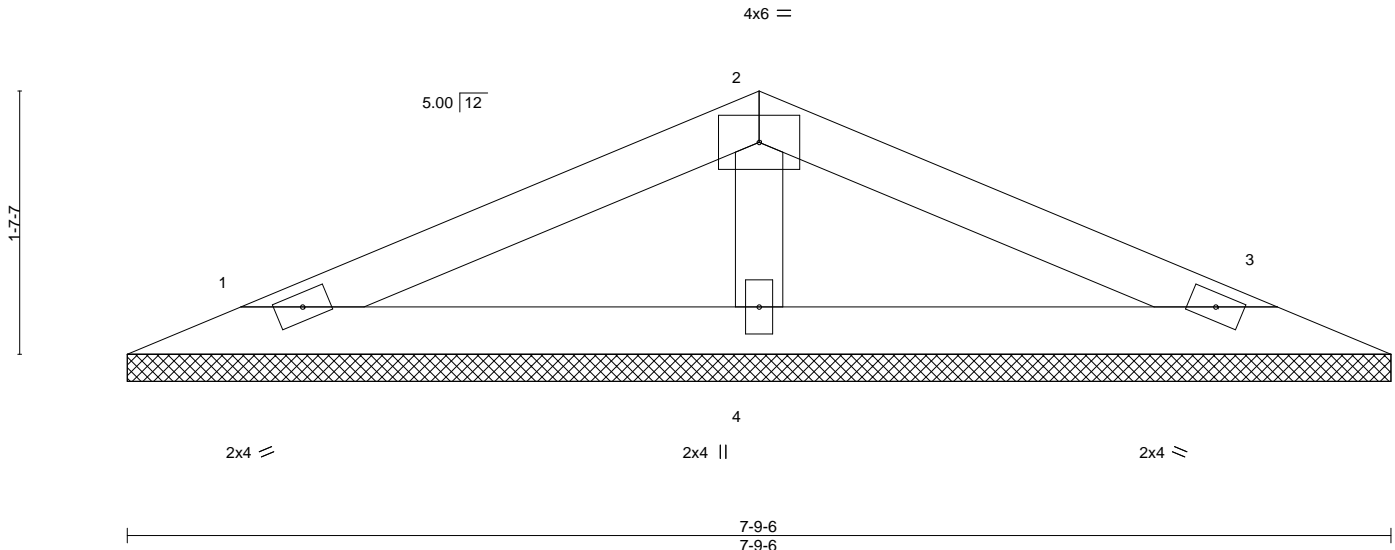
Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:36 2022 Page 1

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Scale = 1:14.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.13 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.10 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.04 | Horz(CT) | 0.00 | 3 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 23 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

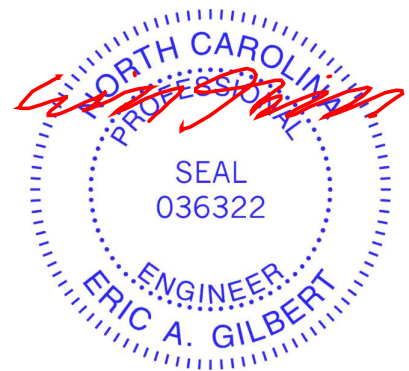
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. (size) 1=7-9-6, 3=7-9-6, 4=7-9-6
 Max Horz 1=-18(LC 13)
 Max Uplift 1=-12(LC 12), 3=-15(LC 13)
 Max Grav 1=114(LC 23), 3=114(LC 24), 4=283(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



May 24, 2022

| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126491 |
| MASTER_CRAFTSMAN | CV02 | GABLE | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC),

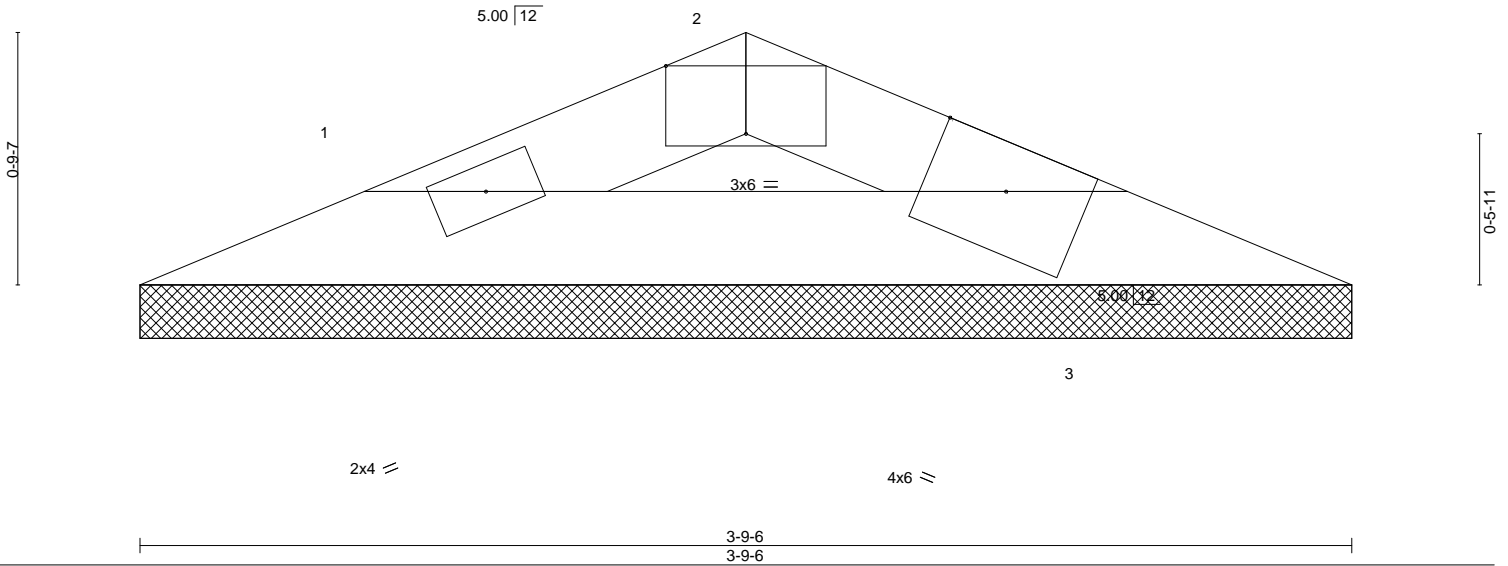
Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:36 2022 Page 1

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Scale = 1:7.2



| Plate Offsets (X,Y)-- [2:0-3-0,Edge] | | 3-9-6 | | 3-9-6 | |
|--------------------------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.02 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.07 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 3 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | Weight: 9 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-9-6, 3=3-9-6
 Max Horz 1=15(LC 12)
 Max Grav 1=81(LC 1), 3=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



May 24, 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



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 Edenton, NC 27932

| | | | | | | |
|------------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126492 |
| MASTER_CRAFTSMAN | D01 | JACK | 6 | 1 | | |

Builders FirstSource (Apex, NC),

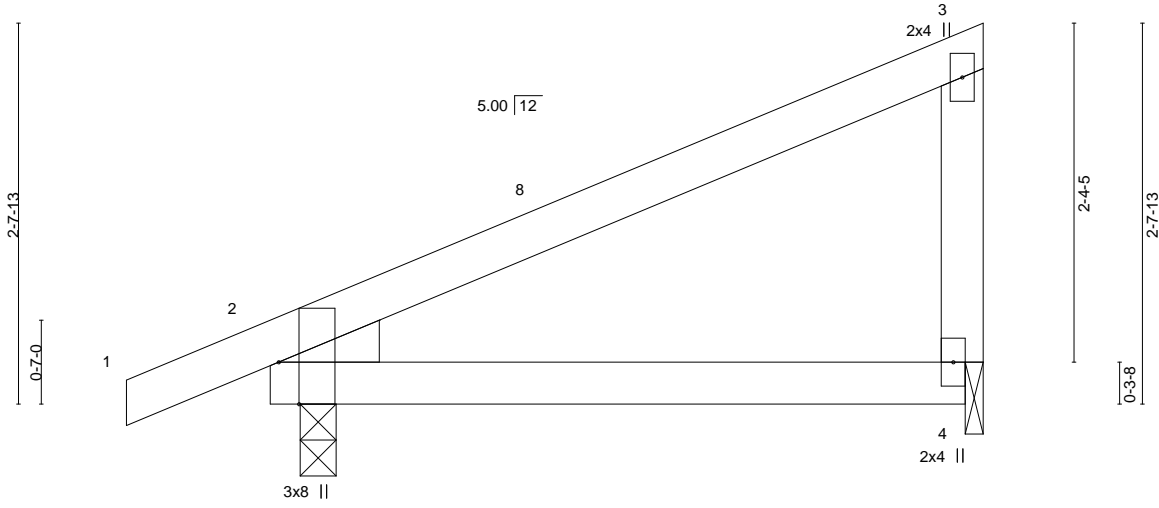
Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:38 2022 Page 1

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Scale: 3/4"=1'



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

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.32 | Vert(LL) | -0.02 | 4-7 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.26 | Vert(CT) | -0.05 | 4-7 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.00 | Horz(CT) | 0.01 | 2 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MP | Wind(LL) | 0.03 | 4-7 | >999 | Weight: 21 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| WEDGE | |
| Left: 2x4 SP No.3 | |

REACTIONS. (size) 4=0-1-8, 2=0-3-0
 Max Horz 2=79(LC 11)
 Max Uplift 4=-23(LC 12), 2=-24(LC 12)
 Max Grav 4=186(LC 1), 2=259(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



May 24, 2022

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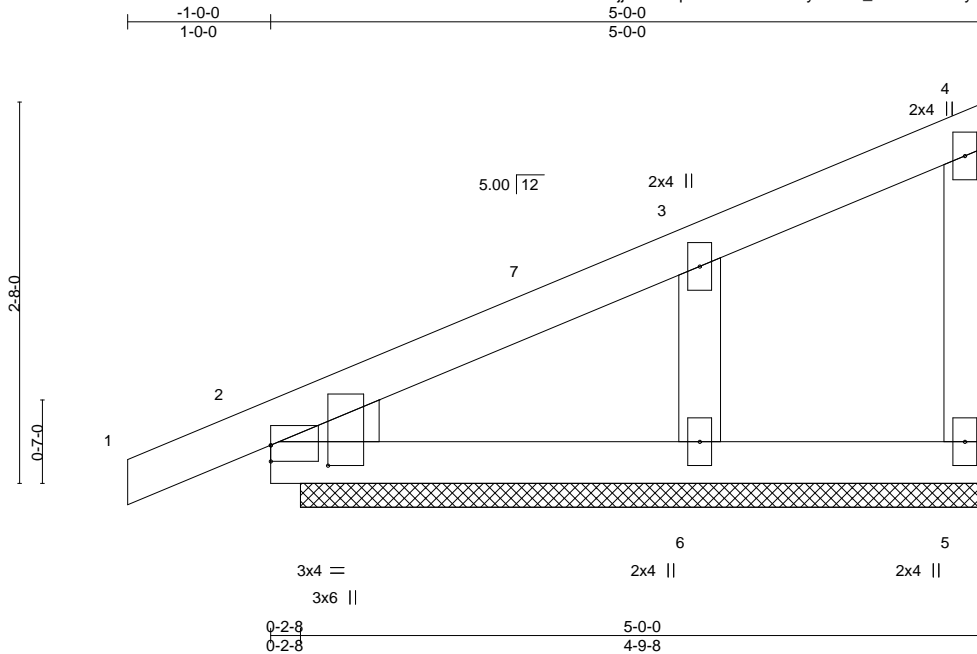
| | | | | | | |
|-------------------------|---------------|---------------------|----------|----------|--|-----------|
| Job MASTER_CRAFTSMAN | Truss D01G | Truss Type GABLE | Qty 1 | Ply 1 | Master Craftsman Job Reference (optional) | 152126493 |
|-------------------------|---------------|---------------------|----------|----------|--|-----------|

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:38 2022 Page 1

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Scale: 3/4"=1'

| | | | | | |
|-----------------------|------------------------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X,Y)-- | [2:0-0-0,0-1-6], [2:0-1-11,0-4-13] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.11 | Vert(LL) -0.00 1 n/r 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) 0.00 1 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.06 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | | Weight: 23 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| OTHERS 2x4 SP No.3 | |
| WEDGE | |
| Left: 2x4 SP No.3 | |

REACTIONS. (size) 5=4-9-8, 2=4-9-8, 6=4-9-8
 Max Horz 2=78(LC 9)
 Max Uplift 5=6(LC 9), 2=-13(LC 8), 6=-40(LC 12)
 Max Grav 5=42(LC 1), 2=170(LC 1), 6=236(LC 1)

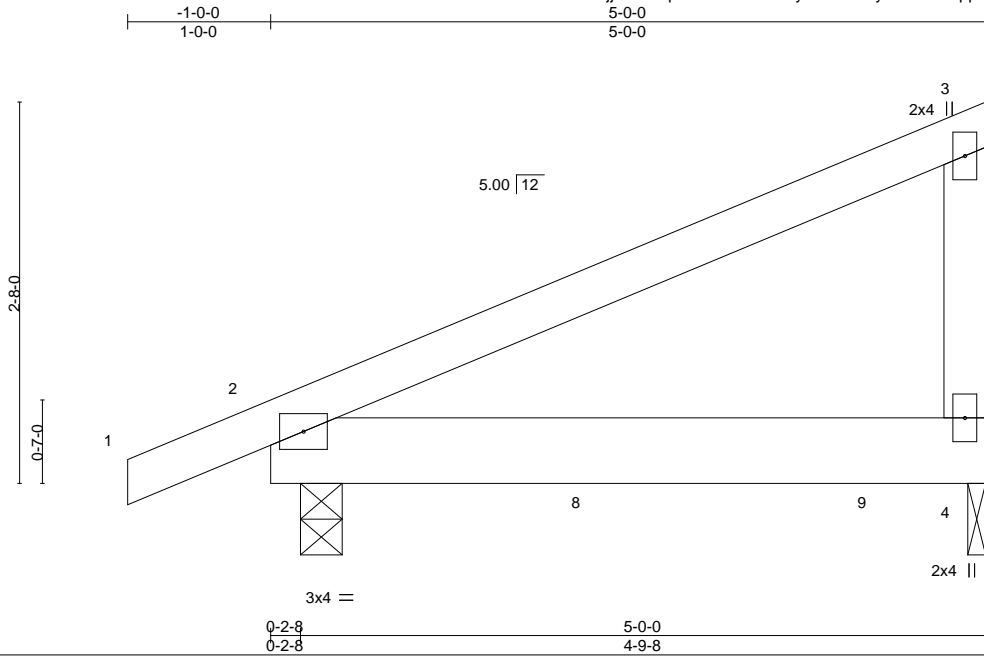
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 4-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
 - 7) Non Standard bearing condition. Review required.



May 24, 2022

| | | | | | | |
|--|-------|------------|-----|-----|------------------|--|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126494 |
| MASTER_CRAFTSMAN | D02 | JACK | 1 | 1 | | |
| Builders FirstSource (Apex, NC), Apex, NC - 27523, | | | | | | 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:39 2022 Page 1 |
| | | | | | | ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-SRy075eEJ6hppH8VYqqZIDAcn88jZoV7k2eSrZDLVE |
| | | | | | | Job Reference (optional) |



Scale: 3/4"=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 0.38 | Vert(LL) | -0.03 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.50 | Vert(CT) | -0.06 4-7 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr | NO | WB 0.00 | Horz(CT) | 0.01 2 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-MP | Wind(LL) | 0.02 4-7 | >999 | 240 | Weight: 24 lb | FT = 20% |

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-1-8, 2=0-3-8
 Max Horz 2=78(LC 22)
 Max Uplift 4=60(LC 8), 2=45(LC 8)
 Max Grav 4=477(LC 1), 2=401(LC 1)

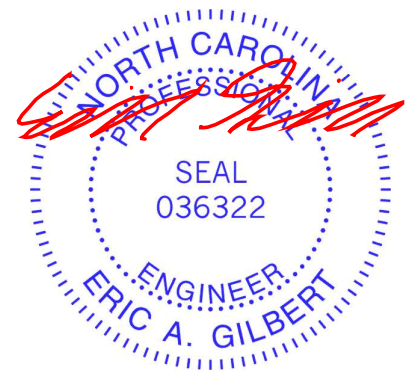
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 216 lb down and 40 lb up at 2-3-4, and 213 lb down and 31 lb up at 4-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-5=-20
 Concentrated Loads (lb)
 Vert: 8=-216(F) 9=-213(F)



May 24, 2022

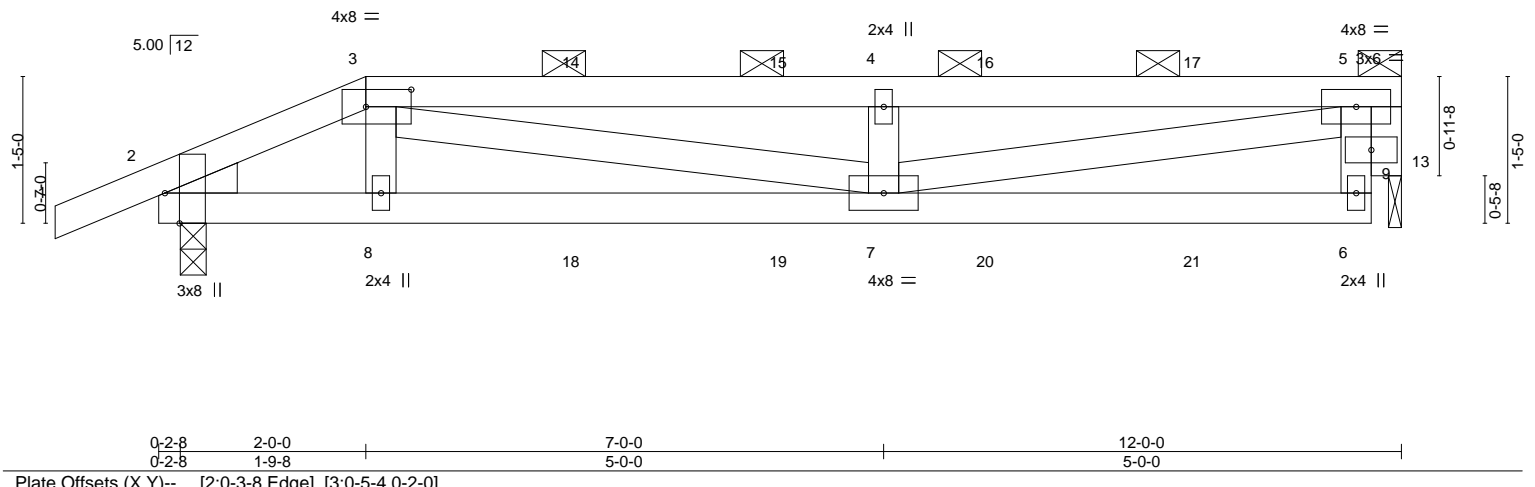
| | | | | | | |
|------------------|---------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126496 |
| MASTER_CRAFTSMAN | E01-1PL | MONO HIP | 1 | 1 | | |
| | | | | | Job Reference (optional) | |

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:41 2022 Page 1

ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-Pq3nYngVrjxX2bltgF1NefwCasqBM?ob2XIWkzDLVC



Scale = 1:22.2



| | | | | | |
|------------------------|---------------------------------|-------------|----------------------------------|---------------|-------------|
| Plate Offsets (X, Y)-- | [2:0-3-8,Edge], [3:0-5-4,0-2-0] | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.43 | Vert(LL) -0.05 7-8 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.36 | Vert(CT) -0.10 7-8 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.47 | Horz(CT) 0.01 13 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-MS | Wind(LL) 0.04 7 >999 240 | Weight: 56 lb | FT = 20% |

| | |
|---|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-5 max.): 3-5. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 *Except* 5-6: 2x4 SP No.2 | |
| WEDGE Left: 2x4 SP No.3 | |

| | |
|-------------------|---|
| REACTIONS. | (size) 2=0-3-0, 13=0-1-8 Max Horz 2=32(LC 8) Max Uplift 2=-45(LC 4), 13=-37(LC 5) Max Grav 2=553(LC 1), 13=459(LC 1) |
|-------------------|---|

| |
|---|
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD 2-3=-864/52, 3-4=-1346/110, 4-5=-1346/110 |
| BOT CHORD 2-8=-59/775, 7-8=-52/780 |
| WEBS 3-7=-65/600, 4-7=-306/101, 5-7=-93/1129, 5-13=-521/45 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5 lb down and 17 lb up at 2-0-0, 5 lb down and 17 lb up at 4-0-12, 5 lb down and 15 lb up at 6-0-12, and 5 lb down and 17 lb up at 8-0-12, and 5 lb down and 17 lb up at 10-0-12 on top chord, and 5 lb down at 2-0-12, 5 lb down at 4-0-12, 5 lb down at 6-0-12, and 5 lb down at 8-0-12, and 5 lb down at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

| |
|---|
| LOAD CASE(S) Standard |
| 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 |



Continued on page 2

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

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------------|---------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | I52126496 |
| MASTER_CRAFTSMAN | E01-1PL | MONO HIP | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:41 2022 Page 2
 ID:x1XjwWBLqE?VCRreTaQN3tymvXu-Pq3nYngVrjxX2bltgF1NefwCasqBM?ob2XIWkzDLVC

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 8=-5(F) 18=-5(F) 19=-5(F) 20=-5(F) 21=-5(F)

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

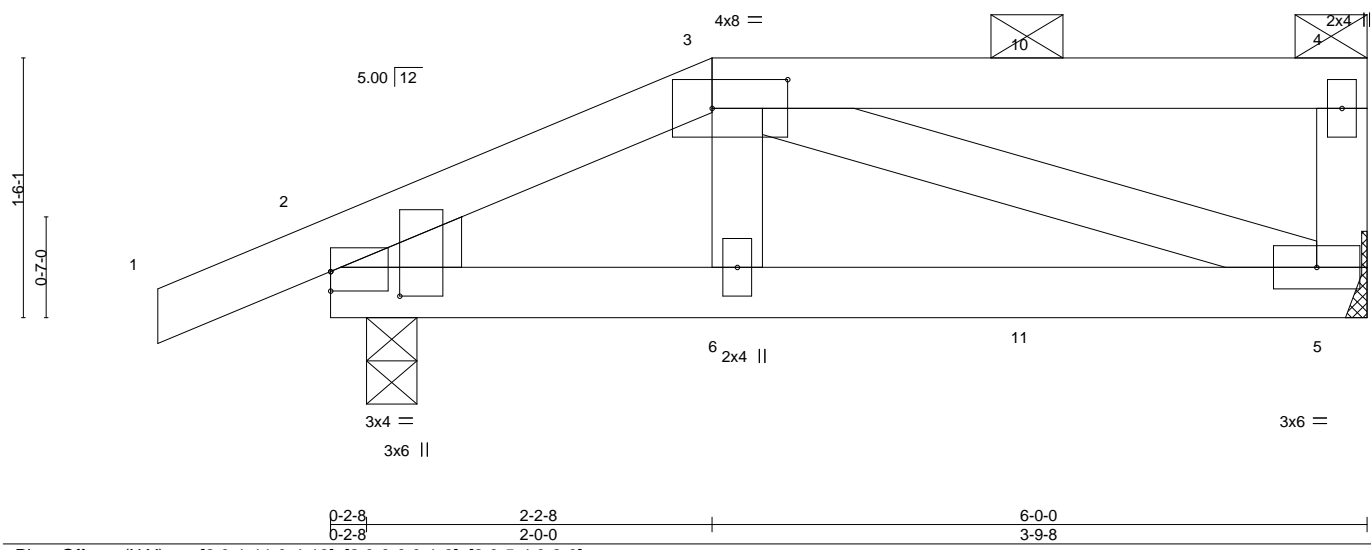
| | | | | | | |
|------------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126497 |
| MASTER_CRAFTSMAN | E01GR | MONO HIP | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:42 2022 Page 1
ID:x1XjjwWBLqE?VCRReTaQN3tymvXu-t0d9l7g7c13OglT3EyOGvso7H_E0wvAxqiHl2AzDLVB



Scale = 1:13.3



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-1-11,0-4-13], [2:0-0-0,0-1-6], [3:0-5-4,0-2-0] |
|-----------------------|---|

| 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 0.17 | Vert(LL) -0.01 5-6 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.09 | Vert(CT) -0.02 5-6 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-MP | Horz(CT) 0.00 5 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.00 6 >999 240 | Weight: 29 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3 | |
| WEDGE | |
| Left: 2x4 SP No.3 | |

REACTIONS. (size) 5=Mechanical, 2=0-3-8
 Max Horz 2=43(LC 7)
 Max Uplift 5=-20(LC 5), 2=-31(LC 8)
 Max Grav 5=236(LC 1), 2=305(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-313/15
 BOT CHORD 2-6=-23/268, 5-6=-18/276
 WEBS 3-5=-291/11

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 16 lb down and 19 lb up at 2-2-8, and 16 lb down and 13 lb up at 4-1-4 on top chord, and 7 lb down and 0 lb up at 2-1-4, and 7 lb down and 0 lb up at 4-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 5-7=-20
 Concentrated Loads (lb)
 Vert: 6=-6(B) 11=-6(B)



| | | | | | | |
|------------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126498 |
| MASTER_CRAFTSMAN | E02 | MONO HIP | 1 | 1 | | |

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:43 2022 Page 1

ID:x1XjwWBLqE?VCReTaQN3tymvXu-LDBXyThiNLBFivSGnfvS3KDuOYgfNo52M0sbczDLVA



3x6 =

Scale: 3/4"=1'

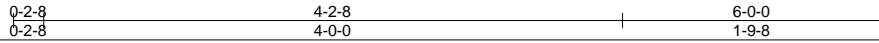
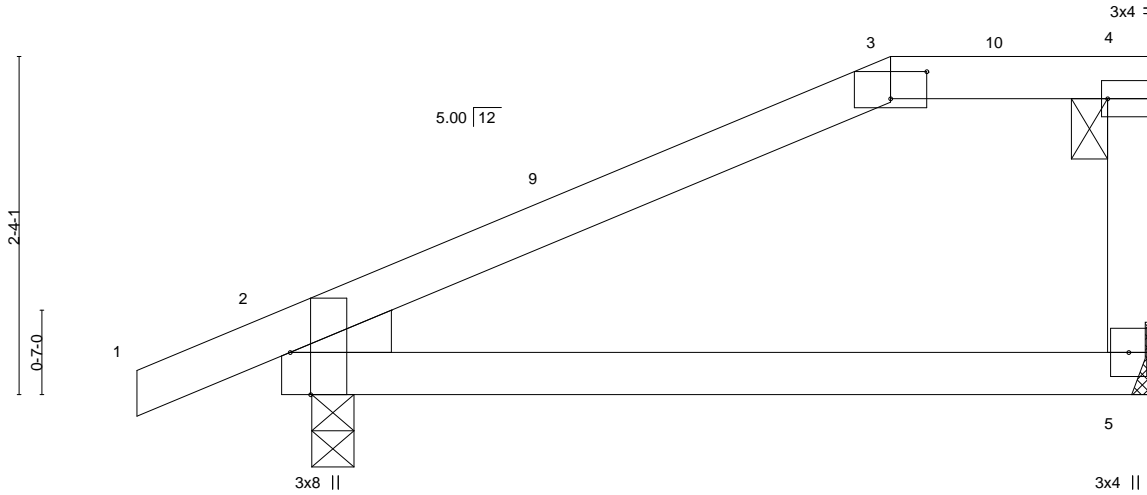


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-0,0-2-4], [4:Edge,0-1-8]

| 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 0.27 | Vert(LL) -0.02 5-8 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Vert(CT) -0.05 5-8 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-MR | Horz(CT) 0.01 2 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.02 5-8 >999 240 | Weight: 24 lb | FT = 20% |

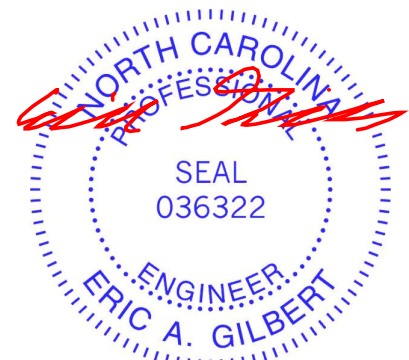
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

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

REACTIONS. (size) 5=Mechanical, 2=0-3-8
 Max Horz 2=71(LC 11)
 Max Uplift 5=-16(LC 9), 2=-29(LC 12)
 Max Grav 5=229(LC 1), 2=299(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=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-2-8, Exterior(2) 4-2-8 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 24, 2022

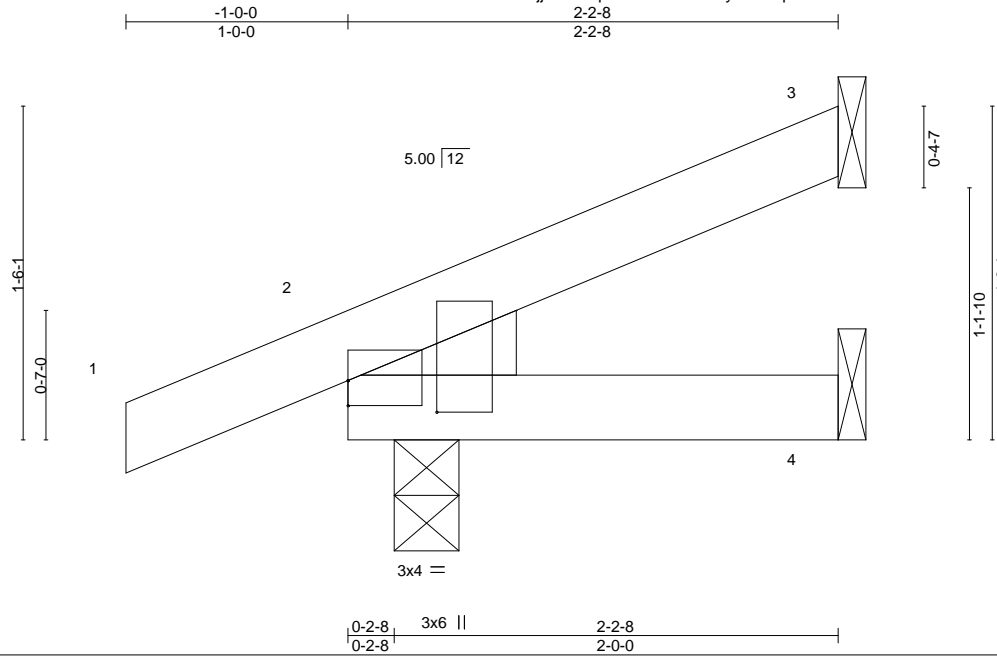
| | | | | | |
|-------------------------|--------------|--------------------|----------|----------|---|
| Job MASTER_CRAFTSMAN | Truss J01 | Truss Type JACK | Qty 1 | Ply 1 | Master Craftsman Job Reference (optional) I52126499 |
|-------------------------|--------------|--------------------|----------|----------|---|

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:44 2022 Page 1

ID:x1XjwWBLqE?VCRReTaQN3tymvXu-pPlvAoiN8eJ6w30SLNqk?HtWAoydOq1EH0mP73zDLV9



Scale = 1:10.4

Plate Offsets (X,Y)-- [2:0-0-0,0-1-6], [2:0-1-11,0-4-13]

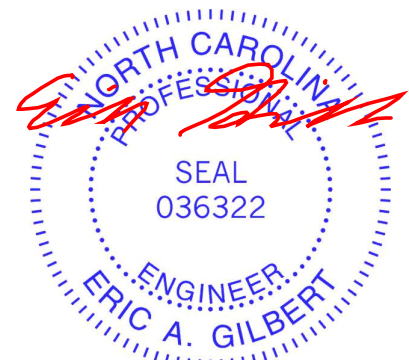
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.07 | Vert(LL) -0.00 | 7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.04 | Vert(CT) -0.00 | 7 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) 0.00 | 2 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-MP | Wind(LL) 0.00 | 7 | >999 | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 10 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEDGE | |
| Left: 2x4 SP No.3 | |

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
 Max Horz 2=39(LC 12)
 Max Uplift 3=-17(LC 12), 2=-16(LC 8)
 Max Grav 3=46(LC 1), 4=36(LC 3), 2=160(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



May 24, 2022

| | | | | | | |
|------------------|-------|------------|-----|-----|------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Master Craftsman | 152126501 |
| MASTER_CRAFTSMAN | SP01G | GABLE | 1 | 1 | | |

Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue May 24 08:18:45 2022 Page 1

ID:x1XjjwWBLqE?VCRreTaQN3tymvXu-HbJHN8j?vyRyXChev4xzXUPi_Clw7GsNWgVzfVzDLV8

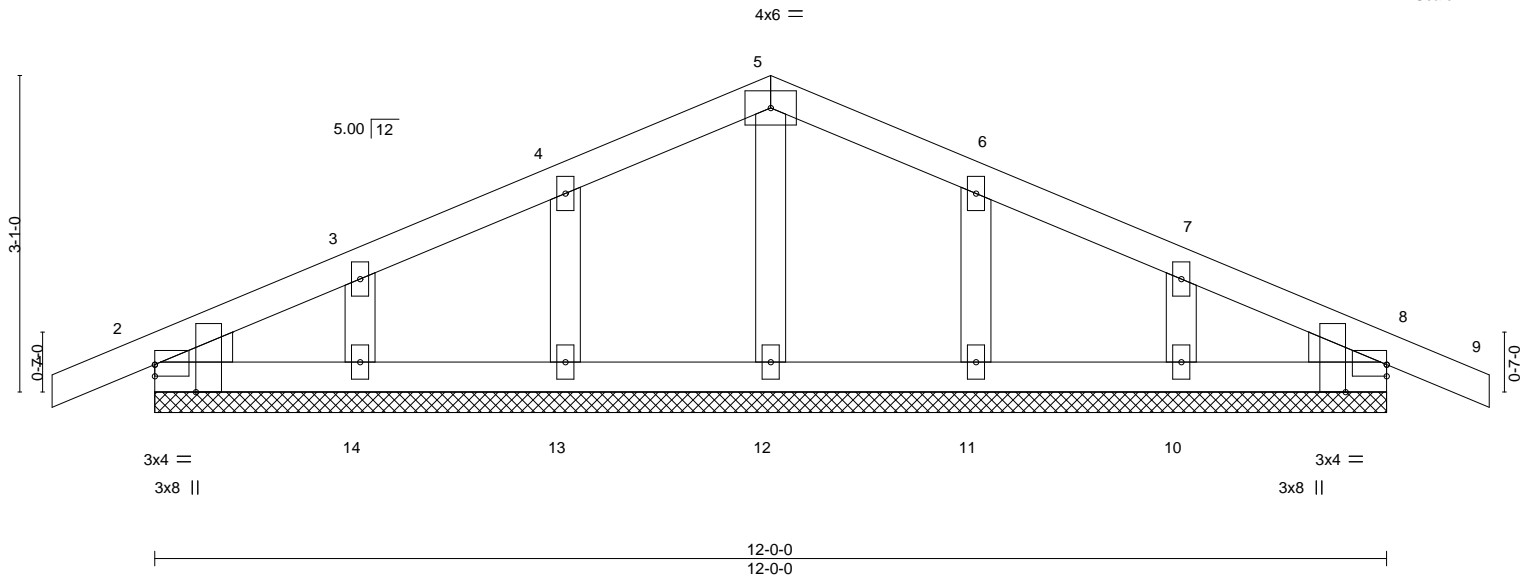
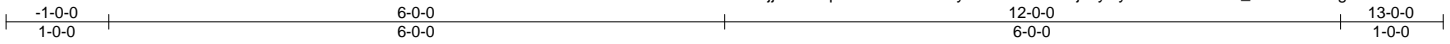


Plate Offsets (X, Y)-- [2:0-0-0,0-1-6], [2:0-3-3,Edge], [8:0-0-0,0-1-6], [8:0-3-3,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|-----------------|-----------------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.06 | Vert(LL) | -0.00 | 9 | n/r | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.03 | Vert(CT) | -0.00 | 9 | n/r | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.03 | Horz(CT) | 0.00 | 8 | n/a | | |
| BCDL 10.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | | Weight: 54 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz 2=50(LC 12)
 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-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-0-0, Exterior(2) 6-0-0 to 10-0-0, Interior(1) 10-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



May 24, 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

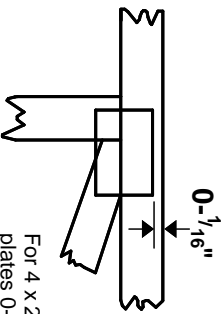


Symbols

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

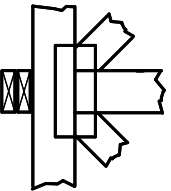
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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, 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.